



C-108 Application for Authorization to Inject via a Recompletion of API #3002521497 From SWD to Combined AGI/SWD Service Targa South Eunice Gas Plant Lea County, New Mexico

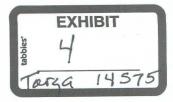


November 9, 2010

Prepared For:
Targa Midstream Services Limited Partnership
1000 Louisiana #4300
Houston TX 77002

Submitted To:
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Prepared By:
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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

| | PURPOSE: The proposed acid gas injection/salt water disposal (AGI/SWD) well will be used for disposal of acid gas, non- |
|------|---|
| \nia | azardous wastewater and produced water. The well will be a recompletion of an existing SWD (API# 3002521497) on the property, and |
| th | ne recompleted well will receive the wastewater from the Middle and South Plants in addition to the proposed treated acid gas (TAG) |
| sti | tream |

II. OPERATOR:

Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC Eunice Plant
PO Box 1909
Eunice, NM 88231
575.394.2534
Control Room Ext. 242
24 hour Emergency 575.391.6030

Contact Party: Area Manager: Gary Maricle Office 575.394.2534 x226 Cell 575-602-6005

III. WELL DATA:

Available information on registered wells within 2 miles of the existing SWD well (API# 3002521497) is included in Section 5.0. A schematic of the proposed recompletion of the SWD as a combined AGI/SWD well is included as Figure 3 and discussed in Section 3.0.

IV. IS THIS AN EXPANSION OF AN EXISTING PROJECT?

his is not an expansion of an existing project; however, this is an application to recomplete the existing SWD (API# 3002521497) on the South Eunice Plant into a combined AGI/SWD well, which was the subject of NMOCD Administrative Order SWD-1161.

V. ATTACH A MAP THAT IDENTIFIES ALL WELLS AND LEASES WITHIN TWO MILES OF ANY PROPOSED INJECTION WELL WITH A ONE-HALF MILE RADIUS CIRCLE DRAWN AROUND EACH PROPOSED INJECTION WELL. THIS CIRCLE IDENTIFIES THE WELL'S AREA OF REVIEW.

Appendix C contains a summary table and a map showing the locations of all known wells within 2 miles of the proposed AGI/SWD well.

The locations of all wells within the 1-mile area of review of the proposed injection well are provided in the Section 5.0. Figure 6 shows all wells within one mile of the proposed AGI/SWD.

Lists of, and maps showing, locations of adjacent unitized areas, leases, and data on surface owners, residents and other potentially interested parties within the area of review are included in Appendix D.

VI. ATTACH A TABULATION OF DATA ON ALL WELLS OF PUBLIC RECORD WITHIN THE AREA OF REVIEW WHICH PENETRATE THE PROPOSED INJECTION ZONE. SUCH DATA SHALL INCLUDE A DESCRIPTION OF EACH WELL'S TYPE, CONSTRUCTION, DATE DRILLED, LOCATION, DEPTH, RECORD OF COMPLETION, AND A SCHEMATIC OF ANY PLUGGED WELL ILLUSTRATING ALL PLUGGING DETAIL.

The tabulation of the available public data on wells within the 1-mile area of review is presented in Table 4 and plugging diagrams for wells penetrating the San Andres within the half-mile radius and other associated well plugging data are provided in Appendix C.

VII. ATTACH DATA ON THE PROPOSED OPERATION, INCLUDING:

- 1. Proposed average and maximum daily rate and volume of fluids to be injected;
- 2. Whether the system is open or closed;
- 3. Proposed average and maximum injection pressure;
- 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
- 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

- 1. Proposed injection volume is a maximum of 2500 barrels per day of acid gas. Additional injection of produced water and nonhazardous wastewater will range up to 1575 barrels per day, for a total injection volume of up to 4075 barrels per day. Details of injection volumes and injection pressures are discussed in Section 3.1.
- At the San Andres Formation the system is closed. Additional geological data for the area of the proposed injection well is described in Section 4.0
- 3. The proposed maximum injection pressure is 1292 psi, and pressure calculations are provided in Table 1 and Section 3.1. At the depth of the proposed injection zone (4250 to 4950 feet), the lithostatic pressure is approximately 4250 to 4950 psi, preventing any potential for fracturing.
- 4. The acid gas stream is composed of approximately 83.8% Carbon Dioxide, 14.5% Hydrogen Sulfide, and traces (1.7%) of methane, nitrogen and hydrocarbons. This acid gas stream is compressed and mixed with produced water and wastewater prior to injection. This mixed stream comprises the total injection fluids. Representative analyses of the acid gases and the wastewater are included in Appendix A.
- 5. Formation waters in the proposed zone (San Andres) were researched from available regional data. These analyses show that the formation waters have Total Dissolved Solids (TDS) ranging from 10,000 to 400,000 parts per million (ppm), with an average TDS of 80,000 ppm. The data are included in Appendix A.
- *VIII. ATTACH APPROPRIATE GEOLOGIC DATA ON THE INJECTION ZONE INCLUDING APPROPRIATE LITHOLOGIC DETAIL, GEOLOGIC NAME, THICKNESS, AND DEPTH, GIVE THE GEOLOGIC NAME, AND DEPTH TO BOTTOM OF ALL UNDERGROUND SOURCES OF DRINKING WATER (AOUIFERS CONTAINING WATERS WITH TOTAL DISSOLVED SOLIDS CONCENTRATIONS OF 10,000 MG/L OR LESS) OVERLYING THE PROPOSED INJECTION ZONE AS WELL AS ANY SUCH SOURCES KNOWN TO BE IMMEDIATELY UNDERLYING THE INJECTION INTERVAL.

The general Stratigraphy in the vicinity of the proposed well is summarized as:

| Unit | From (feet) | To (feet) | Thickness (feet) |
|----------------|-------------|-----------|------------------|
| Sand & Redbeds | 0 | 1138 | 1138 |
| Anhydrite | 1138 | 1226 | 88 |
| Salt | 1226 | 2611 | 1385 |
| Yates | 2611 | 2880 | 269 |
| lieen | 2880 | 3416 | 536 |
| Grayburg | 3416 | 3692 | 276 . |
| San Andres | 3962 | 4950 | 988 |
| Glorieta | 4950 | 5080 | 130 |
| Paddock | 5080 | 5450 | 370 |
| Blinebry | 5450 | 6610 | 1160 |
| Abo | 6610 | 7230 | 620 |
| Montoya | 7230 | 8016 | 786 |
| Granite Wash | 8016 | | |

The injection target zone for the proposed well is:

Geological Name: San Andres

Lithologies: Dolomite and Limestone Thickness: Approximately 1000' Depths:

4250' to 4950'

The geometry of the overlying formations and the San Andres are discussed in Section 4.0, and the regional stratigraphy is shown in Figure 2. A cross-section of the proposed injection area is presented in Figure 8. In this area, the San Andres is capped by the lowpermeability beds of the Grayburg Formation above, and by dolomite and evaporite facies in the lower San Andres.

As part of our geological analysis of the site, we have researched the available net porosity for the San Andres zone. As shown in Sections 4.2 and 4.3, and in Figures 9 and 10, we have determined that there are approximately 70 feet of total net porosity (700' injection interval with average 10% porosity) in the San Andres Zone.

ased on the maximum requested injection volumes described in Section 3.1, and a conservative effective net porosity of 70 feet, we alculated that there will be a maximum use of approximately 130 acres at the maximum projected injection rate of 4075 barrels per day. Calculations are included in Section 4.3. The calculated radius of injection, after 30 years, will be approximately 0.254 miles around the proposed AGI/SWD well.

These calculated acreages are shown in Figures 11 and 12. As shown in Section 4.2 and Figure 9, the porosity trend is localized and trends approximately North 10 West. For this reason, we have included in a map (Figure 12) showing the same maximum extent of injected fluid (30 years, 4075 barrels per day) of 130 acres in an ellipse parallel with the porosity trend.

The only significant drinking water aquifer is in the surficial, alluvial deposits of the Ogallala Formation. This unit is locally 100 to 200 eet thick, and the unconfined aquifer in this formation is encountered at 40 to 80 feet below the surface and cased off with surface casing of the SWD well. The identified wells in the one mile area of the proposed AGI/SWD well are identified in Section 4.5, detailed in Table 2, and shown in Figure 13. Analyses of drinking water samples from a representative water well (section 22, T22S, R37E) are included in Table 3. These analyses show that the Total Dissolved Solids (TDS) for the analyzed drinking water ranged from 694 to 756 milligrams per liter.

IX. DESCRIBE THE PROPOSED STIMULATION PROGRAM, IF ANY.

Stimulation programs, if necessary, will be evaluated following drilling, logging and testing. Some acidizing is routinely done after drilling prior to injection to clean up the hole.

*X. ATTACH APPROPRIATE LOGGING AND TEST DATA ON THE WELL. (IF WELL LOGS HAVE BEEN FILED WITH THE DIVISION, THEY NEED NOT BE RESUBMITTED).

The currently permitted salt water disposal well (API 3002521497; 1200 FWL, 2580 FSL, Section 27, 22S, 37E) exists on the property and is currently used as a salt water disposal well by the applicant. This well will be recompleted from its current depth of 4550 feet to a new depth of 4950 feet, and additional 5 ½" casing will be installed from the surface to 4250 feet, leaving an open-hole injection zone from 4250 to 4950 feet. The proposed recompletion is discussed in Section 3.2 and summarized in Figure 3. A detailed drilling plan is included in Appendix B

*XI. ATTACH A CHEMICAL ANALYSIS OF FRESH WATER FROM TWO OR MORE FRESH WATER WELLS (IF AVAILABLE AND PRODUCING) WITHIN ONE MILE OF ANY INJECTION OR DISPOSAL WELL SHOWING LOCATION OF WELLS AND DATES SAMPLES WERE TAKEN.

The identified wells in the one mile area of the proposed AGI are identified in Section 4.5, detailed in Table 2, and shown in Figure 13. Analyses of drinking water samples from a representative water well (section 22, T22S, R37E) are included in Table 3. These analyses show that the Total Dissolved Solids for the analyzed drinking water ranged from 694 to 756 milligrams per liter.

APPLICANTS FOR DISPOSAL WELLS MUST MAKE AN AFFIRMATIVE STATEMENT THAT THEY HAVE EXAMINED AVAILABLE GEOLOGIC AND ENGINEERING DATA AND FIND NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE DISPOSAL ZONE AND ANY UNDERGROUND SOURCES OF DRINKING WATER.

We have analyzed the available geological and engineering data and affirm that there are no open faults or other hydrogeological connections between the proposed injection zone(s) and the known sources of drinking water (see Sections 4.0 and 5.0).

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

Notices are being prepared for adjacent operators, surface owners and tenants, and a public notice for interested parties will be published in Lea County, New Mexico. Copies of all certified notices are provided in Appendix D. Return Receipt from notices and copies of the publication affidavits will be submitted upon receipt.

| XIV. | Certification: I hereby certify that the information submitted with this and belief. | s application is true and correct to the best of my knowledge |
|------|--|---|
| | NAME: Alberto A. Gutierrez, CPG | TITLE: Consultant to Targa Midstream Services, L.P. |
| | SIGNATURE: | DATE: <u>11/8/2010</u> |
| | E-MAIL ADDRESS: aag@geolex.com | |
| * | If the information required under Sections VI, VIII, X, and XI above h | has been previously submitted, it need not be resubmitted. |
| | Please show the date and circumstances of the earlier submittal: | N/A |

TABLE OF CONTENTS

| 1.0 EXECUTIVE SUMMARY | |
|--|-----|
| 2.0 INTRODUCTION AND ORGANIZATION OF THIS C-108 APPLICATION | 4 |
| 3.0 PROPOSED CONSTRUCTION AND OPERATION OF TARGA AGI/SWD WELL | 5 |
| 3.1 PRESSURE AND VOLUME CALCULATIONS | |
| 3.2 PROPOSED WELL RECOMPLETION | 6 |
| 3.3 SURFACE EQUIPMENT | 7 |
| 4.0 REGIONAL AND LOCAL GEOLOGY AND HYDROGEOLOGY | |
| 4.1 GENERAL GEOLOGIC SETTING | 8 |
| 4.2 DETAILED SITE GEOLOGY | 8 |
| 4.3 LITHOLOGIC AND RESERVOIR CHARACTERISTICS OF THE SAN ANDRES | 9 |
| 4.4 FORMATION FLUID CHEMISTRY | .11 |
| 4.5 GROUNDWATER HYDROLOGY IN THE VICINITY OF THE PROPOSED INJECTION | |
| WELL | .11 |
| 5.0 OIL AND GAS WELLS IN THE TARGA AGI/SWD #1 AREA OF REVIEW AND | |
| VICINITY | .12 |
| VICINITY | .12 |
| 5.2 PLUGGED OIL AND GAS WELLS | .13 |
| 6.0 IDENTIFICATION AND REQUIRED NOTIFICATION OF OPERATORS SUBSURFACE | |
| LESSEES AND SURFACE OWNERS WITHIN THE AREA OF REVIEW | .14 |
| 7.0 AFFIRMATIVE STATEMENT OF LACK OF HYDRAULIC CONNECTION BETWEEN | |
| PROPOSED INJECTION ZONE AND KNOWN SOURCES OF DRINKING WATER | .15 |
| | |
| | |

LIST OF FIGURES

| Figure 1: | Location Map of Targa South Eunice Gas Plant |
|------------|---|
| Figure 2: | General Stratigraphy in the Permian Basin |
| Figure 3: | Existing and Proposed Well Configurations, Targa AGI/SWD #1 |
| Figure 4: | Schematic of Targa AGI/SWD #1 Injection System Components |
| Figure 5: | Regional Setting of South Eunice Plant and General Stratigraphy of the Northwest |
| | Side of the Central Basin Platform |
| Figure 6: | Locations of All Wells within One Mile of Proposed Targa AGI/SWD #1 |
| Figure 7: | Locations of all Wells Penetrating the San Andres within One Mile of Proposed Targa |
| | AGI/SWD #1, showing line of Cross-Section A-A' |
| Figure 8: | General Cross-Section Through the Area of Targa AGI/SWD #1 |
| Figure 9: | Net Porosity (>6%) in the San Andres Carbonate, Top of San Andres to Top of Glorieta Foundation |
| Figure 10: | Well Logs Showing Porosity in Vicinity of Proposed Targa AGI/SWD #1 |
| Figure 11: | |
| _ | Maximum Calculated Area of Reservoir Affected by Proposed Injection after 30 Years |
| Figure 12: | Calculated Area of Reservoir Affected by Proposed Injection after 30 Years Along |
| | Porosity Trend |
| Figure 13: | Water Wells Within One Mile of Proposed Targa AGI/SWD #1 |
| Figure 14: | Diagrams of Existing and Proposed Well Configurations, Langlie-Mattix Sand Unit # 25 002 |
| | |

Geolex, Inc.

11/8/2010

LIST OF TABLES

Table 1: Pressure and Volume Calculations for TAG and Wastewater Table 2: Water Wells One Mile of Proposed Targa AGI/SWD #1

Table 3: Groundwater Analyses in Study Area

Table 4: Oil and Gas Wells Within One Mile of Proposed Targa AGI/SWD #1

LIST OF APPENDICES

Appendix A: Data on San Andres Formation Fluid and Analysis of Injection Fluids

Appendix B: Proposed AGI/SWD Well Recompletion Information

Appendix C: Map and Table of All Wells within Two Miles of Proposed Targa AGI/SWD #1;

Plugging Diagrams, Well Records, and Documentation for Wells within One Mile of

Proposed AGI/SWD #1

Appendix D: Identification of Lessees, Surface Owners and other Interested Parties for Notices; Copies

of Notice Letters and Certified Mail Receipts; Copy of Draft Public Notice for Hearing

Appendix E: Rule 11 Plan Submitted October 8, 2010

| 11/8/2010 |
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| |

1.0 EXECUTIVE SUMMARY

On behalf of, Targa Midstream Services Limited Partnership (Targa), as operator for Versado Gas Processors, LLC, Geolex[®], Inc. (Geolex) has prepared and is hereby submitting a complete C-108 application for approval to recomplete an existing saltwater injection well (SWD) and operate it as a combined acid gas, produced water injection and CO 2 sequestration well. This recompletion was previously approved by NMOCD via Orders R-12809, R-12809A, and SWD-1161. This SWD (API #30-025-21497) is located 1,200 feet from the west line and 2,580 feet from the south line, Unit L of Section 27, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico on the Targa South Eunice Gas Plant. This plant is located approximately five miles south of Eunice (Figure 1).

The Targa AGI/SWD #1 is anticipated to be recompleted (or plugged back) to a total depth of approximately 4,950 feet at the base of the San Andres Formation. The proposed injection zone will be contained within the San Andres Formation. Analysis of the reservoir characteristics of the San Andres in this area confirms that it is an excellent closed-system reservoir that will accommodate the future needs of Targa for disposal of acid gas, wastewater and sequestration of CO₂. Targa needs to inject a maximum of 2,500 bbls/d of treated acid gas (TAG) in conjunction with a maximum of 1,575 bbls/d of produced water/wastewater for a total injection volume of up to 4,075 bbls/d of fluid for approximately 30 years (totaling approximately 44,651,812 bbls.). Geologic studies conducted for the selection of this location and the site-specific formation injection data demonstrate that the proposed injection zone is readily capable of accepting and containing the proposed total volume of acid gas, produced water/wastewater and CO₂ injection volumes within NMOCD's required maximum injection pressures.

In preparing this C-108 application, Geolex conducted a detailed examination of all of the elements required to be evaluated in order to prepare and obtain approval for this application for injection. The elements of this evaluation include:

- Identification and characterization of all hydrocarbon-producing zones of wells that surround and are present on the plant site;
- The depths of perforated pay intervals in those wells relative to the depth of the target injection zone (San Andres Formation);
- The past and current uses of the San Andres Formation;
- Total feet of net porosity in the proposed injection zone;
- The stratigraphic and structural setting of the San Andres relative to any nearby active San Andres wells;
- The identification of and sample notification letter that will be sent to all surface owners and residents within a one mile radius of the proposed injection well;
- The identification of all wells and of all operators within a one mile radius of the proposed injection well:
- Identification and characterization of all plugged wells within a one mile radius of the proposed injection well, including plugging diagrams of all plugged wells within a half mile radius;
- The details of the proposed injection operation, including well design and average and maximum daily rates of injection and injection pressures;
- Sources of injection fluid and compatibility with the formation fluid of the injection zone
- Location and identification of any fresh water bearing zones in the area; the depth and quality of
 available groundwater in the vicinity of the proposed well, including a determination that there
 are no structures which could possibly communicate the disposal zone with any known sources of
 drinking water;

• The proposed recompletion of the Langlie-Mattix Penrose Sand Unit 25-002 Well operated by Legacy Reserves Operating, LP (API #30-025-10499) to assure that any potential communication with the top of the San Andres Formation is properly sealed off.

- A 30-year life for the permit allowing for renewal and extension of the permit after 30 years until the maximum aggregate permitted injection volume has been injected (44,651,812 bbls.).
- A revised Rule 11 Plan for the facility to accommodate the proposed changes in operation was submitted by Targa to NMOCD on October 8, 2010

Based upon this detailed evaluation, as summarized in this application, Targa has determined that the proposed injection well is a safe and environmentally-sound project for the disposal of acid gas and produced water/wastewater. Furthermore, the project provides additional environmental benefit by permanently sequestering a significant volume of CO₂ which would otherwise continue to be released to the atmosphere through the operation of the existing sulfur reduction unit (SRU) at the Middle Eunice Plant as well as reducing SO₂ emissions.

The South Eunice Gas Processing Plant is situated in the Permian Basin, on the northwestern flank of a basement-controlled structural high known as the Central Platform. The site is underlain by Holocene alluvial and aeolian deposits and the Tertiary Ogallala Formation that rest on the redbeds and sandstones of the Triassic Dockum Formation (Figure 2). Beneath the Dockum beds lie approximately 1500 feet of anhydrite and salt in the Ochoan Permian Salado and Castile formations. The shallowest production is encountered in the sub-salt Permian Artesia Group, including the Tansill, Yates, Seven Rivers, Queen and Grayburg formations. Production in this zone is restricted to the Seven Rivers and Queen formations, locally designated as the Langlie-Mattix zone.

The primary identified AGI/SWD target is the San Andres Formation, a thick (approximately 1,000 feet) deposit of Permian-Age dolomitic carbonate that was deposited in shallow marine environments, found at approximate depths of from 3900 to 5000 feet below surface. The San Andres is capped from overlying zones by the relatively impermeable lower Grayburg Formation. The San Andres is closed vertically at the base by a lower facies of low-permeability dolomite and anhydrite. Below the San Andres lies approximately 200 feet of calcareous sand in the Glorieta Formation. This unit is not productive in this area.

Only to the northeast of the proposed AGI/SWD well is any production found in the deeper Permian Leonardian series, including the locally-named Abo, Drinkard and Blinebry zones. These units produce from depths of 6500 to 7000 feet, well below the San Andres. Deeper production is also found in the Silurian Fussleman, and in the Ordovician Montoya Formation, approximately 0.87 miles northeast of the proposed AGI/SWD well.

We have reviewed the well logs, well tests, and production and injection records from the current SWD well and other local wells completed in the San Andres to determine the porosity, permeability and injection suitability of the San Andres in the area of the Targa plant. Based on these data, we have concluded that the San Andres provides ample porosity, permeability and volume to serve Targa's injection needs.

All operators of active wells within one mile, surface owners of lands within one mile, all known residents and businesses located or having facilities within one mile, the State Land Office, the US BLM, and any municipalities within five miles, including the town of Eunice have been provided notice of this application at least 30 days prior to the NMOCD hearing pursuant to NMOCD requirements. Furthermore, a legal notice of the hearing date will be published twenty (20) days prior to the hearing in the Hobbs Daily News Sun.

Geolex, Inc.

11/8/2010

In summary, via this C-108 application, Targa requests the following:

- Modifications in the design of Targa's existing SWD well (30-025-21497) to increase the depth from 4550 feet to 4950 feet, and to modify the well's completion to reflect best practices in AGI/SWD construction with an injection zone from 4250'to 4950'
- Operate the redesigned well at a maximum well head pressure of 1292 psi and a maximum injection volume of 4075 barrels per day of combined acid gas and wastewater/produced water
- Obtain an operating permit allowing for either 30 years of operation or until the maximum aggregate permitted injection volume has been injected (44,651,812 bbls), whichever is later.

Based on discussions with NMOCD Targa hereby recommends the following additional conditions to obtain approval for the project:

- Implementing an NMOCD-approved remedial action for the Legacy Resources Operating LC Langlie-Mattix Penrose Sand Unit 25-002 (3002410499), to address the potential for migration from the original plug set in the well from 3692 feet to total depth of 4066 feet by re-plugging that interval consistent with current NMOCD-approved procedures
- Re-drilling and recompletion of the existing SWD as a combined AGI/SWD pursuant to NMOCD's order
- Safe and efficient operation and maintenance of the new AGI/SWD well pursuant to NMOCD requirements
- Correct and timely monthly reporting of volumes injected to NMOCD via online forms C-115.

2.0 INTRODUCTION AND ORGANIZATION OF THIS C-108 APPLICATION

The completed NMOCD Form C-108 is included before the Table of Contents of this document and references appropriate sections where data required to be submitted are included herein.

This document organizes and details all of the information required by NMOCD to evaluate and approve the submitted Form C-108 – Application for Authorization to Inject. This information is presented in the following categories:

- A detailed description of the location, construction and operation of the proposed injection well (Section 3.0)
- A summary of the regional and local geology, the hydrogeology, and the location of drinking water wells within the area of review (Section 4.0)
- The identification, location, status, production zones, and other relevant information on oil and gas wells within the area of review (Section 5.0)
- The identification and required notification for operators and surface land owners that are located within the area of review (Section 6.0)
- An affirmative statement, based on the analysis of geological conditions at the site, that there is no hydraulic connection between the proposed injection zone and any known sources of drinking water (Section 7.0), and

In addition, this application includes the following supporting information:

- Appendix A: San Andres Formation Fluid Analysis and Injection Fluid Analyses,
- Appendix B: Detailed Proposed Design for Modifications of the AGI/SWD Well
- Appendix C: Plugging Diagrams and Well Data for Wells Within One Mile of the AGI/SWD Well
- Appendix D: Identification of Lessees, Surface Owners and other Interested Parties for Notices; Copies of Notice Letters and Certified Mail Receipts; Copy of Draft Public Notice for Hearing
- Appendix E: Rule 11 Plan Submitted October 8, 2010

This application has been assigned NMOCD Case Number 14575 and is titled "Application of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") for approval to inject acid gas". This application is scheduled to be the subject of a NM Oil Conservation Commission Hearing on December 9, 2010 at 9:00 am.

2.0 INTRODUCTION AND ORGANIZATION OF THIS C-108 APPLICATION

The completed NMOCD Form C-108 is included before the Table of Contents of this document and references appropriate sections where data required to be submitted are included herein.

This document organizes and details all of the information required by NMOCD to evaluate and approve the submitted Form C-108 – Application for Authorization to Inject. This information is presented in the following categories:

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- A summary of the regional and local geology, the hydrogeology, and the location of drinking water wells within the area of review (Section 4.0)
- The identification, location, status, production zones, and other relevant information on oil and gas wells within the area of review (Section 5.0)
- The identification and required notification for operators and surface land owners that are located within the area of review (Section 6.0)
- An affirmative statement, based on the analysis of geological conditions at the site, that there is no hydraulic connection between the proposed injection zone and any known sources of drinking water (Section 7.0), and

In addition, this application includes the following supporting information:

- Appendix A: San Andres Formation Fluid Analysis and Injection Fluid Analyses,
- Appendix B: Detailed Proposed Design for Modifications of the AGI/SWD Well
- Appendix C: Plugging Diagrams and Well Data for Wells Within One Mile of the AGI/SWD Well
- Appendix D: Identification of Lessees, Surface Owners and other Interested Parties for Notices; Copies of Notice Letters and Certified Mail Receipts; Copy of Draft Public Notice for Hearing
- Appendix E: Rule 11 Plan Submitted October 8, 2010

This application has been assigned NMOCD Case Number 14575 and is titled "Application of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") for approval to inject acid gas". This application is scheduled to be the subject of a NMOCD hearing on December 16, 2010.

3.0 PROPOSED CONSTRUCTION AND OPERATION OF TARGA AGI/SWD WELL

The existing SWD well, which will be recompleted as a combined AGI/SWD well, is located 1,200 feet from the west line and 2,580 feet from the south line, Unit L of Section 27, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico on the Targa South Eunice Gas Plant site. Figure 1 shows the location of the well that was previously approved for a recompletion as a combined AGI/SWD well. As was approved in SWD-1161, Targa proposes that the well will be deepened from the original depth of 4450 feet to 4950 feet, and 51/2 -inch casing will be installed from the surface to 4250 feet, below the existing 7-inch casing which extends to 4010 feet.

3.1 PRESSURE AND VOLUME CALCULATIONS

The well will be designed and constructed such that it will serve as the injection conduit for a mixed stream of TAG (up to 2500 barrels per day) and produced water (up to 1575 barrels per day), totaling a maximum volume of 4075 barrels of combined fluid per day. The TAG stream (see Table 1 and Appendix A for detailed analyses) will be approximately of the following composition:

- 83.8% CO₂
- 14.5% H₂S
- 1.7% Trace Components of $C_1 C_7$

The specific gravity of acid gas injection fluids is highly dependent on the temperature and pressure conditions and the composition of the fluid mixture. It is most accurately calculated using a modification of the Peng-Robinson (PR) equation of state (EOS) model (Boyle and Carroll, 2002). We have calculated the specific gravities of the TAG condensate and the aqueous phases for the proposed Targa injection stream using the AQUAlibrium 3.1 software which employs the modified PR EOS model. In all models, the TAG was assumed to have a composition of 83.8 mol % $\rm CO^2$ and 14.5 mol % $\rm H_2S$ (the remaining fraction includes $\rm C_1\text{-}C_7$; inclusion of this fraction into the calculations results in small variations on the order of several %). The specific gravities were determined for the conditions at the compressor outlet (pressure = 1482 psi, temperature = $100^{\circ}\text{F} - 135^{\circ}\text{F}$ – depending on ambient temperature) at the well head (pressure = 1292 psi, temperature = $100^{\circ}\text{F} - 135^{\circ}\text{F}$), at the bottom of the well (pressure = 2439 psi, temperature = 135°F). In the determination of specific gravity we used the 100°F temperature in order to be conservative on the maximum allowable pressure determination since specific gravity increases with decreasing temperature. The specific gravities determined were then used in calculations of maximum injection pressure and injection volume (see Table 1).

The calculated maximum allowable injection pressure would be approximately 1292 psi (depending on specific gravity of final TAG stream). We have used the following method approved by NMOCD to calculate the preliminary proposed maximum injection pressure. The final maximum permitted surface injection pressure should be based on the final specific gravity of the injection stream according to the following formula:

 $IP_{max} = PG(D_{top})$ where:

IP_{max}= maximum surface injection pressure (psi)

PG = pressure gradient of mixed injection fluid (psi/ft)

 D_{top} = depth at top of perforated interval of injection zone (ft)

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11/8/2010

and $PG = 0.2 + 0.433 (1.04 - SG_{bif})$ where:

SG_{bif} = specific gravity of blended injection fluid at the well head.

In order to calculate the maximum requested injection volume, well specifications and calculations of the fluid specific gravity show that:

$$SG_{bif} = 0.80$$

$$D_{top} = 4250$$
 feet

Therefore:

$$PG = 0.2 + 0.433 (1.04 - 0.80) = 0.304 \text{ psi/ft}$$

$$IP_{max} = PG(D_{top}) = 0.304(4250) = 1292 \text{ psi}$$

Based on the performance of the existing injection well, it is anticipated that the average injection pressure would not exceed 1292 psi at the well head. Based on the above calculations, Targa is requesting approval of a maximum injection pressure to be 1292 psi at the surface.

3.2 PROPOSED WELL RECOMPLETION

A detailed prognosis for the AGI/SWD well recompletion is included in Appendix B, and the existing and proposed well configurations are shown in Figure 3a and 3b, respectively.

The existing well is cased to 300 feet with 10 ¾" surface casing, to 4010 feet with 8 ¾" casing, and extends as an open hole to a total depth of 4550 feet. The current injection string includes 3 ½" internally plastic coated tubing, completed with a Halliburton R-4 packer at 3814 feet.

The proposed recompletion will begin by setting up the rig (using a closed-loop drilling system), installing and testing BOPs, and removing the existing packer and tubing. After installing a new, corrosive-resistant well head, a casing scraper will be run into the original casing to 3950 feet.

The drilling contractor will then rig up with a 6 ¼" bit and drill to the proposed new depth of 4950 feet, condition the hole, and prepare to install the new 5 ½" casing to 4250 feet. The borehole will remain open from approximately 4250 to 4950 feet (TD). The casing will include a corrosion-resistant alloy section from approximately 4190 to 4210 feet, to receive the new packer at approximately 4205 feet.

The 5 ½" casing will be cemented to the surface in a two-stage process, using Halliburton CorrosaCem – TL, designed for acidic environments. Following a minimum of 24 hours for the cement to set, the casing will be pressure tested at 1500 psi to the diverter valve (at approximately 4000 feet). After verification, the diverter valve will be drilled out, and the lower cement drilled out to above the shoe joint (at approximately 4250 feet) and again pressure tested at 1500 psi.

After final verification, the remaining cement and the float collar will be drilled out, and the well will be circulated and cleaned out to total depth with 10 % acetic acid. A final check will include running Cement Bond Logs (CBL) from the bottom of the 5 ½" to the surface. If the cement job passes, the

Halliburton Incoly 725 permanent packer will be installed at approximately 4205 feet, and connected with 2 7/8" fiberglass-lined tubing. A subsurface safety valve will also be installed at a depth of approximately 250 feet, with controls at the surface.

Finally, the BOP will be removed and the corrosion-resistant "Christmas tree" valve assembly will be attached to the well head (Appendix B). The final completion documentation (C-105s) and sundry notices and associated documentation (C-103s) will be provided to NMOCD as required for review and approval. After NMOCD approval, the well will be connected to the surface compression equipment and begin operation.

3.3 SURFACE EQUIPMENT

Figure 4 is a schematic diagram of the equipment used to collect, compress and mix the injection fluids. Treated acid gas (TAG) delivered from the pipeline from the Middle Eunice Gas Plant will be fed to a compressor, that will raise the pressure to approximately 1480 psi and cool the TAG to approximately 100° - 135° F. The TAG will then flow to a mixing chamber where it will combine with the wastewater stream. Prior to being conveyed to the well head, a pressure control system will assure that the final pressure does not exceed the approved maximum injection pressure of 1292 psi.

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4.0 REGIONAL AND LOCAL GEOLOGY AND HYDROGEOLOGY

4.1 GENERAL GEOLOGIC SETTING

The overall regional model (Figure 5) shows that the South Eunice plant is located on the northwestern corner of the Central Basin Platform of the Permian Basin. In this geological setting, lower to upper Permian strata lie upon a truncated lower Paleozoic surface. Truncation of the older beds by erosion occurred during the emergence of the Central Basin Platform as a structural entity. This emergence took place along a series of down-to-basin faults to all sides of the Platform. Beneath the study area, lower Permian Abo carbonates sit directly upon Devonian (Woodford) and older beds. The lower Paleozoic beds are at depths averaging about 7400-7600 feet and deeper below the surface in the vicinity of the plant. This portion of Lea County has had oil and gas production dating back to the 1930s, and has and is still producing from a variety of formations, including the Abo, Blinebry/Tubb/Drinkard, Queen and Seven Rivers.

A map of all wells within the one mile area of review (Figure 6) shows that the Seven Rivers-Queen (Langlie-Mattix) interval is the primary and major significant oil-producing zone, but some production to the northeast has been established in the underlying Yeso intervals, as well as in deeper (Blinebry/Tubb/Drinkard) zones. The closest of these wells are two wells located at approximately ½ mile from the proposed AGI/SWD (Santa Rita 002 and Santa Rita 012). Some Langlie-Mattix wells in this area have been plugged and either no longer produce, or have been converted to water injection (for secondary recovery projects in the Queen) or disposal wells.

Wells that produce from the lower Paleozoic zones (Figure 7) are concentrated approximately one mile to the northeast of the proposed AGI/SWD. These deeper zones are not feasible for a possible AGI, due to their established production in the vicinity of the Targa plant. For these reasons, we eliminated the sub San Andres zones from consideration, and focused on the San Andres, which is non-productive in this part of the study area, and which provides the best porosity section. The remaining discussion focuses on the San Andres as the selected formation for acid gas injection at this site

4.2 DETAILED SITE GEOLOGY

Figure 8 is a cross-section that illustrates the structure and stratigraphy in the study area. All of the units of interest in this area are very uniform in thickness, have very gentle dips, and there is no evidence of faults, folds or other structures in this area. The primary producing zones in the area are the Queen-Seven Rivers (Langlie-Mattix) and Glorieta-Yeso (Blinebry), as well as underlying Abo horizons to the west (not shown here). The cross-section incorporates wells in the study area that were perforated in the San Andres either for production or salt water disposal. Most of the wells in the study area that tested the San Andres are now plugged, but three wells continue to be used for water disposal purposes. These wells (shown in Figure 7) include the A.L. Christmas 001, the Christmas 003, and the existing Targa SWD #1 (also shown on the cross-section, Figure 8).

The San Andres in the study area is composed of approximately 1000 feet of dolomitic carbonate that was deposited in shallow water environments. These carbonates are very porous in the study area, and porosity is primarily filled with saline formation water.

Porosity is present throughout the San Andres Formation, and is particularly persistent in the upper half, although the lower half of the formation is more porous just east of the plant. Most of this porosity is/was

water-filled, and the upper half of the formation has been used for produced water disposal. The Eunice GP SWD #1, on the plant site, is used for disposal of produced water and remediation system water.

Figure 9 shows the porosity trends in the San Andres, superimposed on the well base map. We used calibrated porosity logs (e.g., density-neutron, sidewall neutron, density, sonic) where available. Contours were drawn assuming a N10W strike, which approximates regional depositional and diagenetic (porosity-forming) trends for this area.

This analysis shows pronounced porosity development along a north-trending fairway within and just east of the plant site, and extending in both directions through and beyond the study area. The pronounced porosity trend reflects the influence of persistent porosity development in both the upper and lower San Andres.

In their evaluation of the original C-108 for the Targa AGI, NMOCD notes (in Order R-12809) that:

"Division records show that the Eunice Gas Plant SWD well No. 1 (API 30-025-26947) was drilled for the purpose of injection and was permitted (prior to the well's completion) on September 21, 1961 for injection into an open hole within the upper San Andres Formation from approximately 3935 to 4000 feet (SW-29). The well was actually completed as an open hole injection well from 4010 to 4550 feet. Injection records indicate that the well has a very high capacity to take water, and the operator was still reporting substantial injection volumes as of June 2007. In 1983 a pump-in injection test reached a rate of 10 barrels per minute at a bottom hole pressure of 3000 psi without showing any apparent evidence of fracturing."

The San Andres is the best formation in the area that has enough net "pay" section and continuity to easily accept the expected AGI volumes and will only affect a small area. The proposed well would be ideally situated to take optimum advantage of the porosity section present in the San Andres and is nearby the existing well on the plant site.

4.3 LITHOLOGIC AND RESERVOIR CHARACTERISTICS OF THE SAN ANDRES

As seen in Figure 9, and using analysis of logs from an adjacent well (Figure 10), it is apparent that there is approximately 700 feet of porous San Andres in the proposed injection interval. Based on a conservative average porosity of 10-11%, we calculate that at least 70 feet of net porosity will be available for injection. This is based on interpretations of porosity logs in various adjacent San Andres wells and the porosity characteristics of the mixed dolomites and limestones that comprise the proposed injection zone.

Review of the injection history of two existing SWD wells completed in the San Andres, within one mile of the Targa AGI, shows that the Christmas 003 well has received approximately 375,000 barrels of water from 2007 through 2009, and the A. L. Christmas 001 has received approximately 96,000 barrels over the same period. This performance shows that the San Andres has good injectability in this area.

We have analyzed the expected "footprint" of the injected fluid from the AGI/SWD well over the anticipated injection period of approximately 30 years. These analyses focus on the displacement of existing formation fluid. While it is clear that at the displacement front there will be interaction between the injected gas/water mixture with the formation fluid, this chemical diffusion is significantly slower than the dominant advective movement of the combined acid gas and water stream which is injected into the AGI/SWD well. The radius of the reservoir affected by this volume of injection over the entire 30

Page 9

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trend and a shortening perpendicular to the trend. Dased on the variability of the potosity shown in

years of injection is approximately 0.254 miles, which lies well inside the $\frac{1}{2}$ mile radius of the proposed AGI/SWD well. The calculations of the area and the volume of the reservoir to be impacted by the 30-year period of injection are based on the assumptions that:

- If, in the most simple case, the distribution of the porosity in the reservoir is essentially homogeneous and isotropic, i.e, there are no preferential locations or directions in the reservoir, then the injected fluids will migrate smoothly and symmetrically as a circle from the injection zone (Figure 11),
- Since porosity trends in the injection zone of the San Andres in this area are well-documented (Figure 9) the preferential elongation of the injection plume along these trends will occur and can be simulated by extending the radius of influence along this trend and shortening it perpendicular to the trend (as shown in Figure 12). Therefore, this migration trend will most likely cover an ellipse with essentially the same volume of formation fluid displacement as the circle,
- The upper seal (lower Grayburg) and lower seal (lower evaporitic facies of the San Andres) are
 effectively impermeable at the distances and time scale of the injection process, and that there are
 no known faults or fractures or evidence to indicate that these seal rocks are in any way
 compromised,
- The injected fluid will largely effectively displace formation fluids, and that the mixing zone between the injection fluid and the formation fluids will be relatively limited in size, and
- Any chemical reactions between the acidic injection fluids and the carbonate rocks of the
 reservoir will further result in an overall smaller area of impact due to increased porosity over
 time due to the effect of dissolution.

These analyses begin by determining the amount of injection fluid to be introduced in the formation over the life of the project. We begin with the maximum expected fluid at the surface (4075 BBLS/Day) and then calculate the equilibrium volume in the reservoir (Table 1) to be 5543 BBLS/Day. The 30-year total volume is then calculated as:

 $(5543 \text{ BBLS/Day}) \times (5.61 \text{ cu. ft./BBL}) \times (365.25 \text{ days/year}) \times (30 \text{ years}) = 396,044,484 \text{ cubic feet}$

The net porosity is calculated from the known thickness of the injection zone (700 feet) and the average porosity of that zone (10%) (see Figure 10):

 $(4950'-4250') = 700' \times 0.10 = 70$ feet net porosity

The net area consumed is then calculated by dividing the total volume from the net porosity:

(396,044,484 cubic feet)/(70 feet net porosity) = 5,657,778 square feet

The net area in acres is calculated by the net area by the area of an acre:

(5,657,778 square feet)/(43560 square feet/Acre) = 130 Acres

Finally, the radius of the expected area is calculated by assuming that the impacted area is circular, and the radius is calculated as:

Radius = Square Root $(5,657,778 \text{ square feet/}\pi) = 1,342 \text{ feet} = 0.254 \text{ mile}$

The effect of the porosity trend results in an extension of the affected area of the reservoir parallel to the trend and a shortening perpendicular to the trend. Based on the variability of the porosity shown in

Figure 9, the calculated volume of affected reservoir and area are modified in approximately with a 2:1 ratio (Figure 12).

Figure 11 shows the area of injection in the highest volume (4,075 barrels per day) calculated in the area summary. Based on the 30-year total injection volume, the radius of influence is approximately 0.254 mile, covering approximately 130 acres.

Figure 12 shows the same calculated injection area, extended and orientated to follow the porosity trend shown in Figure 9. This illustrates that the injected fluid is expected to follow the northwest-southeast porosity trend, restricting the affected San Andres to areas even further away from the deeper production (and San Andres-penetrating wells) to the northeast of the AGI/SWD well location. As seen in Figure 7, the nearest wells penetrating the San Andres are Santa Rita 002 and Santa Rita 012, to the northeast of the AGI. Even after 30 years of operation at the maximum permitted rate, the area affected by injection is not likely to reach the cased San Andres interval of these wells with either the radial or even more so with the preferential porosity model (Figures 11 and 12).

| Summary of Calculations of Reservoir Areas Affected by Injection | | | |
|--|-------------|--|--|
| Barrels per Day at Wellhead | 4,075 | | |
| Barrels per Day in Reservoir | 5,543 | | |
| Cubic Feet/Day (5.61 Cubic Feet per Barrel) | 36,144 | | |
| Cubic Feet/Year (365.24 Days) | 13,201,235 | | |
| Cubic Feet in 30 Years | 396,044,484 | | |
| Effective Porosity in Feet = 70 feet | 70 | | |
| Net Area Consumed (Sq. Ft.) | 5,657,778 | | |
| Net Area in Acres (43560 Sq. Ft./Acre) | 130 | | |
| | | | |
| Radius in feet (R = Square Root of (Area/pi) | 1,342 | | |
| Radius in Miles | 0.254 | | |

4.4 FORMATION FLUID CHEMISTRY

Although there are no published formation fluid analyses for wells in the immediate area of the Targa AGI, a study by the Texas Water Development Board (Robert E. Mace, et. al, Report 366, April 2006) shows that fluids in the San Andres exhibit total dissolved solids ranging from 10,000 mg/l to 400,000 mg/l, with an average value of 82,000 mg/l. Values of pH range from 6 to 9, and the waters' constituents are primarily sodium and chloride.

4.5 GROUNDWATER HYDROLOGY IN THE VICINITY OF THE PROPOSED INJECTION WELL

The New Mexico State Engineer's Office lists 22 water wells within one mile of the Targa AGI. These wells are listed in Table 2, and their locations are shown in Figure 13. Available groundwater analyses are included in Table 3. All of these wells are shallow, and completed in the surficial alluvium at depths of less than 200 feet. Furthermore, the SWD well's 300' of surface casing cemented to the surface is fully protective of this shallow groundwater resource. There is no potential for impacts from the proposed injection in the San Andres, over 4500 feet below surface. There are no natural bodies of surface water within one mile of the AGI well site.

5.0 OIL AND GAS WELLS IN THE TARGA AGI/SWD #1 AREA OF REVIEW AND VICINITY

A total of 119 wells are reported within one mile of the proposed Targa AGI/SWD #1 (Figure 6, Table 4). As summarized below, 33 are plugged and abandoned and 86 are active (either as producers, injection wells, or monitoring wells). The majority of the area wells (89) are completed in the Langlie-Mattix zone, well above the San Andres, and 22 wells are completed in the deeper Drinkard/Abo/Blinebry and Silurian zones. Five wells were completed in the salt zone, of which 4 (now properly plugged and abandoned by Targa pursuant to NMOCD's request in 2007) were used for gas storage. The remaining salt zone well is used as a monitoring well for water levels in the salt zone. Three wells are completed in the San Andres. These include the existing Targa SWD well which is scheduled to be recompleted as a combined AGI and SWD well, and two other SWD wells, located from 0.8 to 0.86 miles from the AGI.

| Summary of Wells in One Mile of Targa AGI | | | |
|---|---------|-----------------------|-----|
| Formation | Plugged | d Active TOTAL | |
| Salt | 4 | 1 | 5 |
| Langlie-Mattix | 22 | 67 | 89 |
| San Andres | 0 | 3 | 3 |
| Drinkard/Blinebry/Abo/Silurian | 7 | 15 | 22 |
| TOTAL | 33 | 86 | 119 |

5.1 ACTIVE OIL AND GAS WELLS

Information on the wells in the one mile area of review (see Table 4) includes their total depth, production or injection interval and current status. Only two of the wells completed in the Wantz/Abo zone in the half-mile radius penetrate the proposed injection zone (Figure 7). There is no potential impact on these wells from the proposed Targa AGI well, as the production casing of these Wantz/Abo wells extend and are cemented through the proposed injection zone (see Figures 11 and 12).

NMOCD has raised questions regarding the potential for migration from the injection activities in the San Andres through a currently active well, the Legacy Resources Operating LC Langlie-Mattix Penrose Sand Unit 25-002 (3002410499). This well was originally drilled to a total depth of 4066 feet (into the upper San Andres) in 1937. At that time, water flow was observed and the well was plugged back to 3692 feet with gravel, 10 sacks of cement, and 600 pounds of lead wool. This plugging operation was reported as successful in stopping the water flow.

After producing for 27 years, the well was shut in 1964 pending proposed reuse as a waterflood well. Pursuant to NMOCD Order WFX No. 333 of January 23, 1970, this well was approved for waterflood operations. The well is currently operated as an injection well in the Langlie-Mattix zone, receiving approximately 40,000 barrels of water in 2009.

Following discussions with NMOCD, and contingent on final approval from Legacy, Targa proposes to re-enter the well, drill out the approximately 375 feet of original plugging (3692' to 4066') and plug that zone in accordance with current plugging practices, in a manner that preserves the well's utility as an

injection well in Legacy's waterflood program. The existing configuration of the well, and the proposed recompletion, are included in Figures 14a and 14b. Prior to any subsurface activities, the specific means and materials proposed for the plugging will be submitted to NMOCD in a Form C-103 for approval, and a subsequent Form C-103 will be provided following the work documenting the implementation and testing of the work.

5.2 PLUGGED OIL AND GAS WELLS

As seen in Table 4 and Figure 6, there are only 8 plugged wells within one half mile of the Targa AGI/SWD well. Four of these wells were former gas storage wells in the salt, and the other 4 were completed in the Langlie-Mattix zone, above the proposed injection zone in the San Andres. The plugging records of these wells are included in Appendix B, along with schematic plugging diagrams for all plugged wells within one mile that penetrate the San Andres.

There is no indication that any of these plugged wells can compromise the seal in the Grayburg Formation that separates and isolates the Langlie-Mattix zone from the proposed injection in the San Andres Formation.

6.0 IDENTIFICATION AND REQUIRED NOTIFICATION OF OPERATORS SUBSURFACE LESSEES AND SURFACE OWNERS WITHIN THE AREA OF REVIEW

Geolex contracted with MBF Land Services (MBF) of Roswell, New Mexico to assist in the research of land records in Lea County to obtain a listing of all operators, oil, gas and mineral lessees, surface owners, and residents/facilities within a one-mile radius of the proposed AGI well. In addition, MBF and Geolex have reviewed the notice requirements specifically transmitted by Gail M. Macquesten and Will Jones of NMOCD on October 19, 2010 to Targa and their attorneys and have identified all of the parties requiring notice herein. Appendix D includes the results of that work.

Appendix D includes Figure D-1 which shows the land owners located within the one-mile area of review of the proposed Targa AGI/SWD well. Table D-1, Appendix D, lists the names and addresses of all operators within this one-mile radius, and Table D-2, Appendix D, lists the names and addresses of unit operators and subsurface lessees within the same one mile area of review. Most of the leases in the area are unitized and, therefore, the unit operators that control the leases are listed and will be notified of the application and hearing (Table D-3, Appendix D). Appendix D also includes Table D-2 which lists the names and addresses of surface owners of record in the area of review, as extracted from the Lea County land records. Tables D-4 and D-5, Appendix D are a list of all the other interested parties that NMOCD directed should receive notice, including all residences or businesses having facilities within the 1-mile area of review, the town of Eunice, N.M. State Land Office, U.S. BLM, and any other municipalities within 5 miles.

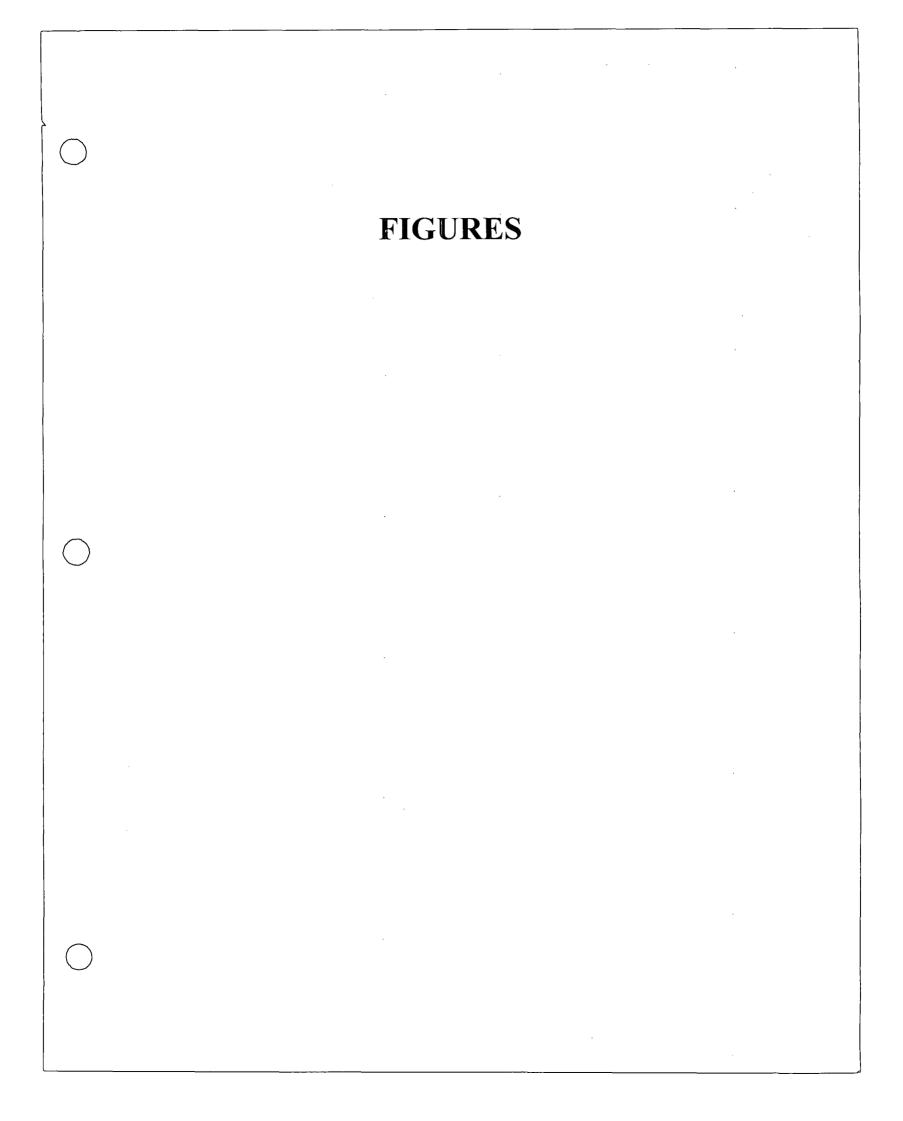
All of these noticed entities will be provided notice and an opportunity to review this application at least 30 days prior to the OCD Hearing, according to the requirements set forth in OCD's transmittal of October 19, 2010. Copies of the notice letters to parties individually noticed from Tables D-1, D-2, D-3, D-4, and D-5 and the Certified Mail receipts are also included in Appendix D. A copy of Return Receipt cards from these notifications will be provided as an exhibit at the hearing on this case in December 2010. A draft copy of this notice is included in Appendix D. A copy of the proposed public notice that will be published in the Hobbs Daily News-Sun at least 20 days prior to NMOCD Hearing is also included in Appendix D.

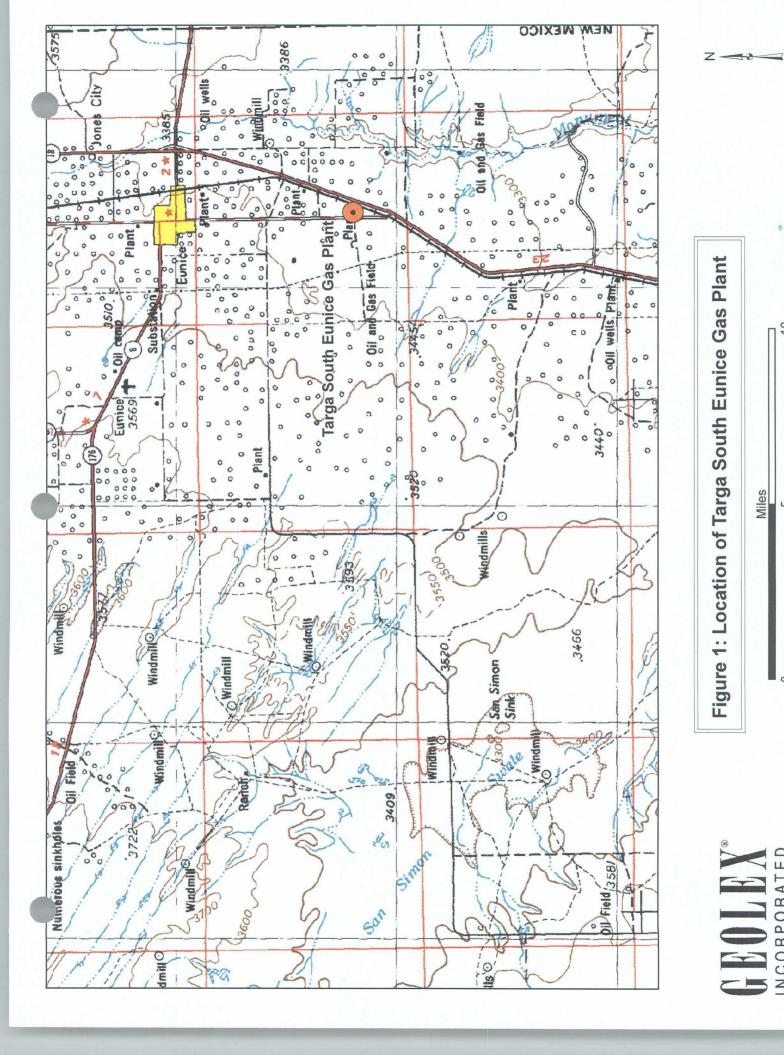
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7.0 AFFIRMATIVE STATEMENT OF LACK OF HYDRAULIC CONNECTION BETWEEN PROPOSED INJECTION ZONE AND KNOWN SOURCES OF DRINKING WATER

As part of the work performed to support this application, a detailed investigation of the structure, stratigraphy and hydrogeology of the area surrounding the proposed Targa AGI/SWD well has been performed. The investigation included the analysis of available geologic data and hydrogeologic data from wells and literature identified in Sections 3, 4 and 5 above including related appendices. Based on this investigation and analyses of these data, it is clear that there are no open fractures, faults or other structures which could potentially result in the communication of proposed injection zone with any known sources of drinking water in the vicinity as described above in Sections 4 and 5 of this application.

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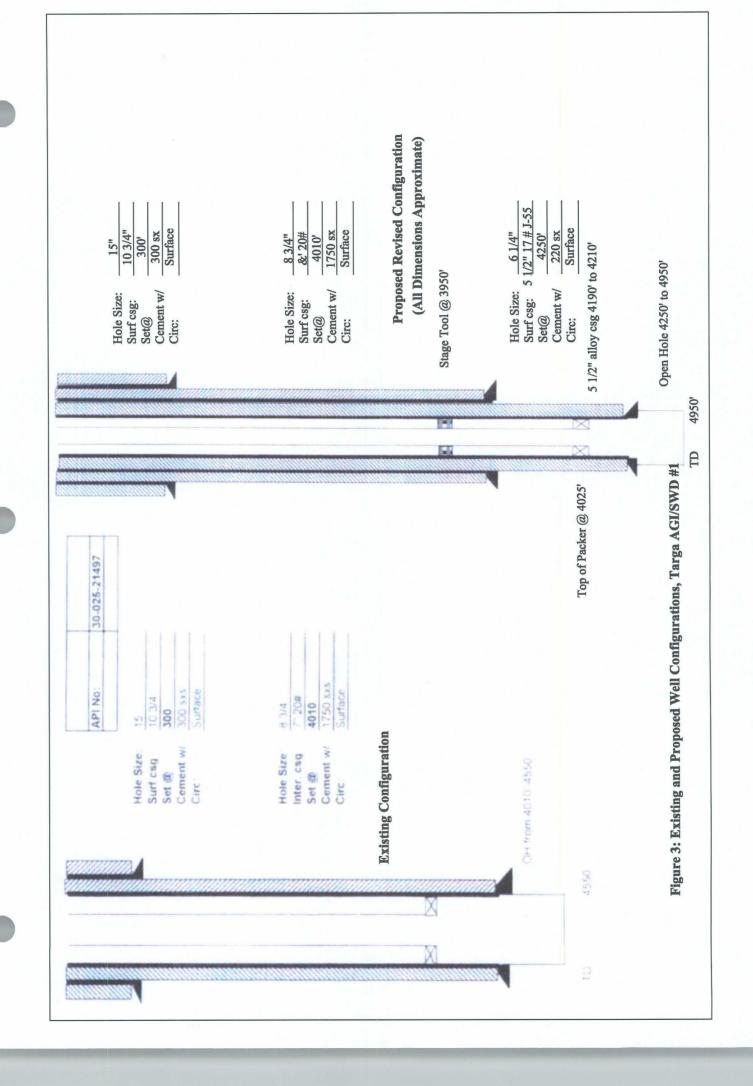
Plant Gas Eunice Figure 1: Location of Targa South





| AGE | | STRATIGRAPHIC UNIT | | | | |
|------------------------|----------------------|--|---|---|---|--|
| S S S S DELAWARE BASIN | | | CENTRAL BASIN PLATFORM | MIDLAND BASIN | EASTERN SHELF | |
| R SCRETACEOUSST Q | Upper Coman- Cultian | Fredericksburg Trinity Ss. Santa Rosa | Alluvium Ogaliala Fredericksburg Trinity Ss. Dockum | Alluvium Ogaliala Washita Washita Fredericksburg Trinity Ss. Dockum | Alluvium Ogallala Washita Fredericksburg Trinity Ss. Dockum | |
| | Ochoan | Pustler Salado Castile | Dewey Lake Rustler Salado Castile | Dewey Lake Rustler Salado | Rustler Salado | |
| | Guadalupian | Spell Canyon | Tansill Yates Seven Rivers Queen Grayburg | Tansill Yates Seven Rivers Queen Grayburg | Tansill Yates Seven Rivers Queen Grayburg | |
| PERMIAN | Guada | Bell Canyon O DEW NEW NEW NEW NEW NEW NEW NEW NEW NEW N | San Andres | San Andres | San Andres | |
| | ian | | Clear Fork Tubb | Spraberry Dean | Clear Fork | |
| | Bone Spring | | Wichita | Leonard 5 | Wichita | |
| | Wolf. | Wolfcamp | Wolfcamp | Thin to absent | Wolfcamp | |
| | Cisco | Cisco | Cisco | Canyon Canyon Horseshoe Atoll | Cisco | |
| NEW | Canyon | Canyon | Canyon | Canyon & | Canyon | |
| PENNSYLVANIAN | Strawn | Strawn | Strawn | Strawn | Strawn | |
| - | Atokan | Atoka | Atoka | Atoka | Atoka Bend | |
| · | AN TOW- | Mississippian | Mississip- | Mississippian Ls. | Mississippian Ls. | |
| MISSISSIP | 4 | Kinderhook Woodford Shale | pian | Kinderhook Woodford Shale | Lower | |
| Devonian | | Devonian | Devonian | Devonian | Woodford Sh.\ | |
| S | | Upper Silurian Sh. Fusselman | U. Silurian Sh. Fusselman | Upper Silurian Sh. Fusselman | U. Silurian Sh. Fusselman | |
| ORDOVICIAN | D W | Montoya Simpson Group | Montoya Simpson Group Ellenburger | Sylvan Sh Montoya Simpson Group | Ellenburger | |
| φ ^^ | ⊃ € | | | Wilberns | Wilberns Hickory | |

Figure 2. General stratigraphy in the Permian Basin (modified from M.M. Ball, 1995).



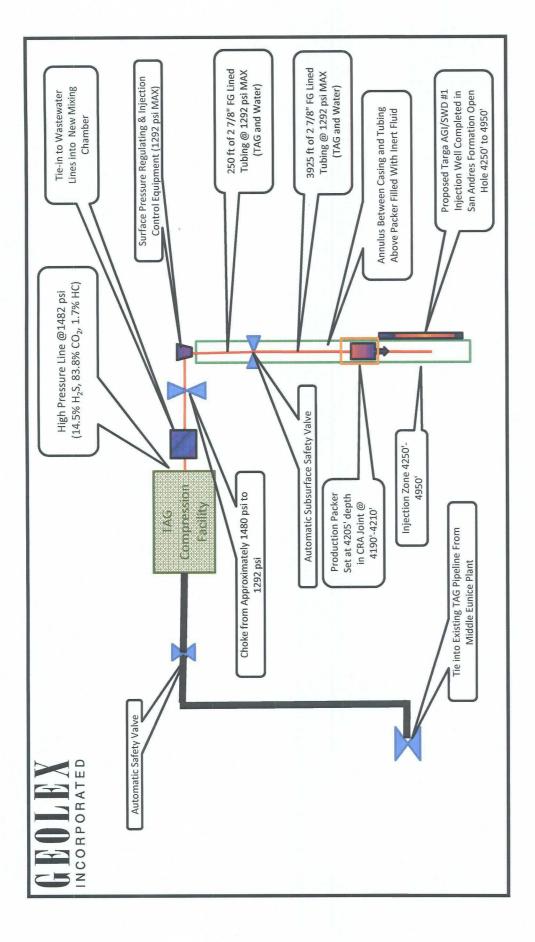
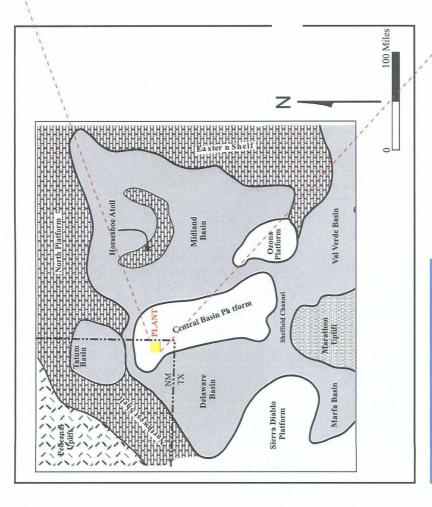
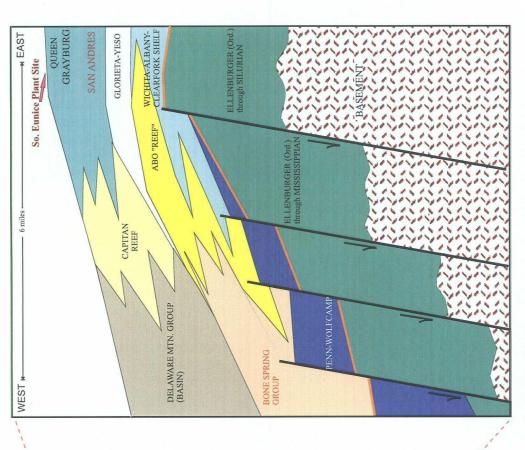


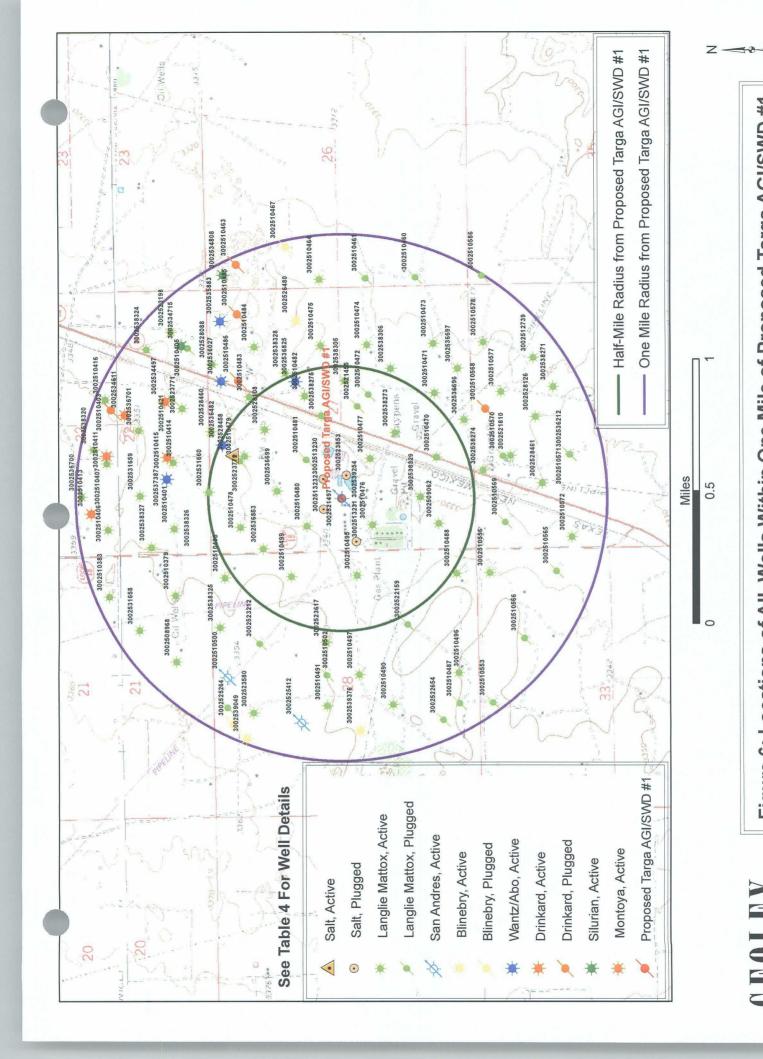
Figure 4: Schematic of Targa AGI/SWD #1 Injection System Components



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TARGA MIDSTREAM SERVICES, L.P. PROPOSED TARGA AGI/SWD #1 WELL Lea County, New Mexico Regional Setting of South Eunice Plant and General Stratigraphy of the Northwest Side of the Central Basin Platform CLEVT: Targa Midstream Services, LP DATE: 11/1/2010





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Figure 6: Locations of All Wells Within One Mile of Proposed Targa AGI/SWD #1

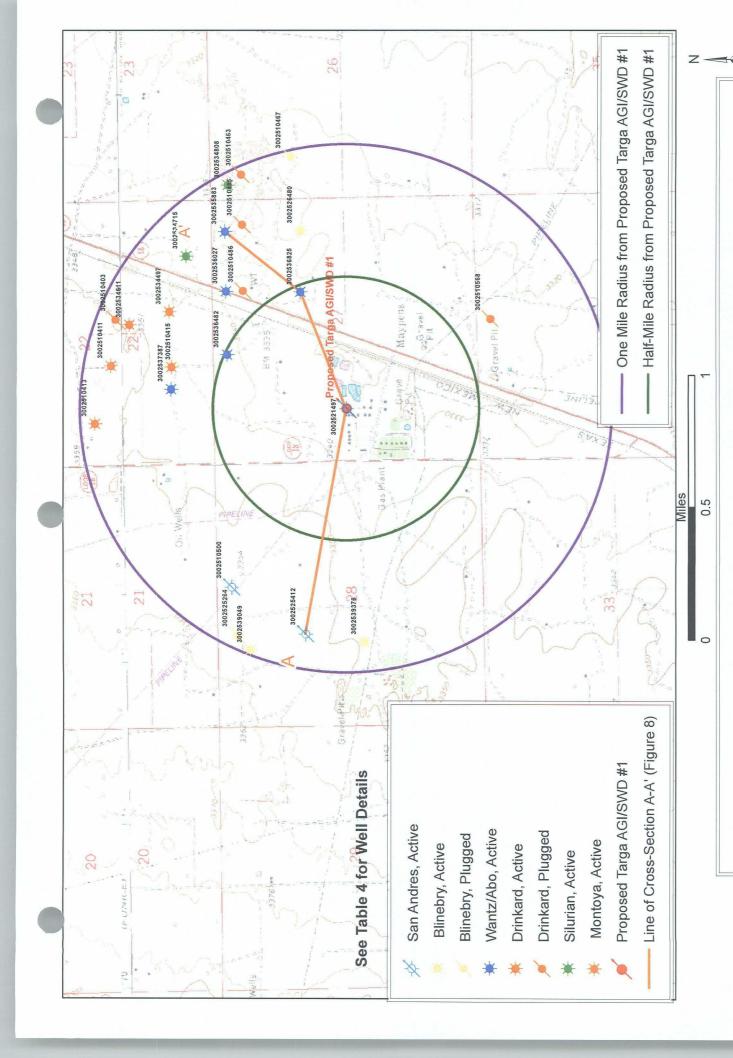


Figure 7: Location of all Wells Penetrating the San Andres Within One Mile of Proposed Targa AGI/SWD #1, Showing Line of Cross-Section A-A'

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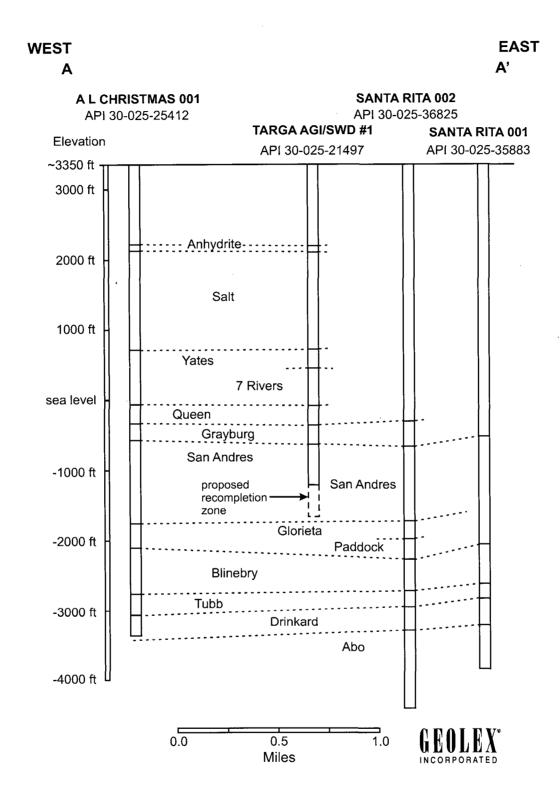
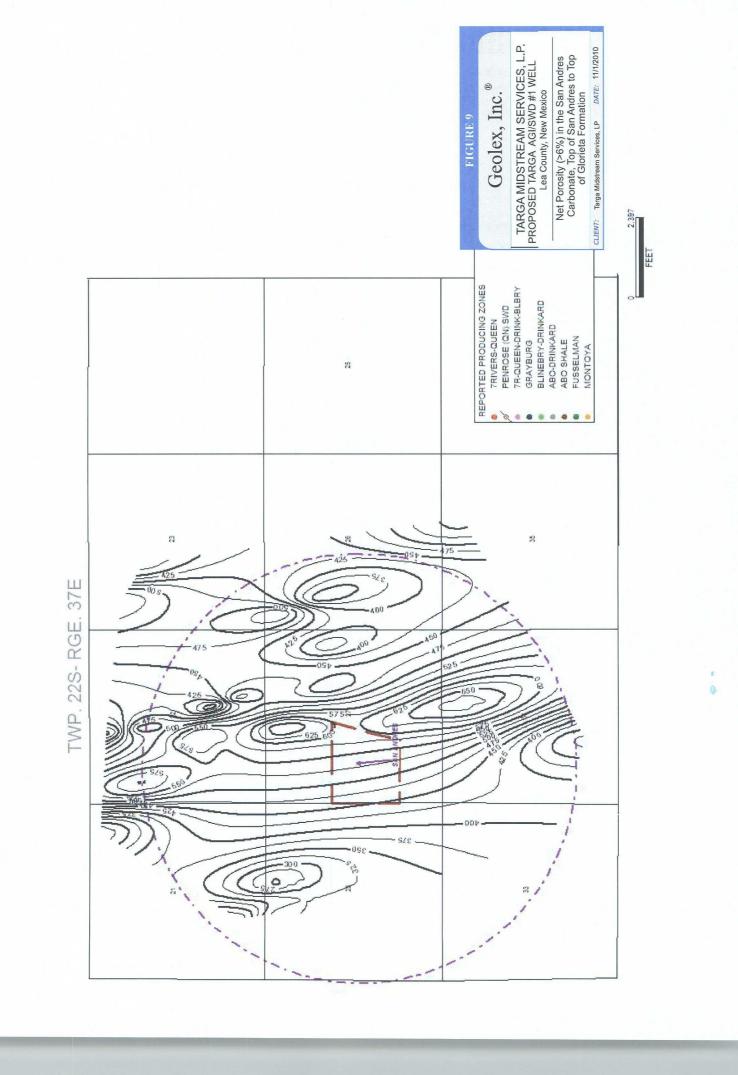


Figure 8. General cross-section through the area of Targa AGI/SWD #1. See Figure 7 for cross-section location.



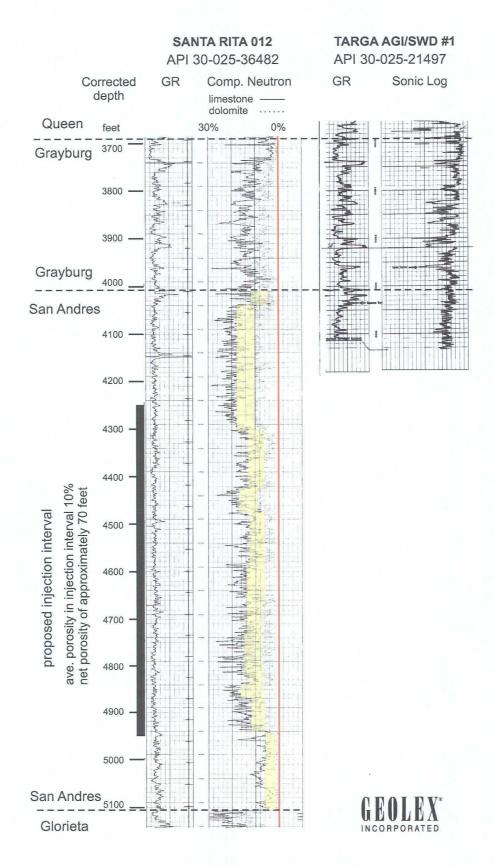
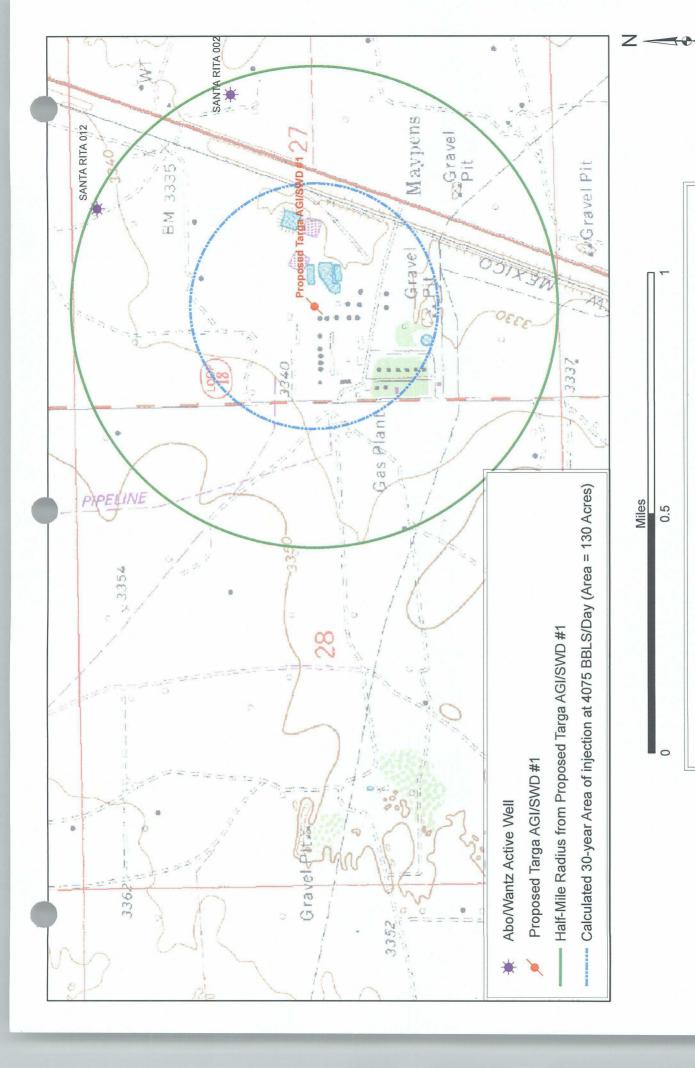


Figure 10. Well logs showing porosity in vicinity of proposed Targa AGI/SWD #1. See Figure 7 for location.

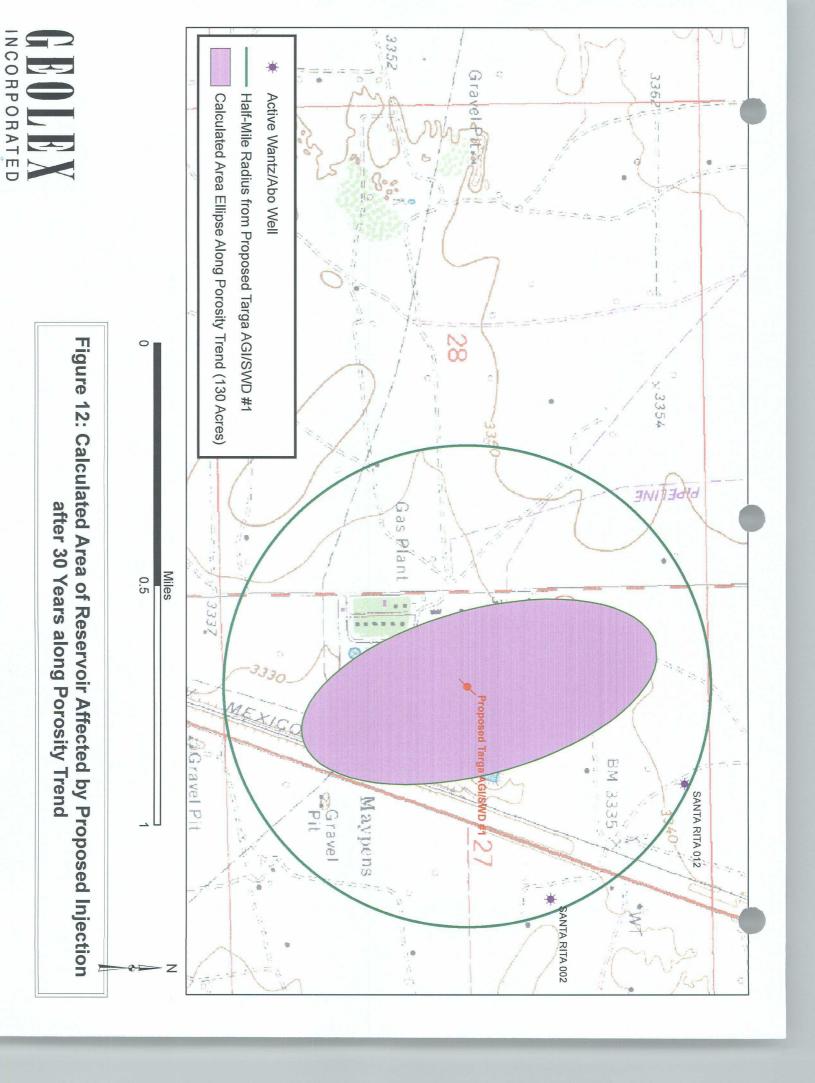






0.5





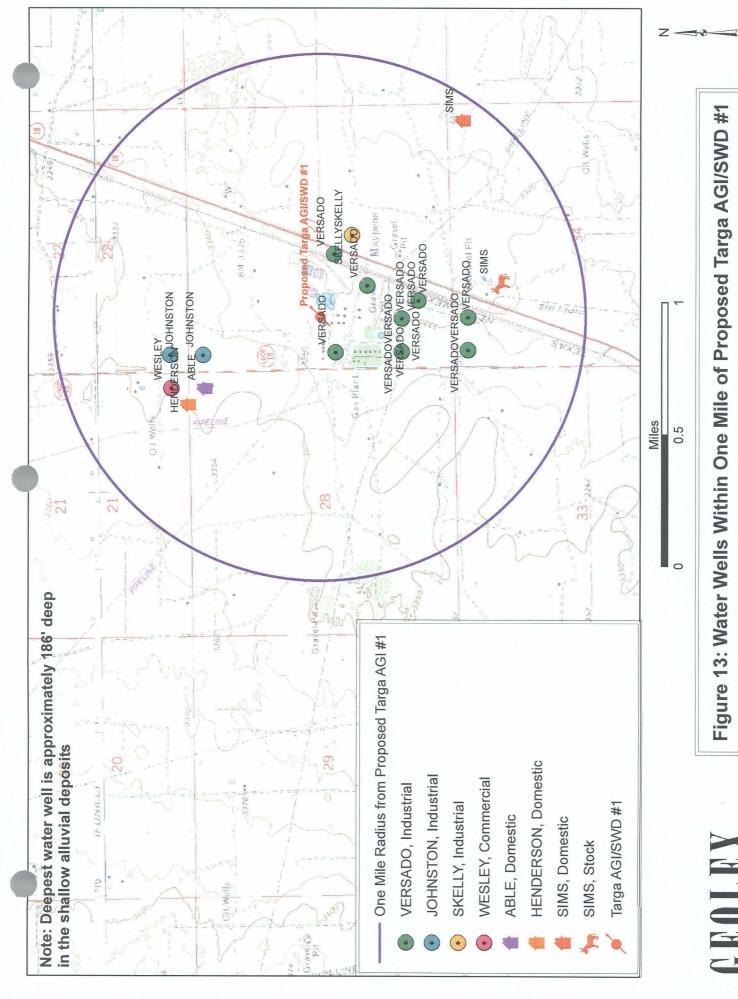


Figure 13: Water Wells Within One Mile of Proposed Targa AGI/SWD #1

CE BOLEN

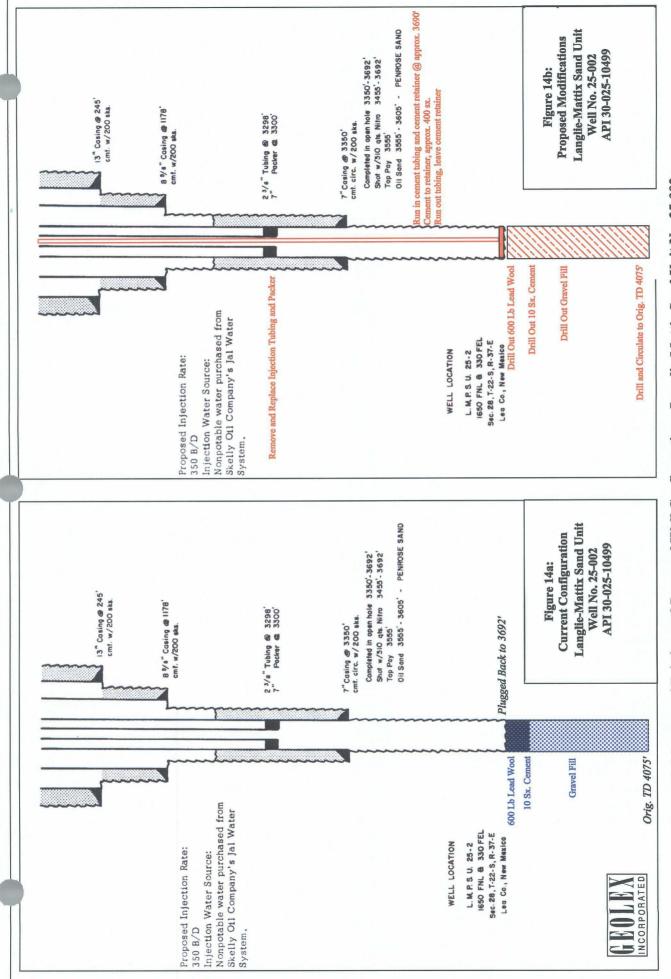


Figure 14: Diagrams of Existing and Proposed Well Configurations, Langlie-Mattix Sand Unit No. 25-002

TABLES

Table 1: Pressure and Volume Calculations for TAG مسط Wastewater, Targa AGI/SWD #001

PROPOSED INJECTION STREAM CHARACTERISTICS

| TAG | H ₂ S | CO ₂ | H ₂ S | CO ₂ | TAG | We | Naste Water (WW) | /w) | Mixed TAG + WW | G + WW |
|---------|------------------|-----------------|------------------|-------------------------|-------------|-------------------------|------------------|-------------|----------------------|-------------|
| Gas vol | conc. | conc. | inject rate | inject rate inject rate | inject rate | inject rate inject rate | Density | inject rate | comp | inject rate |
| MMSCFD | % lom | % lom | lb/day | lb/day | lb/day | bbl/day | kg/m³ | lb/day | TAG:H ₂ O | lb/day |
| | 145 | 858 | 68819 | 513595 | 582414 | 1575 | 1010 | 552018 | 31.69 | 1134432 |

CONDITIONS AT WELL HEAD

| Well Head Conditions TAG TAG WW Niii Temp Pressure Gas vol Comp Inject Rate Density ¹ SG ² density volume volume volume volume volume volume bbl bbl | | | | | | | | | | • | | | |
|--|-----------|--------------|---------|-----------------------------------|-------------|--------|-----------------|---------|--------|--------|--------|--------|----------|
| Pressure Gas vol Comp Inject Rate Density ¹ SG^2 density volume volume volume volume volume bbl psi $MMSCFD$ $CO_2:H_2S$ lb/day kg/m^3 lb/gal lb/gal tt^3 bbl bbl bbl bbl 1482 $S 84:15$ $S82414$ 664.29 0.66 $S.55$ 14037 2500 1575 | Well Head | d Conditions | | | | AT. | i G | | | | ww. | M | Mixed |
| psi MMSCFD CO ₂ :H ₂ S lb/day kg/m³ lb/gal ft³ bbl bbl bbl 1482 5 84:15 582414 664.29 0.66 5.55 14037 2500 1575 4 | Temp | Pressure | Gas vol | Comp | Inject Rate | | SG ² | density | volume | volume | volume | volume | volume |
| 1482 5 84:15 582414 664.29 0.66 5.55 14037 2500 1575 | ц | isd | MMSCFD | CO ₂ :H ₂ S | lb/day | kg/m³ | | lb/gal | ft³ | lqq | ldd | lqq | bbl/30yr |
| | 100 | 1482 | 5 | 84:15 | 582414 | 664.29 | 99:0 | 5.55 | 14037 | 2500 | 1575 | 4075 | 44653661 |

CONDITIONS AT BOTTOM OF WELL

| | Injection | njection Zone Conditions | ons | | | | TAG | | | ww | Mi | Vixed |
|------|-----------------------|--------------------------|-------------|--------|----------|-----------------|---------|--------|--------|--------|--------|----------|
| Temp | Pressure ³ | Depth _{top} | Depthbottom | MW⁴ | Density¹ | SG ² | density | volume | volume | volume | volume | volume |
| F | psi | ft | ft | lb/gal | kg/m³ | | lb/gal | ft³ | ppl | lqq | ppl | bbl/30yr |
| 100 | 2439 | 4250 | 1 4950 | 10.2 | 815.26 | 0.82 | 6.81 | 22279 | 8968 | 1575 | 5543 | 60737941 |

CONDITIONS IN RESERVOIR AT EQUILIBRIUM

| Mixed | volume | bbl/30yr | 70538326 |
|------------------------------|-----------------------|----------|----------|
| Mix | volume | ldd | 6437 |
| ww | volume | ppl | 1575 |
| | volume | lqq | 4862 |
| | volume | ft³ | 27301 |
| TAG | density | lb/gal | 95.5 |
| | SG ² | | 19.0 |
| | Density ¹ | kg/m³ | 665.30 |
| | Porosity ⁶ | ft | 20 |
| tions | Depthbottom | ft | 4950 |
| Jection Reservoir Conditions | Depth _{top} | ft | 4250 |
| Injection Re | Pressure ³ | psi | 2439 |
| | Temp ⁵ | ш. | 135 |

CONSTANTS

| | SCF/mol | |
|----------------------------------|---------|--------|
| Molar volume at STD | 0.7915 | |
| | lom/g | lom/dl |
| Molar weight of H ₂ S | 34.0809 | 0.0751 |
| Molar weight of CO ₂ | 44.0096 | 0.0970 |
| Molar weight of H ₂ O | 18.015 | 0.0397 |

 IP_{max} = PG *Depth Where: SG $_{\text{bif}}$, SG $_{\text{ww}}$ and SG $_{\text{TAG}}$ are specific gravities of blended injection fluid, waste water, and

0.304 psi/ft

CALCULATION OF MAXIMUM INJECTION PRESSURE LIMITATION SG_{bif} = $(SG_{ww}^*Vol_{ww}+SG_{TAG}^*Vol_{TAG})/(Vol_{ww}+Vol_{TAG})$ 0.8 PG = 0.2 + 0.433 (1.04-SG_{bif}) 0.30

respectively; PG is calculated pressure gradient; and IP_{max} is calculated maximum injection TAG, respectively; Vol_{ww} and Vol_{TAG} are injected volumes of water and TAG in bbl/day,

CALCULATION OF 30 YEAR AREA OF INJECTION

| Cubic Feet/day (5.6146 ft³/bbl) | 36144 ft³/day |
|--|------------------------|
| Cubic Feet/30 years | 396044484 ft³/30 years |
| Area = $V/Net Porosity (ft)$ | 5657778 ft²/30 years |
| Area = $V/Net Porosity (ft) (43560 ft^2/acre)$ | 129.9 acres/30 years |
| Radius = | 1342 ft |

¹ Density calculated using AQUAlibrium software ² Specific gravity calculated assuming a constant density for

 $^{^{3}}$ PP = 0.433/8.33 * MW * Depth_{mid} = 2532 psi

 $^{^4}$ MW = est. drilling mud weight

⁶ Porosity is estimated using geophysical logs for API 30-025-36482 $^{\rm S}$ Reservoir temp. is estimated using geothermal gradient for Basin

| | | | IABLE 2. WAILN | از | | | | | | | /: S | | | |
|-----------|---------------|-----|----------------|-----|-----|------|-----|-----|----------|-------------|--------------|------------|------------|---------------------|
| Diversion | Owner | Use | POD Number | 1 | R | s al | шb | sb | UTM Zone | Easting (m) | Northing (m) | Date | Depth (ft) | Depth to Water (ft) |
| 48.39 | 48.39 VERSADO | IND | CP00006 | | 37E | 27 | 3 1 | . 4 | 13 | 673536 | 3581647 | 12/31/1936 | 85 | |
| 32.26 | 32.26 VERSADO | IND | CP00007 | 225 | 37E | 27 | 3 1 | 4 | 13 | 673536 | 3581647 | 12/31/1937 | 100 | |
| 24.2 | 24.2 SKELLY | IND | CP00008 | | 37E | 27 | | | 13 | 674048 | 3581950 | 5/1/1942 | 182 | |
| 40 | 40 VERSADO | QNI | CP00009 | 225 | 37E | 27 | 3 | | 13 | 673646 | 3581548 | 5/15/1942 | 150 | |
| | VERSADO | QNI | CP00009 | 225 | 37E | 27 | 1 4 | 4 | 13 | 673929 | 3582057 | 1/17/2002 | 06 | 52 |
| 16.13 | 16.13 SKELLY | QNI | CP00010 | 225 | 37E | 27 | | _ | 13 | 674048 | 3581950 | 4/4/1943 | 120 | |
| 0 | 0 SIMS | DOM | CP0141 DCL | 225 | 37E | 27 , | 4 | 4 | 13 | 674746 | 3581281 | | | |
| 0 | 0 VERSADO | IND | CP00231 | 225 | 37E | 27 | 3 1 | 3 | 13 | 673336 | 3581647 | 11/30/1937 | 180 | |
| | VERSADO | IND | CP00231 S | 225 | 37E | 27 | 1 4 | 4 | | | | 1/23/2006 | 97 | |
| 14 | 14 VERSADO | QNI | CP00232 | | 37E | 27 | 3 | 4 | 13 | 673536 | 3581647 | 12/31/1937 | 29 | |
| 0 | 0 VERSADO | IND | CP00233 | 1 | 37E | 27 | 3 | 1 4 | 13 | 673536 | 3581647 | 5/31/1941 | 182 | |
| | VERSADO | IND | CP00233 S | 225 | 37E | 27 | 3 2 | 1 | | | | | | |
| 0 | 0 VERSADO | IND | CP00234 | | 37E | 27 | 3 1 | 3 | 13 | 673336 | 3581647 | 4/30/1943 | 135 | |
| 40 | 40 VERSADO | IND | CP00243 | | 37E | 27 | 1 3 | 3 | 13 | 673329 | 3582048 | 6/30/1965 | 106 | |
| | VERSADO | QNI | CP00243 S | 225 | 37E | 27 | 3 2 | 1 | 13 | 673737 | 3581857 | 1/17/2002 | 06 | 54 |
| 0 | 0 VERSADO | QNI | CP00244 | 225 | 37E | 27 | 3 | 4 | 13 | 673544 | 3581246 | 4/30/1945 | 148 | |
| | VERSADO | IND | CP00244 S | 225 | 37E | 27 | 1 4 | 1 3 | | | | 1/23/2006 | 87 | |
| 32 | 32 VERSADO | IND | | | 37E | 27 | 3 3 | 3 | 13 | 673344 | 3581246 | 9/30/1961 | 100 | |
| 16 | 16 VERSADO | IND | CP00248 | 225 | 37E | 27 | 3 3 | 3 3 | 13 | 673344 | 3581246 | 12/31/1963 | | 111 |
| 0 | 0 JOHNSTON | STK | DCL | | 37E | 27 | 1 2 | 2 | 13 | | 673922 | 3582656 | | |
| 0 | CAPTITAN | PRO | , | 225 | 37E | . 92 | 2 1 | 1 2 | 13 | 675930 | 3582692 | 12/3/1968 | 66 | 9 |
| 115.6 | 115.6 WESLEY | COM | CP00081 | | 37E | 21 | 4 4 | 1 2 | 13 | 673112 | 3583042 | | 120 | , |
| 31 | JOHNSTON | IND | CP00256 | | 37E | 22 | 3 3 | 1 | 13 | 673313 | 3583049 | | 145 | |
| 32 | 32 JOHNSTON | IND | CP00257 | 225 | 37E | 22 | 3 3 | 3 3 | 13 | 673313 | 3582849 | | 135 | |
| 0 | 0 JOHNSTON | DOM | DOM CP00381 | 225 | 37E | 75 | 4 1 | 2 | 13 | | 674108 | 3583264 | | |
| 0 | 0 JOHNSTON | DOM | DOM CP00382 | 225 | 37E | 22 ' | 4 3 | 3 | 13 | | 674114 | 3582862 | | |
| 0 | 0 JOHNSTON | DOM | DOM CP00383 | 225 | 37E | 22 | 4 1 | . 3 | 13 | | 674108 | 3583264 | | |
| 3 | 3 HENDERSON | DOM | DOM CP00503 | | 37E | 21 | 4 4 | | 13 | 673013 | 3582943 | | | |
| 3 | 3 ABLE | Ŋ | CP00911 | | 37E | 21 4 | 4 4 | 1 4 | 13 | 673112 | 3582842 | | 150 | |
| 0 | SIMS | STK | CP00142 | 225 | 37E | 34 | 1 2 | 1 | 13 | 673753 | 3581053 | | | |
| 0 | SIMS | STK | | | 37E | 34 | 4 1 | . 1 | 13 | 674171 | 3580251 | | | |
| n | FERGUSON | STK | CP00561 | | 37E | 34 | 2 3 | 3 | 13 | 975579 | 3579631 | 3701/36/61 | 127 | 9 |

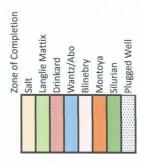
| | TABLE 3: | GROUNDWATE | R ANALYSES IN ST | TUDY AREA |
|-------------|--------------|-----------------|------------------|-----------------------------|
| Well Number | Date Drilled | Well Depth (ft) | Screen Interval | Depth to Water (ft) 4/13/06 |
| 2 | 11/8/2005 | 83.35 | 65.41-79.72 | 70.51 |
| Arsenic | Barium | Cadmium | Chromium | Lead |
| 0.0147 | 0.0339 | <0.000297 | 0.00458 | <0.000843 |
| Mercury | Selenium | Silver | Alkalinity | Chloride |
| 0.00006 | 0.0101 | <0.000754 | 163 | 142 |
| TDS | Sulfate | Calcium | Magnesium | Potassium |
| 756 | 214 | 60.1 | . 44.8 | 7.9 |
| Sodium | | | | |
| 113 | | | | |

Well located in Unit F, Sec. 22, T22S, R37E, Lea County, NM All analyses in mg/l

| | | | - | - | | ACT WELLS OF THE | | | Г | |
|---|--|------------|--------|---|------------|--|-------|-----------|----------------|----------------|
| API OF | OPERATOR | PLUGDATE | RNG TS | TSHP SEC | DEPTH | WELLNAME | TYPE | E STATUS | MilesFromTarga | Zone |
| 002521497 T | 3002521497 TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | na | 37E | 22.05 | 27 3962 | EUNICE GAS PLANT SWD 001 | S | Active | | San Andres |
| 3002513232 TP | TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 8/5/2008 | 37E | 22.05 | 27 2095 | J.V. BAKER (LPG-STORAGE) 001 | Σ | Plugged | 80:0 | Salt |
| 002523853 T | 3002523853 TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 7/2/2008 | 37E | 22.05 | 27 2075 | SKELLY GASOLINE PLANT 004 | Σ | plugged | 1 0:09 | Salt |
| 002513230 TA | 3002513230 TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 7/9/2008 | 37E | 22.05 | 27 2064 | J.V. BAKER (LPG-STORAGE) 003 | Σ | Plugged | 0:10 | Salt |
| 302510476 LE | 3002510476 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3665 | LANGLIE MATTIX PENROSE SAND UNIT 221 | 21 | Active | 0.15 | Langlie Mattox |
| 002510480 LE | 3002510480 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3610 | LANGLIE MATTIX PENROSE SAND UNIT 134 | 34 0 | Active | 0.17 | |
| 002513231 17 | 3002513231 TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 7/10/2008 | 37E | 22.05 | 27 2075 | 2075 J.V.BAKER (LPG-STORAGE) 002 | Σ | Plugged | 1 0.17 | Salt |
| 302510477 LE | 3002510477 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3640 | LANGLIE MATTIX PENROSE SAND UNIT 222 | 22 0 | Active | 0.19 | Langlie Mattox |
| 002510481 LE | 3002510481 LEGACY RESERVES OPERATING, LP | 7002/8/9 | 37E | 22.05 | 27 3620 | 3620 LANGLIE MATTIX PENROSE SAND UNIT 135 | 35 [| Plugged | 1 0.20 | Langlie Mattox |
| 002536699 LE | 3002536699 LEGACY RESERVES OPERATING, LP | na | 37E 22 | | 27 3790 | LANGLIE MATTIX PENROSE SAND UNIT 314 | 14 0 | Active | 0.24 | Langlie Mattox |
| 002510495 LE | 3002510495 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 28 3684 | LANGLIE MATTIX PENROSE SAND UNIT 241 | 41 0 | Active | 0:30 | Langlie Mattox |
| 002538329 LE | 3002538329 LEGACY RESERVES OPERATING, LP | na | 37E 22 | | 3835 | LANGLIE MATTIX PENROSE SAND UNIT 604 | 04 0 | Active | 0:30 | Langlie Mattox |
| 002538273 LE | 3002538273 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3818 | LANGLIE MATTIX PENROSE SAND UNIT 601 | 0 10 | Active | 0.32 | Langlie Mattox |
| 002538275 LE | 3002538275 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3825 | LANGLIE MATTIX PENROSE SAND UNIT 602 | 0 70 | Active | 0.32 | Langlie Mattox |
| 002536853 LE | 3002536853 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3805 | LANGLIE MATTIX PENROSE SAND UNIT 316 | 16 0 | Active | 0.35 | Langlie Mattox |
| 002510499 LE | 3002510499 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 28 4075 | LANGLIE MATTIX PENROSE SAND UNIT 252 | 52 | Active | 0.35 | Langlie Mattox |
| 002521455 A | 3002521455 ANADARKO PETROLEUM CORP | 8/30/1997 | 37E | 22.05 | 27 3692 | LANGLIE MATTIX PENROSE SAND UNIT 005 | 05 | paggn d | 3. 0.35 | Langlie Mattox |
| 002509062 LE | 3002509062 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3670 | LANGLIE MATTIX PENROSE SAND UNIT 211 | 11 0 | Active | 0.38 | Langlie Mattox |
| 002528108 LE | 3002528108 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3730 | LANGLIE MATTIX PENROSE SAND UNIT 310 | 10 0 | Active | 0.39 | Langlie Mattox |
| 002510470 LE | 3002510470 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3405 1 | LANGLIE MATTIX PENROSE SAND UNIT 212 | 12 | Active | 0.39 | Langlie Mattox |
| 02510478 LE | 3002510478 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3596 | LANGLIE MATTIX PENROSE SAND UNIT 132 | 32 | Active | 0.39 | Langlie Mattox |
| 02523772 LE | 3002523772 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3700 | 3700 LANGLIE MATTIX PENROSE SAND UNIT 139 | 39 0 | Active | 0.40 | Langlie Mattox |
| 02510472 A | 3002510472 ANADARKO PETROLEUM CORP | 7/28/1966 | 37E | 22.05 | 27 3676 | LANGLIE MATTIX PENROSE SAND UNIT 001 | 01 0 | Plugged | d 0.41 | |
| 02510479 A | 3002510479 ANADARKO PETROLEUM CORP | 8/17/1971 | 37E | 22:05 | 27 3600 | 3600 LANGLIE MATTIX PENROSE SAND UNIT 003 | 03 0. | Plugged | 5 0.41 | Langlie Mattox |
| 02510482 LE | 3002510482 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3610 | LANGLIE MATTIX PENROSE SAND UNIT 136 | | Active | 0.41 | Langlie Mattox |
| 02528458 AI | 3002528458 ANADARKO PETROLEUM CORP | na | 37E 22 | 22.05 | 27 2469 1 | LANGLIE MATTIX PENROSE SAND UNIT 001 | 01 M | Active | 0.44 | Salt |
| 02538305 LE | 3002538305 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 3825 | LANGLIE MATTIX PENROSE SAND UNIT 196 | | Active | 0.44 | |
| 02536825 BI | 3002536825 BURLESON PETROLEUM, INC | na | | | 7250 | SANTA RITA 002 | 0 | Active | 0.47 | Wantz/Abo |
| 02536482 BI | 3002536482 BURLESON PETROLEUM, INC | na | 37E 22 | 22.05 | 27 7200 8 | SANTA RITA 012 | 0 | Active | 0.49 | Wantz/Abo |
| 000000000000000000000000000000000000000 | | | | | | | | | | |
| 0253166U Lt | 3002531660 LEGACY RESERVES OPERATING, LP | na | | | | 3800 LANGLIE MALTIX PENROSE SAND UNIT 313 | 13 | Active | 0.50 | |
| 02510483 LE | 3002510483 LEGACY RESERVES OPERATING, LP | na | | | 3855 | LANGLIE MAI IIX PENROSE SAND UNIT 137 | | Active | 0.52 | Langlie Mattox |
| 02538328 LE | 3002538328 LEGACY RESERVES OPERATING, LP | na | | | 3872 | LANGLIE MAI IIX PENROSE SAND UNII 603 | | Active | 0.52 | |
| 02510488 LE | 3002510488 LEGACY RESERVES OPERATING, LP | na | 3/E 2/ | 50.77 | 3690 | LANGLIE MALTIN PENROSE SAND UNIT 231 | | Active | 0.52 | Langlie Mattox |
| 02538300 LE | 300253830b LEGACY RESERVES OPERATING, LP | na no | | | 1 2025 17 | LANGLIE MATTIX PENROSE SAND UNIT 204 | 2 0 | Active | 0.53 | |
| 02510490 LE | 3002310438 LEGACI RESERVES OFERALING, LP | IId D3 | 91 0 | | 2651 | LANGLIE MATTIX BENROSE SAND JINIT 201 | | Active | 0.53 | Langlie Mattox |
| ひとうよりサイユ 上上 | 3002510471 LECACI NESENVES OF ENATING, EF | 2/15/2002 | 37E | 100 | | 368E I ANGLIE MATTIX PENROSE SAND LINIT 244 | | - Phioppy | | |
| 02538274 IF | 3007538774 I FGACY RESERVES OPERATING IP | na na | 37F | | | I ANGLIE MATTIX PENROSE SAND UNIT 600 | 00 | Active | | Langlie Mattox |
| 02523617 LE | 3002523617 LEGACY RESERVES OPERATING, LP | na | 1200 | | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 262 | | Active | 0.55 | Langlie Mattox |
| 02528460 LE | 3002528460 LEGACY RESERVES OPERATING, LP | na | | | 3702 | LANGLIE MATTIX PENROSE SAND UNIT 312 | | Active | 0.55 | Langlie Mattox |
| 02536696 LE | 3002536696 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3820 | LANGLIE MATTIX PENROSE SAND UNIT 202 | 0 70 | Active | 0.55 | |
| 02510475 LE | 3002510475 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3653 | LANGLIE MATTIX PENROSE SAND UNIT 194 | 94 | Active | 0.58 | Langlie Mattox |
| 002510474 LE | 3002510474 LEGACY RESERVES OPERATING, LP | na | 37E 22 | 22.05 | 27 3642 | LANGLIE MATTIX PENROSE SAND UNIT 193 | 93 0 | Active | 0.59 | Langlie Mattox |
| 02510486 Y | 3002510486 YARBROUGH OIL LP | 10/21/2000 | 37E | 22:05 | 27 6429 | J V BAKER 011 | 0 | Plugged | d 0:59 | Drinkard |
| 102510569 AT | 3002510569 ANADARKO PETROLEUM CORP | 2/20/2002 | 37E | 22.05 | 34 3664 | LANGLIE MATTIX PENROSE SAND UNIT 003 | 03 | Plugged | 0.62 | Langlie Mattox |
| DI DISTANCE | SONSE TO SECTION OF SECTIONS OF THE STATE OF | na | 275 37 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1 1 2 2 00 | ACTUAL GIAS TOOLED OF WITH A THOUSE IN THE | | | 000 | |

| 3002523212 ANADARKO PETROL FIM CORP | 8/30/1997 37F | | . 50.66 | 38 36 | 3698 ANGLIF MATTIX PENROSE SAND LINIT 003 | d 0.63 Langlie Mattox |
|---|---------------|---------|---------|----------|--|-----------------------|
| 3002510570 ANADARKO PETROJEJIM CORP | 7/28/1966 | | | | С | |
| 3002536027 BURLESON PETROLEUM. INC | na | | | | 0 | 0.63 |
| 3002510401 LEGACY RESERVES OPERATING, LP | | 100 | | | LANGLIE MATTIX PENROSE SAND UNIT 523 O | |
| 3002510568 ELDER & WILLINGHAM | 3/6/1975 | 37E 2 | 22.05 | 3.4 65 | 6550 T.O MAY 001 Plugged | d 0.64 Drinkard |
| 3002510414 LEGACY RESERVES OPERATING, LP | | 37E 2 | 22.05 | 22 36 | 3690 LANGLIE MATTIX PENROSE SAND UNIT 131 I Active | 0.65 |
| 3002521810 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 34 37 | 3717 LANGLIE MATTIX PENROSE SAND UNIT 218 O Active | |
| 3002536697 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 27 38 | 3820 LANGLIE MATTIX PENROSE SAND UNIT 203 O Active | |
| 3002510484 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 27 35 | 3515 LANGLIE MATTIX PENROSE SAND UNIT 138 O Active | |
| 3002537387 BURLESON PETROLEUM, INC | na | 37E 2 | 22.05 | 22 72 | 7220 SANTA RITA 003 Active | 0.66 Wantz/Abo |
| 3002538325 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | | | 0.67 |
| 3002510497 LEGACY RESERVES OPERATING, LP | na | Name of | 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 243 O | 0.67 |
| 3002510502 ANADARKO PETROLEUM CORP | 3/22/2002 | 37E 2 | 22.05 | 28 36 | 3685 LANGLIE MATTIX PENROSE SAND UNIT 001. O Plugged | d 0.67 Langlie Mattox |
| 3002510415 BURLESON PETROLEUM, INC | na | 37E 2 | 22.05 | 22 64 | 6450 J V BAKER 009 Active | 0.67 Drinkard |
| 3002510473 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 27 36 | 3651 LANGLIE MATTIX PENROSE SAND UNIT 192 | 0.68 Langlie Mattox |
| 3002523771 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 22 37 | 3700 LANGLIE MATTIX PENROSE SAND UNIT 141 O Active | 0.69 Langlie Mattox |
| 3002526480 OXY USA INC | na | 37E 2 | 22.05 | 27 72 | 7200 LAURA J MAY 001 Active | 0.69 Blinebry |
| 3002528088 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 27 37 | 3715 LANGLIE MATTIX PENROSE SAND UNIT 311 O Active | 0.70 Langlie Mattox |
| 3002510379 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 21 36 | 3648 LANGLIE MATTIX PENROSE SAND UNIT 521 Active | 0.72 Langlie Mattox |
| 3002510577 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 34 37 | 3700 LANGLIE MATTIX PENROSE SAND UNIT 361 | 0.73 Langlie Mattox |
| 3002538327 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 22 38 | 3835 LANGLIE MATTIX PENROSE SAND UNIT 525 O Active | 0.74 Langlie Mattox |
| 3002510421 W H STREET | 10/17/1941 | 37E 2 | 22,05 | 22 37 | 3705 W.B.FARRELL 001 | d 0.74 Langlie Mattox |
| 3002531659 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 22 37 | 3790 LANGLIE MATTIX PENROSE SAND UNIT 045 O Active | 0.76 Langlie Mattox |
| 3002534497 ENCORE ENERGY PARTNERS OPERATING LLC | na | 37E 2 | 22.05 | 22 73 | 7360 SARAH JOHNSTON 001 O Active | 0.76 Drinkard |
| 3002528461 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 34 37 | 3737 LANGLIE MATTIX PENROSE SAND UNIT 219 O Active | 0.76 Langlie Mattox |
| 3002510491 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 28 36 | 3680 LANGLIE MATTIX PENROSE SAND UNIT 283 1 Active | 0.79 Langlie Mattox |
| 3002510496 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 28 36 | | 0.79 |
| 3002528126 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 34 37 | 3712 LANGLIE MATTIX PENROSE SAND UNIT 366 O Active | 0.79 Langlie Mattox |
| 3002510578 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 34 36 | LANGLIE MATTIX PENROSE SAND UNIT 362 O | 0.80 Langlie Mattox |
| 3002510485 TEXACO EXPLORATION : PRODUCTION INC | 12/19/1990 | 37E 2 | 22.05 | 27 64 | 6458 J.V. BAKER 010 Plugged | d 0:80 Drinkard |
| 3002510500 KEY ENERGY SERVICES, LLC | na | 37E 2 | 22.05 | 28 67 | 6797 CHRISTMAS 003 Sctive | 0.80 San Andres |
| 3002536701 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 22 37 | 3790 LANGLIE MATTIX PENROSE SAND UNIT 047 O Active | 0.80 Langlie Mattox |
| 3002510490 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 28 36 | 3690 LANGLIE MATTIX PENROSE SAND UNIT 282 O Active | 0.81 Langlie Mattox |
| 3002535883 BURLESON PETROLEUM, INC | na | 37E 2 | 22.05 | 27 71 | SANTA RITA 001 | 0.81 |
| 3002510405 OLEAN PETROLEUM CORP | 5/8/1939 | 37E 2 | 22.05 | 22 37 | 3757 W.B. FARRELL 002 | d Canglie Mattox |
| 3002534715 ENCORE ENERGY PARTNERS OPERATING LLC | na | 37E 2 | 22.05 | | 7425 HSOG 002 Active | 0.83 Silurian |
| 3002510464 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 26 36 | LANGLIE MATTIX PENROSE SAND UNIT 172 O | 0.83 |
| 3002510461 LEGACY RESERVES OPERATING, LP | | 37E 2 | | | LANGLIE MATTIX PENROSE SAND UNIT 182 | |
| 3002510565 ANADARKO PETROLEUM CORP | 8/19/1997 | 37E 2 | 22.05 | 33 :: 37 | 3710 LANGLIE MATTIX PENROSE SAND UNIT 002 | |
| 3002525412 LEGACY RESERVES OPERATING, LP | | 13.00 | | | 6700 A L CHRISTMAS 001 S Active | 0.87 |
| 3002510566 LEGACY RESERVES OPERATING, LP | 2/13/2008 | 37E 2 | 22.05 | 33 36 | 3688 LANGLIE MATTIX PENROSE SAND UNIT 353 II Plugged | |
| 3002534611 ENCORE ENERGY PARTNERS OPERATING LLC | na | 37E 2 | 22.05 | 22 74 | 7475 SARAH JOHNSTON 002 Active | |
| 3002508968 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 522 0 | 0.87 |
| 3002510571 ANADARKO PETROLEUM CORP | | 37E 2 | 22.05 | 34 34 | LANGLIE MATTIX PENROSE SAND UNIT 007 | 0.88 |
| 3002536212 ANADARKO PETROLEUM CORP | 4/1/1985 | | 22.05 | | LANGLIE MATTIX PENRO 005 | 0.88 |
| 3002523580 LEGACY RESERVES OPERATING, LP | na | 37E 2 | 22.05 | 28 37 | LANGLIE MATTIX PENROSE SAND UNIT 272 | 0.88 |
| 3002510572 LEGACY RESERVES OPERATING, LP | | 10.0 | 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 216 0 | 0.88 |
| 3002510460 ANADARKO PETROLEUM CORP | 4/10/2002 | | 22.05 | | ENROSE SAND UNIT 001 | 0.88 |
| 3002539376 RANGE OPERATING NEW MEXICO LLC | na | 37E 2 | 22.05 | 28 70 | 7052 CHRISTMAS 28 005 Octive | 0.89 Blinebry |

| 3002510406 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | 13 | 22 3555 | 3555 LANGLIE MATTIX PENROSE SAND UNIT 041 | - | Active | 0.89 Langlie Mattox | ttox |
|--|----------------|--------------------|----------|---------|---|---|---------|---------------------|-------|
| 3002510407 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 22 3685 | 3685 LANGLIE MATTIX PENROSE SAND UNIT 042 | 0 | Active | 0.89 Langlie Mattox | ttox |
| 3002510487 ANADARKO PETROLEUM CORP | 5/20/1994 | 37E 22 | 22.05 | 28 3412 | 3412 LANGLIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | 0,90 Langlie Mattox | ttox |
| 3002510411 JOHN H HENDRIX CORP | na 3 | 37E 22. | 22.05 | 22 7130 | 7130 WILL CARY 006 | 0 | Active | 0.90 Montoya | |
| 3002512739 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 34 3688 | 3688 LANGLIE MATTIX PENROSE SAND UNIT 365 | 0 | Active | 0.90 Langlie Mattox | ttox |
| 3002523198 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 22 3708 | 3708 LANGLIE MATTIX PENROSE SAND UNIT 152 | | Active | 0.90 Langlie Mattox | ttox |
| 3002538271 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 34 3800 | 3800 LANGLIE MATTIX PENROSE SAND UNIT 368 | 0 | Active | 0.90 Langlie Mattox | ttox |
| 3002510489 ANADARKO PETROLEUM CORP | 1/25/2001 | 37E 22.0S | | 28 3681 | 3681 LANGLIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | 0.90 Langlie Mattox | ttox |
| 3002531658 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 21 3800 | 3800 LANGLIE MATTIX PENROSE SAND UNIT 105 | 0 | Active | 0.91 Langlie Mattox | ttox |
| 3002538324 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 22 3840 | 3840 LANGLIE MATTIX PENROSE SAND UNIT 154 | 0 | Active | 0.92 Langlie Mattox | ttox |
| 3002522654 ANADARKO PETROLEUM CORP | 3/11/2002 37E | HARRIST | 22.05 | 28 3700 | 3700 LANGLE MATTIX PENROSE SAND UNIT 287 | 4 | Plugged | 0.93 Langlie Mattox | ttox |
| 3002510403 EXXON CORP | 11/27/1972 37E | AND DESCRIPTION OF | 22.05 | 22 8190 | 8190 W B FARRELL 003 | 0 | Plugged | 0.93 Drinkard | |
| 3002510413 JOHN H HENDRIX CORP | na 3 | 37E 22.0S | | 22 7500 | 7500 WILL CARY 008 | 0 | Active | 0.94 Drinkard | |
| 3002510383 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22. | 22.05 | 21 3625 | 3625 LANGLIE MATTIX PENROSE SAND UNIT 101 | 0 | Active | 0.95 Langlie Mattox | ttox |
| 3002525264 CHEVRON U S.A.INC | 9/2/1990 37E | 7E 22 | 22.05 | 28 6704 | 6704 MANDA B TR C 001 | 0 | Plugged | 0.95 Blinebry | |
| 3002538320 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22. | 22.05 | 22 3845 | 3845 LANGLIE MATTIX PENROSE SAND UNIT 048 | 0 | Active | 0.95 Langlie Mattox | ıttox |
| 3002534808 JOHN H HENDRIX CORP | na 3 | 37E 22. | 22.05 | 26 7400 | 7400 SHIRLEY BOYD 001 | 0 | Active | 0.95 Silurian | |
| 3002510416 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22. | 22.05 | 22 3685 | 3685 LANGLIE MATTIX PENROSE SAND UNIT 142 | | Active | 0.96 Langlie Mattox | ttox |
| 3002510553 ANADARKO PETROLEUM CORP | 8/19/1997 37E | 7E 22 | 22.05 | 33 3680 | 3680 LANGLIE MATTIX PENROSE SAND UNIT 002 | 0 | Plugged | 0.96 Langlie Mattox | ttox |
| 3002510463 JOHN H HENDRIX CORP | 7/25/2005 37E | | 22.05 | 26 6487 | 6487 BAKER A 001. | 0 | Plugged | 0.97 Drinkard | |
| 3002510467 TEXACO EXPLORATION & PRODUCTION INC | 2/20/1985 37E | 7E 22 | 22.05 | 26 6450 | 6450 BAKER A 005 | 0 | Plugged | 0.97 Blinebry | |
| 3002536700 LEGACY RESERVES OPERATING, LP | na 3 | 37E 22.0S | | 22 3795 | 3795 LANGLIE MATTIX PENROSE SAND UNIT 046 | 0 | Active | 0.98 Langlie Mattox | ttox |
| 3002539049 RANGE OPERATING NEW MEXICO LLC | na 3 | 37E 22. | 22.05 | 28 6995 | 6995 CHRISTMAS 28 004 | 0 | Active | 0.98 Blinebry | |
| 3002510586 SHELL OIL CO | 4/30/1951 37E | 7E 22 | 22.05 35 | | 3622 T.O.MAY 001 | 0 | Plugged | 0.99 Langlie Mattox | ttox |
| | | | | | | | | | |



Note: Table is sorted by increasing distance from proposed Versado AGI #1

APPENDICES

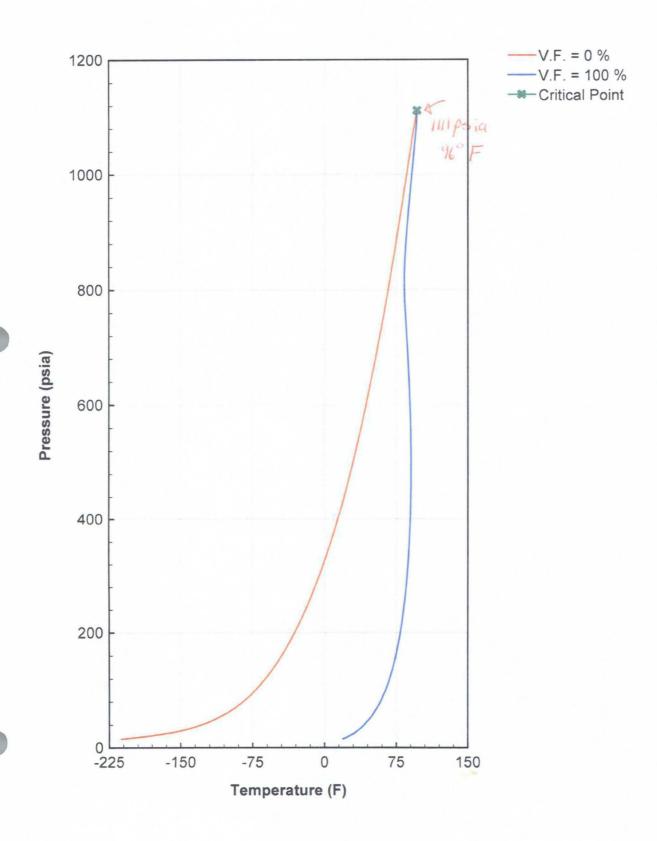
APPENDIX A

DATA ON SAN ANDRES FORMATION FLUID AND ANALYSIS OF INJECTION FLUIDS

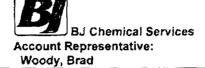
EUNICE ACIO GAS COMPOSITION. RANGE - 19 - 2 mm setd

| Extended Analysis | |
|--------------------|-----------|
| Date | 9/27/2006 |
| | Mol % |
| H2S | 14.5 |
| Nitrogen | 0.138 |
| Methane | 0.7482 |
| CO2 | 83.7874 |
| Propane | 0.6234 |
| N-Butane | 0.0117 |
| I-Pentane | 0.0087 |
| N-Pentane | 0.0065 |
| Cyclopentane | 0.0014 |
| 2-Methylpentane | 0.0026 |
| 3-Methylpentane | 0.0022 |
| N-Hexane | 0.0052 |
| Methylcyclopentane | 0.0056 |
| Benzene | 0.0103 |
| Cyclohexane | 0.0215 |
| N-Heptane | 0.0122 |
| Methylcyclohexane | 0.0206 |
| Toluene | 0.0118 |
| N-Octane | 0.0103 |
| Ethylbenzene | 0.02 |
| M&P Xylene | 0.0069 |
| O-Xylene | 0.0029 |
| N-Nonane | 0.0427 |
| N-Decane | 0 |
| Total | 100.0001 |

Phase Envelope (PT)







TARGA MIDSTREAM SERIVCES

Industrial Water Analysis

Listed below please find water analysis report from: EUNICE MIDDLE GAS P, Cooling Tower

Lab Test No:

2009114980

Sample Date:

03/31/2009

TDS (mg/L):

3471 Conductivity: 6430.00 pH:

µmhos

6.80

| Cations: | mg/L | as: | |
|-------------------|---------|----------------------|--|
| Calcium | 1025.00 | (CaCO ₃) | |
| Magnesium | 914.64 | (CaCO ₃) | |
| Total Hardness | 1939.64 | CaCO ₃) | |
| Iron | 0.33 | (Fe ⁺⁺) | |
| Anions: | mg/L | as: | |
| M-Alkalinity | 64.0 | (CaCO ₃) | |
| P-Alkalinity | 0.0 | (CaCO ₃) | |
| Silica | 233.26 | (SiO ₂) | |
| Sulfate | 1050 | (SO ₄) | |
| Chloride | 1500 | (Cl) | |
| Total Phosphorous | 16.60 | (PO ₄ -3) | |
| ortho-Phosphate | 8.07 | (PO ₄ 3) | |

Analytical Laboratory Report for:



BJ Chemical Services

TARGA

Account Representative: Brad Woody

Industrial Water Analysis

Listed below please find water analysis report from: South Plant, Skimmer Tank

Lab Test No:

2009114981

Sample Date:

03/31/2009

TDS (mg/L):

27364

pH:

6.70

Conductivity: 62500.00 µmhos

| Cations: | mg/L | as: | |
|----------------|---------|----------------------|--|
| Calcium | 2377.50 | (CaCO,) | |
| Magnesium | 7119.36 | (CaCO) | |
| Total Hardness | 9496.86 | CaCO ₃) | |
| Iron | 571.00 | (Fe ^{··}) | |
| Manganese | 15.25 | (Mn) | |
| Anions: | mg/L | as: | |
| M-Alkalinity | 737.0 | (CaCO ₃) | |
| P-Alkalinity | 0.0 | (CaCO ₃) | |
| Silica | 25.42 | (SIO,) | |
| Sulfate | 24 | (SO,*) | |
| Chloride | 23600 | (CI) | |

Analytical Laboratory Report for:

BJ Chemical Services

TARGA

Account Representative: Brad Woody

Industrial Water Analysis

pH:

Listed below please find water analysis report from: South Plant, Bullet Tank

Lab Test No: 2009114982

Sample Date:

03/31/2009

TDS (mg/L):

7796

6.53

Conductivity: 20000.00 μmhos

| Cations: | mg/L | as: |
|----------------|---------|----------------------|
| Calcium | 1982.50 | (CaCO ₁) |
| Magnesium | 506.76 | (CaCO ₃) |
| Total Hardness | 2489.26 | CaCO ₃) |
| Iron | 359.00 | (Fe ⁺⁺) |
| Manganese | 4.16 | (Mn [*]) |
| Anions: | mg/L | as: |
| M-Alkalinity | 127.0 | (CaCO¸) |
| P-Alkalinity | 0.0 | (CaCO,) |
| Silica | 10.34 | (SiO ₂) |
| Sulfate | 29 | (SO ₄) |
| Chloride | 6400 | (CI) |

The specific gravity of acid gas injection fluids is highly dependent on the temperature and pressure conditions and the composition of the fluid mixture. It is most accurately calculated using a modification of the Peng-Robinson (PR) equation of state (EOS) model (Boyle and Carroll, 2002). We have calculated the specific gravities of the TAG condensate and the aqueous phases for the proposed Targa injection stream using the AQUAlibrium 3.1 software which employs the modified PR EOS model (Appendix *). Three injection scenarios have been modeled: 1) the proposed average daily injection mixture of 4.35 MMSCF TAG and 600 Bbls waste water (TAG:WW ratio of 51:49); 2) the proposed maximum daily injection mixture of 5.0 MMSCF TAG and 1200 Bbls waste water (TAG:WW ratio of 37:63); and 3) the proposed wettest daily injection mixture of 4.35 MMSCF TAG and 1200 Bbls waste water (TAG:WW ratio of 34:66). In all models, the TAG was assumed to have a composition of 83.8 mol % CO2 and 14.5 mol % H2S (the remaining fraction includes C₁-C₇; inclusion of this fraction into the calculations results in small variations on the order of several %). The specific gravities were determined for the conditions at the well head (pressure = 1200 psi, temperature = 100°F), at the bottom of the well (pressure = 2505 psi, temperature = 100°F); and in equilibrium with the reservoir (pressure = 2505 psi, temperature = 135°F). The specific gravities determined were then used in calculations of maximum injection pressure and injection volume.

Table 1: Pressure and Volume Calculations for TAG and Wastewater, Targa AGI/SWD #001

| | | + WW | inject rate | lb/day | 1134432 |
|--|----------------------------------|---------------------|---|---------|---------|
| TOO# OW | | Mixed TAG + WW | comp | TAG:H2O | 31:69 |
| Iabie L: Pressure and Volume Calculations for । AG and Wastewater, । arga AGI/১WD #UUL | | (W) | inject rate | lb/day | 552018 |
| vastewater | ļ | Waste Water (WW) | Density | kg/m³ | 1010 |
| r I AG and v | | Wa | inject rate inject rate inject rate Density | bbl/day | 1575 |
| ulations fol | | TAG | inject rate | lb/day | 582414 |
| olume Calc | | CO ₂ TAG | inject rate | lb/day | 513595 |
| ssure and v | SOL | H ₂ S | inject rate | lb/day | 68819 |
| labie I: Pre: | HARACTERISTICS | CO ₂ | conc. | % low | 83.8 |
| _ | PROPOSED INJECTION STREAM CHARAC | H ₂ S | conc. | % lom | 14.5 |
| | PROPOSED INJE | TAG | Gas vol | MMSCFD | 5 |

CONDITIONS AT WELL HEAD

| Well Head | Well Head Conditions | | | | ⊄ L | TAG | | | | ww | Mis | Mixed |
|-----------|----------------------|---------|-----------------------------------|-------------|----------------------|-----------------|---------|--------|--------|--------|--------|----------|
| Temp | Pressure | Gas vol | Comp | Inject Rate | Density ¹ | SG ² | density | volume | volume | volume | volume | volume |
| ш | psi | MMSCFD | CO ₂ :H ₂ S | lb/day | kg/m³ | | lb/gal | ff. | ppl | lqq | ldd | bbl/30yr |
| 100 | 1482 | 5 | 84:15 | 582414 | 664.29 | 99.0 | 5:55 | 14037 | 2500 | 1575 | 4075 | 44653661 |

CONDITIONS AT BOTTOM OF WELL

| | Injection | jection Zone Conditions | suc | | | | TAG | | | ww | Mî | Mixed |
|------|-----------------------|-------------------------|-------------|-----------------|----------------------|-----------------|---------|--------|--------|--------|--------|----------|
| Temp | Pressure ³ | Depth _{top} | Depthbottom | MW ⁴ | Density ¹ | SG ² | density | volume | volume | volume | volume | volume |
| ц | psi | ft | Ħ | lb/gal | kg/m³ | | lb/gal | ft³ | ldd | ppl | lgq | bbl/30yr |
| 100 | 2439 | 4250 | 4950 | 10.2 | 815.26 | 0.82 | 6.81 | 22279 | 3968 | 1575 | 5543 | 60737941 |

CONDITIONS IN RESERVOIR AT EQUILIBRIUM

| | CONDITIONS IN RESERVOIR AT EXOLEGINOR | COLLIDA | | | | | | | | | | |
|-------------------|---------------------------------------|-------------------------------|-------------------------|-----------------------|----------------------|-----------------|---------|--------|--------|--------|--------|----------|
| | Injection R | njection Reservoir Conditions | tions | | | | TAG | | | ww | Mi | Mixed |
| Temp ⁵ | Pressure³ | Depth _{top} | Depth _{bottom} | Porosity ⁶ | Density ¹ | SG ² | density | volume | volume | volume | volume | volume |
| ш | psi | ft | ft | Ħ | kg/m³ | | lb/gal | ft³ | ldd | ppl | lqq | bbl/30yr |
| 135 | 2439 | 4250 | 4950 | 20 | 06.390 | 0.67 | 5.56 | 27301 | 4862 | 1575 | 6437 | 70538326 |

CONSTANTS

| | SCF/mol | |
|----------------------------------|---------|--------|
| Molar volume at STD | 0.7915 | |
| - | g/mol | lom/dl |
| Molar weight of H ₂ S | 34.0809 | 0.0751 |
| Molar weight of CO ₂ | 44.0096 | 0.0970 |
| Molar weight of H ₂ O | 18.015 | 0.0397 |

Density calculated using AQUAlibrium software

² Specific gravity calculated assuming a constant density

 3 PP = 0.433/8.33 * MW * Depth_{mid} = 2532 psi

⁴ MW = est. drilling mud weight

⁵ Reservoir temp. is estimated using geothermal gradient for Basin ⁶ Porosity is estimated using geophysical logs for API 30-025-36482

IP_{max} = PG *Depth Where: SG $_{\text{bif}}$, SG $_{\text{ww}}$ and SG $_{\text{TAG}}$ are specific gravities of blended injection fluid, waste water, and

respectively; PG is calculated pressure gradient; and IP_{max} is calculated maximum injection TAG, respectively; Vol_{ww} and $\operatorname{Vol}_{\operatorname{IaG}}$ are injected volumes of water and TAG in $\operatorname{bbl}/\operatorname{day}$,

0.304 psi/ft

CALCULATION OF MAXIMUM INJECTION PRESSURE LIMITATION SGbir = $(SG_{ww}*Vol_{ww}+SG_{TAG}*Vol_{TAG})/(Vol_{ww}+Vol_{TAG})$ 0.8 PG = 0.2 + 0.433 (1.04-5Gbif) 0.30

CALCULATION OF 30 YEAR AREA OF INJECTION Cubic Feet/day (5.6146 ft³/bbl)

| Cubic Feet/day (5.6146 ft³/bbl) | 36144 ft³/day |
|--|---|
| Cubic Feet/30 years | 396044484 ft³/30 years |
| Area = V/Net Porosity (ft) | $5657778 \text{ ft}^2/30 \text{ years}$ |
| Area = $V/Net Porosity (ft) (43560 ft^2/acre)$ | 129.9 acres/30 years |
| Radius = | 1342 ft |

APPENDIX B PROPOSED AGI/SWD WELL **RECOMPLETION INFORMATION**



P.O. Box 272 Midland, Texas 79702 Off: 432-620-9181 Fax: 432-570-0102

Emergency Sheet

Well:

Eunice Gas Plant SWD Well No. 1

Location:

2500' FSL 1200' FWL of Section 27, T22S, R37E,

Lea County, New Mexico

Operator:

Targa Midstream Services, LP

TD:

4,950'

Drilling Contractor:

Lat. 32.362642" N / Long 103.155547" W

Sheriff and EMS Lea Co.

(575)396-3611

Lea Co. Hospital (Hobbs)

(575)396-8521

MedTrans Care Star Helicopter

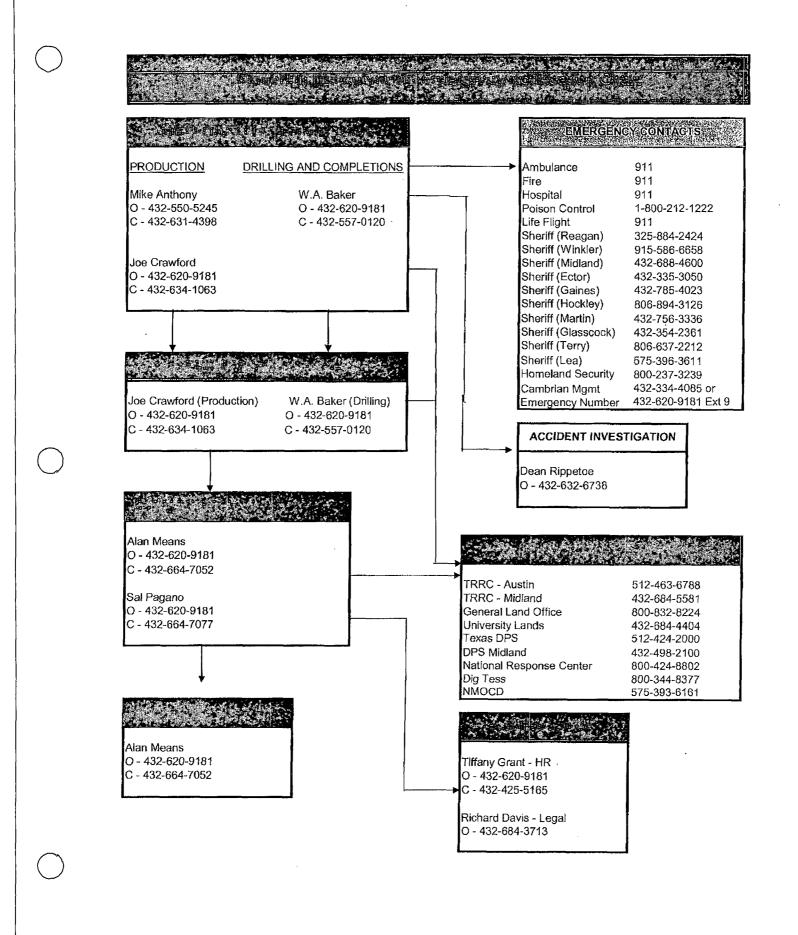
(888) 624-3571

Directions to the Eunice Gas Plant SWD Well No. 1

From Eunice, NM go south on Loop 207 approximately 5 miles. Turn into Targa South Plant. Well is within plant facility.

Cambrian Management (Operations)

| | | Office | Cell |
|--------------|---------------------|----------------|----------------|
| W. A. Baker | Drlg. Oper. Mgr. | (432) 620-9181 | (432) 557-0120 |
| Alan Means | Media Spokesman | (432) 620-9181 | (432) 664-7052 |
| Joe Goodrich | Wellsite Consultant | | (575) 746 7082 |





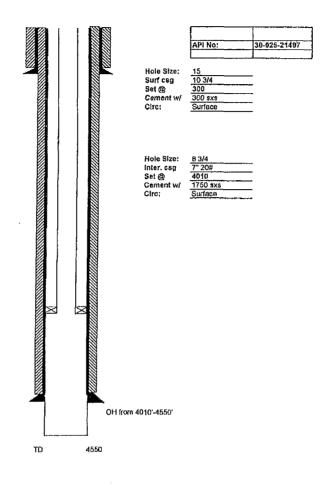
P.O. Box 272 Midland, Texas 79702 Off: 432-620-9181 Fax: 432-570-0102

Eunice Gas Plant SWD Well No. 1 Drilling Program Contact List

| Company | Contact | Description | Contact No. |
|---------------------------|---|---|--|
| Cambrian Management Targa | W.A. Baker wbaker@cambr Jim Lingnau | Drilling Operations Manager ianmgmt.com | (432) 557-0120 Celi (432) 620-9181 Office (432) 570-0102 Fax (505) 631-2095 |
| EWC | Joe Goodrich | Wellsite Supervisor | (575) 746-7082 Cell |
| Key Energy Services | | Drilling Rig - 115 Pusher Pusher | |
| Ellison Fluid Calipers | | Fluid Caliper | 432-634-0500 |
| Closes Loop Specialty | | Closed Loop Pit System | 432-210-5754 |
| Halliburton | | Cementers | 800-658-9607 Office |
| Catalyst | | Corrosion Chemicals | 432-664-8776 |
| Carga | Jim Lingnau | Casing/Tubing | (505) 631-7095 |
| T3 Energy Services | | Wellheads/Supplies | (432)381-2354 Office |
| NMOCD | | Spud/Cementing Notices | (575)393-6161 |
| IOV | | Mud | (575)392-4932 Cell |
| night Oil Tools | | Rental Tools | (432) 684-8282 |
| /eatherford | | Float Equipment | 800-658-9607 Office |
| | | Bits | |
| alliburton | | Packer | |
| alliburton | | SSSV | |

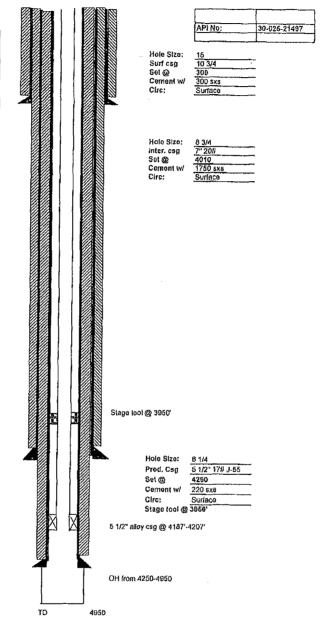
Eunice Gas Plant #1

| | Location: |
|-------------|--|
| Footage: | 2500 FSL & 1200 FWL |
| Section; | 27 |
| | |
| Survey: | T22S R37E |
| County: | l.ea |
| Elevations: | |
| GR: | 3345 |
| TD: | 4550 |
| PBTO: | |
| | |
| | |
| History | |
| | |
| | Spud |
| | Completion |
| | Re-completion |
| | |
| 1/1/1961 | Well drilled and completed |
| | Tubing and packer ran into well as disposal |
| ? | string. |
| | Metal in reluns at 3985' to 4005' during |
| | workover. Returned to SWD w/ packer at |
| 1/1/1978 | 3865'. |
| | |
| | Blew hole in 7" during compliance test. Details |
| | sketchy but casing was perforated at 550'. |
| | Unable to pump in, Perforated at 300', Unable |
| 1/1/1991 | to pump in, Perforated at 100'. Hallib cmtd. |
| 1/1/1995 | Possible Workover. No records. |
| | Set CIBP @ 3925' & dump 20' cement on it. |
| | Dowell squeezed down 7" w/ 400 sxs + ? sxs |
| | (2 Jobs). Drilled cement from 291' to 355'. |
| | Repaired 10 3/4 & 7" @ 4' from GL, Drilled out |
| | cement and CIBP. Unable to c/o below 4430, |
| 4/1/1997 | Pkr @ 3847'. |
| 1/1/99 | Pkr found unset during w/o. No records, |
| 1/1/2000 | Last time we pulled? |
| 17 172000 | Last time we pulled? |
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| | Tubing Detail (top to bottom) |
| Joints | Description |
| 125 | Description 3 1/2" IPC tbg |
| 125 1 | Description 3 1/2" IPC tbg X-over |
| 125 | Description 3 1/2" IPC tbg |
| 125 1 | Description 3 1/2" IPC tbg X-over |
| 125 1 | Description 3 1/2" IPC tbg X-over |
| 125 1 | Description 3 1/2" IPC tbg X-over |
| 125 1 | Description 3 1/2" IPC tbg X-over |
| 125 1 | Description 3 1/2" IPC tbg X-over |
| 125 1 | Description 3 1/2" IPC tbg X-over Halliburton R-4 packer @ 3814 |
| 125 | Description 3 1/2" IPC tbg X-over |
| 125 1 | Description 3 1/2" IPC tbg X-over Halliburton R-4 packer @ 3814 |
| 125 | Description 3 1/2" IPC tbg X-over Hallburton R-4 packer @ 3814 Rod Tally |
| 125 | Description 3 1/2" IPC tbg X-over Hallburton R-4 packer @ 3814 Rod Tally |
| 125 | Description 3 1/2" IPC tbg X-over Hallburton R-4 packer @ 3814 Rod Tally |
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| 125 | Description 3 1/2" IPC tbg X-over Hallburton R-4 packer @ 3814 Rod Tally |
| 125 | Description 3 1/2" IPC tbg X-over Hallburton R-4 packer @ 3814 Rod Tally |



Eunice Gas Plant #1

| | Location: |
|----------------|--|
| Foolage: | 2500 FSI, & 1200 FWL |
| Section: | 27 |
| | |
| Survey: | T22S R37E |
| County: | Lea |
| Elevations; | |
| GR. | 3345 |
| TD; | 4550 |
| PBTO: | |
| | |
| | |
| History | |
| | |
| | Spud |
| | Completion |
| | Re-completion |
| | |
| 1/1/1961 | Well drilled and completed |
| _ | Tubing and packer ran into well as disposal |
| ?? | string. |
| | Metal in returns at 3985' to 4005' during |
| | workover, Returned to SWD w/ packer at |
| 1/1/1978 | 3865'. |
| | Blew hole in 7" during compliance test. |
| | Delails sketchy but casing was perforated at |
| | 550'. Unable to pump in, Perforated at 300'. |
| | Unable to pump in. Perforated at 100', Hallib |
| 1/1/1991 | cmtd. |
| 1/1/1995 | Possible Workover, No records, |
| | Set CIBP @ 3925' & dump 20' cement on it. |
| | Dowell squeezed down 7" w/ 400 sxs + 7 sxs |
| | (2 Jobs). Drilled cament from 291' to 355'. |
| | Repaired 10 3/4 & 7" @ 4" from GL. Drilled |
| | out cement and CIBP. Unable to c/o below |
| 4/1/1997 | 4430'. Pkr @ 3847'. Pkr found unset during w/o, No records. |
| 1/1/99 | Pkr found unset during w/o, No records, |
| 1/1/2000 | Last time we pulled? |
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| | Tubing Detail (top to bottom) |
| | Description |
| Joints | |
| Joints | 2 7/8 FG lined tbg |
| Joints | 2 7/8 FG lined tbg Halibudon SSSV |
| Joints | 2 7/8 FG lined ibg Hallibudon SSSV 2 7/8 FG lined ibg |
| Joints | 2 7/8 FG lined tbg Halibudon SSSV |
| Joints | 2 7/8 FG lined ibg Hallibudon SSSV 2 7/8 FG lined ibg |
| Joints | 2 7/8 FG lined ibg Hallibudon SSSV 2 7/8 FG lined ibg |
| Joinis | 2 7/8 FG lined ibg Hallibudon SSSV 2 7/8 FG lined ibg |
| Joinis | 2 7/8 FG fined thg Hallburton SSSV 2 7/8 FG lined thg Hallburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| Joints Joints | 2 7/8 FG fined thg Hallburton SSSV 2 7/8 FG lined thg Hallburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
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| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| | 2 7/8 FG fined thg Halliburton SSSV 2 7/8 FG lined thg Halliburton pkr @ 4200 |
| | 2 7/6 FG lined thg Halfburton SSSV 2 7/6 FG lined thg Hallburton pkr @ 4200 |
| | 2 7/6 FG lined thg Halfburton SSSV 2 7/6 FG lined thg Hallburton pkr @ 4200 |
| | 2 7/6 FG lined thg Halfburton SSSV 2 7/6 FG lined thg Hallburton pkr @ 4200 |





P.O. Box 272 Midland, Texas 79702 Off: 432-620-9181 Fax: 432-570-0102

Well:

Eunice Gas Plant SWD Well No. 1

Location:

2500' FSL & 1200' FWL, Section 27, T22S, R37E, Lea County, New Mexico

Elevation: 3

3345' GL

AFE No.:

Permit No.:

API No.:

30-025-21497

Operator:

Targa Midstream Services, LP

TD:

4950'

Drilling Contractor: Key Energy Services Rig No. 115 KB:

Directions to the Eunice Gas Plant SWD Well No. 1: From Eunice, New Mexico go south on Loop 207 approximately 5 miles. Turn into Targa South Plant. Well is within plant facility.

RE-ENTRY & DRILLING PROGNOSIS (Steps 1-8 have been completed)

- 1. MI&RU Pulling unit.
- 2. NU BOP, set pipe racks and catwalk.
- 3. Unseat Halliburton R-4 packer and POH LD 3 1/2" tbg. Move tubing to edge of location.
- 4. RU wireline company. Run GR and junk basket to 3800'. Set CIBP @ 3800'.
- 5. Load hole with clean water.
- 6. ND BOP's. RDMO pulling unit.
- 7. Remove old wellhead. Prep to install new wellhead equipment.
- 8. Install new T3 Energy wellhead equipment. Test same.
- 9. NU and test BOP's with 250/3000 psi test.
- 10. Install cellar. Repair location for Key 24 hr rig.

- 11. MI & RU Key Rig No. 115 & closed loop pit system.
 - Notify OCD of intent to spud well.
- 12. PU 6 ¼" bit, 4 ¾" DC's on 2 7/8" DP. TIH to CIBP @ 3800'.
- 13. Drill out CIBP.
- 14. TIH with bit to 4250'.
 - Mud up as necessary.
 - Circulate clean.
 - Run fluid caliper to determine cement volumes.
- 15. TIH to original TD of 4550'
 - Watch for junk on bottom.
- 16. Drill new 6 ¼" hole to 4950' utilizing closed loop system.
- 17. Circulate hole clean. Spot clean water from TD back to bottom of 7" casing.
- 18. TOH with bit. LDDC's.
- 19. TIH open ended with DP to bottom of casing.
- 20. Spot sand on bottom to PB to 4250'.
- 21. PUH to 3500' & wait for sand to settle out.
- 22. TIH & tag sand. Respot as necessary.
- 23. POH. LD DP.
- 24. Change BOP rams to 5 1/2".
- 25. Run casing as below.
 - Notify OCD of upcoming cement job.

| 1.5' | Float Shoe |
|-------|---|
| 40' | 1 jt. 5 ½" 17# J-55 SJ-2 casing |
| 1.5' | Float collar |
| 20' | 5 ½" 17# alloy SJ-2 casing |
| 237' | 5 ½" 17# J-55 SJ-2 casing |
| 1.5' | 5 ½" LTC x 5 ½" SJ-2 crossover |
| 5' | 5 ½" Weatherford stage tool |
| 3945' | 5 ½" 17# J-55 LTC (turned down couplings) casing. |

Install centralizers at 10' above shoe, middle of alloy casing, 5 on the steel casing above alloy in open hole, and 2 on casing just inside of 7" casing.

- ➤ Limit running speed to 1200 fph. Use cementing swedge to fill casing. KEEP PIPE MOVING IN THE OPEN HOLE EVEN WHILE FILLING UP CASING.
- Make sure cementing company has proper swedge for easing. (Need 5 ½" LTC and 5 ½" SJ-2 swedges)
- ➤ Limit pipe tension at surface to 75,000 lbs. (Pipe Tension = Weight Indicator Traveling block/hook weight). Air weight of casing = 72,250 lbs. Do not exceed without discussing with engineer.
- ➤ Use thread lock on casing shoe and on pin end of 2nd and 3rd joints.
- > Use Best-O-Life 2000 pipe dope
- 26. Circulate 1.5 casing volumes. Mix and pump cement per attached 2 stage cementing proposal. **Do not reciprocate casing.** Catch wet and dry surface samples of both lead and tail slurries. Drop wiper plug. Flush cement lines.
- 27. Monitor returns throughout the job. Note estimated percentage of returns on the morning reports. Reduce displacement rate to 2 bpm for the last 10 bbls. Calculate exact displacement volume on location. Verify floats are holding. If floats do not hold, rock floats in an attempt to get them to hold. If floats still do not hold, shut-in casing for 6 hours while WOC to prevent U-tubing. Check surface samples prior to releasing pressure. Calculate U-tube pressure and apply to casing if float does not hold.

Note the number of sacks of cement used, slurry recipe, slurry yield, slurry density, and number of centralizers on the morning report. If there is problem on cement job discuss running a temperature survey with operations coordinator.

- 28. Verify annulus is static. PU BOP. Set slips on 5 ½" casing. Hang off full string weight on slips. Record hanging weight on the morning report.
- 29. Cut off 5 1/2" casing. Install and test head.
- 30. RD&MO Key 115.
- 31. MI&RU completion unit.
 - WOC at least 72 hours prior to commencing completion work
- 32. NU BOP's with 2 7/8" and blind rams. Test with 1500 psi.
- 33. PU 4 3/4" bit and 3 1/8" DC's on 2 7/8" work string and TIH.
- 34. Tag cement on stage tool. Test casing with 1500 psi. Drill out cement and stage tool.
- 35. Circ clean and TIH to cement on float collar. Test casing with 1500 psi.
- 36. Drill out cement and float equipment. Continue in hole washing circulating out sand from open hole.
- 37. Circ hole clean. PUH into 5 ½" casing. Trip back to TD to check for fill.
- 38. Circ hole clean. Spot 10% acetic acid cross open hole interval.
- 39. TOH LD workstring & DC's.
- 40. RU Halliburton wireline truck. Run GR/CCL/CBL from bottom of 5 1/2" casing to surface.
- 41. Run and set Halliburton packer approximately 5' from bottom of alloy casing.
 - Notifiy OCD of intent to set packer and run tubing.

- 42. RU and run packer seal assembly on 2 7/8" fiberglass lined tubing.
 - •Run SSSV at 250'±
- 43. Space out seals in packer. Displace with packer fluid.
- 44. Set in packer. Test packer with 1500#. Remove BOP's and install tree.
- 45. RD & MO completion rig.
- 46. Clean and level location.
- 47. RU pump truck. Pump 200 bbl of water into well.
- 48. Stimulate additionally if required.
- 49. Notify OCD and run MIT.
- 50. Await installation of disposal lines.

PREPARED FOR:

Mr. W.A. Baker

TARGA MIDSTREAM SERVICES (CAMBRIAN MANAGEMENT)

Midland, Texas

Versado AGI #1 (Re-entry) Section 27 T-22-S R-37-E Lea County, New Mexico

Prepared by: Gary Brown April 7, 2010



Fluids Services 415 W. Wall, Suite 530 Midland TX 79701 Phone: 432-684-7446 Fax: 432-684-7473

April 7, 2010

Mr. W.A. Baker TARGA Midstream Services c/o Cambrian Management, LTD 303 W. Wall Street, Ste 500 Midland, Texas 79702-0272

Dear Mr. Baker,

Thank you for the opportunity to submit our drilling fluid recommendations for your Versado AGI #1 re-entry, in Lea County, New Mexico. These recommendations are based on information from your office, offset well data, and our knowledge of the area.

Of particular concern in this area is the potential for abnormal pressure, water flows and H₂S in the disposal interval. However, it has been our experience on re-entries that almost anything can happen:

- Plugs can be at the wrong depth, or missing completely
- Casing can be compromised or collapsed
- Pressure can be from water flows or gas
- Pressure can be abnormally high or low
- High pressure can be low volume, or high volume,
- Lost circulation can occur in the most unlikely zones as well as the expected ones

Therefore, we hope for the best but plan for the worst and recommend you have:

- an adequate sized pre-mix pit to mix re-entry fluid and/or kill mud
- a supply of fresh & brine water to kill the well with weights between 8.4 and 10.0ppg
- a supply of sack barite for kill weights above 10.0ppg
- a supply of Star Hib TSW in case there is the presence of H₂S
- a supply of liquid Xanthan Gum and starch on location for viscosity and/or fluid loss control
- a supply of various sized lost circulation material

All support services, including warehousing and trucking for this well, are in Hobbs, New Mexico. Thank you for considering us to be a part of your drilling team, and we look forward to working with you in the future.

Sincerely,

Gary Brown NOV® Fluids Services Permian District

DRILLING FLUID SYNOPSIS

TARGA Midstream Services Versado AGI #1 (Re-entry) Section 27 T-22-S R-37-E Lea County, New Mexico

Recommended Casing

7" at 4,000' 5 ½" at 4,500'

| DEPTH | MUD WEIGHT | VISCOSITY | FLUID LOSS | DRILL SOLIDS | COMMENTS | |
|---------------|-------------|-----------|------------|--------------|---|--|
| 4,000'-5,000' | 9.5 to 10.0 | 28 to 29 | No Control | <1% | Cut Brine, Star NP-110, Paper, Lime | |

ESTIMATED FORMATION TOPS

| ANHYDRITE | 1,122 |
|--------------------|--------|
| YATES | 2,560' |
| SEVEN RIVERS | 2,815' |
| QUEEN | 3,320' |
| PENROSE | 3,430' |
| GRAYBURG | 3,590' |
| SAN ANDRES | 3,816' |
| 74. CASING SETVATA | 4;000) |
| GLORIETA | 4,945' |
| TD | 5,000' |

RECOMMENDED DRILLING FLUID PROGRAM

| DEPTH | WEIGHT | VISCOSITY | FILTRATE |
|---------------|----------|-----------|------------|
| 4,000'-5,000' | 9.5-10.0 | 28-29 | No Control |

Drill out from under casing with cut brine, circulating the closed loop. Hopefully, the "rat hole" should be easily cleaned since the well has been used as a disposal well. However, if drilling is required, take care to not "walk out" of the original well bore. Lime should be used to control the pH at 9.0 to 10. Utilize Star NP-110 for hole sweeps and to control solids. Paper should be used to control seepage and for sweeps. If lost circulation is encountered in this interval, please refer to NOV® Fluids Services' Lost Circulation Procedures. There is a potential for H₂S in this interval. If H₂S is encountered, we recommend additions of an H₂S scavenger for personnel safety and a filming amine to protect the drill pipe. We recommend sweeping the hole with a viscous, 50-60 sec/1,000cc's viscosity, Salt Gel pill and then spotting a viscous Salt Gel pill in the open hole prior to evaluation and running pipe. This should be sufficient for logging and casing operations.

John Hendrix Corp., Elliott B-15 #5, Section 15, T-22-S, R-37-E, reported moderate seepage @ 4,209'

John Hendrix Corp., Parks #13, Section 14, T-22-S, R-37-E, reported 60bbls/hour water flow @ 4,950'



LOST CIRCULATION PROCEDURES

Loss of circulation is a possibility on this well. Although each well is different, there are some basic procedures and drilling practices that can aid in reducing the severity or, in some cases, prevent lost circulation. Below is a list, which may prove helpful.

- 1. Maintain viscosities as low as possible and still clean the hole.
- 2. Maintain mud weights as low as possible without jeopardizing safety.
- 3. Use slow trip speeds to prevent swabbing and surging.
- 4. Break circulation in stages with reduced pump strokes while tripping in the hole.
- 5. Rotate pipe prior to and while tripping in the hole.
- 6. Use an optimum hydraulics program.

Severe seepage to total loss of circulation may occur even when the above procedures are followed. For severe seepage, we recommend circulating pills (50-100bbls. depending on hole size) containing 10-30 ppb of various (fibrous and flake) lost circulation material. It would be helpful to reduce pump rates until full returns are established. Once full returns are regained, normal pump rates should be returned to in stages. The inclusion of lost circulation material in the entire system is recommended only if the above procedures do not adequately seal off the loss zone.

For total loss of circulation, we recommend pulling enough stands to place the bit above the loss zone. A viscous pill containing the appropriate type of loss circulation material should be spotted. The size of the pill should be determined by hole size and should contain at <u>least</u> 30 ppb lost circulation material. Several attempts should be made before considering other alternatives. After returns are regained, we recommend staging back to bottom using the procedure outlined above.

If returns are not fully re-established, consideration should be given to dry drilling while pumping periodic sweeps to ensure hole cleaning.



PERMIAN DISTRICT PERSONNEL

MIDLAND OFFICE

800-669-7146

Larry Wadzeck

Regional Manager Permian/MidCon

Gary Brown

District Engineering Manager

Gerald Huff

District Sales & Marketing Manager

Mike Mundy

District Sales & Marketing

Carlton Crownover

Technical Sales

WEST TEXAS ENGINEERING

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Tony Martin

Senior Sales and Service Engineer

Chris Lee

Sales and Service Engineer

Mark Price

Senior Sales and Service Engineer

Tom O'Reilly

Senior Sales and Service Engineer

Steve Wilson

Senior Sales and Service Engineer

NEW MEXICO ENGINEERING

800-669-7146

Fred Flores

Senior Sales and Service Engineer

Josh Jones

Senior Sales and Service Engineer



WeatherfordWEATHERFORD DRILLING AND WELL SERVICES 3000 WEST COUNTY RD HOBBS NM 88240 UNITED STATES

76-0486916

TO: 1588331

TARGA RESOURCES INC 1000 LOUISIANA ST SUITE 4300 HOUSTON TX 77002-5050 UNITED STATES

LOCATION: 1588331

TARGA RESOURCES INC 1000 LOUISIANA ST SUITE 4300 HOUSTON TX 77002-5050 UNITED STATES

76-0486916

QUOTATION

Quote Number: 187114 SQ Order Date: MAY 03 2010 Customer Reference: VERBAL Location: 80026 HOBBS Phone No.: 575.391 9811 575.393 1244 Fax No.: FDC Number: FDC # 4070 E10023

| | | (IERMS) Net 30 days | т. СМОМЕМАТИ | | | JENIUER SHIFFLET | ijb)ii)(_{ijk)} |
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| 1. | .000 | Legacy #: 3030051BHDLPG0 SHOE, FLOAT 5-1/2 303 CONC | 0170 Part #: 573253 CONCRETE P110 AB HDL BLANK 17. | .o EA | 1.00 | 677.1200 | 677.12 |
| 2. | 000 | Legacy #: 4020051BHDLPG0 COLLAR, FLOAT 5-1/2 402 P11 | | EA | 1.00 | 886.4400 | 886,44 |
| 3. | 000 | Legacy #: 751E051ER00PG0 STAGE TOOL, MECHANICAL 5 | | EA | 1.00 | 4,716,1800 | 4,716.18 |
| 4. | 000 | Legacy #: 823355 Machine charge to cul sj2 thre | Part #: 823355 | EA | 3,00 | 710.0000 | 2,130.00 |
| 5. | 000 | Legacy #: 823355 Machine charge to mill dv tool | Part #: 823355 | EA | 1.00 | 250,0000 | 250.00 |
| 6. | 000 | Legacy #: B1102551 CENTRALIZER, BOW SPRING | Part #: 472228 5-1/2STR LO LPWLD B-SERIES 258 C | s EA | 10.00 | 28.7000 | 287.00 |
| 7. | L | Legacy #: 6020051 COLLAR, STOP 5-1/2 LO STD S | Part #: 582379 TSCR 10 GA X 2 CS | EA | 8.00 | 37,0500 | 296.40 |
| 8. | 000 | Legacy #: 7010010 THREAD, COMPOUND TUBE-LA | Part #: 472158 DK 1/2LB KITS | EA | 2.00 | 37.0500 | 74.10 |
| 9. | - 1 | Legacy #: 178173 DELIVERY CHARGES | Part #: 178173 | EA . | 1.00 | 100,0000 | 100.00 |
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| of the agreer | sted e currer nent, e app | quipment, materials or services to it at applicable master service agreem Weatherford's standard terms and | diary, division or affiliate of Weatherford in s customer. Such provision shall be gove- ent between the parties. In the event that conditions, a copy of which can be found priment, materials or services. [A paper co tten request.] | rned by the term there is no such at www.weather | s and conditions master service ford.com/t&c | nongal ((Waje)) | 9,417.24 |

HALLIBURTON

Cambrian Management Ltd PO Box 272 Midland, Texas 79702

Eunice Plant AGD Well 1

Lea County, New Mexico United States of America API/UWI 3002521497

Cementing Cost Estimate

Prepared for: W. A. Baker April 9, 2010 Version: 3

Submitted by: Kyle Baros

Halliburton 4000 N. Big Spring, Ste 200 Midland, Texas 79705 432.202.6581

HALLIBURTON

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Halliburton appreciates the opportunity to present this proposal and looks forward to being of service to you.

Foreword

Halliburton is pleased to have this opportunity to present this proposal for your consideration. We earnestly request the service work to be performed on this well. These Service Coordinators can be reached in our District, at the following phone numbers:

MIDLAND SALES OFFICE 1-800-844-8451

| ODESSA DISTRICT | HOBBS DISTRICT |
|-----------------|----------------|
| 1-800-417-5096 | 1-800-416-6081 |

| <u>CEMENTING</u> : | <u>CEMENTING</u> |
|---------------------------|-----------------------------|
| Scott Kerby / Joe Briseno | Jeremy Rey / Jaime Gonzales |
| BJ Wheeler | , , |

| STIMULATION: |
|-------------------------------|
| Larry Staples / Jerry Thurman |
| Gary Pacheco |
| |

| LOGGING & | LOGGING & |
|---------------------------|----------------------------|
| PERFORATING | <u>PERFORATING</u> |
| Mike Wood / Josh Stumpner | Josh Mount / Vernon Reever |

| COILED TUBING | DRILL BITS |
|-------------------------------|-------------|
| <u>& NITROGEN</u> | Jeff Tranum |
| Larry Staples / Jerry Thurman | |
| Gary Pacheco | |

| TOOLS & TESTING, | TOOLS & TESTING, |
|-------------------------------|-------------------|
| PROD. SVCS., TCP, | PROD. SVCS., TCP, |
| COMPL. PRODUCTS | COMPL. PRODUCTS |
| Steve Engleman / Kevin Warren | John Breeden |

| BAROID | <u>BAROID</u> |
|-----------------|---------------|
| Fernando Arizpe | Freddy Redmon |

PREPARED BY: Bruce Day

We look forward to working with you to provide the very best quality services available in the Permian Basin.

Kyle Baros, Technical Professional

Technical Discussion

Cementing Best Practices

- Cement quality and weight: You must choose cement slurry that is designed to solve the problems specific to
 each string of pipe.
- 2. Waiting time: You must hold the cement slurry in place and under pressure until it hardens. A cement slurry is a time-dependent liquid and must be allowed to undergo a hydration reaction to produce a competent cement sheath. A fresh cement slurry can be worked (thickening or pump time) as long as it is plastic, and the initial set of cement occurs during the rapid reaction stage. If the cement is not allowed to hydrate; it will be subject to changes in density, dilution, settling, water separation, and gas cutting that can lead to lack of zonal isolation with resultant bridging in the annulus.
- Pipe movement: Pipe movement may be one of the single most influential factors in mud removal. Reciprocation
 and/or rotation mechanically breaks up gelled mud and constantly changes the flow patterns in the annulus for
 better cement bonding.
- 4. Mud properties: Plastic viscosity (PV) should be less than 15 centipoise (cp), and less than 10 cp, if possible, yield point (YP) should be less than 10 pound/100-square feet (lb/100ft²) decreasing down to about 5 lb/100 ft².
- 5. Mud gel strength: A nonthixotropic mud is desirable for good mud removal. Mud left in the hole prior to running casing should have 10-second/10-minute/30-minute gel strength such that the 10-minute is less than double the 10-second and the 30-minute is less than 20 lb/100 ft²). Sufficient shear strength may not be achieved on a primary cement job to remove mud left in the hole should the mud develop more than 25 lb/100 ft².
- 6. Mud fluid loss: Decreasing the filtrate loss into a permeable zone enhances the creation of a thin filter cake. This increases the fluid mud in the hole, which is more easily removed. Generally, an API fluid loss of 7 or 8 milliliter (ml) is sufficient with high-temperature/high-pressure fluid loss (HTHP) no more than double this amount.
- 7. <u>Circulation:</u> Circulate bottoms up twice, or until well conditioned mud is being returned to the surface. There should be no cuttings in the mud returns. An annular velocity of 260 feet per minute is optimum (SPE/IADC 18617), if possible.
- 8. <u>Flow rate:</u> Turbulent flow is more desirable flow regime for mud removal. If turbulence cannot be achieved, better mud removal is found when maximum flow energy is used. The maximum pump rate should be determined to obtain the best flow regime.
- 9. <u>Hole size:</u> The optimum hole size recommended for good mud removal is 1.5 to 2 inches larger than the casing or liner size. Hole sizes larger than 2 inches annular space can be dealt with, but those that are smaller than 1.5 inches present difficult problems.
- 10. <u>Pipe Centralization</u>: This helps to create a uniform flow area perpendicular to flow direction. Cement will take the path of least resistance so that centralization is important in keeping the pipe off the walls of the hole. At least a 70 percent standoff should be achieved for centralization.
- 11. Rat hole: When applicable, a weighted viscous pill in the rat hole prevents cement from swapping with lighter weight mud when displacement stops.
- 12. <u>Shoe joint:</u> A shoe joint is recommended on all primary casings and liners. The length of the shoe joint will vary, although the absolute minimum length is one joint of pipe. If conditions exist, such as not running a bottom plug, two joints should be the minimum length.

Well Name: Eunice Plant AGD Well

Job Information

CorrosaCem - TL Production Cementing

| Surface Casing Outer Diameter | 0 - 300 ft (MD) 10.750 in |
|----------------------------------|------------------------------|
| Long String | 0 - 4010 ft (MD) |

Well #: 1

Outer Diameter 7.000 in
Inner Diameter 6.456 in
Linear Weight 20 lbm/ft
Job Excess 10 %

DV Tool 4000 ft (MD)

Existing 6-1/4" Open Hole 4010 - 4550 ft (MD)
Inner Diameter 6.250 in
Job Excess 35 %

6-1/4" Hole 4550 - 5000 ft (MD) Inner Diameter 6.250 in Job Excess 35 %

Production Casing 0 - 4550 ft (MD)
Outer Diameter 5.500 in
Inner Diameter 4.892 in
Linear Weight 17 lbm/ft
Thread AB FL-4S
Casing Grade J-55

Technical Discussion CorrosaCem - TL Production Cementing

The CorrosaCem-TL volume is based on 450 feet of fill with 35% of the specified hole volume added. If more current data, such as an open hole volume caliper log, becomes available, then the volume should be modified to caliper plus 20% over gauge hole.

CorrosaCem-TL will require 0.4% (bwoc) FE-2 as a dispersant/retarder. The Fe-2 will need to be pre-mixed in the mix water, as well as the spacer water, prior to the job.

Recommended procedure for CorrosaCem-TL:

Prior to Job-

- Blend Fe-2 with fresh water in a clean transport, mix thoroughly until all Fe-2 is dissolved.
- 2. The Fe-2 concentration will be based on laboratory pilot testing for desired cement slurry properties. (Estimated 0.09 ppg)
- 3. The Fe-2 water volume will include the required mix water volume, plus spacer volume, plus bottoms. (Estimated 50 bbl)
- 4. The mixture will be sampled, and used in the plant blend tests. Adjust Fe-2 concentration as required.
- 5. Load the CorrosaCem-TL bulk material into a clean, **cement free**, bulk truck. All cement residue **must be removed**, and the bulk tier inspected prior to loading the CorrosaCem-TL.

On Location-

- 1. Add the required Fe-2 mix water volume to the batchmixer. Add CorrosaCem-TL to batchmixer to obtain a 15.0 ppg slurry.
- 2. Pump the remaining Fe-2 water as a spacer.
- 3. Pump and displace the CorrosaCem-TL slurry.

Calculations

CorrosaCem - TL Production Cementing

Stage 1

Cement: (550.00 ft fill) $10.00 \text{ ft * } 0.0623 \text{ ft}^3/\text{ft * } 10 \text{ %}$ = 0.69 ft³ $540.00 \text{ ft * } 0.0481 \text{ ft}^3/\text{ft * } 35 \text{ %}$ = 35.04 ft³ First Stage Tail Cement = 35.72 ft³ = 6.36 bbl

Shoe Joint Volume: (40.00 ft fill) $40.00 \text{ ft * 0.1305 ft}^3/\text{ft}$ = 5.22 ft³ = 0.93 bbl Tail plus shoe joint = 40.95 ft³ = 7.29 bbl

Total Tail = 45 sks

Stage 2

Cement: (3033.00 ft fill)

 $3033.00 \text{ ft} * 0.0623 \text{ ft}^3/\text{ft} * 10 \%$ = 207.99 ft^3 Total Second Stage Lead Cement = 207.99 ft^3 = 37.04 bblSacks of Cement = 81 sks

Cement: (967.00 ft fill)

967.00 ft * 0.0623 ft³/ft * 10 % = 66.31 ft³ Second Stage Tail Cement = 66.31 ft³ = 11.81 bbl Total Tail = 50 sks

Job Recommendation

CorrosaCem - TL Production Cementing

Install floating equipment, run casing to bottom, and circulate a minimum of 2-3 hole volumes prior to cementing as follows:

Fluid Instructions

Stage 1

Fluid 1: Pump 20 bbl Dispersant Spacer

0.09 lbm/bbl Fe-2 (Dispersant)

Fluid Density: Fluid Volume: 0 lbm/gal 20 bbl

Fluid 2: Mix and pump 50 sks

CorrosaCem - TL

0.4 %

Fe-2 (Dispersant)

Fluid Weight

15 lbm/gal

Slurry Yield: Total Mixing Fluid:

 $0.91 \, \text{ft}^3/\text{sk}$ 3.44 Gal/sk

Top of Fluid:

4000 ft

Calculated Fill: Volume:

550 ft 7.29 bbl

Calculated Sacks:

45.09 sks

Proposed Sacks:

50 sks

DV Tool @ 4000 ft (MD)

Stage 2

Fluid 1: Pump 20 bbl

Fresh Water

Fluid Volume:

20 bbl

Fluid 2: Lead with 85 sks

EconoCem - C

Fluid Weight

11.70 lbm/gal

Slurry Yield:

2.57 ft³/sk

Total Mixing Fluid: Top of Fluid:

14.93 Gal/sk 0 ft

Calculated Fill:

3033 ft

Volume: Calculated Sacks:

37.05 bbl 81.00 sks

Proposed Sacks:

 $85 \, \mathrm{sks}$

Fluid 3: Tail-in with 50 sks

HalCem - C

Fluid Weight

14.80 lbm/gal

Slurry Yield:

 $1.33 \text{ ft}^3/\text{sk}$

Total Mixing Fluid:

6.34 Gal/sk

Top of Fluid: Calculated Fill:

3033 ft

Volume:

967 ft 11.81 bbl

Calculated Sacks:

50 sks

Proposed Sacks:

50 sks

7/9

Cost Estimate

CorrosaCem - TL Production Cementing

| Mtri Nbr | Description | Qty | U/M | Unit Price | Gross Amt | Discount | Net Amt |
|-----------|---------------------------------|------|-----|------------|-----------|-----------|-----------|
| 1 | MILEAGE FOR CEMENTING EQUIPMENT | 50 | MI | 9.79 | 489.50 | 332.86 | 156.64 |
| | NUMBER OF UNITS | 1 | | | | | |
| 2 | MILEAGE FOR CEMENTING CREW | 50 | MI | 5.76 | 288,00 | 195.84 | 92.16 |
| | NUMBER OF UNITS | L | | | | | i |
| 7 | ENVIRONMENTAL SURCHARGE | 1 | JOB | 134.00 | 134.00 | 0.00 | 134.00 |
| 372867 | DOT VEHICLE CHARGE | 3 | EA | 241,00 | 723.00 | 0.00 | 723.00 |
| 16093 | MSC PUMP CHARGE (1ST STAGE) | i | EA | 5,392.00 | 5,392.00 | 3,666.56 | 1,725.44 |
| | DEPTH | 4550 | | | | · | |
| | FEET/METERS (FT/M) | FT | | | | | |
| 16 | MSC ADDITIONAL STAGES | 1 | STG | 4,635.00 | 4,635.00 | 3,151.80 | 1,483.20 |
| | NUMBER OF UNITS | 1 | | | | | |
| 141 | RCM w/RA DENSOMETER | 1 | JOB | 1,990.00 | 1,990.00 | 1,353.20 | 636.80 |
| | NUMBER OF UNITS | 1 | ļ | | | | |
| 116 | BOOSTER PUMP-SKID,/DAY | 1 | EA | 1,362.00 | 1,362.00 | 926.16 | 435.84 |
| | NUMBER OF DAYS | 1 | | | | | |
| 74038 | PLUG CONTAINER RENTAL-IST DAY | 1 | EA | | 1,322.00 | 898.96 | 423.04 |
| | DAYS OR FRACTION (MIN1) | 1 | | | | | |
| 100001615 | FE-2 | 2 | LB | 11.92 | 23.84 | 17.40 | 6,44 |
| 452967 | CORROSACEM (TM) SYSTEM | 50 | SK | | 16,360.00 | 11,942.80 | 4,417.20 |
| 100001615 | FE-2 | 15 | LB | 11.92 | 178.80 | 130.52 | 48.28 |
| 452992 | ECONOCEM (TM) SYSTEM | 85 | SK | | 3,391.50 | 2,475.80 | 915.70 |
| 452986 | HALCEM (TM) SYSTEM | 50 | SK | | 2,087.50 | 1,523.88 | 563.62 |
| 76400 | MILEAGE,CMT MTLS DEL/RET | 25 | MI | 3,35 | 707.69 | 516.61 | 191.08 |
| | NUMBER OF TONS | 8.45 | [| | | | • |
| 3965 | SVC CHRG, CMT & ADDITIVES | 206 | CF | 5.49 | 1,130.94 | 825.59 | 305.35 |
| | NUMBER OF EACH | 1 | | | | | |
| | Total | USD | | | | | 40,215.77 |
| | Discount 68/73 | USD | | | | | 27,957,98 |
| | Discounted Total | USD | | | | | 12,257,79 |

Primary Plant: Hobbs, NM, USA Secondary Plant: Hobbs, NM, USA Price Book Ref: 09 Permian Basin Price Date: 3/31/2010

Conditions

NOTE

The cost in this analysis is good for the materials and/or services outlined within and shall be valid for 30 days from the date of this proposal. In order to meet your needs under this proposal with a high quality of service and responsive timing, Halliburton will be allocating limited resources and committing valuable equipment and materials to your area of operations. Accordingly, the discounts reflected in this proposal are available only for materials and services awarded on a first-call basis. Alternate pricing may apply in the event that Halliburton is awarded work on any basis other than as a first-call provider.

The unit prices stated in the proposal are based on our current published prices. The projected equipment, personnel, and material needs are only estimates based on information about the work presently available to us. At the time the work is actually performed, conditions then existing may require an increase or decrease in the equipment, personnel, and/or material needs. Charges will be based upon unit prices in effect at the time the work is performed and the amount of equipment, personnel, and/or material actually utilized in the work. Taxes, if any, are not included. Applicable taxes, if any, will be added to the actual invoice.

It is understood and agreed between the parties that with the exception of the subject discounts, all services performed and equipment and materials sold are provided subject to Halliburton's General Terms and Conditions contained in our current price list, (which include LIMITATION OF LIABILITY and WARRANTY provisions), and pursuant to the applicable Halliburton Work Order Contract (whether or not executed by you), unless a Master Service and/or Sales Contract applicable to the services, equipment, or materials supplied exists between your company and Halliburton, in which case the negotiated Master Contract shall govern the relationship between the parties. A copy of the latest version of our General Terms and Conditions is available from your Halliburton representative or at:

http://www.halliburton.com/terms for your convenient review, and we would appreciate receiving any questions you may have about them. Should your company be interested in negotiating a Master Contract with Halliburton, our Law Department would be pleased to work with you to finalize a mutually agreeable contract. In this connection, it is also understood and agreed that Customer will continue to execute Halliburton usual field work orders and/or tickets customarily required by Halliburton in connection with the furnishing of said services, equipment, and materials.

Any terms and conditions contained in purchase orders or other documents issued by the customer shall be of no effect except to confirm the type and quantity of services, equipment, and materials to be supplied to the customer.

If customer does not have an approved open account with Halliburton or a mutually executed written contract with Halliburton, which dictates payment terms different than those set forth in this clause, all sums due are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice.

Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

Date Revised: April 13, 2010 Customer Information
Prepared For: TARGA RESOURCES INC Field Name: Widcat
Well Number: Versado "AGI" #1
Location: Lea County, New Mexico
Attention of: Mr. W.A. Baker Direct Phone: 432-620-9181 E-Mail: wbaker@cambrianmgmt.com Formation Information
Zone Of Interest Number 1: 4500 Zone Service (Std,H2S,CO2): Acid Injection Perforations (MD): 4500' - 4950' Plug Back T.D. 4,950 Ft. BHT: 250° F BHP: 3500 Psi Completion Fluid: Treated Fresh Water N'ell Bare Information
Casing: 5.5" 17# J-55 (ID: 4.892"/ Drift: 4.767") @ 0-4500'
Open Hole: 4500-5000'
LS Upper Production Tubing: 2.875" 6.5# J-55 Duo-Lined EUE(ID: 2.441" / Drift: 2.347")
Completion Equipment
Job Description: Permanent Packer Packer Material: Incoly 725 Packer Elastomer: Aflas Seal Mandrel Material: Incoloy 725 Seal Elastomer: Aflas <u>Sales Information</u> HBD File Name 170058 Option Number; Version 6/ Option A Version Name: 170658V6A Submitted By: Mike Larpenter - 121949
Location: Houston, Texas Main Phone: (281) 988-2500 Direct Phone: (713) 420-5169
E-Mail: mike,larpenter@halliburton.com <u>Field Information</u>

Halliburton Service Contact: Steve Engleman - 104368

Halliburton Service Location: Odessa, Tx -Main Phone: (800) 844-8451 Direct Phone: (432) 580-2960 Fax: (432) 337-0751

Original Date Prepared: July 16, 2008

Permanent Packer

| | Prepared For: TARGA RESOURCES INC Field Name: Widcat Lease: Well Number: Versado "AGI" #1 Well Location: Lea County, New Mexico | | HBD File Name 170658 Version 6/ Option A 170658V6A | | |
|------------------|--|----------------|---|--------------|----------------------|
| SALIDAMA DA MADA | NOTANJENSKO PO POR POR POR SUDESCHIPTON SANJEROVSKO POR POR POR POR POR POR POR POR POR PO | E WIDO | rom (d | BUNGTHERA | POBETHEE! |
| | A Production Tubing, 2 7/8 6.5# Eue J-55 Duo-Lined W 2.44 ID | 2.440 | 2.875 | 244.00 | 0.00 |
| | 1 Safety Valve Assembly a X over Pup WiClp, 2 7/8"6.5# Eue x 2 7/8" 6.4# Vam-Top J-55 Duo-Lined Targa Resources | 2.441 | 3.660 | 6.00 | 244.00 |
| | b Halliburton "NE" Tubing Retrievable Safety Valve, 10,000# Pressure Rating, Equalizing Type, Nickel Alloy 725, "X" Profile, 2 7/8" Vam-Top Box x Pin Ref PN: (781HXE23224-U) (188825) | 2.336 | 4.650 | 4.00 | 250.00 |
| | c Xover Pup with Clp, 2 7/8°6.4# Vam-top x 2 7/8° 6.5# Eue J-55 Targa Resources d Control Line, .065° Wall. Incoloy 825, 1/4" x 400' (22SNS54040) (101309359) Customer Stock | 2.441 | 3.222 | 6.00 | 254.00 |
| | B Production Tubing, 27/8 6.5# Eue J-55 Duo-Lined W 2.44 ID | 2.440 | 2.875 | 4,140.00 | 260.00 |
| | 2 <u>Seal Assembty</u> a Loc J-Slot 2 7/8 API-Eue x 2 11/16 12UNS B-P 725 Material Ref:(213J30034-D) (188825) | 2.330 | 3.430 | 0.50 | 4,400.00 |
| 1 | b Seal Assy,3.00 X 2 11/16 12UNS (Bin makeup) 725 material Molded Aflas seal, Pressure ratingpsi | 2.330 | 3.000 | 1.33 | 4,400.50 |
| | Ref: (212MSA30000-D) (188825) Qly (2) c MS Guide, 211/16 12UNS 725 Material Ref: (212G30000-D)(188825) | 2.330 | 2.970 | 0.50 | 4,401.83 4,402.33 |
| | 3 Packer Assembly a Hallibutton "TWB" Perma-Series™ Packer 5 1/2" 14-20#,3.00, 2 7/8 Eure Pin 725 Material (AFLAS Elements) Pressure Rating 9,000psi REF:(212TWB5501-D)(188825) | 3.000 | 4.540 | 3.00 | 4,400.00 |
| | b Coulpling 2 7/8" 6.5# EueJ-55 Targa Resources | 2.440 | 3.660 | 0.44 | 4,403.00 |
| 2 | c Pup Joint, 27/8°6.5# Eue J-55 Duo-Lined Targa Resources d Landing Nipple 2.313 X 2 7/8" Eue BXP 725 Material | 2.440 | 2.875 4.545 | 6.00 1.50 | 4,403.44 4,409.44 |
| | Ref: (711X23319) (188825) 9 Pup Joint, 2 7/8"6.5# Eue J-55 Duo-Lined | 2.313 2.440 | 3.500 | 6.00 | 4,410.94 |
| 3 | Targa Resources f WL-Rentry Guide, 2 7/82" Eue 6.5# 725 Material | 2,970 | 3.700 | 0.50 | 4,416.94 |
| | Ref:(212M895) (188825) | | •• | | 4,417.44 |
| | | | | | कुवारज्य |

Proposed Completion Data Guide

Original Date Prepared: July 16, 2008 Date Revised: April 13, 2010

Permanent Packer

Prepared For: TARGA RESOURCES INC

Field Name: Widcat

Lease: Well Number: Versado "AGI" #1 Well Location: Lea County, New Mexico

HBD File Name 170658 Version 6/ Option A 170658V6A

OPSIGNITATION DEPORT OF STREET THAT WAS

Safety Valve Assembly Seal Assembly Packer Assembly

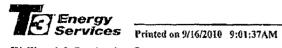
\$99,400.00 24,512.03 47,376.88

Personnel and Mileage: CPS-Retrievable Packer - BOM -20474 / Land Alternate Completion Serviceman (Land) - 8 Hr. Min. / Per Day (16328) 1,096.20 Completion Serviceman (Land) - Add'l, Hours, after 8 hr min (16328) 137.20 Serviceman Mileage - Per Mile/Round Trip, from nearest Halliburton camp (3327) 4.03 Fuel Surcharge - Per Mile (87098) 0.11 Use of Hydraulic Setting Tool - Per Packer - 5 Day (16320) 1,468.60 Assembly Make Up - Per Unit (21097) 1,108.80 Completion Assy. Test /Unit (18701) 378.00 Test Plug Use - Minimum charge (1 Day) (16323) 210.00 Environmental Clean-Up (2311) \$ 250.00 Max 100.00 Brass Ball (1,312") (93B108) (101014253) 244.30 Test Plug Use - (Add Day) (16323) 35.21 Steel Ball (.875") (93B4) (100006745) Control Line Test - Per Test (72113) 74.90 Hydraulic Hand Pump and Manifold - Use / First Day (3539) 132.30 Completion Tool Box - Per Job (3438) 281.40 Safety Valve Toolbox - Use / 3 Days (72118) Over 10K Valves 1,488.20 Nylon Tie Wraps (50761) 266.00 9/16-18UNF Autoclave Fitting with Anti-Vibration Gland (78Q6329) (101365964) 1,162.00 TRSV Fitting Kit - 374431 315.70 Buckles - Min. 1 Box (100 Each Buckles) (94S102) (101087308) 497.00 Bands per 1200 in. Roll (94S98) (101087320) 144.20

> Estimated Sub Suface Safety Total \$99,400,00 Estimated Packer and Seal Assembly Total \$ 71,888.91 Estimated Service and Rental Total \$ 9,071,41 Estimated Mercandise Total for Job 171,288.91

Note added Hours after 8 will be charged at 137.20 per hour

Note added Hours after 8 will be charged at 137.20 per hour And Mileage from Nearset Camp will be charged at 4.14 per mile round trip (Fuel Surcharge Included)



Quote Response Form

Estimate No. BE00000165 Warehouse ID: ODES - ODESSA

Wellhead & Production Systems

7311 Andrews Highway

Houston, TX

Odessa, TX 79765 Phone: 432-552-0695

Fax: 432-362-4363

Customer:

Customer Info:

Ship to:

Targa Midstream

Phone:

Thank you for the opportunity to quote your equipment needs. If you have any questions. Please call.

| Estimate Terms | Quote Date The Expirati | on Date Salesperson | Customer Currency |
|----------------|-------------------------|---------------------|-------------------|
| BE00000165 | 5/11/2010 | Fikea, Gerald | USD |
| | | | |

| Casing | Head Assem | bly | | | |
|--------|-------------|-----|--|----------------------------|----------------|
| Line | Quantity | UM | Item | Unit Price | Extended Price |
| 10 | 1,00 | EA | 20353625 CASING HEAD BODY, C-22, 11" 3K FLANGED TOP X 10-3 GROOVE) BTM, W/TWO 2" LPO OUTLETS, U, DD, PSL 1, | | 1,725.00 |
| 20 | 1.00 | EA | 20365450 NIPPLE, PIPE, 2" LP X 6" LONG XXH | 25.00 | 25.00 |
| 30 | 1.00 | EA | 20364831 Bull Plug, 2" LP, Solid, XXII | 25.00 | 25.00 |
| 40 | 1.00 | EΛ | 20391949 BALL VALVE, 3K, 2" LP, SE, NACE TRIM | 120.00 | 120,00 |
| 213 | 1,00 | EΛ | 20384272 COLLAR~CASING 10-3/4 SOW X 10-3/4 SOW J-55 | 395.00 | 395.00 |
| | | | Casing | Head Assembly Total: | 2,290.00 |
| Casing | Spool Assem | bly | | | |
| Line | Quantity | UM | liem | Unit Price | Extended Price |
| 201 | 1.00 | EA | 20365360 CASING SPOOL ASSEMBLY, C-22-BG, 11" 3K FLANGE BT TOP, W/TWO 2-1/16" 5K SSO OUTLETS, L-U, DD, PSL I, I | | 5,330.00 |
| 202 | 2.00 | EΛ | 20365431 BALJ. VALVE, 3K, 2" LP, SE, STANDARD TRIM | 120.00 | 240.00 |
| 203 | 2.00 | EΛ | 20365450 NIPPLE, PIPE, 2" LP X 6" LONG XXII | 25,00 | 50.00 |
| 204 | 1,00 | EΛ | 20391954 SECONDARY SEAL ASSEMBLY, BG-PE, 9" NOM X 7" ID, RUBBER, U, AA, PSL I, PR I | 700.00 W/PEROXIDE CURED | 700.00 |

Email: =jennings@t3energy.com

205 1.00

20365793

RING GASKET, R-53, \$316-4, OVAL, API 6A

EA

All Items Subject to Availability

Page 1 of 5

95.00

95.00

| nse rom | Quote Respo | gy | Ener | L |
|-------------------|---|------|-------------|--------|
| ate No. BE0000016 | | | J Servi | |
| 210.1 | 20366131 13.13 STUD ASSEMBLY, ALL-THREAD, 1.375-8UN-2A X 10.00 LONG, ASTM A193 GR B7 STUD, W/TWO ASTM A194 2H NUTS, BLACK | EA | 16.00 | 206 |
| 230,6 | 20366688 115.00 FLANGE COMPANION, BODY, 2-1/16" 5K X 2" LP, U, FF | EΛ | 2.00 | 207 |
| 70.0 | 20358839 35.00 RING GASKET, R-24, S316-4, OVAL, API 6A | EA | 2.00 | 208 |
| 1,000.0 | 20391952 I,000.00 CASING HANGER ASSEMBLY, C-21 SLIP, 11" C-21 BOWL, 7" OD CASING, W/PEROXIDE CURED RUBBER GOODS, U, AA, PSL 1, PR1 | EA | 1.00 | 209 |
| 7,925.0 | Casing Spool Assembly Total: | | | |
| | | ably | Spool Assem | Tubing |
| Extended Price | Item Unit Price | UM | Quantity | Line |
| 3,291,6 | 20365368 3,291.67 TUBING HEAD ASSEMBLY, TCM, 11" 3K FLANGE BTM X 7-1/16" 3K FLANGED TOP, W/TWO 2-1/16" 5K SSO OUTLETS, L-U, DD, PSL 1, PR1 | EA | 1.00 | 50 |
| 105.0 | 20358839 35.00 | EA | 3.00 | 60 |
| | RING GASKET, R-24, S316-4, OVAL, API 6A | | | |
| 75.0 | 20365472 75.00 VALVE REMOVAL PLUG, 1-1/2 LP | EΛ | 1.00 | 70 |
| 1,100.0 | 20366688 \$50.00 FLANGE COMPANION, BODY, 2-1/16" 5K X 2" LP, U, FF | EΛ | 2.00 | 80 |
| 2,400.0 | 2,400.00 GATE VALVE ASSEMBLY, JMP-W5, M, 2-1/16" 5K WEDGE FE HWO, L-U, FF, PSL 2, PR1 | EΛ | 1.00 | 90 |
| 25.0 | 20391950 25.00 BULL PLUG, 2" LP, SOLID, NICKEL PLATED | EΛ | 1.00 | 100 |
| 1,000.0 | 20391951 I,000.00 CASING HANGER ASSEMBLY, C-22 SLIP, 11" C-22 BOWL, 5-1/2" OD CASING, WPEROXIDE CURED RUBBER GOODS, U, AA, PSI, I, PRI | EΛ | 1.00 | 110 |
| 700.0 | 20391953 700.00 SECONDARY SEAL ASSEMBLY, BG-PE, 9" NOM X 5-1/2" ID, W/PEROXIDE CURED RUBBER, U, AA, PSL 1, PR 1 | EΛ | 1.00 | 120 |
| 95.0 | 20365793 95.00 RING GASKET, R-53, S316-4, OVAL, API 6A | EΛ | 1.00 | 130 |
| 210.0 | 20366131 13.13 STUD ASSEMBLY, ALL-THREAD, 1.375-8UN-2A X 10.00 LONG, ASTM A193 GR B7 STUD, W/ TWO ASTM A194 2H NUTS, BLACK | EA | 16.00 | 140 |
| 25.0 | 20391950 25.00 BULL PLUG, 2" LP, SOLID, NICKEL PLATED | EΛ | 1.00 | 211 |
| 9,026.7 | Tubing Spool Assembly Total: | | | |
| | | | embly | ree As |
| Extended Pric | Item Unit Price | UM | Quantity | Line |
| 16,780.00 | 20373199 16,780.00 TUBING HEAD ADAPTER ASSEMBLY, ASP, 7-1/16" 3K STUDDED BTM X 3-1/8" SK STUDDED, W/ ONE 1/4" CCL PORT, U, HH, PSL 2, PR1 | EΛ | 1.00 | 150 |

All Items Subject to Availability

Page 2 of 5

Email: zjennings@t3energy.com

| | i T Energy | Quo | te Respon | se Form |
|-----|---------------|---|--------------------|----------------|
| | Service | Printed on 9/16/2010 9:01:37AM | Estimate | No. BE00000165 |
| 160 | 2.00 E | 20376136 GATE VALVE, 3-1/8 ",5K, HPT, MANUAL ,R-35 FLG X FLG INCONWETTED SURFACES ,HH TRIM, API ,6A ,TEMP, CLASS, P+U, H2S PER NACE ,MR-01-75 C, /W HANDWHEEL (EEC DRAWING AL-012 | SERVICE | 72,000.00 |
| 170 | 3.00 E | • | 57.00 | 171.00 |
| 180 | 8.00 E | 20366128 STUD ASSEMBLY, ALL-THREAD, 1.125-8UN-2A X 8.50 LONG, AST B7 STUD, W/TWO ASTM A194 2H NUTS, BLACK | 6,67 FM A193 GR | 53.36 |
| 190 | 1.00 E. | 20362707 RING GASKET, R-45, S316-4, OVAL, API 6A | 80.00 | 80.00 |
| 200 | 1.00 E. | 20373406 TUBING HANGER ASSEMBLY, 7-1/16" BOWL X 3-1/2" EUE, W/ 3" I INCONEL, U, DD, PSL-2, PR1 | 26,760.00 IBPV | 26,760.00 |
| 212 | 1,00 E. | 20388385 CROSSOVER SUB BODY, 3-1/2 EUE MALE THREAD X 2-7/8 EUE F. THREAD, 718 INCONEL | 3,675.00 EMALE | 3,675.00 |
| | | Tree Ass | embly Total: | 119,519.36 |

NOTES:

- 1. All equipment is FOB T3 Energy, Inc. Houston, Texas USA.
- 2. Freight and crating expenses are not included as part of this quotation.
- 3. All pricing, as indicated in this quotation, is based on standard equipment deliveries; an expediting fee will be applied if the equipment is required prior to the date (s) indicated above.
- 4. T3 Energy will not be liable for penalties due to late deliveries that are not agreed upon and authorized by T3 Energy prior to acceptance of the purchase order.
- 5. This quotation is valid for your acceptance for a period of 30 days.
- 6. Disclaimer this is a general terms and conditions for the purpose of advancing to a commercial request.
- 7. Rental Rental is charged in complete days from shipment from the T3 Energy facility until returned to the T3 Energy facility. The renter is responsible for returning the equipment to original condition after use. This includes repair labor and parts as required.

| Section Summary: | Section Casing Head Assembly Total: | 2,290.00 |
|------------------|--------------------------------------|------------|
| | Section Casing Spool Assembly Total: | 7,925,08 |
| | Section Tubing Spool Assembly Total: | 9,026.75 |
| | Section Tree Assembly Total: | 119,519.36 |
| | Order Total: | 138,761,19 |



Quote Response Form

Estimate No. BE00000165

THANK YOU FOR THE OPPORTUNITY TO QUOTE YOUR EQUIPMENT NEEDS.

THIS QUOTE DOES NOT INCLUDE PRO-RATED FREIGHT, SERVICE, OR TAXES

IF YOU HAVE ANY QUESTION PLEASE CALL

TOMMY MILLER **BRANCH MANGER** 432-661-5810

TMILLER@T3ENERGY.COM

The estimated delivery schedule below is ARO and after T3 Energy's acceptance of the purchase order.

Casing Head Assembly - 6-8 weeks, ARO Tubing Spool Assembly - 6-8 weeks, ARO Tree Assembly - 6-8 weeks, ARO

> 138,761.19 Sale Amount: Sales Tax: Misc Charges: 0.00 Total Amount: . 138,761.19



Quote Response Form

Estimate No. BE00000165

Printed on 9/16/2010 9:01:37AM

Limited Warranty and Limitation of Liability

T3 Energy Services warrants the products it manufactures and/or remanufactures and the services it performs to be free from defects in materials and workmanship which materially and adversoly impact performance or safety under normal use and services for a period of:

- One year after initial installation, or 18 months from invoice date for manufactured or remanufactured products, whichever
 comes first;
- One year after the date services are provided (the "Work") as described in a T3 Energy Services service ticket or services invoice.

 Products found to be defective will be repaired or replaced, at T3 Energy Services option, in a timely fashion at no charge to the customer for such repair or replacement by T3 Energy Services.

TO Energy Services will not be responsible for product damage caused by the process service conditions or damage caused by customer misapplication or improper maintenance. To Energy Services also shall not be responsible for normal wear and tear.

T3 Energy Services warrants that the services when performed will be of good quality, will be free from defects in material and workmanship, shall have been properly performed in accordance with applicable industry standards and, and shall be in accordance with any written specifications which were provided by the enstoner to T3 Energy Services and accepted by T3 Energy Services prior to the communication of the Work. If customer notifies T3 Energy Services within 12 months after the date of service that it has discovered that any portion of the Work does not conform to the foregoing warranty T3 Energy Services shall, at its option:

- · promptly repair any such non-conforming work, or
- promptly replace any such non-conforming work, or
- provide customer with a refund or any equitable portion of the price paid for the work after an allowance for reasonable wear and tear.

The personnance by T3 Energy Services of the repair or replacement Work or the equitable refund, described in the previous paragraph shall constitute customer's sole remedy for any descet in the Work. T3 ENERGY SERVICES HEREBY EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE.

If customer fails to properly operate and maintain the product in accordance with the instructions of T3 Energy Services, or the original equipment supplier or manufacturer, as applicable, or if customer otherwise fails to adhere to applicable inclusive standards in operating and maintaining the product, customer's failure shall void the foregoing warranty.

In the event T3 Energy Services does not receive payment as agreed, T3 Energy Services may impose a 1.5% per month finance charge to any unpaid past due balance on all open accounts.

In no event shall any TJ Energy Services or any of its respective affiliates be lieble for any loss of use, revenue, or anticipatory profit, or for any direct, indirect, or incidental or consequential damages arising out of, or connected with, any portion of the Work.

The foregoing is the only obligation of T3 Energy Services with respect to the Werk and customer's exclusive remedy for breach of warranty, and is customer's exclusive remedy bereunder by way of breach of contract, tert, strict liability or otherwise.

Any action or breach of this limited warranty or otherwise with respect to the Work must be commenced one (1) year after the course of action has accused.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS WITHOUT REGARD TO ANY PRINCIPLES OF TEXAS LAW WHICH WOULD REQUIRE THE APPLICATION OF THE LAW OF ANOTHER JURISDICTION.

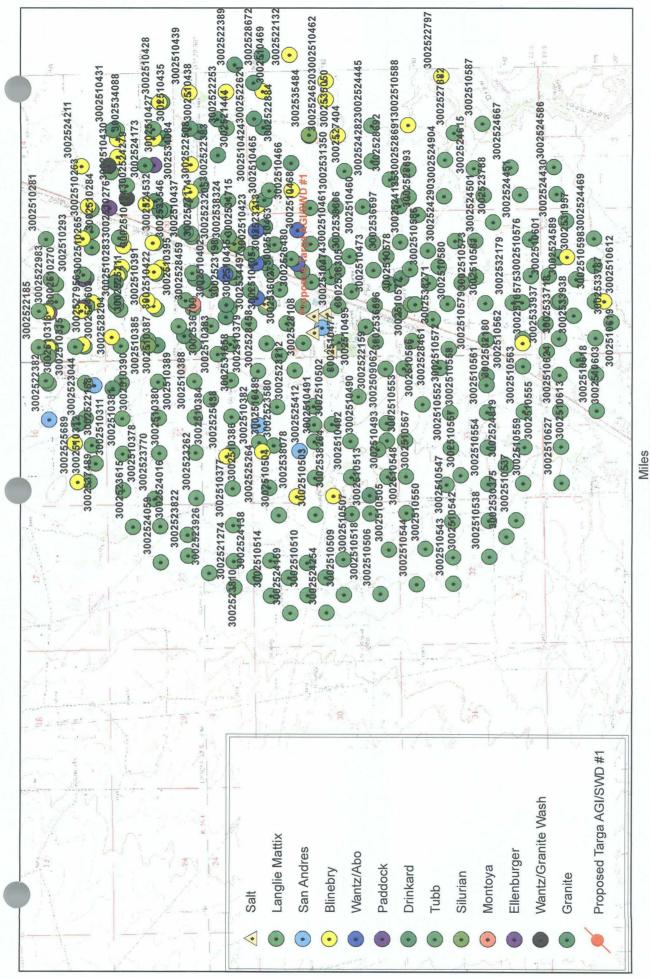
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| | ** · |
| Confirming Signature | Date |
| | |

APPENDIX C

MAP AND TABLE OF ALL WELLS WITHIN TWO MILES OF PROPOSED TARGA AGI/SWD #1

PLUGGING DIAGRAMS, WELL RECORDS, AND DOCUMENTATION FOR WELLS WITHIN ONE MILE OF PROPOSED TARGA AGI/SWD #1

SUMMARY OF WELLS WITHIN TWO MILES OF PROPOSED TARGA AGI/SWD #1



0.5

INCORPORATED

Figure C1: Locations of All Wells Within Two Miles of Proposed Targa AGI/SWD #1

7 -

| 3002521497 TA | TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 37E | 27 22.05 | 3962 | EUINCE GAS PLANT SWD 001 | S | Active | 0.00 San Andres |
|------------------------|--|---------|----------|-------|---|-----|-----------|---------------------|
| | TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 37E | 27 22.05 | 2095 | J V BAKER (LPG-STORAGE) 001 | Σ | Plugged | 0.08 Salt |
| | TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 37E | 27 22.05 | 2075 | SKELLY GASOLINE PLANT 004 | | Plugged | |
| 3002513230 TA | TARGA MIDSTREAM SERVICES LIMITED PARTNERSHIP | 37E | 27 22.05 | 2064 | 2064 J V BAKER (LPG-STORAGE) 003 | Σ | Plugged | 0.10 Salt |
| | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3665 | LANGLIE MATTIX PENROSE SAND UNIT 221 | - | Active | 0.15 Langlie Mattix |
| 3002510480 LEG | LEGACY RESERVES OPERALING, LP TABGA MIDSTREAM SERVICES LIMITED DARTNERSHIP | 37E | 27 22.05 | 3610 | LANGLIE MALLIX PENROSE SAND UNIT 134 | 0 2 | Active | 0.17 Calt |
| 002510477 | GACY RESERVES OPERATING LP | 37E | 27 22.05 | 3640 | LANGLIF MATTIX PENROSE SAND UNIT 222 | C | Active | 0.19 Langlie Mattix |
| 3002510481 LEG | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3620 | LANGLIE MATTIX PENROSE SAND UNIT 135 | _ | Plugged | |
| 3002536699 LEG | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3790 | LANGLIE MATTIX PENROSE SAND UNIT 314 | 0 | Active | |
| 3002510495 LEG | LEGACY RESERVES OPERATING, LP | 37E | 28 22.05 | 3684 | LANGLIE MATTIX PENROSE SAND UNIT 241 | 0 | Active | |
| 3002538329 LEG | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3835 | LANGLIE MATTIX PENROSE SAND UNIT 604 | 0 0 | Active | 0.30 Langlie Mattix |
| 3002338273 LEG | LEGACY RESERVES OPERATING, LF | 37F | 27 22 03 | 3875 | LANGLIF MATTIX PENROSE SAND UNIT 602 | 0 0 | Active | 0.32 Langlie Mattix |
| | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3805 | LANGLIE MATTIX PENROSE SAND UNIT 316 | 0 | Active | 0.35 Langlie Mattix |
| 3002510499 LEG | LEGACY RESERVES OPERATING, LP | 37E | 28 22.05 | 4075 | | _ | Active | 0.35 Langlie Mattix |
| 3002521455 AN | ANADARKO PETROLEUM CORP | 37E | 27 22.05 | 3692 | LANGLIE MATTIX PENROSE SAND UNIT 005 | _ | Plugged | 0.35 Langlie Mattix |
| 3002509062 LEG | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3670 | 3670 LANGLIE MATTIX PENROSE SAND UNIT 211 | 0 | Active | 0.38 Langlie Mattix |
| 3002528108 LEC | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3730 | 3730 LANGLIE MATTIX PENROSE SAND UNIT 310 | 0 | Active | 0.39 Langlie Mattix |
| 3002510470 LEC | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3405 | 3405 LANGLIE MATTIX PENROSE SAND UNIT 212 | _ | Active | 0.39 Langlie Mattix |
| 3002510478 LEG | LEGACY RESERVES OPERATING, LP | 3/E | 27 22.05 | 3236 | LANGLIE MATTIX PENROSE SAND UNIT 132 | | Active | 0.39 Langlie Mattix |
| | ANADARKO BETROLELIM CORP | 37E | 27 22.03 | 3676 | LANGLIE MATTIX PENROSE SAND UNIT 139 | 0 0 | Plugged | 0.40 Langlie Mattix |
| | ANADARKO PETROLELIM CORP | 37E | 27 22 02 | 3600 | 3600 LANGLE MATTIX DENBOSE SAND LINIT OD3 | 0 | Pligged | 0.41 Janglie Mattix |
| | LEGACY RESERVES OPERATING. LP | 37E | 27 22.05 | 3610 | 3610 LANGLIE MATTIX PENROSE SAND UNIT 136 | 0 | Active | 0.41 Langlie Mattix |
| 002528458 AN | 3002528458 ANADARKO PETROLEUM CORP | 37E | 27 22.05 | 2469 | 2469 LANGLIE MATTIX PENROSE SAND UNIT 001 | Σ | Active | 0.44 Salt |
| 3002538305 LEG | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3825 | 3825 LANGLIE MATTIX PENROSE SAND UNIT 196 | 0 | Active | 0.44 Langlie Mattix |
| 3002536825 BU | BURLESON PETROLEUM, INC | 37E | 27 22.05 | 11112 | 11112 SANTA RITA 002 | 0 | Active | 0.47 Wantz/Abo |
| 3002536482 BU | BURLESON PETROLEUM, INC | 37E | 27 22.05 | 7200 | SANTA RITA 012 | 0 | Active | 0.49 Wantz/Abo |
| | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3800 | LANGLIE MATTIX PENROSE SAND UNIT 313 | 0 | Active | |
| | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 6655 | LANGLIE MATTIX PENROSE SAND UNIT 137 | _ (| Active | 0.52 Langlie Mattix |
| 3002538328 LEG | LEGACY RESERVES OPERATING ID | 3/E | 20 27 00 | 2500 | LANGLIE MATTIV DENDOSE SAND UNIT 321 | 0 0 | Active | 0.52 Langlie Mattix |
| 3002518488 LEG | LEGACY RESERVES OPERATING IP | 37F | | 3825 | I ANGLIE MATTIX PENROSE SAND LINIT 204 | 0 0 | Active | 0.53 Janglie Mattix |
| | LEGACY RESERVES OPERATING, LP | 37E | 28 22.05 | 3688 | LANGLIE MATTIX PENROSE SAND UNIT 251 | 0 | Active | |
| | LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3651 | LANGLIE MATTIX PENROSE SAND UNIT 201 | 0 | Active | 0.53 Langlie Mattix |
| | ANADARKO PETROLEUM CORP | 37E | 28 22.05 | 3685 | LANGLIE MATTIX PENROSE SAND UNIT 244 | _ | Plugged | 0.54 Langlie Mattix |
| | LEGACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3815 | 3815 LANGLIE MATTIX PENROSE SAND UNIT 600 | 0 | Active | 0.54 Langlie Mattix |
| 3002523617 LEC | | 37E | 28 22.05 | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 262 | 0 | Active | |
| 002528460 LE | 3002528460 LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3702 | LANGLIE MATTIX PENROSE SAND UNIT 312 | 0 | Active | |
| 3002536696 LEC | 3002536696 LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3820 | LANGLIE MATTIX PENROSE SAND UNIT 202 | 0 - | Active | 0.55 Langlie Mattix |
| 002510475 LE | SOCESION LEGACY DESCRIVES OPENATING, IT | 375 | 27 22.03 | 3647 | LANGIE MATTIY DENIDOSE CAND UNIT 193 | | Active | |
| 3002510486 YAI | ARBROUGH OIL LP | 37E | 27 22.05 | 6429 | J V BAKER 011 | 0 | Plugged | |
| 002510569 AN | 3002510569 ANADARKO PETROLEUM CORP | 37E | 34 22.05 | 3664 | LANGLIE MATTIX PENROSE SAND UNIT 003 | _ | Plugged | 0.62 Langlie Mattix |
| 3002510556 LEG | LEGACY RESERVES OPERATING, LP | 37E | 33 22.05 | 3674 | LANGLIE MATTIX PENROSE SAND UNIT 351 | 0 | Active | 0.63 Langlie Mattix |
| 002523212 AN | 3002523212 ANADARKO PETROLEUM CORP | 37E | 28 22.05 | 3698 | LANGLIE MATTIX PENROSE SAND UNIT 003 | _ | Plugged | 0.63 Langlie Mattix |
| 002510570 AN | 3002510570 ANADARKO PETROLEUM CORP | 37E | 34 22.05 | 3660 | LANGLIE MATTIX PENROSE SAND UNIT 004 | 0 | Plugged | 0.63 Langlie Mattix |
| 3002536027 BU | BURLESON PETROLEUM, INC | 37E | 27 22.05 | 7218 | 7218 SANTA RITA 011 | 0 | Active | 0.63 Wantz/Abo |
| 002510401 LE | 3002510401 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3592 | LANGLIE MATTIX PENROSE SAND UNIT 523 | 0 | Active | 0.64 Langlie Mattix |
| 3002510568 ELI | ELDER & WILLINGHAM | 37E | 34 22.05 | 0 | T O MAY 001 | 0 | Plugged | 0.64 Drinkard |
| 002510414 LEC | 3002510414 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3690 | 3690 LANGLIE MATTIX PENROSE SAND UNIT 131 | - | Active | |
| 002521810 LE | 3002521810 LEGACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3717 | LANGLIE MATTIX PENROSE SAND UNIT 218 | 0 | Active | 0.66 Langlie Mattix |
| 002536697 LE | 3002536697 LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3820 | LANGLIE MATTIX PENROSE SAND UNIT 203 | 0 0 | Active | |
| 002510484 LE | 3002510484 LEGACY RESERVES OPERALING, LP | 3/E | 27 22.05 | 3515 | 3515 LANGLIE MAITIX PENKOSE SAND UNIT 138 | 0 | Active | 0.66 Langile Mattix |
| 302537387 BU | 300253/387 BURLESON PETROLEUM, INC | 3/E | 22 22.05 | 077/ | 7220 SANIA RITA 003 | 0 0 | Active | U.56 DRINKARD |
| 002530525 LE | 3002510497 FGACY RESERVES OPERATING IP | 37F | | 3675 | 3675 I ANGLIE MATTIX PENROSE SAND LINIT 243 | 0 | Active | 0.67 Langlie Mattix |
| 002510502 AN | 3002510502 ANADARKO PETROLEUM CORP | 37E | | 3685 | LANGLIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | 0.67 Langlie Mattix |
| 302510415 BU | 3002510415 BURLESON PETROLEUM, INC | 37E | | 6450 | J V BAKER 009 | 0 | Active | 0.67 DRINKARD |
| 302510473 LEC | 3002510473 LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 3651 | LANGLIE MATTIX PENROSE SAND UNIT 192 | _ | Active | |
| 3002523771 LEG | LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 141 | 0 | Active | |
| 3002526480 OXY USA INC | Y USA INC | 37E | 27 22.05 | 7200 | 7200 LAURA J MAY 001 | 0 0 | Active | |
| 002528088 LE | 3002528088 LEGACY RESERVES OPERATING, LP | 37E | 27 22.05 | 36.48 | 3/15 LANGLIE MATTIX PENROSE SAND UNIT 511 | o _ | Active | 0.70 Langlie Mattix |
| 3002510577 LEG | 3ACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 361 | _ | Active | |
| 3002538327 LEC | LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3835 | LANGLIE MATTIX PENROSE SAND UNIT 525 | 0 | Active | 0.74 Langlie Mattix |
| 3002510421 W I | W H STREET | 37E | 22 22.05 | 0 | W B FARRELL 001 | 0 | Plugged | 0.74 Langlie Mattix |
| 3002531659 LEC | LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3790 | | 0 | Active | |
| 3002534497 EN | CORF FNERGY PARTNERS OPERATING LLC | 37E | 22 22.05 | 7360 | SARAH JOHNSTON 001 | 0 | Active | |
| | | - 10.00 | | | | | A safe in | |

| 3002510496 LEGACY RESERVES OPERATING, LP | 3/E | 20.22.03 | The second secon | 3030 LANGELE MALLIA FEMILISE SAIND ONLL 242 | | | | |
|--|------------|-------------|--|--|-----|---------|--|---|
| 3002528126 LEGACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3712 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 366 | 0 | Active | 0.79 Langlie Mattix | attix |
| 3002510578 LEGACY RESERVES OPERALING, LP | 3/E | 34 22.05 | 3692 LANG | LANGLIE MATTIX PENROSE SAND UNIT 362 | 0 | Active | 0.80 Langlie Mattix | attıx |
| _ | 37E | 28 22.05 | | CHRISTMAS 003 | S | Active | 0.80 San Andres | S |
| 3002536701 LEGACY RESERVES OPERATING, LP | 37E | | 3790 LANG | LANGLIE MATTIX PENROSE SAND UNIT 047 | 0 | Active | 0.80 Langlie Mattix | attix |
| 3002510490 LEGACY RESERVES OPERATING, LP | 37E | 28 22.05 | 3690 LANG | LANGLIE MATTIX PENROSE SAND UNIT 282 | 0 0 | Active | 0.81 Langlie Mattix | attix |
| 3002510405 OLEAN PETROLEUM CORP | 37E | 22 22.05 | O W B F | W B FABRELL 002 | 0 0 | Plugged | 0.81 Lanelie Mattix | attix |
| 3002534715 ENCORE ENERGY PARTNERS OPERATING LLC | 37E | 22 22.05 | 7425 HSOG 002 | 002 | 0 | Active | 0.83 Silurian | |
| 3002510464 LEGACY RESERVES OPERATING, LP | 37E | 26 22.05 | 3669 LANG | LANGLIE MATTIX PENROSE SAND UNIT 172 | 0 | Active | 0.83 Langlie Mattix | attix |
| 3002510461 LEGACY RESERVES OPERATING, LP | 37E | 26 22.05 | 3646 LANG | LANGLIE MATTIX PENROSE SAND UNIT 182 | - | Plugged | 0.84 Langlie Mattix | attix |
| 3002510565 ANADARKO PETROLEUM CORP | 3/E | 33 22.05 | 3/10 LANG | A I CHRISTMAS OOT | _ 0 | Plugged | 0.85 Langlie Mattix | attix |
| 3002510566 LEGACY RESERVES OPERATING, LP | 37E | 33 22.05 | 3688 LANG | LANGLIE MATTIX PENROSE SAND UNIT 353 | 0 - | Plugged | 0.87 Langlie Mattix | attix |
| | 37E | 22 22.05 | 7475 SARAH | SARAH JOHNSTON 002 | 0 | Active | 0.87 DRINKARD | 0 |
| 3002508968 LEGACY RESERVES OPERATING, LP | 37E | 21 22.05 | 3644 LANG | LANGLIE MATTIX PENROSE SAND UNIT 522 | 0 | Active | 0.87 Langlie Mattix | attix |
| 3002510571 ANADARKO PETROLEUM CORP | 37E | 34 22.05 | 3448 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 007 | - | Plugged | 0.88 Langlie Mattix | attix |
| 3002536212 ANADARKO PETROLEUM CORP 300253580 LEGACY RESERVES OPERATING LD | 37E 37E | 34 22.05 | 3665 LANG | LANGLIE MATTIX PENRO 005 | 0 0 | Plugged | 0.88 Langlie Mattix | attix |
| EGACY RESERVES OPERATING. | 37E | 34 22.03 | 3639 I ANG | LANGLE MATTIX PENROSE SAND UNIT 215 | 0 0 | Active | 0.88 Tanglie Mattix | attix |
| 3002510460 ANADARKO PETROLEUM CORP | 37E | 26 22.05 | 3360 LANG | LANGLIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | 0.88 Langlie Mattix | attix |
| 3002510406 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3555 LANG | LANGLIE MATTIX PENROSE SAND UNIT 041 | _ | Active | 0.89 Langlie Mattix | attix |
| | 37E | 22 22.05 | 3685 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 042 | 0 | Active | 0.89 Langlie Mattix | attix |
| | 37E | 28 22.05 | 3412 LANG | LANGLIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | 0.90 Langlie Mattix | attix |
| 3002510411 JOHN H HENDRIX CORP | 37E | 22 22.05 | 7130 WILL C | WILL CARY 006 | 0 0 | Active | 0.90 Montoya | 1 |
| | 37F | 27 27 05 | 3708 LANGI | LIE MATTIX PENROSE SAND JINIT 152 | - | Active | O 90 Janglie Mattiv | attiv |
| | 37E | 34 22.05 | 3800 LANGI | DO LANGLIE MATTIX PENROSE SAND UNIT 368 | . 0 | Active | 0.90 Langlie Mattix | attix |
| _ | 37E | 28 22.05 | 6797 LANGE | LIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | | attix |
| 3002531658 LEGACY RESERVES OPERATING, LP | 37E | 21 22.05 | 3800 LANGI | LIE MATTIX PENROSE SAND UNIT 105 | 0 | Active | 0.91 Langlie Mattix | attix |
| 3002538324 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3840 LANG | LIE MATTIX PENROSE SAND UNIT 154 | 0 | Active | | attix |
| 3002522654 ANADARKO PETROLEUM CORP | 37E | 28 22.05 | 3700 LANGI | LIE MATTIX PENROSE SAND UNIT 287 | _ | Plugged | 0.93 Langlie Mattix | attix |
| | 37E | 20.22.02 | 2 1 1 W 0 0 2 2 | W B FARRELL 003 | 0 | Plugged | 0.93 Drinkard | |
| 3002510383 LEGACY RESERVES OPERATING: IP | 37E | 21 22.05 | 3625 LANGI | LANGLIF MATTIX PENROSE SAND LINIT 101 | 0 0 | Active | 0.95 Langlie Mattix | attix |
| 3002525264 CHEVRON U S A INC | 37E | 28 22.05 | | MANDA B TR C 001 | 0 | Plugged | | |
| 3002538320 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3845 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 048 | 0 | Active | 0.95 Langlie Mattix | attix |
| 3002534808 JOHN H HENDRIX CORP | 37E | | | SHIRLEY BOYD 001 | 0 | Active | 0.95 Blinebry | |
| 3002510416 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3685 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 142 | _ | Active | 0.96 Langlie Mattix | attix |
| 3002510553 ANADARKO PETROLEUM CORP | 3/E | 33 22.05 | 3680 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 002 | 0 0 | Plugged | 0.96 Langlie Mattix | attix |
| 0 0 | 37F | 26 22.03 | | BAKER A 001 | 0 0 | Plugged | 0.97 Urinkard | |
| - | 37E | 22 22.05 | 3795 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 046 | 0 | Active | | attix |
| 3002510586 SHELL OIL CO | 37E | 35 22.05 | MOTO | T O MAY 001 | 0 | Plugged | 0.99 Langlie Mattix | attix |
| 3002510579 ANADARKO PETROLEUM CORP | 37E | 34 22.05 | 3655 LANG | LANGLIE MATTIX PENROSE SAND UNIT 003 | 0 | Plugged | 1.00 Langlie Mattix | attix |
| 3002523213 LEGACY RESERVES OPERATING, LP | 37E | 26 22.05 | 3700 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 171 | _ | Plugged | 1.02 Langlie Mattix | attix |
| 3002528693 LEGACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3721 LANG | LANGLIE MATTIX PENROSE SAND UNIT 367 | _ | Plugged | 1.02 Langlie Mattix | attix |
| 3002510494 LEGACY RESERVES OPERATING, LP | 37E | 28 22.05 | 3680 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 286 | 0 . | Active | 1.04 Langlie Mattix | attix |
| 3002510492 ANADARKO PETROLEUM CORP | 3/E | 20 27 27 05 | LANG | LANGLIE MACTIN PENROSE SAND UNIT 241 | _ (| Plugged | 1.05 Langlie Mattix | attix |
| 3002510338 LEGACI RESERVES OFERALING, LF | 37E | 23 22.03 | 3670 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 341 | 0 _ | Plinged | 1.06 Langlie Mattix | attiv |
| 3002510388 LEGACY RESERVES OPERATING. LP | 37E | 21 22.05 | 3620 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 103 | - | Active | 1.07 Langlie Mattix | attix |
| 3002524135 LEGACY RESERVES OPERATING, LP | 37E | 35 22.05 | 3740 METE | 3740 METEX SUPPLY A 001 | . 0 | Active | 1.08 Langlie Mattix | attix |
| 3002510404 ANADARKO PETROLEUM CORP | 37E | 22 22.05 | 0 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 001 | 0 | Plugged | 1.09 Langlie Mattix | attix |
| 3002510580 LEGACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3693 LANGI | LANGLIE MATTIX PENROSE SAND UNIT 364 | _ | Active | 1.09 Langlie Mattix | attix |
| 3002510423 LEGACY RESERVES OPERATING, LP | 37E | 23 22.05 | 6450 LANG | LANGLIE MATTIX PENROSE SAND UNIT 161 | 0 | Active | 1.09 Langlie Mattix | attix |
| 3002527404 LEGACY RESERVES OPERATING, LP | 37E | 26 22.05 | 3797 M W COLL 004 | COLL 004 | 0 | Active | 1.10 Langlie Mattix | attix |
| 3002523438 OAT USA INC. | 3/E | 27 22.05 | 5703 LANGLE NAV | 6 / UNIANDA UOI | 0 0 | Active | 1.10 Blinebry | 21442 |
| | 37F | 34 22 05 | S/33 LANG | DI LANGLIE MATTIX DENROSE SAND UNIT 153 | 0 - | Plugged | 1.11 Langlie Mattix | attix |
| 3002510493 LEGACY RESERVES OPERATING. IP | 37E | 28 22.05 | 3680 LANG | 3680 I ANGLIE MATTIX PENROSE SAND UNIT A 285 | . 0 | Plugged | 1.12 Langlie Mattix | attix |
| | 37E | 34 22.05 | 3670 SKELLY | SKELLY PENROSE A UNIT 002 | - | Plugged | 1.12 Langlie Mattix | attix |
| 3002528692 LEGACY RESERVES OPERATING, LP | 37E | 26 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 183 | _ | Plugged | 1.13 Langlie Mattix | attix |
| | 37E | 34 22.05 | 3645 SKELL) | SKELLY PENROSE A UNIT 001 | 0 | Active | 1.13 Langlie Mattix | attix |
| 3002510409 JOHN H HENDRIX CORP | 37E | 22 22.05 | WILL (| WILL CARY 004 | 0 - | Active | 1.13 DRINKARD | |
| 3002510402 ELCACT RESERVES OFFRATING IIC | 37F | 22 22.03 | 7940 HSOG 001 | 3480 LANGLIE MALTIX FENNOSE SAND UNIT 043 | - 0 | Active | 1.14 Langlie Mattix | attix |
| | 37E | 26 22.05 | O BAKER | BAKER A 006 | 0 | Plugged | | |
| | 37E | | MILLO | WILL CARY 007 | 0 | Plugged | 1.16 Blinebry | |
| 3002510501 LEGACY RESERVES OPERATING, LP | 37E | 28 22.05 | 3725 LANGL | 25 LANGLIE MATTIX PENROSE SAND UNIT 381 | _ (| Active | 1.16 Langlie Mattix | attix |
| 3002538264 RANGE OPERALING NEW MEXICO LLC | 3/5 | 22 22 05 | 7.103 CFINS | IMAS 28 UUZ | 0 | Active | 1.17 Blinebry | 17 |
| | | | A STATE OF | V DENDERS ATTIVITIES | | Activo | and other state of the state of | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |

| Accordations of the Principle of the P | 3002510567 LEGACY RESERVES OPERATING, LP | 3/E | 33 22.03 | | | | | |
|--|--|------|-------------|------|---------------------------------------|--------------|---------|---------------------|
| 177 21 20 20 700 HOUSEN ON THE PROPRESS SHOUGHT 22 0 America 11 20 20 277 21 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 11 20 20 278 27 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 11 20 20 278 27 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 20 300 HOUSEN ADDITION THE PROPRESS SHOUGHT 22 0 America 12 20 20 278 27 20 20 20 20 20 20 20 AMERICA SHOUGHT 22 0 America 12 20 20 12 20 20 12 20 20 27 | 02538078 RANGE OPERATING NEW MEXICO LLC | 376 | 28 22.05 | 7080 | CHRISTIMAS 28 001 | <u>-</u> | Active | 1.18 Sanebry |
| 1977 31 2.26 300 JAMERIA MATTIK PRIMOSE SHOU UNIT TO 3 0 Arthur CHANGE 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 02524033 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3710 | LANGLIE MATTIX PENROSE SAND UNIT 044 | ٥ | Active | 1.19 Langlie Mattix |
| | 02532180 CHEVRON U S A INC | 37E | 33 22.05 | 7005 | H O SIMS A 002 | 9 | TA | 1.19 Tubb |
| 17 21 205 200 20 | 02510417 LEGACY RESERVES OPERATING, LP | 37E | 22 22.05 | 3692 | LANGLIE MATTIX PENROSE SAND UNIT 032 | 0 | Active | |
| 11 | 02523724 JOHN H HENDRIX CORP | 37E | 22 22.05 | Care | WILL CARY 009 | 0 | Plugged | |
| 17. | 02524282 LEGACI RESERVES OFCHAING, LF | 375 | 28 22 05 | 3/30 | | | Active | |
| 1200 | 02538820 FAMOL OFFICE HEALTON & PRODUCTION INC | 37F | 26 22.03 | 0 | | 0 | Plugged | |
| Particularies (1996) 2011 2012 2012 2013 | 02510573 ANADARKO PETROLEUM CORP | 37E | 34 22.05 | 3680 | LANGLIE MATTIX PENROSE SAND UNIT 004 | 0 | Plugged | 1.21 Langlie Mattix |
| Section 1971 1971 1972 | 02510410 JOHN H HENDRIX CORP | 37E | 22 22.05 | 8086 | WILL CARY 005 | ₀ | Active | |
| Colorado 177 17.12 17. | 02510394 APACHE CORP | 37E | 22 22.05 | 6441 | EUGENE WOOD 009 | ٥ | Active | 1.21 Blinebry |
| Colorado 2015 201 | 02510552 LEGACY RESERVES OPERATING, LP | 376 | 33 22.05 | 3691 | LANGLIE MATTIX PENROSE SAND UNIT 331 | - 0 | Plugged | 1.21 Langlie Mattix |
| Accordance 17. 20. 2.1255 2.205 2. | 02510384 IEGACT RESERVES OFFICE IN | 375 | 25 27 05 | 2020 | METER SUBDIV A 002 | 0 | Plugged | 1.22 Lengue Mattix |
| A | 02524233 ANDORRES FLINGLED CONT. | 375 | 35 22 05 | 3800 | METEX SUPPLY A 004 | 0 | Active | 1.24 Langlie Mattix |
| Activity | 02510432 WOLFSON OIL CO | 37.6 | 23 22.05 | 0 | BOYD 001 | 0 | Plugged | 1.25 Langlie Mattix |
| The colon-book | 02510386 LEGACY RESERVES OPERATING, LP | 37E | 21 22.05 | 3665 | LANGLIE MATTIX PENROSE SAND UNIT 111 | 0 | Active | |
| ACTION 17 12 12 12 12 12 12 12 | 02510561 CIMAREX ENERGY CO. OF COLORADO | 37E | 33 22.05 | 3705 | SKELLY PENROSE A UNIT 004 | _ | TA | 1.27 Langlie Mattix |
| The Coordination of the | | 37E | 22 22.05 | 3447 | LANGLIE MATTIX PENROSE SAND UNIT 031 | - | Active | |
| 100 | | 37E | 21 22.05 | 3610 | LANGUE MATTIX PENROSE SAND UNIT 072 | ٥. | Active | |
| 17. 12.20 17. 17 | | 3/E | 23 22.05 | 0000 | LANGUE MATTIX PENDOSE SAND UNIT DO | - - | Plugged | 1.25 Langue Mattix |
| Trigo Lib | 02510395 APACHE CORP | 37E | 22 22.05 | 7670 | EUGENE WOOD 010 | . 0 | Active | 1.30 Blinebry |
| FORTING P. Page 12.05 Sago JANGEL MATTIN PENDOS SAND UNIT 291 Active 1.33 COORDINATO 1 Plagged 1.33 | 3002523205 JOHN H HENDRIX CORP | 37E | 23 22.05 | 7709 | KAROLES 001 | 0 | Active | 1.30 Blinebry |
| FEB. CORRINGO 2017 20 2026 2026 2014 2014 2015 | 3002510518 LEGACY RESERVES OPERATING, LP | 37E | 29 22.05 | 3680 | LANGLIE MATTIX PENROSE SAND UNIT 291 | 0 | Active | 1.30 Langlie Mattix |
| The Corporation 17 19 12 19 19 19 19 19 19 | 02532179 CIMAREX ENERGY CO. OF COLORADO | 37E | 34 22.05 | 5800 | SKELLY PENROSE A UNIT 071 | ي | Active | 1.32 Langlie Mattix |
| Fig. 60 Fig. 70 Fig. | | 37E | 29 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 001 | _ | Plugged | 1.33 Langlie Mattix |
| FIRS OFFERTING ILC 377 | | 37E | 29 22.05 | 3690 | LANGLIE MATTIX PENROSE SAND UNIT 293 | 0 0 | Active | 1.33 Langle Mattix |
| 17. 20, 20.0 7. 20, 20.0 7. 20, 20.0 7. 20, 20, 20.0 7. 20, 20.0 20, 20, 20.0 20, 20, 20, 20.0 20, 20, 20, 20.0 20, 20, 20, 20.0 20, 20, 20, 20.0 20, 20, 20, 20, 20, 20, 20, 20, 20, 20, | | 37E | 26 22.05 | 9999 | BAKER C 002 | 0 | Plugged | 1 34 Blinebox |
| 17 21,206 270 21,206 270 | NOS SEASA ENCORE DEPOSIT PARTITION OF CONTINUE LEC | 375 | 26 22 05 | 7465 | SHIRLEY BOYD 002 | 0 | Active | 1.34 Silurian |
| 37F 24 2.05 SHELLY PERMOSE A UNIT TO Plugged 1.33 | XX2510433 ANADARKO PETROLEUM CORP | 37E | 23 22.05 | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 021 | | Plugged | 1.35 Langlie Mattix |
| 21 21 21 25 25 25 25 25 | OZ510584 APACHE CORP | 37E | 34 22.05 | 3666 | SKELLY PENROSE A UNIT 011 | ٥ | Plugged | 1.37 Langlie Mattix |
| 200 | XO2510437 JOHN H HENDRIX CORP | 37E | 23 22.05 | 0 | C055ATOT F 002 | 0 | Plugged | 1.37 DRINKARD |
| 31 31 32 35 37 36 31 31 31 31 31 32 35 31 31 31 31 31 31 31 | 002510585 SKELLY OIL COMPANY | 37E | 34 22.05 | 0 | H O SIMS 016 | ٥ | Plugged | 1.38 Blinebry |
| ACTOR ACTO | GETTY OIL CO | 37E | 34 22.05 | 0 | SKELLY PENROSE A UNI 012 | ٥ | Plugged | 1.38 Langlie Mattix |
| VATING, IP 37E 33 2.05 3700 LANGIE MATTIX PERNOSE SAND UNIT 03.1 1 Pagged 1.38 | LEGACY RESERVES OPERATING, | 37E | 34 22.05 | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 375 | 0 | Active | 1.38 Langlie Mattix |
| VILLOGRAPH 37E 27,2255 GAST LANGILE MATTIX PERNOSE SAND UNIT 502 Flugged 1.438 SE NIC 27 22,2255 36.20 LANGILE MATTIX PERNOSE SAND UNIT 502 C Plugged 1.438 SE NIC 27 22,2255 36.20 LANGILE MATTIX PERNOSE SAND UNIT 501 C Plugged 1.438 SE NIC 27 22,2255 36.20 LANGILE MATTIX PERNOSE SAND UNIT 501 C Active 1.438 FC COLORADO 37E 33,2205 38.70 LANGILE MATTIX PERNOSE SAND UNIT 501 C Active 1.438 FC COLORADO 37E 33,2205 38.70 LANGILE MATTIX PENNOSE SAND UNIT 501 C Active 1.438 FC COLORADO 37E 22,2205 38.70 LANGILE MATTIX PENNOSE SAND UNIT 601 C Active 1.438 FC COLORADO 37E 22,2205 38.70 LANGILE MATTIX PENNOSE SAND UNIT 601 C Active 1.438 FC COLORADO 37E 22,2205 S S S S P COLORADO C Active 1.438 FC COLORADO 37E 22,2205 S S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 37E 32,2205 S S S P COLORADO C Active 1.438 FC COLORADO 3 | LEGACY RESERVES OPERATING, | 37E | 33 22.05 | 3700 | LANGLIE MATTIX PENROSE SAND UNIT 323 | 0 . | Active | 1.38 Langile Mattix |
| Active Cooker 37F 22,225. CANDELLY COOKER 37F 23,225. CANDELLY COOKER 37F 33,225. CANDELLY COOKER 200 CANDELLY | ~ - | 3/E | 27 27 27 | | LANGLIE MALLIX PENKOSE SAND UNIT 612 | _ < | ringged | 1 30 Langue Mattix |
| TOOR 37E 22 22 22 23 23 23 23 2 | -1- | 3/E | 22 22 05 | 3022 | CANGLIE MALLIX PENKOSE SAND UNIT STZ | ع د | Dingod | 1 39 Drinbard |
| COORDING 37E 33 2205 3674 SRELLY PENNOSE AND UNIT 301 O Active 1.45 | | 375 | 22 22 22 05 | 3700 | TANGLIE MATTIV DENBOSE SAND LINIT OOT | 0 | Pligged | 1 39 langlie Mattix |
| FOR Integrated 37 | | 37E | 33 22 DS | 3674 | SKELLY PENBOSE A LINIT 010 | | Active | 1.40 Janglie Mattix |
| F. COLORADO 37E 31 22.05 3710 SKELLY FENNOSE A NUIT 0055 140 140 140 37E 21 22.05 81.00 E.M. ELLIOTT FEDERAL 003 1 10 140 37E 22 22.05 81.00 E.M. ELLIOTT FEDERAL 003 0 Active 1.43 37E 22 22.05 6536 E.M. ELLIOTT FEDERAL 003 0 Active 1.43 37E 22 22.05 6700 LANGILE MATTIX PENNOSE SAND UNIT 06.1 0 Active 1.43 37E 22 22.05 3700 METRES SUPPLY A 00.3 1 Plugged 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.0 DOS 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.3 0 Active 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.0 DOS 0 METRES 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.0 DOS 0 METRES 1.44 37E 22 22.05 3700 METRES SUPPLY A 00.0 DOS 0 METRES 1.44 37E 22 22.05 3700 METRES SUPPLA 0 0 METRES 1.44 37E 22 22.05 3700 METRES SUPPLA 0 0 METRES 1.44 37E 22 22.05 3700 METRES SUPPLA 0 0 METRES 1.44 37E | | 37E | 32 22.05 | 3847 | LANGLIE MATTIX PENROSE SAND UNIT 301 | . 0 | Active | 1.40 Langlie Mattix |
| 1,000 37E 21,205 3600 IANGUE MATTIX PENROSE SAND UNIT 001 1 Plugged 1,43 | 02510560 CIMAREX ENERGY CO. OF COLORADO | 37E | 33 22.05 | 3710 | SKELLY PENROSE A UNIT 005 | ٥ | Active | 1.40 Langlie Mattix |
| 37E 22 22.05 8110 F M ELILOTT FEDERAL GOST 0 Active 1.42 | | 37E | 21 22.05 | 3600 | LANGLIE MATTIX PENROSE SAND UNIT 001 | _ | Plugged | 1.41 Langlie Mattix |
| ATTING, IP 37E 22 2.05 G5.05 EMELIOTI FOREAGO Active 1.42 ATTING, IP 37E 21 2.05 JAMING LEMATIX PENROSE SAND UNIT 66.1 0 Active 1.43 ACCORP 37E 2.2 2.05 DATUGUER MATTIX PENROSE SAND UNIT 60.3 1 Plugged 1.43 ACCORP 37E 2.05 DATUGUER MATTIX PENROSE SAND UNIT 60.3 0 Active 1.43 ATTING, IP 37E 2.05 3.00 METEX SUPLY A 00.3 0 Active 1.44 ATTING, IP 37E 2.05 3.00 METEX SUPLY A 00.3 0 Active 1.44 ATTING, IP 37E 2.05 3.00 METEX SUPLY A 00.3 0 Active 1.44 ATTING, IP 37E 2.1 2.00 3.00 METEX SUPLY REPORTED SAND UNIT 30.4 0 Active 1.44 ATTING, IP 37E 2.1 2.00 4.00 0 Active 1.44 ATTING, IP 37E 2.1 2 | | 37E | 22 22.05 | 8110 | E M ELLIOTT FEDERAL 003 | 0 | Active | 1.42 Tubb |
| ACTION STEE 21 22.05 36.37 LANGUE MATTIX PENRODE SAND UNIT GGT CATIVO CATIVO L143 ACTION STEE 22 22.05 CFOOT ELUCREN MODE DATA CONTROL CATIVO | | 37E | 22 22.05 | 6516 | E M ELLIOTT FEDERAL 004 | 0 | Active | 1.42 DRINKARD |
| 143 12 12 12 12 13 13 13 1 | | 37E | 21 22.05 | 3637 | LANGLIE MATTIX PENROSE SAND UNIT 061 | 0 | Active | 1.42 Langlie Mattix |
| ATTING, IP 37E 22 2.05 ALNOSIE RANTIX PRINCOSE SAND UNIT 003 1 Plugged 143 | 02538812 APACHE CORP | 376 | 22 22.05 | 6700 | EUGENE WOOD 012 | 0 | Active | 1.43 Blinebry |
| ATTING, IP 37E 35 215.05 3700 METRY SUIPHY A 00.3 0 Active 1.44 | 02510418 ANADARKO PETROLEUM CORP | 37E | 22 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 003 | - | Plugged | 1.43 Langlie Mattix |
| 37E 35 2.05 36.38 FLUOR ROOZ 0 Active 1.44 37E 23 2.05 7.428 COSSA'OT F GOS 0 Active 1.44 37E 23 2.05 7.428 COSSA'OT F GOS 0 Active 1.44 37E 23 2.05 7.428 EAGLEN F GOS 0 Active 1.44 37E 22 2.05 2.105 | 02524904 LEGACY RESERVES OPERATING, LP | 37E | 35 22.05 | 3700 | METEX SUPPLY A 003 | 0 | Active | 1.43 Langlie Mattix |
| 37E 26 21.05 1.055 1 | 02524501 SEELY OIL CO | 37E | 35 22.05 | 3638 | FIUOR 002 | 0 | Active | 1.44 Langlie Mattix |
| 371 23 2.05 74.28 (OMERICA NOS) 0 Active 1.44 372 23 2.05 73.25 (E. M. ELLO) 1.05 0 Active 1.44 373 23 2.05 21.05 | O2524445 SEELY OIL CO | 37E | 26 22.05 | | LOWE 001 | 0 | Mugged | T.44 Langlie Mattix |
| 171 22 22.05 13.21 Milkor M | XX524913 JOHN H HENDRIX CORP | 37E | 23 22.05 | 7428 | COSSALOT FOUS | 0 | Active | 1.44 DRINKARD |
| 37F 22, 22.05 4.00 10.0000000000000000000000000000000 | MZSIU400 OXY USA INC | 3/E | 22 22 05 | /325 | E M ELLIOI I PEDERAL DOS | | Active | T.44 Dilleory |
| 377 2.5 2.05 0.10 0. | OZSIO4ZU APACHE CORP | 3/E | 22 22.05 | 8116 | EUGENE WOULD OUS | | Active | 1.44 billiopri |
| ATTING, IP 37E 27,205 6470 EUGENE WOOD 008 0 Active 1.45 | | 375 | 20 27 96 | 0740 | A B BAYER A ON3 | , c | Pinged | 1 44 Granite |
| ANY 37E 21,2205 3700 LANGILE MATTIX PUNDOS SAND UNIT 104 1 Plugged 1.44 ANY 37E 22,2205 4965 BINNERP DRINKARD 022 ANTING, LP 37E 23,2205 4965 BINNERP DRINKARD 022 ANTING, LP 37E 23,2205 3640 LANGILE BOYD 008 AND 21,102 37E 23,2205 5400 LUNI 001 1 Plugged 1.44 AND 21,103 37E 21,205 3400 LUNI 001 1 Plugged 1.44 AND 21,103 3600 SELLIY PENNOS SAND UNIT 001 1 Plugged 1.44 AND 21,103 3600 SELLIY PENNOS SAND UNIT 003 1 Active 1.55 AND 21,103 3615 LANGILE MATTIX PENNOS SAND UNIT 003 1 Active 1.55 AND 21,103 3615 LANGILE MATTIX PENNOS SAND UNIT 003 1 Active 1.55 AND 21,205 406 EUGENE WOOD 006 6 Active 1.55 AND 21,205 406 EUGENE WOOD 006 6 Active 1.55 AND 21,205 3650 FUGENER WOOD 006 6 Active 1.55 AND 21,205 3650 FUGENER WOOD 007 6 Active 1.55 AND 21,205 3650 FUGENER WOOD 007 6 Active 1.55 | MOSTINGA APACHE CORP | 37.5 | 22 22.05 | 6420 | FLIGENE WOOD 008 | , | Active | 1.45 DRINKARD |
| ANY 37E 22.05 4955 BLINEERY DRINKARD 022 5 Active 1.43 ATING, IP 37E 34,7255 3-640 LANGLIE MATTIX PENAOSE SAND UNIT 372 0 Active 1.44 ATING, IP 37E 23,7255 5-550 LUANGLIE MATTIX PENAOSE SAND UNIT 372 0 Plugged 1.44 RING 37E 20,725 7-325 WALDON 001 0 Active 1.43 RING 37E 21,7255 3-640 ELGER WAND OF 0.67 ATING, IP 37E 21,7255 3-640 ELGER WAND OF 0.67 37E 22,225 5-640 ELGER WAND 005 6 Active 1.55 ATING, IP 37E 22,225 6-640 ELGER WAND 005 6 Active 1.55 ATING, IP 37E 22,225 6-640 ELGER WAND 005 6 Active 1.55 ATING, IP 37E 22,225 6-640 ELGER WAND 005 6 Active 1.55 ATING, IP 37E 35,2255 3-655 ELGER WAND 005 6 Active 1.55 ATING, IP 37E 35,2255 3-655 ELGER WAND 005 6 Active 1.55 ATING, IP 37E 35,2255 3-655 ELGER WAND 005 6 Active 1.55 | 02523262 LEGACY RESERVES OPERATING, LP | 37E | 21 22.05 | 3710 | LANGLIE MATTIX PENROSE SAND UNIT 104 | _ | Plugged | 1.46 Langie Mattix |
| ATING, LP 37E 34 22.05 36-00 LANGUE MATTIX PENADOS SAND UNIT 372 0 Active 1.43 G, INC. 37E 23 22.05 35-00 LLE BOTO GOOS 1 PROSECT 1.44 RING INC 37E 20 22.05 12.05 | 02525211 RICE OPERATING COMPANY | 37E | 22 22.05 | 4965 | BLINEBRY DRINKARD 022 | s | Active | 1.47 Blinebry |
| 1.48 22 22.05 5950 OLITE I BOYD CORR O Plugged 1.48 | 02510575 LEGACY RESERVES OPERATING, LP | 37E | 34 22.05 | 3640 | LANGLIE MATTIX PENROSE SAND UNIT 372 | 0 | Active | 1.47 Langlie Mattix |
| 1.00P 37E 20 2.05 LANDLE MATTIX PENROSE SAND UNIT 001 Plugged 1.45 | 02533546 CHESAPEAKE OPERATING, INC. | 37E | 23 22.05 | 5950 | OLLIE J BOYD 008 | 0 | Plugged | 1.48 Blinebry |
| RING 37E 21 22.05 7325 WALDEN DOLL O Active 1.45 F COLORADO 37E 3460 SELLY PENNOSE ALINIT ROBINOSE SAND UNIT 073 0 Active 1.55 ALING, IP 37E 21 22.05 3561 EUGRENE WOOD 006 0 Active 1.53 ARING, IP 37E 22 22.05 460 EUGRENE WOOD 006 0 Active 1.53 ARING 37E 22 22.05 460 EUGRENE WOOD 007 6 Active 1.53 ARING 37E 35 22.05 3658 FULOR NO 6 Active 1.53 | 02510377 ANADARKO PETROLEUM CORP | 37E | 20 22.05 | | LANGLIE MATTIX PENROSE SAND UNIT 001 | - | Plugged | 1.49 Langlie Mattix |
| F COLORADO 37E 33 22.05 3650 SKELLY PENNOSE AND UNIT 009 Active | | 37E | 21 22.05 | 7325 | WALDEN 001 | ٥ | Active | 1.49 DRINKARD |
| ATING, IP 37E 21,2205 36.51 ANGUE MATTIX PUNIOS SAND UNIT 073 I Active | | 37E | 33 22.05 | 3680 | SKELLY PENROSE A UNIT 009 | 0 | Active | 1.50 Langlie Mattix |
| 37 E 22 (2.05) 7.594 (LUGENE WOOD 006) 0 Active 37 E 22 (2.05) 6.404 (LUGENE WOOD 007) G Active 37 E 35 (2.05) 3658 (FLUGENE WOOD 007) G Active | | 37E | 21 22.05 | 3615 | LANGLIE MATTIX PENROSE SAND UNIT 073 | - | Active | 1.51 Langlie Mattix |
| 37k 22 22.05 644U EUSTNE WOUD W/ 5 ACCEPT | | 37.6 | 22 22.05 | 7504 | EUGENE WOOD 006 | ٥١ | Active | 1.51 tilenburger |
| 37E 35 22.05 3528 HUOR 003 | UZS10392 AFACHE CURP | 375 | 20 55 25 | 2050 | EUGENE WOOD W/ | ٥ | Active | tional transfer to |
| 700 000000 | 02524615 SFFLY OII CO | 376 | אוירושכ | XV47 | I EI HIOR rosa | | | |

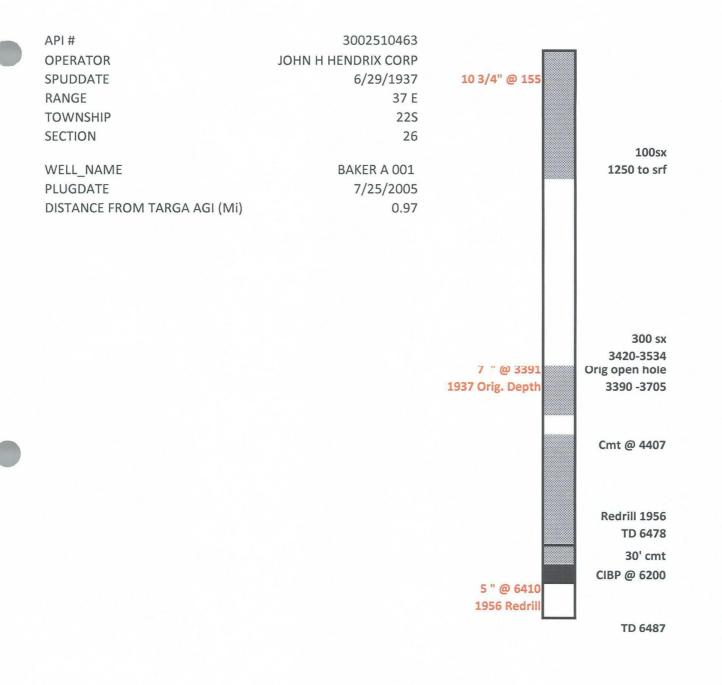
(,

| Application of Colorador 17 21,255 20,000 statut President AUTHOR 0 | 3002510419 LEGACY RESERVES OPERATING, LP | D (2) | | | 2 | 66 | TOO INVESTIGATION | c | Plugged | 1.52 | 1.52 Blinebry |
|--|--|--------------------------|------|------|--------|--------|--------------------------------------|----------|-----------|------|-------------------------|
| 10.000 1 | 002510588 JACK HUFF | 00,00,00 | 37.6 | 35 | 20.7 | 3250 | HIPMAN DOL | | Activo | 1 53 | Langlia Mattiv |
| Activation of the control of the c | 002510424 CHEVRON U S A INC | UF COLORADO | 37.6 | 23 2 | 3.05 | 3750 | NEELLY PENKUSE A UNIT U/8 | 0 | TA | 1.53 | Langle Mattix |
| Color Herekoy OP COLOMANO 71 71 71 72 73 73 73 73 73 73 73 | 002533937 CIMAREX ENERGY CO. | OF COLORADO | 37E | E | 3.05 | 3750 | KELLY PENROSE A UNIT 077 | 0 | Active | 1.54 | Langlie Mattix |
| Name Company Name | 002510576 LEGACY RESERVES OPE | RATING, LP | 37E | 34 | 2.05 | 3654 | ANGLIE MATTIX PENROSE SAND UNIT 373 | _ | Active | 1.55 | Langlie Mattix |
| Name Colon Name | 002510554 CIMAREX ENERGY CO. | OF COLORADO | 37E | 33.7 | 50.2 | 3689 | KELLY PENROSE A UNIT 006 | - | ΤA | 1.57 | 1.57 Langlie Mattix |
| The control of the | 002524819 CIMAREX ENERGY CO. | OF COLORADO | 37£ | 33 | 27.08 | 3750 | KELLY PENROSE A UNIT 065 | 0 | Active | 1.58 | Langlie Mattix |
| 1 | 002524620 PETRO SEARCH EXPLOI | RATION CORP | 37.6 | 26.2 | 22.05 | 9 | CEOHANE DOIL | 0 | Plugged | 1.58 | Blinebry |
| Control Registry Control Registry 20 20 20 20 20 20 20 2 | 002510601 TEXACO EXPLORATION | ; PRODUCTION INC | 37E | 3 2 | 3.05 | | KELLY PENROSE A UNIT 013 | _ | Plugged | 1.59 | Langlie Mattix |
| VALUATION OF CORPORATION OF THE STATE OF CONTRIVENCE AND UNIT STATE OF CONTRIVENCE OF CONTRIVE | | | 37E | 23 2 | 2.05 | 0 | 30YD 002 | 0 | Plugged | 1.60 | Drinkard |
| 12.255 1 | | RATING, LP | 37E | 29 2 | 2.05 | 3650 | ANGLIE MATTIX PENROSE SAND UNIT 392 | 0 | Active | 1.60 | 1.60 Langlie Mattix |
| The state of the | | M CORP | 37E | 32. | 22.05 | 0 0 | ANGLIE MATTIX PENROSE SAND UNIT 001 | _ < | Plugged | 1.61 | 1.61 Langlie Mattix |
| 200 10 10 10 10 10 10 10 | | NG, INC. | 37E | 79. | 20.05 | 0 | NEW MEXICO IN STATE 016 | - - | Plugged | 1.61 | 1.61 Faddock |
| 10 20 20 20 20 20 20 20 | 002524449 JOHN H HENDRIX COR | | 37.5 | 23 2 | 2.05 | 7267 | COSSATOT F 003 | . 0 | Active | 1.61 | 1.61 Wantz/Granite Wash |
| 1 | 002525356 CHEVRON U S A INC | | 37E | 16 | 2.05 | 7338 | E COLE NCT A 017 | 0 | Active | 1.61 | 1.61 San Andres |
| Packer Richard Corporation 17 12 12 13 13 13 13 13 13 | 002510555 APACHE CORP | | 37E | 33 2 | 2.05 | 3700 | KELLY PENROSE A UNIT 008 | = | Pługged | 1.61 | 1.61 Langlie Mattix |
| Packer Region Company 377 15 255 | 002522383 CHEVRON U S A INC | | 37E | 23 2 | 2.05 | 7828 | 0 I BOYD 004 | ٥ | Active | 1.61 | DRINKARD |
| Vac Charleman, Jan 1971 21,215 25 15 15 15 15 15 15 | 002528204 CHESAPEAKE OPERATI | NG, INC. | 37.6 | 15 2 | 27.05 | 4060 | W WALDEN 014 | 0 | Active | 1.62 | 1.62 Langlie Mattix |
| 19.20 20.2 | OUZSIUSBI LEGACY RESERVES UPI | KALING, LF | 3/6 | 7 77 | 2.03 | 3013 | ANGLIE MALIIX PENKOSE SAND UNII USZ | 9 0 | Dhagod | 1.62 | 1.62 Langue Mattix |
| 1972 2015 | 002510605 CIMABEX ENERGY CO | OF COLORADO | 375 | C . | 3 05 | 3622 | KELLY DENROSE A LINIT 015 | 0 | Phigged | 167 | 1.62 Langlie Mattix |
| 2.056 1.05 | | | 37E | 3 | 3.05 | 3637 | KELLY PENROSE A UNI 014 | 0 | Plugged | 1.63 | Langlie Mattix |
| 15.205 15.005 10.005 1 | 002510511 KIRBY PETROLEUM CO | | 37E | 29 2 | 27.05 | 0 | NEW MEXICO M STATE 021 | 0 | Plugged | 1.63 | Langlie Mattix |
| PRINCIPLE OF COLORADO 377 13 255 3750 3 | 002510286 ANADARKO PRODUCTI | ᇹ | 37E | 15 | 27.05 | 0 | W WALDEN 005 | ٥ | Plugged | 1.63 | Langlie Mattix |
| 12.05 12.0 | 002510288 CHESAPEAKE OPERATI | NG, INC. | 37E | 15 | 27.05 | 3720 | : W WALDEN 006 | - | Active | 1.64 | 1.64 Langlie Mattix |
| MARKER PREPARED OF COLORADO 37E 21205 3750 MARIET PRINCES A DITION OF A DITION O | 1002524451 SEELY OIL CO | | 37E | 32 | 22.05 | 4500 | 1U0R 001 | 0 | TA. | 1.64 | Langlie Mattix |
| STATESTICKED 19 19 19 19 19 19 19 1 | 002333/18 CIMAREA ENERGY CO. | or cotokapo | 3/5 | 7 | 30.00 | | MELLY PENROSE A UNIT 014 | 9 | Active | 154 | Langue Mattix |
| 2000 CONDITION 21 | | | 375 | 2 2 | 20.03 | | OV WALLEIN GOS | 0 | Philosoph | 1.64 | Drinkard |
| EGACY FESTENES OFEDATING, I.P. 37F 21 2.05 370 IAMBELE MATTER PERFOXE SAND UNIT 064 0 CONDOC DIFFLAY 37F 13 2.05 5780 ELUDIT A 150 A4 0 CONDOC DIFFLAY 37F 13 2.05 5738 ILUDIT A 150 A4 0 PACHE CORRY 37F 13 2.05 5475 EW WANDER DOWN 0 PACHE CORR 37F 13 2.05 5475 EW WANDER DOWN 0 PACHE CORR 37F 13 2.05 730 ILUDIT A 150 A3 0 PACHE CORR 37F 13 2.05 370 ILUDIT A 150 A3 0 PACHE CORR 37F 13 2.05 370 ILUDIT A 150 A3 0 PACHE CORR 37F 13 2.05 370 ILUDIT A 150 A3 0 PACHE COLL CORRY 37F 13 2.05 370 ILUDIT A 150 A3 0 PACHE COLL CORRY 37F 13 2.05 375 ILUDIT A 150 A3 0 PACHE COLL CORRY 37F 13 2.05 375 ILUDIT A 150 A3 0 PACHE COLL CORRY 37F 13 2.05 375 ILUDIT A 150 A3 0 | 002510512 GP II ENERGY INC | | 37.5 | 262 | 2.05 | 3678 | NEW MEXICO MISTATE 022 | <u> </u> | Plugged | 1.65 | Langlie Mattix |
| 15 2.05 15 | 1002523770 LEGACY RESERVES OPE | RATING, LP | 37E | 21 2 | 2.05 | 3700 | ANGLIE MATTIX PENROSE SAND UNIT 084 | 0 | Active | 1.65 | Langlie Mattix |
| 15 205 | 1002510271 APACHE CORP | | 37E | 15 | 27.05 | | W WALDEN 003 | 0 | Active | 1.65 | Paddock |
| OINTH HERDING CORP 377 | 8002510282 CONOCOPHILLIPS CON | IPANY | 37E | 15 | 22.05 | | LLIOTT A 15 004 | 0 | Active | 1.65 | DRINKARD |
| 1,2,2,0 347 1,2,2,0 349 1,2,0 349 1,2,0 349 | 3002524532 JOHN H HENDRIX CUR. | | 37E | 23. | 22.05 | | COSSATOT F 004 | 0 0 | Plugged | 1.65 | DRINKARD |
| STATE STAT | | 004400100710 | 3/5 | 2 | 20.03 | 04/2 | WALDEN DO/ | 0 0 | Active | 1.65 | 1.55 Billiebry |
| Fig. 16 12.05 3701 RECOLE MOTA GOLD 15 15 15 15 15 15 15 1 | DO2524173 ANADARKO PETROLEII | OF COLORADO M CORP | 375 | 23 4 | 20.03 | 0000 | ANGLE MATTIY BENBOSE SAND LINIT OOS | <u> </u> | Pluggad | 1.66 | 1.66 Langlie Mattix |
| 15 2.05 7.788 ELLIOTT A 15 003 0 0 0 0 0 0 0 0 0 | 002510313 CHEVBON U.S.A.INC | | 37E | 16.7 | 2.05 | 3701 | SECOLE NCT A 001 | . 0 | Active | 1.67 | 1.67 Langlie Mattix |
| 15 20.05 7700 ELLIOTT A 15 005 0 0 0 0 0 0 0 0 | 002510280 CONOCOPHILLIPS CON | IPANY | 37E | 15 | 22.05 | 7788 | LUOTT A 15 003 | 0 | Active | 1.67 | 1.67 Ellenburger |
| HERPERKE OPERATING, INC. 37F 23 2205 375 ELLIOTT AT 5002 O | 002510283 JOHN H HENDRIX CORE | 9 | 37E | 15. | 2.03 | 7700 | LLIOTT A 15 005 | 0 | Active | 1.67 | Tubb |
| 15 22.05 37.15 15 12 | 002510434 CHESAPEAKE OPERATII | NG, INC. | 37E | | 22.05 | 6450 | OLLIE J BOYD 002 | 0 | Active | 1.67 | 1.67 Paddock |
| PARKET KINEGY STROYS" INCKELTON OP CORP 377 32 12.05 3750 SKELLY PENNOSE BUNIT 001 1 1 1 1 1 1 1 1 1 | 002510278 CONOCO INC | | 37E | | 22.05 | 3675 | LLIOTT A 15 002 | 0 | Plugged | 1.68 | 1.68 Langlie Mattix |
| Particle Colorado 37F 26 2205 SACTIV PENDOS CAUNIT 093 O | 002510550 PROVIDENCE ENERGY | SERVS" INCKELTON OP CORP | 37E | | 27:0S | 3731 | KELLY PENROSE B UNIT 001 | - | TA | 1.68 | 1.68 Langlie Mattix |
| HEAMER KINEGY CO. OF COLORADO 377 312.05 3750 SKELLY PENNOSE A UNIT 033 0 0 0 0 0 0 0 0 0 | 002510469 DONALD SHARRATT | | 37E | 792 | 22.05 | _ | 3AKER C 001 | ٥ | Plugged | 1.69 | 1.69 Blinebry |
| RELY DIL CO. 37E 15/2.05 4 GO EW WALDEN OIT 0 MILLY RESOURCES INC. 37E 20 2.05 3900 CLOWER STATE 001 0 MILLY RESOURCES INC. 37E 2.05 3900 CLOWER STATE 001 0 MARDELL & HEDRICK 37E 2.05 0 BOYDOD OIT 0 ONDOCO INC. 37E 2.05 37B 0 BOYDOD OIT 0 ONDOCO INC. 37E 1.0 2.05 37B 1.0 0 0 ONDOCO INC. 37E 1.0 2.05 37B 1.0 0 0 0 DAMAREK RIERGY CO. OF COLORADO 37E 1.0 37G 37G 1.0 0 0 0 PIENERGY INC. 37E 1.0 3.0 37G 3.0 37G 1.0 | 002534161 CIMAREX ENERGY CO. | OF COLORADO | 37E | 3 | 3.05 | 3750 | KELLY PENROSE A UNIT 093 | 0 | Active | 1.69 | 1.69 Langlie Mattix |
| 17 17 17 17 17 17 17 17 | 002524603 CHESAPEAKE OPERATI | NG, INC. | 37E | | 27.05 | 4600 | W WALDEN 011 | 0 | Active | 1.69 | 1.69 Langlie Mattix |
| EVAS PACIFICOLICO INC. 37E 20/12.05 390 CLOWER STATE 001 0 ZAMPBELL & HEDNICK 37E 26/205 0 ALILE MILE 001 0 ZAMPBELL & HEDNICK 37E 26/205 0 ALILE MILE 001 0 JONGO INC. 37E 15/205 378 RUNE MILE 001 0 JONGO INC. 37E 15/205 378 RUNE MILE 001 0 JONGO INC. 37E 3/205 378 RUNE MILE 001 0 JAMPAREX ENERGY CO. OF COLORADO 37E 3/205 380 RIVA WARKCO MILE 006 0 JAMPAREX ENERGY CO. OF COLORADO 37E 3/205 3750 SKELLY PENNOSE A LINIT 007 0 JAMPAREX ENERGY CO. OF COLORADO 37E 1/205 3/35 R ECOLE 00 0 0 JAMPAREX ENERGY CO. OF COLORADO 37E 1/205 3/35 R ECOLE 00 0 0 0 JAMPAREX ENERGY CO. OF COLORADO 37E 3/35 R ECOLE 00 3/35 R ECOLE 00 0 0 0 JAMPAREX ENERGY CO. OF COLORADO 37E 3/305 1/305 3/305 | 002524667 SEELY OIL CO | | 37E | 35.2 | 27.05 | 0 | :LUOR 004 | 0 | Plugged | 1.70 | 1.70 Langlie Mattix |
| ANY BELLE REPRICK 37E 23 22.05 0 BOYD OD | 002523536 FINLEY RESOURCES INC | | 37E | 50 | 22.05 | 3300 | CLOWER STATE 001 | 0 | Active | 1.70 | 1.70 Langlie Mattix |
| Parker P | 002510426 TEXAS PACIFIC OIL CO | NC NC | 37£ | 23.2 | 27.05 | 0 4 | 30YD 001 | ٥ | Plugged | 1.70 | 1.70 Drinkard |
| SPECIAL PROPERTY CONTRICT C | COUZSIDABZ CAMPBELL & HEDRICK | | 3/6 | | 2.03 | 9 | ALLIE M LEE OUT | 0 | Plugged | 1./1 | 1.71 Birnebry |
| The | MOZZIOZA CONOCO INC | | 376 | | 20.03 | 307.6 | JELIOTI A 13 GOL | 0 | Plugged | 1.77 | Langue Mattix |
| 9 II EREGGY INC 37 E 29 J. 2.05 3650 INEW MEXICO MSTATE 066 0 HEXAMEX DIREGY CO. OF COLORADO 37 F 4 J. 2.05 3331 S. KELL PRINCES A LINIT 017 1 HEXAMEX DIREGY CO. OF COLORADO 37 F 15 Z. 05 3331 S. KELL PRINCES A LINIT 017 1 9 II EKREGY INC 37 F 29 J. 2.05 3817 INEW MEXICO MSTATE 062 0 9 II EKREGY INC 37 F 23 Z. 05 6605 BOYD 008 0 1 INAMARIA INVESTMENTS. INC 37 F 33 Z. 05 6615 BOYD 008 0 1 INAMARIA INVESTMENTS. INC 37 F 33 Z. 05 6615 BOYD 008 0 1 INAMARIA INVESTMENTS. INC 37 F 33 Z. 05 6615 BOYD 008 0 2 INAMARIA INVESTMENTS. OFF 37 F 31 Z. 05 6530 ELILIV PRINCES E AUNIT 007 0 2 INAMARE ENERGY CO. OF COLORADO 37 F 23 Z. 05 7754 BAKER 00 0 2 INAMARE ENERGY CO. OF COLORADO 37 F 23 Z. 05 7545 BAKER 00 0 3 INAMARE ENERGY CO. OF COLORADO 37 F 21 Z. 05 3750 SKELLY PENNOSE A UNIT 031 0 | 007533783 CIMAREX ENERGY CO | OFCOLORADO | 376 | 7 6 | 3.05 | יייייי | KELLY PENROSE A LINIT ORD | 0 | Artive | 177 | 1.72 Langlie Mattix |
| 17.00 17.0 | 002524255 GP II ENERGY INC | | 37.6 | 29 2 | 2.05 | 3680 | 4EW MEXICO M STATE 066 | 0 | Active | 1.73 | Langlie Mattix |
| HERBORING, INC. 37F 16 2205 37135 R F COLE DOI 0 | 002510624 CIMAREX ENERGY CO. | OF COLORADO | 37E | 4 | 3.05 | 3813 | KELLY PENROSE A UNIT 017 | - | TA | 1.73 | Langlie Mattix |
| SP IENTRICY INC 37F 29 2.05 3817 NEW MEXICO MSTATE 062 0 RIMMARI INVESTMENTS, INC. 37F 23 2.05 6605 BOYD 008 0 RIMMARI INVESTMENTS, INC. 37F 33 2.05 3716 SKELLY PENROSE A UNIT 007 0 JIMAREX ENERGY CO. OF COLORADO 37F 33 2.05 3716 SKELLY PENROSE A UNIT 007 0 JONAN USA INC. 37F 32 2.05 7754 BAKER 002 0 AOMENTUM OPERATING COI INC. 37F 23 2.05 7754 BAKER 002 0 AOMENTUM OPERATING COI INC. 37F 23 2.05 7554 BAKER 002 0 JOHARDEX CORP. 37F 24 2.05 7554 BAKER 002 0 JOHARDEX CORP. 37F 24 2.05 7554 BAKER 002 0 JOHARDEX CORP. 37F 24 2.05 7554 BAKER 002 0 JOHARDEX CORP. 37F 24 2.05 3750 SKELLY PENROSE A UNIT 081 0 JOHARDEX CORP. 37F 24 2.05 3750 SKELLY PENROSE A UNIT 079 0 JOHARDEX CORP. 37F 3750 SKELLY PENROSE A UNIT 079 0 | 002510310 CHESAPEAKE OPERATII | NG. INC. | 37E | 16.7 | 2.05 | 3735 | R E COLE 001 | 0 | Active | 1.74 | Langlie Mattix |
| October Octo | 002524139 GP II ENERGY INC | | 37E | 29 2 | 2.05 | 3817 | 4EW MEXICO M STATE 062 | 0 | Plugged | 1.74 | Langlie Mattix |
| FRAMAR INVESTMENTS, INC. 37E 3 73.05 ELLEN SIMS 009 0 JOHN HARIZE VERGOT COF COLORADO 37E 33 12.05 3716 SKELLY PRINOSE A LUNT 007 0 JOHN H HENDRIX CORD 37E 32 22.05 6330 JELIOTT A 15 006 0 OXY USA, INC. 37E 37 22.05 7754 JAAKE ROOZ 0 ONY USA, INC. 37E 22 22.05 7754 JAAKE ROOZ 0 OHN H HENDRIX CORP 37E 23 22.05 7754 JAAKE ROOZ 0 OHN H HENDRIX CORP 37E 20 12.05 7785 LEE ROOZ 0 CICHAND ROO CO 37E 4 23.05 3750 SKELLY PENROSE A LUNT 081 0 CICHAND ROO CO 37E 4 23.05 3750 SKELLY PENROSE A LUNT 081 0 CICHAND ROO CO 37E 20 12.05 3750 SKELLY PENROSE A LUNT 081 0 CICHAND ROO CO 37E 21 2.05 3750 SKELLY PENROSE A LUNT 081 0 CICHAND ROO CO 37E 21 3.20 3750 SKELLY PENROSE A LUNT 093 0 CICHAND ROO CO 37E 313.05 3750 SKELLY PENROSE | | | 37E | 23 2 | 2.05 | 999 | 30YD 008 | 0 | Active | 1.74 | Blinebry |
| CIMAREX FUREGOT CO. OF COLORADO 37E 33 22.05 3716 SKELLY PENFOSE À UNIT 007 O ONY USA INC 37E 15 22.05 6530 ELLOTTA A 13 006 O O ONY USA INC 37E 23 22.05 7754 BAKER 002 O O MOMÉNTUM OPERATING CO INC 37E 23 22.05 7754 BAKER 002 O O MOMÉNTUM OPERATING CO INC 37E 23 22.05 7754 BAKER 002 O O MOMÉNTUM OPERATING CO INC 37E 23 22.05 7754 BAKER 002 O O CIMAREX ENERGY CO. OF COLORADO 37E 4 23.05 3750 SKELLY PENROSE A UNIT 081 O CIMAREX ENERGY CO. OF COLORADO 37E 21 22.05 3750 SKELLY PENROSE A UNIT 081 O CIMAREX ENERGY CO. OF COLORADO 37E 3720 SKELLY PENROSE A UNIT 083 O O CIMAREX ENERGY CO. OF COLORADO 37E 3750 SKELLY PENROSE A UNIT 079 O O CHESAPEAKE OPERATING, INC. 37E 450 K. E. COLE 000 O O O | ERNMAR INVESTMENT | S, INC. | 37E | 3.2 | 3.05 | | LLEN SIMS 009 | ٥ | Active | 1.74 | 1.74 Blinebry |
| 15 12 15 15 15 15 15 15 | CIMAREX ENERGY CO. | OF COLORADO | 37E | 33 2 | 2.05 | 3716 | KELLY PENROSE A UNIT 007 | 0 | Active | 1.75 | Langlie Mattix |
| 22.05 SKELLY PENNOSE B UNIT 007 O | 002510284 JOHN H HENDRIX CORI | | 37E | 15 2 | 2.05 | 6530 | LLIOTT A 15 006 | 0 | Active | 1.75 | Blinebry |
| 12.05 | | | 37E | 32.7 | 2.05 | | KELLY PENROSE B UNIT 007 | 0 | Plugged | 1.75 | Langlie Mattix |
| HIGHMAND CORP 37F 23 22.05 7.58 11.00T B 20.001 0 | 002522621 MOMENTUM OPERATI | NG CO INC | 37E | 797 | 2.05 | 7754 | SAKER 002 | 0 | Plugged | 1.76 | DRINKARD |
| HIGHCAND PRODUCE 37E AD 12205 URLIGHT B AD 03.1 12205 3550 XELLIUY PENNOSE A UNIT 081 O 12205 3550 XELLIUY PENNOSE A UNIT 081 O 12205 3550 XELLIUY PENNOSE A UNIT 079 O 12205 3550 XELLI | | | 37E | 23.2 | 2.05 | | EE 002 | 0 | Active | 1.76 | Blinebry |
| CIMAREX PURSON CO. OF COLORADO 37F 4 23.05 3750 SKELLY PENIOSE AND UNIT 083 0 CIMAREX PURSON CORPANDING. IP 37F 21 2.05 36.30 LANGLIE MATTIX PENROSE SAND UNIT 083 0 CIMAREX PURSON CO. OF COLORADO 37F 31.305 3750 SKELLY PENROSE A UNIT 079 0 CHESAPEAKE OPERATING, INC. 37F 16 22.05 4590 R F COLE 004 0 | | | 37E | 202 | 2.05 | 10 | В 20 001 | 9 | Plugged | 1./6 | 1.76 Langlie Mattix |
| CHARARE KIRGOY CO. OF COLORADO 37E 13.2305 3759 SELLIV PENNOSE A UNIT 079 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | OF COLORADO | 37E | 4 5 | 3.05 | 3750 | KELLY PENROSE A UNIT 081 | 0 (| TA. | 1.76 | 1.76 Langlie Mattix |
| CHARREN EN RIGHTOLO OF COLORADO 37E 31.23.05 37.93 SALLY PENNIOSE A UNIT 079 D CHESAPEAKE OPERATING, INC. 37E 15.22.05 4594 R.E. COLE 004 0 0 | 202510378 LEGACY RESERVES UPE | RATING, LP | 37.6 | 27. | 2.05 | 36301 | ANGLIE MATEIX PENROSE SAND UNIT US3 | 2 | Active | 17.7 | 1.76 Langlie Mattix |
| CHESATEAN OF CHEMING, INC. | 202533938 LIMAKEX ENERGY LO. | OF COLORADO | 37.6 | 16 2 | 3.05 | 4504 | KELLY PENROSE A UNII U/9 | 2 0 | Active | 1.78 | 1.77 Langlie Mattix |
| I ST 15122.05 . I ADSOLEMATING INC | 3002527956 CHESAPEAKE OPERATION | ייט וארי | 376 | 15.7 | . 20.0 | | TATALAN DEN DIS | , | Chine | | Laligire mosess |
| CHESPEAR DEFENDING 10 13/1 15 15 15 15 15 15 15 | 202527956 CHESAFEARE UPERALII | VG, INC. | 3/t | rict | | | | | | | Annual Control |
| 13/E 14/25.03 3000 CANGELE WALLIAN TENNOSE SAND ONLY OF | STOCK TO SELECT AND A DATE OF THE SECOND | 0000 | 376 | - 77 | 20.02 | 050 | ANGLIS MATTER DENDOSS SAND LINIT CO. | 0 0 | Active | 1./8 | 1.78 Langlie Mattix |

| 3002510587 HUMBLE OIL & REFINING CO | 3/5 | 50.77 67 | 3840 NEW MEXICO M STATE 071 | و | Plugged | 1.78 Langlie Mattix |
|--|-------|----------|---------------------------------|------------|-------------|--------------------------|
| | 37E | 35 22.05 | 0 B E BOYD 001 | 0 | Plugged | 1.79 Langlie Mattix |
| 3002523044 CHEVRON U S A INC | 37E | 16 22.05 | 7340 R E COLE NCT A 013 | | Active | |
| 3002510435 REPOLLO OIL CO | 37E | 23 22.05 | O OLLIE BOYD 003 | | Plugged | |
| 3002538217 CHESAPEAKE OPERATING, INC. | 37E | 23 22.05 | 4340 OLLIE J BOYD 23 001 | ٥ | Active | |
| | 37E | 14 22.05 | 7324 PARKS 002 | 0 | Active | 1.81 Blinebry |
| 3002510311 CHESAPEAKE OPERATING, INC. | 37E | 16 22.05 | 3675 R E COLE 002 | 0 | Active | |
| 3002523822 GP II ENERGY INC | 37E | 20 22.05 | | 0 | Active | 1.82 Langlie Mattix |
| 3002510542 PROVIDENCE ENERGY SERVS" INCKELTON OP CORP | 37E | 32 22.05 | | 0 | TA | 1.82 Langlie Mattix |
| 30025.4589 CIMAREX ENERGY CO. OF COLORADO | 3/E | 3 23.05 | | | Active | 1.83 tanglie mattix |
| SOUZSIDELS TEXACO EXPLORATION; PRODUCTION INC | 3/E | 4 23.05 | | 0 0 | riugged | 4 65 T.LL |
| 3002538371 APACHE CURP | 37.6 | 15 22.05 | 6/50 E W WALDEN 009 | 0 9 | Active | 1.83 TUDB |
| SOCIETATION IN LITERARY COMPANY COMPANY | 37.6 | 23 22.05 | 2224 COCCATOT F DOS | | Active | 1 od Warty/Cranito Warth |
| SOCRETORING HOUNTY CORP | 3/6 | | 7500 FILIOTE & 15 003 | | Active | 1 of Landio Martic |
| 2003510500 KIRDV DETROLLETM CO | 37.5 | 20.22 CT | O NEW MEXICO M STATE 019 | 0 0 | Dingod | 1 85 Langlie Mattiv |
| 2002510510 GB II ENIEDGY INC | 37.6 | | CSSO NEW MEXICO IN STATE OZO |) <u>-</u> | Active | 1 85 Langlie Matrix |
| SOUSSIDE OF ILENERAL INC. | 375 | 20.77 67 | SOCI MEW INEXICO IN STATE USO | _ (| Active | 1 DC Leadin Martin |
| 3002224430 35ELT OIL CO | 3/6 | 2 23.03 | SYSU GULF STATE DOL | | Active | 1 oc Turk |
| SOUZSIUZIS APACHE CORP | 3/5 | 15 22.05 | 5000 MINISTRUCTOR AS STATE 074 | | Active | 1 of Localis Mastic |
| GP II ENERGY INC | 3/5 | 20 27 02 | 5830 NEW MEXICO M SIAIE 074 | | Active | 1 oc Dinobar |
| 3002510439 JOHN H HENDRIK CORP | 3/6 | 23 22.05 | 2000 F WAY SEE CO. | 9 0 | Active | |
| SOCIETACO A CHANDEN ENERGY CO OF COLOBADO | 375 | 20 77 CT | 2020 CKCLEV DENIDOSE A LINIT OF | 0 0 | Action | 1 87 Landia Mattic |
| SOCIEDADO CIPAREX ENERGI CO. OF COLORADO | 3/5 | 3 23.03 | 3520 SKELLT PEINKUSE A UNIT UZZ | | Active | 1 of Disober |
| SOUZSZZIBS CHEVKON U S A INC | 3/2 | 16 22.05 | 2500 CVELLY PENDOCE A UNIT 033 | o _ | Active | 1 60 Longio Martic |
| 3002510517 DECIMINATE LINES CO. O. COLOMBIO. | 37.5 | 20 22 02 | 3235 CKELLY DENBOSE B LINIT 016 | | TA | 1 88 Landie Mattix |
| 200251032) ABACUE CORD | 37.5 | 30 72 34 | 2012 SALLER FERRISSE DOMESTIC | - 0 | Activo | 1 89 Blinehry |
| 300251050C GB U ENERGY INC | 375 | 30 22 00 | 2219 NEW MACUICO NA STATE OF |) <u>-</u> | Dingo | 1 88 lanetic Mattic |
| 3003510302 CHESADEAKE OPERATING INC | 375 | 15 27 05 | ASSS EWWALDEN DOZ | - 2 | Plugged | 1.88 landie Mattix |
| 2002C102G2 IOUN II UENIDBIY CORD | 375 | 15 22 05 | 6420 EULOTT A 45.002 | , , | Activo | 1 99 Tihh |
| 3003510397 ANADARO DRODICTION | 375 | 15 27 05 | O E W WAT DEN OOS | | Plugged | 1 89 langle Mattix |
| 3003510514 GD II ENEDGY INC | 376 | 20.22 CT | NEW MEXICO M STATE 023 | | Plugged | 1 89 Langlie Mattix |
| 3003573615 RETTIS BOVIE - STOVALLING | 375 | | Anno PATCY ON I | . c | Active | 1.89 langle Mattix |
| 3002510544 PROVIDENCE ENERGY SERVE INC. KELTON OP CORP | 375 | 32 22 05 | 3805 SKELLY DENROSE BLINIT 002 | C | Active | 1.89 Langlie Mattix |
| 3002510270 APACHF CORP | 37E | 15 22.05 | | 0 | Active | 1.89 Blinebry |
| 3002521274 GP II ENERGY INC | 37F | 20 22.05 | | _ | Plugged | 1.89 Langlie Mattix |
| 3002510619 CIMAREX ENERGY CO. OF COLORADO | 37E | 4 23.05 | | _ | Active | 1.90 Langlie Mattix |
| 3002522132 JOHN H HENDRIX CORP | 37E | 25 22.05 | 7895 E E DRINKARD 002 | 0 | Active | 1.90 Blinebry |
| 3002510427 JOHN H HENDRIX CORP | 37E | 23 22.05 | | 9 | Plugged | 1.91 Drinkard |
| 3002510598 CIMAREX ENERGY CO. OF COLORADO | 37E | 3 23.05 | 3610 SKELLY PENROSE A UNIT 024 | 0 | Active | 1.91 Langlie Mattix |
| 3002510315 CHEVRON U S A INC | 37E | 16 22.05 | 3715 R E COLE NCT A 003 | 0 | Active | 1.91 Langlie Mattix |
| 3002530375 PROVIDENCE ENERGY SERVS" INCKELTON OP CORP | 37E | 32 22.05 | 3940 SKELLY PENROSE B UNIT 069 | 0 | Active | 1.92 Langlie Mattix |
| | 37E | 23 22.05 | | 0 | Active | 1.92 Blinebry |
| 3002510312 CHESAPEAKE OPERATING, INC. | 37E | | 3660 R F COLE 003 | _ | Active | 1.92 Langlie Mattix |
| 3002510428 JOHN H HENDRIX CORP | 37E | 23 22.05 | 6324 BOYD 002Y | 9 | Active | 1.92 Blinebry |
| 3002522389 CONOCOPHILLIPS COMPANY | 37E | 24 22.05 | 7625 SIMS 006 | 0 | Active | 1.92 Drinkard |
| 3002522797 RICE OPERATING COMPANY | 37E | | 5250 BLINEBRY DRINKARD 035 | S | Active | 1.92 Blinebry |
| 3002510318 CHEVRON U S A INC | 37E | | 8066 R E COLE NCT A 005 | 0 | Active | 1.93 Langlie Mattix |
| 3002528672 JOHN H HENDRIX CORP | 37E | 25 22.05 | E E DRINKARD 003 | 0 | Plugged | 1.93 Drinkard |
| 3002524586 GULF OIL CORP | 37.6 | 2 23.05 | | | Plugged | 1.94 Langue Mattix |
| SOOSSOOS CHECK OIL COMPANY | 3/1 | 3 23.05 | 4102 E W.WALDEN 009 | | Plugged | 1 94 Dimeory |
| 3003523185 CHESABEAKE OPERATING INC | 376 | 15 22 05 | 2820 F.W.WALDEN 002 | | Activo | 1 94 Langtie Mattix |
| 30025105 CHUSAL LANC CHESTING, INC. | 375 | | 3880 CKELLY PENBOSE BLINIT OOS | , _ | TA | 1.95 Janelie Mattix |
| 3002510527 PROVIDENCE ENERGY SERVS" INCKELTON OP CORP | 37.6 | 4 23.05 | 3720 SKELLY PENROSE B UNIT 017 | | Active | 1.96 Langle Mattix |
| 3002524469 CIMAREX ENERGY CO. OF COLORADO | 37E | 3 23.05 | 3800 ELLEN SIMS A 001 | 0 | Active | 1.96 Langlie Mattix |
| 3002510430 TEXAS PACIFIC OIL CO INC | 37E | 23 22.05 | 0 BOYD 004 | | Plugged | 1.96 Langlie Mattix |
| 3002524059 FINLEY RESOURCES INC | 37E | | 3770 ELLIOTT B 20 002 | Γ | Active | 1.96 Langlie Mattix |
| 3002510618 CIMAREX ENERGY CO. OF COLORADO | 37E | 4 23.05 | 3687 SKELLY PENROSE A UNIT 020 | 0 | Active | 1.96 Langlie Mattix |
| 3002524254 GP II ENERGY INC | 37E | 29 22.05 | 3680 NEW MEXICO M STATE 065 | 1 | Active | 1.97 Langlie Mattix |
| 3002522382 CHEVRON U S A INC | 37E | | 7260 R E COLE NCT A 011 | 0 | Active | 1.97 San Andres |
| 3002510431 SUN EXPLORATION & PRODUCTION CO | 37E | 23 22.05 | 0 BOYD 005 | 9 | Plugged | 1.98 Drinkard |
| 3002533787 CIMAREX ENERGY CO. OF COLORADO | 37E | | | 0 | Plugged | 1.98 Langlie Mattix |
| 3002510543 PROVIDENCE ENERGY SERVS" INCKELTON OP CORP | 37E | | 3807 SKELLY PENROSE B UNIT 005 | _ | TA | 1.98 Langlie Mattix |
| 3002525689 CHEVRON U S A INC | 37.6 | | 6665 R E COLE NCI A 018 | 0 0 | I.A | 1.98 Blinebry |
| 3002520281 JOHN H RENDRIX CORP | 37.6 | 20 22 02 | 3677 NEW MEXICO M STATE DE1 | 0 0 | Active | 1 99 Janelle Mattix |
| 3002524211 JOHN H HFNDRIX CORP | 37E | | PABKS 009 | 0 | Active | 1.99 Blinebry |
| 2000 CT444 comments of the com | , , , | | 333 | | 1 2 3 3 3 3 | |

PLUGGING DIAGRAMS FOR WELLS PENETRATING SAN ANDRES WITHIN ONE MILE OF PROPOSED TARGA AGI/SWD #1

| API # OPERATOR SPUDDATE RANGE TOWNSHIP SECTION WELL_NAME PLUGDATE DISTANCE FROM TARGA AGI (Mi) | 3002510403 EXXON CORP 10/8/1949 37E 22S 22 W B FARRELL 003 11/27/1972 0.93 | 10 3/4" @ 351 | 10 sx to srf |
|--|--|---------------|--|
| | | 7 5/8" @ 2814 | 100 sx 2883 - 2500 200 sx 3100 - 3502 25 sx 3585 - 3785 |
| | | | 50 sx 6410 - 6440 Perf: 6410 - 6440 |
| | | 5 1/2" @ 7239 | 90sx 7254 - 8190 |
| | | | TD 8190 |

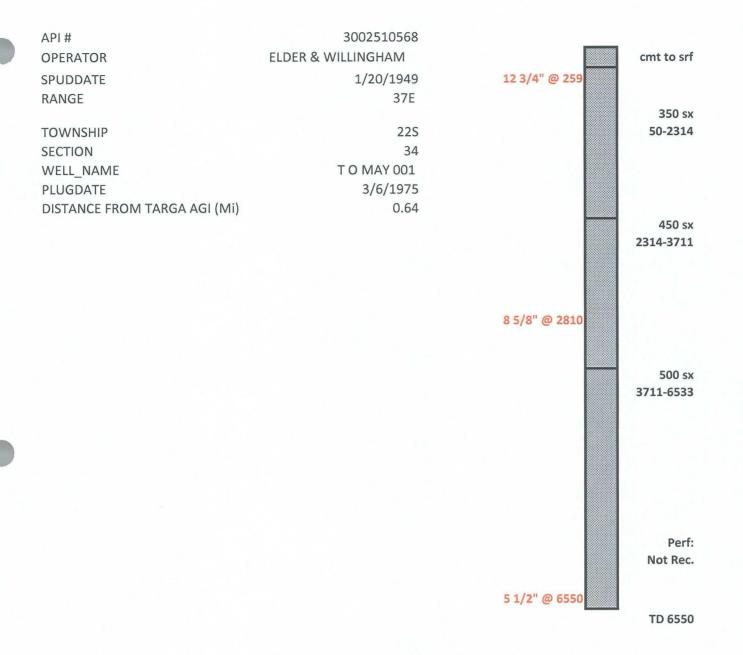


3002510467 API# 680 sx **TEXACO OPERATOR** 208 to srf **SPUDDATE** 1/24/1957 37E **RANGE** 225 **TOWNSHIP SECTION** 26 BAKER A 005 WELL_NAME **PLUGDATE** 2/20/1985 DISTANCE FROM TARGA AGI (Mi) 0.97 CIBP @ 2200 8 5/8" @ 2700 85 sx 2779-2900 CIBP @ 2900 100 sx 3014-4010 Perf: 5617-5701 15' cmt CIBP @ 5900 5 1/2" @ 6440 TD 6450 P&A 1-85

| API# | 3002510485 | | |
|---|---|---|--|
| OPERATOR SPUDDATE RANGE TOWNSHIP SECTION | TEXACO 4/18/1957 37E 22S 27 | | 10 sx 31' to srf. 30 sx |
| WELL_NAME PLUGDATE DISTANCE FROM TARGA AGI (MI) | J V BAKER 010 12/19/1990 0.80 | | 1159-1256 |
| | 8 5/8" @ 270 | O | 35 sx 2610-2766 |
| | | | 25 sx 4695-4985 |
| | | | 25 sx 5205-5550 Perf: 6385-6403 |
| | 5 1/2" @ 642 | 8 | |

TD 6485

3002510486 API# 260 sx YARBROUGH OIL LP To srf **OPERATOR** 7/18/1957 **SPUDDATE** RANGE 37E 225 **TOWNSHIP** 27 **SECTION** J V BAKER 011 WELL_NAME **PLUGDATE** 10/21/2000 DISTANCE FROM TARGA AGI (Mi) 0.59 8 5/8" @ 2700 CIBP @ 2905 Perf 5588 -5800 (1983) Blinebry 10' cmt on CIBP CIBP @ 5950 Perf 6319 - 6424 (1953-73) Drinkard 5 1/2" @ 6429 TD 6452



API# 3002525264 90 ft to srf **OPERATOR** CHEVRON USAINC SPUDDATE 4/27/1976 **RANGE** 37E **TOWNSHIP** 22s **SECTION** 28 WELL_NAME MANDA B TR C 001 9/2/1990 **PLUGDATE** DISTANCE FROM TARGA AGI (Mi) 0.95 8 5/8" @ 1165 sqz 30 sx 465 sx 2762 - 6561 Perf: 6402-6561 5 1/2" @ 6699 TD 6700 P& A 9-90

PLUGGING DOCUMENTATION FOR PLUGGED WELLS WITHIN ONE MILE OF PROPOSED TARGA AGI/SWD

| NO. OF COPIES RECEIVED | | Form C-103 |
|--|---|---|
| DISTRIBUTION | | Supersedes Old C-102 and C-103 |
| ANTAFE | NEW MEXICO OIL CONSERVATION COMMISSION | Effective 1-1-65 |
| ILE | CHANGE CREMETER MADE WROTE | <u></u> |
| .5.G.S. | | 5a. Indicate Type of Lease |
| AND OFFICE | IN MELLY CLEAR DE LO TO TO THE STATE | State Fee 🔀 |
| PERATOR | TO PARKA CTEAL TO SA | 5. State Oil & Gas Lease No. |
| | EFFECTIVE JAMUALN 1, 7013 | |
| SUND | RY NOTICES AND REPORTS ON WELLS OPOSALS TO DRILL OF TO DEEPEN OF PLUG SACK TO A DIFFERENT RESERVOIR. TION FOR PERMIT -" (FORM C-101) FOR SUCH PHOPOSALS.) | |
| OIL SAS | | 7. Unit Agreement Name |
| Name of Operator | OTHER- | 8. Form or Lease Name |
| HUMBLE OIL & R | EFINING COMPANY | W. B. FERREL |
| P.O. BOX 1600 | MIDLAND TEXAS 79701 | 9. Well No. |
| Location of Well | • | 10. Field and Pool, or Wildcat |
| UNIT LETTER | 2180 FEET FROM THE EAST LINE AND 1880 FEET F | PRIM KARD |
| THE SOUTH LINE, SECT | ION 22 TOWNSHIP 22-5 RANGE 37-E NM | |
| | 15. Elevation (Show whether DF, RT, GR, etc.) | 12, County |
| | 3358 DF | LEA |
| mammanini | | |
| | Appropriate Box To Indicate Nature of Notice, Report or NTENTION TO: SUBSEQUE | Other Data ENT REPORT OF: |
| ERFORM REMEDIAL WORK | PLUG AND ABANDON REMEDIAL WORK | ALTERING CABING |
| ERFORM REMEDIAL WORK | LEGG WAS LEADING MONK | ~ |
| EMPORARILY ABANDON | COMMENCE DRILLING OPHS. | PLUG AND ABANDONMENT |
| ======================================= | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| EMPORARILY ABANDON | COMMENCE DRILLING OPNS. | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| EMPORARILY ABANDON | CHANGE PLANS CASING TEST AND CEMENT JOB | |
| OTHER Describe Preposed or Completed Complete | CHANGE PLANS CASING TEST AND CEMENT JQB OTHER petations (Clearly state all pertinent details, and give pertinent dates, included) | PLUG AND ABANDONMENT fing estimated date of starting any propose |
| EMPORARILY ABANDON JULIOR ALTER CASING OTHER Describe Proposed or Completed Complet | CHANGE PLANS CASING TEST AND CEMENT JOB | PLUG AND ABANDONMENT fing estimated date of starting any propose 6 000, TESTED 3585. 1-3100. -2883, TESTED -2500. 5ET 10 SX CLASS H |
| EMPORARILY ABANDON JULIOR ALTER CASING OTHER DESCRIBE Proposed or Completed Courses, SET 50 SX (PLUG W/1000) 2. CUT 2" TBG 3. SET 25 SX (PLUG CUT 5/2" CS 5. SET 200 SX 6. SET 100 SX PLUG W/200 7. SET 75 SX (PLUG CUT 5/2") 8. LOADED HOLE CEMERT SUITE 9. INSTALLE COURSE | CHANGE PLANS CHANGE PLANS CASING TEST AND CEMENT JOB OTHER PRESIDENT PLUC AT 6440- PSI, HELD OK. AT 3787 AND PULLED ASS H CEMENT PLUC FROM 3785- GC AT 3502 AND PULLED. CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3100 PSI, HELD OK. CLASS H CEMENT PLUC FROM 3100 PSI, HELD OK. CLASS H CEMENT PLUC FROM 3100 PSI, HELD OK. CLASS H CEMENT PLUC FROM 3802 E WITH MUD LADEN FLUID AND 3 FACE PLUC. D DRY HOLE MARKER AS REQUIRED. | PLUG AND ABANDONMENT DE LA SET 10 SX CLASS HED BY NMOCC. |
| EMPORARILY ABANDON JULIOR ALTER CASING OTHER DESCRIBE Proposed or Completed Courses, SET 50 SX (PLUC W/1000) 2. CUT 2" TBC 3. SET 25 SX (PLUC SX SET 200 SX (PLUC W/200) 5. SET 200 SX (PLUC W/200) 7. SET 75 SX (PLUC W/200) 7. SET | CHANGE PLANS CHANGE PLANS CASING TEST AND CEMENT JOB OTHER PRETATIONS (Clearly state all pertinent details, and give pertinent dates, included the pertinent dates). PROPERTY PLUC AT 6440- PSI, HELD OK. AT 3787 AND PULLED ASS H CEMENT PLUC FROM 3785- GC AT 3502 AND PULLED. CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3100 PSI, HRLD OK. CLASS H CEMENT PLUC FROM 3100 PSI, HRLD OK. CLASS H CEMENT PLUC FROM 2883 E WITH MUD LADEN FLUID AND SERVICE PLUC. D DRY HOLE MARKER AS REQUIRED TO DRY HOLD TO DRY | PLUG AND ABANDONMENT DESCRIPTION OF THE STED JUNE 1100 STESTED 2500. ED BY NMOCC. |
| EMPORARILY ABANDON JULIOR ALTER CASING OTHER DESCRIBE Proposed or Completed Courses, SET 50 SX (PLUC W/1000) 2. CUT 2" TBC 3. SET 25 SX (PLUC SX SET 200 SX (PLUC W/200) 5. SET 200 SX (PLUC W/200) 7. SET 75 SX (PLUC W/200) 7. SET | CHANGE PLANS CHANGE PLANS CASING TEST AND CEMENT JOB OTHER PRESIDENT PLUC AT 6440- PSI, HELD OK. AT 3787 AND PULLED ASS H CEMENT PLUC FROM 3785- GC AT 3502 AND PULLED. CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3502 CLASS H CEMENT PLUC FROM 3100 PSI, HELD OK. CLASS H CEMENT PLUC FROM 3100 PSI, HELD OK. CLASS H CEMENT PLUC FROM 3100 PSI, HELD OK. CLASS H CEMENT PLUC FROM 3802 E WITH MUD LADEN FLUID AND 3 FACE PLUC. D DRY HOLE MARKER AS REQUIRED. | PLUG AND ABANDONMENT DESCRIPTION OF THE STED JUNE 1100 STESTED 2500. ED BY NMOCC. |

NEW MEXICO OIL CONSERVATION COMMIL. 40N Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning

| | Indicate nat | ure of re | port by checking | below: | ID ID |
|--|---|---|---|--|--|
| REPORT ON BEGINNING D | RILLING OPERATIONS | | REPORT ON REPA | AIRING WELL | |
| REPORT ON RESULT OF S TREATMENT OF WELL | HOOTING OR CHEMICAL | | REPORT ON PUL ALTERING C | LING OR OTHERW | MAY |
| REPORT ON RESULT OF T | EST OF CASING | | REPORT ON DEE | PENING WELL | HO |
| REPORT ON RESULT OF | PLUGGING OF WELL | x | | | BES OFF |
| | Bristow. | 0klaha | | May 8 | |
| OIL CONSERVATION CO | OMMISSION, | | Place | | Date |
| Santa Fe, New Mexico. Gentlemen: | | | | コム | LICATE |
| Following is a report on | | e results o | | _ | |
| Olean Petroleum Co | ANY OR OPERATOR | | Ferrell LEASE | Well No. 2 | in th |
| SW SK SK | of Sec 22 | <u> </u> | | , R. 37 | , N. M. P. M. |
| Penrese | Field, | | | Lea | Count |
| The dates of this work | ware as follows: Com | ene ed . | ord 1 28th. Wi | nt shed New At | h 1050 |
| and approval of the pro DETAI Le was filled with in bridge & dumpe coment at 3295°. F LTY mud to 1065°. | posed plan was (LED ACCOUNT OF heavy mad to 3300 od 28 sacks of concut in 1000 of heave 7" pipe was | WORK Let was let was noted | ned. (Cross out DONE AND RE mud settle fo t ement set , ripped 7" o bailed mud t | incorrect words) CSULTS OBTAIL OF 24 hrs, the 16 hrs and re ag off at 190 0 1170°, put | NED on bailed to 345 on bailer; found of and filled w in bridge & dom |
| and approval of the pro DETAI • was filled with in bridge & dumpe coment at 3295'. A sacks of Inour em at 360', bridged 30' of top, bridged and let it exten | posed plan was (| WORK I let ent; le evy mid pulled, hele wi n 18 sa he top | ned. (Cross out DONE AND RE mud settle fo t ement set , ripped 7" o builed mud t th heavy mud also of Incor o with Incor es ground. Casin | incorrect words) CSULTS OBTAIL R 24 hrs, the 16 hrs and re ag off at 190 0 1170', put to 350' of to coment. Fille mont. Comente g left in hol | NED in bailed to 345 in bailer; found O' and filled w in bridge & dum p, ripped 8-5/8 d hole with hear d in 1 joint of m 767° of 8-5/8 |
| and approval of the pro DETAI • was filled with in bridge & dumpe cement at 3295'. F vy mud to 1065'. A at 360', bridged 30' of top, bridged e and let it exten 5' of 7", and 158' | posed plan was (| WORK 1. let ent; le evy mid pulled, hole wi n t sep ace of having | ned. (Cross out DONE AND RE mud settle fo t ement set , ripped 7" o builed mud t th heavy mud also of Incor o with Incor es ground. Casin | incorrect words) CSULTS OBTAIL R 24 hrs, the 16 hrs and ra ag off at 190 e 1170', put to 350' of to cement. Fille ment. Cemente g left in hol from 158' to | NED in bailed to 345 in bailer; found O' and filled w in bridge & dum p, ripped 8-5/8 d hole with hear d in 1 joint of m 767° of 8-5/8 |
| and approval of the pro DETAI • was filled with in bridge & dumpe cement at 3295'. F vy mud to 1065'. A at 360', bridged 30' of top, bridged o and let it exten 5' of 7", and 158' Witnessed by L. E | posed plan was (| WORK 1, let ent; le avy mad pulled, hole wi n 18 sa he top nee of | ned. (Cross out DONE AND RE mud settle fo t ement set , ripped 7" e beiled mud t th heavy mud alsof Incor e with Incor es ground. Casin been cemented | incorrect words) CSULTS OBTAIL R 24 hrs, the 16 hrs and re ag off at 190 e 1170', put to 350' of to cement. Fille mont. Cemente g left in hol from 158' to | NED in bailed to 345 in bailer; found 0° and filled w in bridge & dum p, ripped 9-5/8 d hole with hear d in 1 joint of ex 767° of 8-5/8 surface whenrus col-pusher. |
| and approval of the pro DETAI • was filled with in bridge & dumpe cement at 3295'. P vy mnd to 1055'. A sacks of Incar em at 360', bridged 30' of top, bridged and let it exten 5' of 7", and 158' Witnessed by L. E | posed plan was (LED ACCOUNT OF heavy mid to 3500 od 28 sacks of central 1000 of heavy mid to 1000 of heavy mid to 1000 of heavy mid to 111ed hole and dumped in dead filled to to 1000 of 1000, the 1000 of 1000, the 1000 of 1000 have | WORK 1. let ent; le ent; le avy mad pulled, hole wi n 18 sa he top ase of having | ned. (Cross out DONE AND RE mud settle fo t coment set , ripped 7" o beiled mud t th heavy mud clus of Incor of ground. Camin been comented company I hereby syear or | incorrect words) CSULTS OBTAIL R 24 hrs, the 16 hrs and re ag off at 190 e 1170', put to 350' of to cement. Fille mont. Cemente g left in hol from 158' to | NED on bailed to 345 on bailer; found of and filled w in bridge & dum op, ripped 8-5/8 d hole with hear d in 1 joint of surface whenru |
| and approval of the pro DETAI • was filled with in bridge & dumpe cement at 3295'. P vy mnd to 1055'. A sacks of Incar em at 360', bridged 30' of top, bridged and let it exten 5' of 7", and 158' Witnessed by L. E | posed plan was (| WORK 1. let ent; le ent; le evy mad pulled, hole wi n 18 sa he top ase of having | ned. (Cross out DONE AND RE mud settle for tement set , ripped 7" o beiled mud t th heavy mud clus of Incor with Incor ca greund. Casin been cemented Ran Patroleum Company I hereby swear or is true and con ret Name | incorrect words) CSULTS OBTAIL R 24 hrs, the 16 hrs and re ag off at 190 e 1170', put to 350' of to cement. Fille mont. Cemente g left in hol from 158' to | NED on bailed to 345 on bailer; found of and filled w in bridge & dum op, ripped 8-5/8 d hole with hear d in 1 joint of surface whenru |
| and approval of the pro DETAI • was filled with in bridge & dumpe coment at 3295°. F vy mad to 1055°. A sacks of Incur ext at 360°, bridged 50° of top, bridged 50° of 7", and 188° Witnessed by L. E Subscribed and sworn to be | posed plan was (LED ACCOUNT OF heavy mid to 3500 od 28 sacks of central 1000 of heavy mid to 1000 of heavy mid to 1000 of heavy mid to 111ed hole and dumped in dead filled to to 1000 of 1000, the 1000 of 1000, the 1000 of 1000 have | WORK 1. let ent; le ent; le evy mad pulled, hole wi n 18 sa he top ase of having | ned. (Cross out DONE AND RE mud settle for tement set , ripped 7" o beiled mud t th heavy mud clus of Incor with Incor es ground. Casin been cemented an Patroleum Company I hereby sweet or is true and correct Name | incorrect words) CSULTS OBTAIL F 24 hrs, the 16 hrs and re ag off at 190 e 1170', put to 350' of to coment. Fille ment. Comente g left in hol from 158' to affirm that the i | NED in bailed to 345 in bailer; found in bridge & dam in bridg |
| te was filled with in bridge & dumps cement at 3295'. Fivy and to 1068'. A sacks of Incur cement at 360', bridged 30' of top, bridged 30' of top, bridged 5' of 7", and 158' Witnessed by L. E | posed plan was (LED ACCOUNT OF heavy mud to 3500 od 28 sachs of central in 1000° of heavy mud did and filled to the did and filled to the did at the above surface of 10°, the 10° 10°, | WORK 1. let ent; le ent; le evy mad pulled, hole wi n 18 sa he top ase of having | ned. (Cross out DONE AND RE mud settle for tement set , ripped 7" o beiled mud t th heavy mid cles of Incor co grand. Cam n been cerented an Patrolcum Company I hereby swear or is true and con ret Name Position Vice | incorrect words) CSULTS OBTAIL R 24 hrs, the 16 hrs and re ag off at 190 e 1170', put to 350' of to coment. Fille ment. Comente g left in hol from 158' to affirm that the in Prosident EAN PETROLEUM Coments Comen | NED in bailed to 345 in bailer; found in bridge & dum p, ripped 9-5/8 d hole with hear d in 1 joint of ex 767° of 8-5/6 surface whenrus col-pusher. Title information given abov |

Form C-102

NE . MEXICO OIL CONSERVATION COMM.ISSION Santa Fe, New Mexico

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

| | | Indicate nature | of motice by checking | ng below: 💉 | |
|--|---|--|--|---|--|
| NOTICE OF INTER SHUT-OFF | TION TO TEST | CASING . | NOTICE O CHEM | F INTENTION TO SI | HOOT OR |
| NOTICE OF INTE | NTION TO CHA | NGE PLANS | MOTICE O | F INTENTION TO PRINTER CASI | NG ZR |
| NOTICE OF INTE | NTION TO REP. | AIR WELL | | MORCE | 19 TO 19 |
| NOTICE OF INTEN | TION TO DEEP | PEN WELL | NOTICE O | F INTENTION TO P | TO SELL X |
| | | Hobb | s, New Mexico | October 16th, 1 | Date |
| OIL CONSERVATION Santa Fe, New Mex | | ON, | | | |
| Gentlemen: Following is a notic | e of intention to | do certain work | as described below | at the | |
| company of the | ot al | W. B.F | erol . | Well No | ⁱⁿ -5½∕↓ |
| of Sec. 22 | T. 99 | R. | N. M. P. M., | Deservices | Field. |
| | 0 22 | County. | | Lastrosa | |
| Len | FULL | DETAILS OF | PROPOSED PLA | AN OF WORK | |
| FOLI. | OW INSTRUCTI | ONS IN THE R | ULES AND REGULA | ATIONS OF THE COM | MMISSION |
| ill with mud till with mud till with mud t | o 2130; brid o 1150; brid o 275; brid | te and cemen dge and cemen dge and cemen | t with five san at with ten san t with ten san t with ten san tion marker to | oka of comment on of comment of comment | bove ground. |
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| ill with mad t ill with mud t ill with mud t | o 2130; brid o 1150; brid o 275; brid | te and cemen dge and cemen dge and cemen | nt with ten sact t with ten sact t with teneacla | oka of comment on of comment of comment | bove ground. |
| ill with mad t ill with mud t ill with mud t | o 2130; brid o 1150; brid o 275; brid | te and cemen dge and cemen dge and cemen | nt with ten sact t with ten sact t with teneacla | oka of comment on of comment of comment | bove ground. |
| ill with mud t ill with mud t ill with mud t | o 2130; brid o 1150; brid o 275; brid | te and cemen dge and cemen dge and cemen | nt with ten sact t with ten sact t with teneacla | oka of comment on of comment of comment | bove ground. |
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| ill with mud till with mud till with mud to | o 2130; bride o 1150; bride o 275; bride surface exc | te and cemen dge and cemen dge and cemen | nt with ten sact t with ten sact t with teneacla | oka of comment on of comment of comment | ex C |
| ill with mud till with mud till with mud to | o 2130; bride o 1150; bride o 275; bride surface exc | te and cemen dge and cemen dge and cemen | t with ten sach t with ten sach t with ten sach tion marker to | Company or Operator | ex co |
| ill with mud to ill with mud to ill with mud to Approved except as follows: | o 2130; bride o 1150; bride o 275; bride surface exc | dge and cemen dge and cemen ge and cemen d set regula | by Position Sence | Company or Operator | extended and the second of the |
| ill with mud to ill with mud to ill with mud to Approved except as follows: | o 2130; bride o 275; bride surface and | dge and cemen dge and cemen ge and cemen d set regula | t with ten sach t with ten sach t with ten sach tion marker to | Company or Operator | ex co |
| ill with mad to the state of th | o 2130; bride o 275; bride surface and | dge and cemen dge and cemen ge and cemen d set regula | by Position Sence | Company or Operator communications regard | ex co |

| Colonia 2 Compa | State of New Mexico | Form C-123 |
|--|--|--|
| Submit 3 Copies to Appropriate District Office | Energy, Minerals and Natural Resources Departmen | THE Revised 1-1-89 |
| DISTRICT P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATION DIVISIO: 310 Old Santa Fe Trail, Room 206 | ACT VILLAN |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mexico 87503 | 30-025-10460 5. Indicate Type of Lease |
| DISTRICT HE 1000 Rd. Macc. NM 87410 | | 6 Scor Ou & Ou Leave to |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESE | TICES AND REPORTS ON WELLS ROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO RIVOIR, USE "APPLICATION FOR PERMIT" C-101) FOR SUCH PROPOSALS.) | A Leave Name of Chic Agriculture States M.W. COLL (FORMERLY LANGLIE MATTIX PENROSE SAND UNIT #18-1) |
| 1. Type of Well: On X | · · | FENNOSE SAND UNIT #10-1) |
| ANADARKO PETROLE | EUM CORPORATION | a Westin |
| Address of Operator | ID TV 70700 0407 | 9 Poca name or Wudosi |
| 4. Well Location | | LANGLIE-MATTIX SR ON GRBG |
| Unit Letter M 890 | Feet From The SOUTH Line and 33 | 30 Feel From The EAST Link |
| Section 26 | Township 22S Range 37E | NMPM LEA |
| | Appropriate Box to Indicate Nature of Notice | e, Report, or Other Data |
| NOTICE OF IN | TENTION TO: S | SUBSEQUENT REPORT OF |
| ERFORM REMEDIAL WORK | PLUG AND ABANDON REMEDIAL WORK | ALTERING CASING |
| EMPORARILY ABANDON | CHANGE PLANS COMMENCE DRIL | LING OPNS ELUG AND ABANDONMENT X |
| PULL DRALTER CASING | CASING TEST AND | DICEMENT JOB (_ |
| THER: | OTHER | ······································ |
| 12. Describe Proposed or Completed Oper work, SEE RULE 1103. | Buons (Clearly state all pertinent details, and give persinent dates | s, including estimated date of starting any projessed |
| | UP P & A EQUIP; NU BOP; RAN WITH TUBING; TAGGED 2,808' | D UP @ 3,287"; PUMPED 75.SX CEMENT; |
| | 2,949'; CIRCULATED HOLE WITH 120 bbls OF MUD; PUI 1'; PULLED OUT WITH TUBING; PERFORATED @ 1,300 CED TO 1,200' | |
| | I,186'; LAID TOWN TUBING AND PACKER; PERFORATE ESTED TO 500#;GOOD; PUMPED 10 SACKS 60' TO SUF IOLE MARKER. | |
| | | |
| | | A Barrier |
| | | ₹ 7.4a · `` |
| 7 | , | ACE AND PROPERTY OF THE PROPER |
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| tourrow are to some to colors from for for a | will state of the second secon | roduction Engineer. 04/17/02 |
| Secret St. M. DIEGERALD SAME R. N. | Mueller | Hobbs 900 |
| STORET NAME OF INTERIOR FROM NAME OF THE REAL PROPERTY NAME OF STREET NAME OF STR | Mueller | roduction Engineer. 04/17/02 |
| | Mueller | roduction Engineer. 04/17/02 15.75000 915/683-0555 NCE OFFICER |
| (Thu space for State Vise) | Mueller COMPLIA! | roduction Engineer. 04/17/02 |

| Submit 3 Copies To Appropriate State of New Mexico District Office | Form C-103 |
|--|---|
| District Office Energy, Minerals and Natural Resou | Irces May 27, 2004 |
| 1625 N. French Dr., Hobbs, NM 88240 | WELL API NO. |
| District II 1301 W Grand Ave , Artest CEIVED CONSERVATION DIVISIO | ON 30-025-10461 5. Indicate Type of Lease |
| 88210 1220 South St. Francis Dr. | 5. Indicate Type of Lease STATE FEE |
| District III 1000 Rio Brazos Rd., Aztec, MAN 0 5 2009 Santa Fe, NM 87505 | 6. State Oil & Gas Lease No. |
| 87410 <u>District IV</u> 1220 S St Francis Dr., Santa QBBSOCD | |
| 87505 SUNDRY NOTICES AND REPORTS ON WELLS | 7. Lease Name or Unit Agreement |
| (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACI DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | KTOA Name |
| 1. Type of Well: Oil Well Gas Well Other WIW | UNIT |
| | 8. Well Number 182 |
| Name of Operator LEGACY RESERVES OPERATING LP / | 9. OGRID Number 240974 / |
| Address of Operator P.O. BOX 10848 MIDLAND, TX 79702 | 10. Pool name or Wildcat LANGLIE-MATTIX SR QN GRBG |
| 4. Well Location | |
| | and330 feet from theWest_ line. |
| Section 26 Township 22S Range 37 11. Elevation (Show whether DR, RKB, F | |
| 3322' GR | (1, ort, ott.) |
| Pit or Below-grade Tank Application ☐ or Closure ☐ Pit type Depth to Groundwater Distance from nearest fresh water | well Distance from nearest surface |
| Pit typeDepth to GroundwaterDistance from nearest fresh water water | Well Distance from hearest surface |
| Pit Liner Thickness: mil Below-Grade Tank: Volume | hhle: Construction Material |
| Tit Enter (moniess). | |
| 12. Check Appropriate Box to Indicate Nature of I | Notice, Report or Other Data |
| NOTICE OF INTENTION TO: | SUBSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIA | |
| TEMPORARILY ABANDON CHANGE PLANS COMMEN | CE DRILLING OPNS. PANDA |
| PULL OR ALTER CASING MULTIPLE COMPL CASING/C | CEMENT JOE Approved for plugging of well bore only. Liability under bond is retained pending receipt |
| OTHER: OTHER: | of C-103 (Subsequent Report of Well Plugging) which may be found at ACD Web Page under |
| Describe proposed or completed operations. (Clearly state all pertinestimated date of starting any proposed work). SEE RULE 1103. F | nent details, and give pertinent dates including |
| diagram of proposed completion or recompletion. | |
| 12/10/08- MIRU BCM & ASSOC PLUGGING UNIT, NDWHE. NUBOP. RELEASE PKR., RIH W/ 25 JTS. SOFN | POOH & LD 103 JTS. 2 3/8" IPC TBG & PACKER. |
| 12/11/08- NDWHE. RIH W/ 104 JTS. TBG. & 7" CIBP AND LEFT HANGING. WAITING | |
| 12/12/08- SET 7" CIBP @ 3245' CIRCULATE HOLE W/ MUD LADEN FLUID. MIX AN HRS RIH TO TAG PLUG @ 3100'. PUH TO 2457'. MIX AND PUMP 50 SX CLA | SS C NEAT CMT @ 2457', POOH ABOVE CMT, SDFN. |
| 12/15/08- RIH W/ TBG TO TAG PLUG @ 2150'. POOH W/ TBG. DIG OUT CELLAR & 12/16/08- RUWL. RIH TO CUT 7" CSG @ 1235'. RDWL. WORKED CSG FREE, LD 12 J | ND 7" WHE. SDFN ITS RANGE 2 STC 23# 7" CSG, SDEN |
| 12/17/08- POOH & LD REMAINDER OF 7" CSG (41 JTS TOTAL). RIH W/ TBG. TO | 1250', M&P 80 SX CLASS C NEAT CMT, SD, WOC 4 HRS. |
| RIH TO TAG PLUG @ 988'. RUWL TO RIH & PERF. 8 5/8" CSG. @ 440', RD\ NEAT CMT. SD WOC OVERNIGHT. SDFN. | NL. RIH TO SET PKR @ 100'. SQUEEZE 250 SX CLASS C |
| 12/18/08- RIH TO TAG PLUG. DID NOT TAG. RESQUEEZE W/ 250 SX CLASS C NEAT CMT. FROM 48' TO SURFACE, RIG DOWN. JOE | REAT CMT WOC FOR 4 HRS. RIH TO TAG PLUG @ 48'. B COMPLETE. INSTALL PXA MARKER, BACKFILL CELLAR |
| AND CLEAN LOCATION. I hereby certify that the information above is true and complete to the best of | my knowledge and belief. I further certify that any |
| pit or below-grade tank has been/will be constructed or closed according to NMOCD guidalternative OCD-approved plan []. | gelines ∐, a general permit ∐ or an (attached) |
| SIGNATURE Kent William TITLE: SENIOR PETROLEUM | 1 ENGINEER DATE 1/2/09 |
| Type or print name KENT WILLIAMS 'E-mail address: For State Use Only | Telephone No. (432)689-5200 |
| APPROVED PETROLEUM EN | IGINEER LANG COOL |
| DT. HILE | IGINEER DATE 14 N 0 6 2009 |
| Conditions of Approval (if any): | |

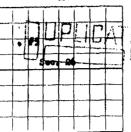
| Submit Copies To Appropriate District Office District1 Ener | State of New Mexico gy, Minerals and Natural Resources | Form C-103 May 27, 2004 |
|--|---|---|
| bistrict II | | WELL API NO. 30-025-10463 |
| 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV | CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 | 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | | |
| SUNDRY NOTICES AND (DO NOT USE THIS FORM FOR PROPOSALS TO DR DIFFERENT RESERVOIR. USE "APPLICATION FOR PROPOSALS.) | ILL OR TO DEEPEN OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name Baker "A" |
| 1. Type of Well; Oil Well X Gas Well | Other | 8. Well Number 1 |
| 2. Name of Operator John H. Hendrix Corpor | ration | 9. OGRID Number 012024 |
| 3. Address of Operator P. O. Box 3040 Midland, TX 79702 | -3040 | 10. Pool name or Wildcat Drinkard |
| 4. Well Location | | |
| Unit Letter D : 660 | feet from the North line and 60 | |
| Section 26 | Township 22S Range 37E ation (Show whether DR, RKB, RT, GR, etc.) | NMPM CountyLea |
| 3340 | o' GR | |
| Pit or Below-grade Tank Application or Closure | | Unknown |
| | Distance from nearest fresh water well 1320 Distance Tank: Volume bbls; C | construction Material |
| | | |
| 12. Check Appropria | te Box to Indicate Nature of Notice | , Report of Other Data |
| TEMPORARILY ABANDON CHANGE | ND ABANDON 🗵 REMEDIAL WOR | RILLING OPNS. P AND A |
| OTHER: | ☐ OTHER: | П |
| 13. Describe proposed or completed opera | tions. (Clearly state all pertinent details, ar | nd give pertinent dates, including estimated date ttach wellbore diagram of proposed completion |
| 1. Perf. 3300'. Set CR at 3200' & squeeze w/ 2. Fill w/ 10# mud laden fluid. 3. Perf. 1250'. Set CR at 1100' & squeeze w/ 4. Fill w/ compare 5. 1100' to wrife 1 | ē. | |
| 4. Fill w/ cement fr. 1100' to surface.5. Cut well head, install plate and dry hole ma | rker. | |
| , | | 222324757611718293031 |
| THE OIL CONSERVATION | ON DIVISION MUST | 30. |
| BE NOTIFIED 24 HOUR | IS PRIOR TO THE | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| BEGINNING OF PLUGG | ING OPERATIONS. | P. 24/10/68/95 V. 2. |
| | | 10/88/954 |
| | | Comment of the |
| I hereby certify that the information above is tru | ue and complete to the best of my knowled | ge and belief. I further certify that any pit or below- |
| grade tank has been will be constructed or closed accor | ding to NMOCD guidelines [], a general permit [| or an (attached) alternative OCD-approved plan |
| SIGNATURE HOME #/NOW | TITLE Vice President | DATE 06/29/2005 |
| Type or print name Ronnie H. Westbrook For State Use Only | E-mail address: | Teleph упе No (132)(184 6631 |
| APPROVED BY: Hay Whing | ETITLE | DATE |
| Conditions of Approval (if ary): | OC FIFLD PRO | |
| V | OC FIELD REPRESENTATIVE II/S | STAFE MANNE |

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| | Baker | V | V | 0.0 | K | X | | -1" | | | | |
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| 400 | 8-17-75 Permy Joos | H | 1 | > , | / | / | } | | | | | |
| | down 5"x7' csg annulus | A | / | <u> </u> | 1 | / | 11 | 21.4 | 1250 | 1000 | er CK | A |
| 800 | WOIX done by Skelly | 1 | 7 | <u></u> | 1 | \searrow | - | 1700 1537/ | | 100-1 | joo \$ 51 | rofa. |
| | Coment from surface | \searrow | 7 | <u> </u> | | | } | W | ema | ** | | |
| 12:00 | to 960 by bond | 7 | ارتب | Ź, | 4. | 7 | D | | | | - 200 | EX. |
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| 3600 | at 3470. Square hele | | 13 | E | 1 | L | i | n 8 ! | s" he | le. | | |
| ii. | A 3534'W 300 5X Top Cement 3420' | | 1 | F | H | | | | | | | |
| 4000 | Cement 3420 | | | | | | | | | | | |
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| 6800 | | | | - ٦ | | | - | £4 | | | | |
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| | P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 | Form C-103 Revised 10-1-73 |
|--|--|---|
| U.S.O.S. LAND OFFICE | | Sa. Indicate Type of Lease State Fee X |
| DPERATOR | | 5, State Oil & Gas Lease No. |
| SUNDRY NOTICE | ES AND REPORTS ON WELLS PILL ON TO DECEM OF THE BACK TO B DIFFERENT RESERVOIR. | |
| | MIT - " (FORM C-101) FOR BUCH PROPOSALS.) | 7, Unit Agreement Name |
| WELL XX WELL OTHER. | | 8. Farm or Lease Hame |
| Getty Oil Company | | Baker 'A' |
| P O Roys 728 Hobbe Nov | Marian 89240 - | 9, Well No. |
| P. O. Box 728, Hobbs, New | w Mexico 88240 | 10. Field and Pool, or Wildcar |
| WHIT LETTER E 1650, | FEET FROM THE NOrth LINE AND 990 FE | Undesignated Blinebry Oil &Gas |
| | TOWNSHIP 22-S RANGE 37-E | anon (()) |
| | 15. Elevation (Show whether DF, RT, GR, etc.) 3339' (DF) | Lea |
| Check Appropria | ate Box To Indicate Nature of Notice, Report | |
| PERFORM REMEDIAL WORK | PLUE AND ABANDON REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON | COMMENCE DRILLING OPNS. | PLUE AND ASANDONMENT XX |
| PULL OR ALTER CARTHS | CHANGE PLANS CABING TREE AND CEMENT JOB | |
| ФТИБЯ. | | |
| 7, Describe Proposed or Completed Operations (CI work) SEE RULE 1 fos. | learly state all pertinent details, and give pertinent dates, in | ncluding estimated date of starting any proposed |
| l. Rigged up. Install B | BOP. | |
| 2. Spot 100 sx. cement p | plug from 4014-3014'. | |
| Set CIBP @ 2900' & sp Spot 100 sx cement pl | pot 15 sx cement on top of plug. | . Plug from 2900-2800'. |
| | lug from 1208-208'. | |
| o. Dece too by coment by | . h | |
| 6. Discovered casing lea | ik. Drill out cement to CIBP @ | 2900'. Leak from 2900- |
| 6. Discovered casing lea 2779'.7. Set cement retainer @ | 2749'. Squeezed csg leak from | |
| 6. Discovered casing lea 2779'.7. Set cement retainer @ 'H' cement containing | 2749'. Squeezed csg leak from 2% CaCl. | n 2900-2779' W/85 sx class |
| Discovered casing lea 2779'. Set cement retainer @ 'H' cement containing Set CIBP @ 2200'& cem W/300 sx Class H Neat | 2749'. Squeezed csg leak from g 2% CaCl. ment retainer @ 2080'. Squeeze | csg void 2153-2187' |
| Discovered casing lea 2779'. Set cement retainer @ 'H' cement containing Set CIBP @ 2200'& cem W/300 sx Class H Neat Perforate 9 5/8" Csg | 2749'. Squeezed csg leak from g 2% CaCl. ment retainer @ 2080'. Squeeze c cement. Spot 20' Cement on to W/4 JS @ 500'. Cement to surfa | csg void 2153-2187' |
| 6. Discovered casing lea 2779'. 7. Set cement retainer @ 'H' cement containing 8. Set CIBP @ 2200'& cem W/300 sx Class H Neat 9. Perforate 9 5/8" Csg 500' W/380 sx. cement | 2749'. Squeezed csg leak from g 2% CaCl. ment retainer @ 2080'. Squeeze c cement. Spot 20' Cement on to W/4 JS @ 500'. Cement to surfa | csg void 2153-2187' op of retainer. ace thru 9 5/8" perfs @ |

REFIVED HOSE JEEN LE

| (Revised | T/1/88 | |
|----------|--------|--|
| / Port | C-100 | |



NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

WELL RECORD 7 A 1 30

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

Skelly Oil Company Baker "A" Drinkard Pool, Lea Well is 1650 feet from North of Section 26 If State Land the Oil and Gas Lease No. is....... Drilling Commenced. Jan. 24 , 1957 Drilling was Completed. Feb. 16 Name of Drilling Contractor Makin Drilling Company Address New Mexico Not Coffidential 19 OIL SANDS OR ZONES No. 1, from 6443 to 6450 No. 4, from IMPORTANT WATER SANDS Include data on rate of water inflow and elevation to which water rose in hole. CASING RECORD CUT AND PULLED FROM PERFORATIONS PURPOSE 8-5/8" 24 & 32# 27001 Surface Prod. MUDDING AND CEMENTING RECORD NO. SACES OF CEMENT METHOD USED RECORD OF PRODUCTION AND STIMULATION (Record the Process used, No. of Qts. or Gals. used, interval treated or shot.) Acidised in two stages with 3000 gallons. Fractured with 5000 gallons.

Result of Production Stimulation Plowed 117.95 bbls. oil in 24 hours thru 3/4" 20/64" & 16/64" shokes.

Depth Cleaned Out

BE "3D OF DRILL STEM AND SPECIAL TESTY

If drill-stem or other special tests or deziation surveys were made, submit report on separate sheet and attach hereto

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| | was | oil; | | % was c | mulsion; | 3 | ••••• | % water | ; and | % was | sediment. A.P.I. |
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| San A | Andres | 3928 | | Т. | Granite | | | | Т. | Dakota | ••••••• |
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Position Secretary

Name Lem Peters

OIL CONSERVATION COMMISSION,
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Title MI & SAS Inspector

Send communication regarding well to

Address P.O. Box 950 Midland, Texas

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| DISTRIBUTION | Δ | រី ត្រូវ | Supersedes Old C-102 and C-103 | |
| SANTAFE | NEW MEXICO OT CON | SERVATION COMMISSION | Effective 1-1-65 | |
| FILE | | James II in the Edit | P | |
| J.S.G.S. | TO STATE OF BUTCHES | <u> 1000 و 11 مر 11 000 و 11 مر 1</u> | | |
| AND OFFICE | | | State F | ee. |
| PERATOR | | | 5. State Oil & Gas Lease No | |
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| SUNDRY (DO NOT USE THIS FORM FOR PROPOUSE "APPLICATION | NOTICES AND REPORTS OF | WELLS BACK TO A DIFFERENT RESERVOIR. ICH PROPOSALS.) | | |
| OIL X GAS WELL Name of Operator | OTHER- | | Lungle Marrix Penr Sand Unit 8. Fam or Lease Name | ose |
| Anadarko Production Com | pany | | Tract No. 19 | |
| Address of Operator | | | 9. Well No. | |
| P. O. Box 247, Hobbs, N Location of Well | ISM WISKICO | | 10. Field and Pool, or Wildon | at |
| UNIT LETTER 1986 | FEET FROM THE East | LINE AND | T FROM Langlie Mattix | |
| د _ با | 27 20 |)¢ 27 E | | III |
| THE South LINE, SECTION | 27_ TOWNSHIP | 2S RANGE 37 E | AMPM. | |
| | 15. Elevation (Show whether | r DF, RT, GR, etc.) | 12. County | 111 |
| | 3229' GR | | Lea | III |
| NOTICE OF INT | PLUG AND ABANDON | REMEDIAL WORK | DUENT REPORT OF: ALTERING CASING PLUG AND ABANDONN | MENT |
| ULL OR ALTER CASING | CHANGE PLANS | OTHER | | |
| OTHER | | | | |
| was found at 3180'. The Pressure tested to 1500 p Rigged up casing pulling and 1800' without being Left 1849' 7" 22" casing Ran tubing to 3100', mis Set plug, ran tubing, sp | s hole was plugged with a si without pressure loss in unit 7/7/66. Found freable to pull casing. Carand 422' of 4–1/2" casing and 422' of 4–1/2" casing 442' of 4–1/2" casing 440 sacks cement at | cement to a point 2001 un 30 minutes. e point of 7" casing at 1 sing shot loose at 15001, and from 32541 to 36761, mud. 15501. | 1500 psi. The tubing free p inside of the 7" casing. 300'. Placed shots at 200. Pulled 1511' of 7" 22 ^f c | י00י |
| . Set plug at 1100' in 8-5 | | | in 8-5/8 casing. Left 11 | 45' |
| | is mud from 1050' to surf | ace. Spotted 10 sacks a | ement in 8-5/8" casing at | ŀ |
| surface. Placed 4" hole | | | | |
| Cleared and leveled loc | ation. | | | |
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| | | | | |
| | | | | |
| . I hereby certify that the information ab | ove is true and complete to the best | of my knowledge and belief. | | |
| | | | | |
| mes 277772 izon | TITLE | Project Supervisor | DATE 7/28/66 | |
| | · · · · · · · · · · · · · · · · · · · | | DATE | |
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| and All | Vicano to | | | |
| PROVED BY 1 ZOLU Z1 - | | | | |
| ONDITIONS OF APPROVAL, IF ANY: | C. PDG: W-V TITLE | | DATE | |

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| | | Form C-103 Supersedes Old |
| SANTA FE | NEW MEXICO OIL CONSERVATION COMMISSION | ** C-102 and C-103 Effective 1-1-65 |
| FILE | <u>: </u> | |
| | Jun 24 11 HS AM 1 | Sa. Indicate Type of Lease |
| LAND OFFICE | | State Fee. X |
| OPERATOR | | 5. State Oil & Gas Lease No. |
| | | |
| SU (DO NOT USE THIS FORM FO USE MAPP | NDRY NOTICES AND REPORTS ON WELLS OF PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. LICATION FOR PERMIT —" (FORM C-101) FOR 30LC PROPOSALS.) | |
| OIL A GAS WELL . | OTHER- | 7. Unit Agreement Name Langlie Mattix Penros |
| Name of Operator | | Sand Unit 8. Farm or Lease Name |
| Anadarko Productio | a Company | Tract No. 19 |
| Address of Operator | La Van Manda | 9. Well No. |
| P. O. Box 247, Eob | DS, New Mexico | 1 |
| | 1980 East 1980 | 10. Field and Pool, or Wildcat |
| UNIT LETTER, | 1980 FEET FROM THE East LINE AND 1980 FEET FROM | Langlie Mattix |
| THE South LINE, S | SECTION 27 YOWASHIP 22 S RANGE 37 E NMPM. | |
| annimininininininininininininininininini | 15. Elevation (Show whether DF, RT, GR, etc.) | 12. County |
| | 3229' GR | Lea |
| 6. Che | ck Appropriate Box To Indicate Nature of Notice, Report or Oth | os Dasa |
| | | REPORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON REMEDIAL WORK | ALTERING CASING |
| EMPORARILY ASANDON | COMMENCE DRILLING OPNS. | ======================================= |
| PULL OR ALTER CASING | CHANGE PLANS CASING TEST AND CEMENT JOB | PLUG AND ABANDONMENT |
| OLL OR ALTER CASING | <u> </u> | |
| OTHER | OTHER | |
| | | |
| 7. Describe Proposed or Complet | ed Operations (Clearly state all pertinent details, and give pertinent dates, including | |
| work) SEE RULE 1103. | | estimated date of starting any proposed |
| Set a plug and Pull 7" casing Set a plug and Set a plug and | spot 25 sks cmt in 7" casing at 3375'. from approximately 2000'. spot 25 sks cmt in top of 7" stub. spot 25 sks. cmt in bottom of 8-5/8" casing set at in top of 8-5/8" casing at surface. Place 4" hole | 1185' |
| 1. Set a plug and 2. Pull 7" casing 3. Set a plug and 4. Set a plug and 5. Spot 10 sks cmt 6. Level and clear | spot 25 sks cmt in 7" casing at 3375'. from approximately 2000'. spot 25 sks cmt in top of 7" stub. spot 25 sks. cmt in bottom of 8-5/8" casing set at in top of 8-5/8" casing at surface. Place 4" hole | 1185' |
| 1. Set a plug and 2. Pull 7" casing 3. Set a plug and 4. Set a plug and 5. Spot 10 sks cmt 6. Level and clear | spot 25 sks cmt in 7" casing at 3375'. from approximately 2000'. spot 25 sks cmt in top of 7" stub. spot 25 sks. cmt in bottom of 8-5/8" casing set at: in top of 8-5/8" casing at surface. Place 4" hold: location. | 1185'. |
| 1. Set a plug and 2. Pull 7" casing 3. Set a plug and 4. Set a plug and 5. Spot 10 sks cmt 6. Level and clear | spot 25 sks cmt in 7" casing at 3375'. from approximately 2000'. spot 25 sks cmt in top of 7" stub. spot 25 sks. cmt in bottom of 8-5/8" casing set at: in top of 8-5/8" casing at surface. Place 4" hold: location. | 1185'. |

FORM C-:01

NF MEXICO OIL CONSERVATION C'UMISSION Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

| You are | hereby notifie | d that it is our ir | itention to commen | nce the drilling of a | | |
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| | kelly 01 | Ll Company | J. V. Ba | | 1 No. 3 in C | NE /4 , 1 |
| of Sec. 27 | , <u>r. 22</u> | Company or Op | N. M. P. M., So. | Eunice | Field, Lea | Co |
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| | | [E.] [#. | of the West | line of Sec | 27-22-37 | |
| | | (Give locat | ion from section or | other legal subdivisi | on lines. Crossoutwre | ong directi |
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| | | It patente | d land the owner | j. V, | Baker | |
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| | _ _ | The lessee | is Skelly | 7 Oil Company | <u> </u> | VII 7 |
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| is as follows | o use the follo | owing strings of | casing and to land New or Second Har | or cement them as i | ndicated: | ¦ Sac |
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| NO. OF COPIES RECEIVED | · | | Form C-103 Supersedes Old |
|--|---|--|--|
| SANTA FE | NEW MEXICO OUL CON | ISERVATION COMMISSION | C-102 and C-103 Effective 1-1-65 |
| FILE | NEW MEXICO OIE CO. | SERVATION COMMISSION | Effective 1-1-65 |
| U.S.G.S. | | • | Sa. Indicate Type of Lease |
| LAND OFFICE | 1 | | State Fee 🗶 |
| OPERATOR | | | 5, State Oil & Gas Lease No. |
| | | | |
| (DO NOT USE THIS FORM USE "AI | JNDRY NOTICES AND REPORTS OF PROPOSALS TO DRILL OR TO DEEPEN OF PLUG | N WELLS BACK TO A DIFFERENT RESERVOIR, UCH PROPOSALS,) | |
| 1. OIL WELL 2. Name of Operator | OTHER- | | 7. Unit Agreement Name Langlie Mattix Penrose Sand Unit 8. Fum of Lease Name |
| Anadarko Produc | tion Company | | Tract No. 13 C |
| Box 247 Hobbs, | New Mexico 88240 | | 3 |
| 4, Location of Well UNIT LETTER | , 660 FEET FROM THE NORT | LINE AND 1980 FEET FROM | Langlie Mattix |
| THE West LINE | SECTION 27 TOWNSHIP 225 | | |
| | | | <u> </u> |
| | 15, Elevation (Show whether | er DF, RT, GR, etc.) | 12. County |
| | 3341' GR | | Lea |
| 15. CI | eck Appropriate Box To Indicate | Nature of Notice, Report or Ot | her Data |
| | OF INTENTION TO: | | T REPORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON | | COMMENCE DRILLING OPNS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CASING | CHANGE PLANS | CASING TEST AND CEMENT JOB | |
| _ | _ | OTHER Change in sta | atus from temporarily |
| OTHER | | | |
| 17. Describe Proposed or Compl work) SEE RULE 1103. | ted Operations (Clearly state all pertinent de | | gged and abandoned g estimated date of starting any proposed |
| 2. 7" casing fil 3. 4" P&A marker 4. All pits fill | l changed from temporar led with 10# mud from a placed in 7" casing in ed, location leveled an and abandoned. | the top of cement at a cement plug at the | 1900' to surface. |
| 18. I hereby certify that the info | mation above is true and complete to the bess | st. Superintendent | DATE 8-17-71 |
| APPROVED BY ALLE | - E. Olego TITLE O | I & GAS INSPECTOR | |

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FORM C-101

NEW MEXI OIL CONSERVATION COMMISSI

Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

| | Mexico | July 20. | 1937 |
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| Plac | u e | Da | te |
| tention to commence th | he drilling of a w | ell to be known as. | |
| J. V. Bal | cer w | il No. 5 in | CSE NW |
| 37. N W PM P€ | ease Emrose Ares | mold L | |
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| y 3400 and to | rotal deb | th with cabl | e tools. |
| mance with Rule 39 of | the General Rule | s and Regulations of | the Commission |
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| f casing and to land o | r cement them a | s indicated: | |
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| t New or Second Hand | Depth | Landed or Cemented | Sacks Cement |
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| New New able we will notify you ould occur at a depth JPLICAT By Position Send of Name | 1100: 3400: a before cementing of about 35. Ely yours, communication re | Cemented Cemented Cemented Cemented Generated Gene | 500 circulated into cellar. 500 g. We estimate 2 2 1277 company erintendent |
| | J. V. Ball 37. N. M. P.M., Peris. 1980 feet (N.) 1.) of the West line ation from section or other and the oil and gas leaded land the owner is ment land the permit see is 1. See to drill well with driving the see to drill w | J. V. Baker We 1 | Lease 1980 feet (N.) of the South line and 1980 feet (N.) of the South line and 1980 feet (N.) of the South line and 27 ation from section or other legal subdivision lines. Cross out wand the oil and gas lease is No |

| FORM C-165 NEW MEXI | ICO OIL CONSERVATION COMMISSION |
|--|--|
| | Santa Fa, New Mexico |
| | |
| - | |
| | WELL RECORD |
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| | |
| Mail to Oil Conec | rration Commission, Santa Fe, New Mexico, or its proper in twenty days after completion of well. Pollow instructions Regulations of the Commission. Indicate questionable data th (1). SUBMIT IN TRIPLICATE. |
| LOCATE WELL CORRECTLY | deguistions of the Commission. Indicate questionable data th (1). SUBMIT IN TRIPLICATE. |
| | Tulsa, Oklahoma |
| J. V. Baker Well No. 5 | Aidress |
| | CSE NW of Sec 27 T 22 |
| R 37 N. M. P. M. Penrose Area | Field, County. |
| Well is 1980 toot south of the North line and 330 | teet west of the East line of Section 27. |
| If State land the oil and gas lease is No | Assignment No Liker Address Eunice, New Mexico |
| If patented land the owner is J. V. B& If Covernment land the permittee is. | Address Settleton 100 200 |
| The Lessee is Skelly 0 | il Co. Address Tulsa, Oklahoma |
| Drilling commenced July 26, 19 37 | Drilling was completed August 31, 1, 37 |
| | Co. Address Ft. Worth, Texas |
| Elevation above sex level at top of casing 3536 | feet. |
| The information given is to be kept confidential until | 19 |
| # E # O # # E # F # | No. 6, from 3609 to 3618 t |
| 50. 2. from. 35601 35701 | No. 5, from to |
| No. 3, from 3575 to 3585 t | No. 6. fromto |
| IMPORTANT W | WATER SANDS |
| nclude data on rate of water inflow and elevation to which | th water rose in hole. |
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| CASING | RECORD |
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| | FROM TO |
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| 7" 20# 8 EW 3426' 7" | |
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| MUDDING AND CK | MENTING RECORD |
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| HOLK CASING WHERE SET OF CRMENT MEYHOL | |
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| PLUGS AND | ADAPTERS |
| Heaving plug—Material Length | |
| Adapters—MaterialSizeSize | - 19 |
| RECORD OF SHOOTING OF | R CHEMICAL TREATMENT |
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| 3-1/2" S. N. G. 340 g | |
| | |
| | |
| Results of shooting or chemical treatment Flowed] | 120 bbls in 34 hours thru 2" tubing. |
| | |
| | PM AND ODDOTAL TRACE |
| | EM AND SPECIAL TESTS re made, submit report on separate sheet and attach hereto. |
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| | S USED Offeet, and fromfeet tofeet |
| Cable tools were used from 3400 test to 3620 | 21 feet, and from |
| PROD | UCTION |
| Put to producing September 13, 1937 | |
| The production of the first 24 hours was . 120 | _barrels of fluid of which |
| | liment. Gravity, Be 40.2 (Corrected) |
| If gas well, cu. ft. per 24 hours | |
| Rock pressure, lbs. per sq. ia | |
| EMPI | OYEES |
| | Ann Manahall |
| J. A. Stein prine | Ace Marshall Driller |
| R. T. Harrod Drille | Ace Marshall Driller |
| R. T. Harrod Drille | Ace Marshall Driller T Define RED ON OTHER SIDE |
| R. T. HATTON Drille PORMATION RECO I hereby swear or affice that the information given here | AGO Marchall Driller Defiler RD ON OTHER SIDE with is a complete and corresponded of the well land all |
| R. T. HATTOL Drille FORMATION RECO I hereby sweat or affirm that the information given here work done on it so far as can be determined from availab | AGO MATCHELL Delite RD ON OTHER SIDE with is a complete and corresponded of the well had, \$11 the records. |
| R. T. HATTOL Drille FORMATION RECO I hereby swear or affirm that the information given here work done on it so far as can be determined from availab | AGO MATCHELL Delite RD ON OTHER SIDE with is a complete and corresponded of the well had, \$11 the records. |
| Re Te Harrod Drille PROMATION RECO I hereby swear or affirm that the information given here work done on it we far as can be determined from availab Subscribed and swore to before me this. | TOTAL AND MATCHES IDE With is a complete and correspond of the wall and All to records. Hobbs, Nay Yearth Saptamore 182, 19 |
| Re T. Harrod Drille FORMATION RECO I hereby awar or affirm that the information given herein work done on it so far as can be determined from availab Subscribed and swore to before me this. Subscribed and swore to before me this. | The Marchall Driller D |
| Re Te Harrod Drille FORMATION RECO I hereby awar or affire that the information given herein work done on it so far as can be determined from availab Subscribed and aware to before me this. | Ace Marshell Driller Driller BD ON OTHER SIDE With is a complete and correct record of the real and Sh lid records. Hobbs, Nor Tourne (Saptamo of Re. 19 Part of Lander Position District Experiments Re. 19 Name of Lander Position District Experiments Re. 19 |
| Re T. HATTOL FORMATION RECO I hereby awear or affirm that the information given here work done on it so far as can be determined from availab Subscribed and awore to before me this. day of September | MADE MATERIAL Driller Driller Driller Driller Driller Driller With is a complete and correct record of the real and \$1 Hobbs, Nor Torrect Supplement \$2, 19 Page 19 Name |
| Re T. Harrod Drille FORMATION RECO I hereby awar or affirm that the information given herein work done on it so far as can be determined from availab Subscribed and swore to before me this. Subscribed and swore to before me this. | Age Marshall Driller Briller Briller Briller Briller Briller With is a complete and correct record of the well and fall the records. Hobbs, Naw Territor September 122, 19 Name A Language Position Dis trict September 122, 19 Remember 1 |

FORMATION RECORD

| PROM | 70 | THICKNESS IN FRET | PORMATION |
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| Submit 3 Copies to Appropriate District Office | | New Mexico atural Resources Departmen | · • | Form C-103 Revised 1-1-89 |
|--|--|--|--------------------------|---------------------------------|
| DISTRICTI P.O. Box 1980, Hobba, NM 88240 | P.O. I | ATION DIVISION Box 2088 | WELL API NO. 30-025-1 | 0481 |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Pe, New N | Mexico 87504-2088 | 5. Indicate Type of | Leare FEE [X] |
| DISTRICTIII 1000 Rio Brazos Rd., Aziec, NM 87410 | | ¥ | 6. State Oil & Gas | |
| (DO NOT USE THIS FORM FOR PRODIFFERENT RESERVA | ICES AND REPORTS C OPOSALS TO DRILL OR TO I RVOIR, USE "APPLICATION -101) FOR SUCH PROPOSAL | DEEPEN OR PLUG BACK TO A FOR PERMIT | | Juit Agreement Name |
| 1. Type of Well: | | | Penrose | Sand Unit |
| WELL WELL | ा कर | Water Injection We | 8. Well No. | 3C |
| Anadarko Petroleu | m Corporation | 000817 | 5 | |
| 3. Address of Operator | 411a NM 002E | . | 9. Pool name or W | ldcat 37240 tix 7 Rvs On GB |
| PO Box 37, Loco H 4. Well Location | 1115, NM 8825 |) | Tangile Mac | CLX / RVS QN GB |
| Unit Letter $\frac{F}{}: \frac{19}{}$ | 80 Feet From The No | orth Line and 19 | 980 Feet From | The West Line |
| Service 27 | Township 22S | 376 |) D sm f | Ioo a |
| Section 2 / | | Range 37E v whether DF, RKB, RT, GR, etc.) | MIMM | Lea County |
| | 3336' DE | ? | | |
| 11. Check | Appropriate Box to Inc | dicate Nature of Notice, | Report, or Other | Dat a |
| NOTICE OF INT | ENTION TO: | St | JBSEQUENT RI | EPORT OF: |
| PENFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | | ALTERING CASING |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILL | ING OPNS | PLUG AND ABANDONMENT |
| | · · · · · · · · · · · · · · · · · · · | <u> </u> | | EUG AND ABANDONINENT E. |
| PULL OR ALTER CASING | | CASING TEST AND | CEMENT JOB [_] | _ |
| OTHER: | | OTHER: | | t |
| 12 Describe Proposed or Completed Operation & SEE RULE 1103. Ran injection proposed attached Surv | ofile per agree | | cuming estimates cane ig | wing ony propinca |
| | : | | | |
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| | | | | |
| I hereby certify that the information above is true | and complete to the best of my know | | | |
| /// | | Field F | oreman | DATE 09-02-97 |
| SIGNATURE Bill Wins | hu) | mir | | |
| SIONATURE BUILD WINKS | | mil | , | 505/677-2411 ITELEPTIONE NO. |

| ENERGY AND MINERALS DEPAR | INTENT | | | |
|---|---|--|--|---|
| | | IL CONSERVA | TION DIVISION | |
| DISTRIBUTION | | P O 80 | | Form C-103 · |
| SANTA FE | | SANTA FE, NEW | | Revised 19-1-7 |
| FILE | | | | Sa. Indicate Type of Leuse |
| U.S.G.S. | - | | | State Fee X |
| OPERATOR | | | | 5. Store Of 6 Ggs Legae No. |
| O-EURION | | | | 5. Stole Of. & God Ledge Rd. |
| SUN | DRY NOTICES | AND REPORTS ON | WELLS | |
| IDO MOT DE THIS FORM FOR | PROPOSALS TO ORILL ICATION FOR PERMIT | OR TO DEI PIN OR PLUG E | ACE TO A DIFFERENT BESERVOIS. | |
| · 011 | | | | 7. Unit Agreement NamePenrose |
| Name of Operator | OTHER- | Water Injection | in Well | Langlie Mattix Sand Uni |
| Anadarko Production | Campana | | | Tract 13C |
| . Address of Operator | Company | | | 9. Well No. |
| P.O. Box 806 Eunic | e. New Mexic | o 8823.1 | | 5 |
| , Location of Well | | | | 10. Field and Pool, or Wildcat |
| UNIT LETTERF | 19.80 | FROM THE North | 1980 | Langlie Mattix |
| | | | | |
| THE West LINE, SE | ECTION 27 | TOWNSHIP | RANGE 37E | |
| ····· | | | | |
| | ////////////////////////////////////// | Elevation (Show whether | DF, RT, GR. etc.) | 12. County |
| | illilli | 3336' GF | | Lea |
| | | | lature of Notice, Repor | |
| NOTICE | F INTENTION T | o: | 20828 | EQUENT REPORT OF: |
| PERFORM REMEDIAL WORK | | | REMEDIAL WORK | X ALTERING CARING |
| ************************************** | | _ | | |
| | | | I COMMENCE DRILLING OPHB. | PLUG AND ARANDONMENT I |
| PULL 00 ALTER CASING | | CHANGE PLANS | COMMENCE DRILLING OPHS. | PLUG AND ABANDONMENT |
| PULL OR ALTER CABINE | | CHANGE PLANS | 1 | PLUG AND ABANDORMENT |
| PULL OR ALTER CADING | | CHANGE PLANS | CASING TEST AND CEMENT JQB | PLUG AND ABANDONMENT |
| OTHER | d Orașilone (Clare | | CASING TEST AND CEMENT JOB | |
| OTHER | d Operations (Clear) | | CASING TEST AND CEMENT JOB | including estimated date of storting any proposed |
| OTHER | 2 Circulation 2-7/8" tbg. 17 of 3620'. 2-7/8" tbg. gals 15% NE ing 7-26-83. | y state all persinent des Unit 7-22-83, TIH w/injectio acid w/500# sa | other and cement squares, ails, and give pertinent dates. Pulled the 8 pkr. n string 8 pkr. RDF | including estimated date of storting any proposed |
| 17. Describe Proposed or Complete work) SEE RULE 1908. 1. RUPU and Revense 2. TIH w/bit, DC 8 3. Cleaned out to 1 4. TOH w/bit, DC 8 5. Acidized w/2500 6. WO injection str | 2 Circulation 2-7/8" tbg. 17 of 3620'. 2-7/8" tbg. gals 15% NE ing 7-26-83. | y state all persinent des Unit 7-22-83, TIH w/injectio acid w/500# sa | other and cement squares, ails, and give pertinent dates. Pulled the 8 pkr. n string 8 pkr. RDF | including estimated date of storting any proposed |
| 17. Describe Proposed or Complete work) SEE RULE 1908. 1. RUPU and Revense 2. TIH w/bit, DC 8 3. Cleaned out to 1 4. TOH w/bit, DC 8 5. Acidized w/2500 6. WO injection str | 2 Circulation 2-7/8" tbg. 17 of 3620'. 2-7/8" tbg. gals 15% NE ing 7-26-83. | y state all persinent des Unit 7-22-83, TIH w/injectio acid w/500# sa | other and cement squares, ails, and give pertinent dates. Pulled the 8 pkr. n string 8 pkr. RDF | including estimated date of storting any proposed |
| 17. Describe Proposed or Complete work; SEE RULE 1103. 1. RUPU and Reverse 2. TIH w/bit, DC 8 3. Cleaned out to 7 4. TOH w/bit, DC 8 5. Acidized w/2500 6. WO injection str | 2 Circulation 2-7/8" tbg. 17 of 3620'. 2-7/8" tbg. gals 15% NE ing 7-26-83. | y state all persinent des Unit 7-22-83, TIH w/injectio acid w/500# sa | other and cement squares, ails, and give pertinent dates. Pulled the 8 pkr. n string 8 pkr. RDF | including estimated date of storting any proposed |
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| 17. Describe Proposed or Complete work) SEE NUCE 1703. 1. RUPU and Reverse 2. TIH w/bit, DC 8 3. Cleaned out to 1 4. TOH w/bit, DC 8 5. Acidized w/2500 6. WO injection str. 7. Placed back on i | 2 Circulation 2-7/8" tbg. 17 of 3620'. 2-7/8" tbg. gals 15% NE ing 7-26-83. injection 9-2 | y state all persinent des ! Unit 7-22-83, TIH w/injectio acid w/500# sa | ails, and give pertinent dates. Pulled thg & pkr. n string & pkr. RDF lt block, | including estimated date of storting any proposed |
| 17. Describe Proposed or Complete work; SEE RULE 1103. 1. RUPU and Reverse 2. TIH w/bit, DC 8 3. Cleaned out to 7 4. TOH w/bit, DC 8 5. Acidized w/2500 6. WO injection str | 2 Circulation 2-7/8" tbg. 17 of 3620'. 2-7/8" tbg. gals 15% NE ing 7-26-83. injection 9-2 | y state all persinent des ! Unit 7-22-83, TIH w/injectio acid w/500# sa ! 7-83. | CASING TEST AND CEMENT IQUA OTHER ails, and give pertinent dates. Pulled tbg & pkr. N string & pkr. RDF lt block. | including estimated date of storting any proposed |

HOSTIONS OF APPROVAL, IF ANYI

| Submit 3 Copies To Appropriate District Office | State of New Mexico | Form C-103 May 27, 2004 |
|---|---|---|
| 1625 N. French Dr., Hobbs, NM 88240 | Minerals and Natural Resources | WELL API NO. |
| 1301 W. Gland Avc., Artesia, INN 00210 | ONSERVATION DIVISION | 30-025-10481 5. Indicate Type of Lease |
| 1000 Rio Brazos Rd., Aztec, NM 87410 | 20 South St. Francis Dr. Santa Fe, NM 87505 | STATE FEE X |
| District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 | Santa 1 c, 14141 67505 | 6. State Oil & Gas Lease No. |
| SUNDRY NOTICES AND RE (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL! DIFFERENT RESERVOIR. USE "APPLICATION FOR PER | OR TO DEEPEN OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name Langlie Mattix Penrose Sand Unit |
| PROPOSALS.) 1. Type of Well: Oil Well Gas Well | Other WIW | 8. Well Number 135 |
| 2. Name of Operator Moriah Resources | Inc. | 9. OGRID Number 224376 |
| 3. Address of Operator P.O. Box 5562, M | idland, TX 79704 | 10. Pool name or Wildcat Langlie Mattix 7RVS-QN-GB |
| 4. Well Location | | , |
| | | 1980 feet from the West line |
| | wnship 22S Range 37E 1 (Show whether DR, RKB, RT, GR, etc. | NMPM County Lea |
| 3 | 336' DF | |
| Pit or Below-grade Tank Application or Closure | | |
| | | stance from nearest surface water |
| | | |
| 12. Check Appropriate | Box to Indicate Nature of Notice, | , Report or Other Data |
| NOTICE OF INTENTION | | SSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK PLUG AND TEMPORARILY ABANDON CHANGE PL | - | RK ☐ ALTERING CASING ☐ RILLING OPNS.☐ P AND A ☐ |
| PULL OR ALTER CASING MULTIPLE (| _ | - |
| OTHER: | OTHER: | |
| 13. Describe proposed or completed operation | s. (Clearly state all pertinent details, ar | nd give pertinent dates and studing estimated date |
| of starting any proposed work). SEE RUI or recompletion. | E 1103. For Multiple Completions: A | ttach wellbore diagram of proposed completion |
| • | / | Received 20 |
| Proposed Start Date | 6-15-06 | neceived o |
| See Attached Propos | ed Work | Hobbs N |
| • | | OCD 44 |
| | | \$ 8272822AAAA |
| | ************************************** | |
| | IHE OIL CONSERVA | TION DIVISION MUST |
| | BE NOTIFIED 24 HC | OURS PRIOR TO THE |
| | BEGINNING OF PLU | GGING OPERATIONS. |
| | | |
| | | |
| | | |
| I hereby certify that the information above is true a | nd complete to the best of my knowled | ge and belief. I further certify that any pit or below- |
| grade tank has been/will be constructed or closed according | to NMOCD guidelines [_], a general permit [_ |] or an (attached) alternative OCD-approved plan [.]. |
| SIGNATURE Dany M. Brock | TITLE Production Su | perintendent DATE 5-10-06 |
| Type or print name Danny M. Brock For State Use Only | E-mail address: dbrock@legacyl | Telephone No.432-682-2516 |
| APPROVED BY: Hays (1) Was b | | MAY 1 5 2006 |
| Conditions of Approval (if any): | TITLE TITLE | TAPE LIANGA DATE |
| <i>U</i> | OC FIELD REPRESENTATIVE WE | |

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P&A Procedure

Lease & Well #: LMPSU Well No. 135

- Call Hobbs NMOCD 48 hrs. before commencing plugging operations @ 505-393-6161.
- 2. MIRUPU. Install BOP. POOH W/2-3/8" tbg and Baker AD-1 Packer.
- 3. RIH W/7" CIBP and set @ 3300'. Spot 35' of cement on top of plug. PU and circulate hole W/plugging mud. TIH and tag cmt plug. TOH.
- 4. Perforate 4 squeeze holes at 2440'. Attempt to break circulation. If circulation, pump 100' cement plug on inside and outside of 7" casing 2440' 2340'.
- 5. If no circulation, TIH and spot 100' plug from 2440' 2340'. TOH 10 stands.
- 6. TIH and tag cmt plug. Record depth. Insure hole is full of plugging mud. TOH.
- 7. Perforate 4 squeeze holes at 1250'. Attempt to break circulation. If circulation, pump 183' cement plug on inside and outside of 7" casing from 1250' 1067'.
- 8. If no circulation. TIH and spot 183' cmt plug from 1250' 1067'. TOH 10 stands.
- 9. TIH and tag cmt plug. Record depth. Insure hole is full of plugging mud. TOH.
- 10. Install 10 sack surface plug.
- 11. Cut off wellhead and weld on P&A marker per NMOCD regulations.

-> SPOT 100' FRESH WATER PLUG F/400'-300'

WELLBORE SKETCH AND WELL HISTORY HEASE & WELL NAME: LMPSU NO. 135 FIELD: LMPSU COUNTY: LEG _' ABOVE 3336 ELEV.: KB____ FIELD: LMPSU COUNTY: Lea ST.: NM LOCATION: Unit hetter F. 1980' MFNL & 1980' FWL, Sec. 27, 7WN 225, RG37E Plug H CASING RECORD SURFACE CASING Q.D. WT/FT GRADE SET AT TOC Surface 9-518" 36 N80 1117' Plug 3 perf 1250'- 1067' PRODUCTION CASING aa N80 33991 TUBING TYPE WT. GOE. SET AT WELL HISTORY: pere 2440'- 2340' CIBPE3300'W35'CMT Plugl ~ 7"e 3399' OH3399-3620

Ariet I

'5 N. French Dr., Hobbs, NM 88240

ariet II

1 W. Grand Avenue, Artesia, NM 88210

ariet III

10 Rio Brazos Road, Aztec, NM 87410

ariet IV

20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy of the final affected wells list along with 1 copy of this form per number of wells on that list to appropriate

Form C-104A March 19, 2001

| 10 S. St. Francis L | Jr., Santa Pe, NM 8/505 Satita | re, INIVI 6/303 | District Office |
|--|---|-------------------|--------------------------|
| | Change of | of Operator | |
| Pre | evious Operator Information: | New | Operator Information: |
| | | Effective Date: | January 15, 2003 |
| OGRID |): 817 | New Ogrid: | 215758 |
| Name | : Anadarko Petroleum Corporation | New Name: | Pecos Production Company |
| Address | P.O. Box 1330 | Address: | 400 West Illinois |
| Address | | Address: | Suite 1070 |
| Tity, State, Zip | Houston, TX 77251 | City, State, Zip: | Midland, TX 79701 |
| New Operator Signature: Printed name: Title: Date: | Steven D. Gray President January 15, 2003 915-620-848 | 0 | |
| revious operat | tor complete below: | | MOCD Approval |
| • | | 1 2 | MVOCD Approvai |
| Previous | Anadarko Petroleum Corporation | | |
| Operator: | | Signature: | and glow |
| Previous | 817 | Printed | |
| OGRID: | | Name: | AUL F KAUTE |
| Signature: | Joseph F. Carroll | District: | PETROLEUM ENGINEER |
| Name: | Joseph r. Carron | Data | MAR 1 3 2003 |
| name: | | Date: | MAR 1 3 7003 |

WELLS INVOLVED IN OPERATOR CHANGE
This is a final list of wells baing transferred. If all bonding requirements
are satisfied, submit this list to the OCD District with your C-104A.

PREVIOUS OPERATOR: 817 ANADARKO PETROLEUM CORP

OCD DISTRICT: HOBBS

| | | OCD | WELL | .t. 2001 | | | LAST |
|---|--------------|-------|--------------|----------|--|-----------------|----------|
| ERTY WELL NAME | ULSTR | | API TYPE | | ID POOL NAME | | PROD/INJ |
| 163114 1741 1741 1741 1741 1741 1741 1741 | | | | | 医乳件管 医医性性性坏疽 医二苯甲 化水油铁 计数据记录器 计可以记录器 医阿里氏氏管检尿性细胞 医多种性性 化苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯甲基苯 | ***** | |
| 1324 LANGLIE MATTIX PRINROSE SAND INIT #002 | P-27-22S-37E | Α. | 30-025-10473 | I 37240 | LANGLIE MATTIX, 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| TIMI CAN SAND | K-27-228-37E | ĸ | 30-025-10477 | 0 37240 | LANGLIE MATTIX,7 | RVRS-Q-GRAYBURG | 11-2002 |
| PRINCOSE SAND UNIT | D-27-22S-37B | Ω | 30-025-10478 | I 37240 | LANGLIE MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| PENROSE SAND UNIT | I-27-22S-37B | н | 30-025-10474 | 0 37240 | LANGLIE MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND | H-27-22S-37B | × | 30-025-10475 | I 37240 | LANGLIR MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| PENROSE SAND UNIT | E-27-225-37B | M | 30-025-10480 | 0 37240 | LANGLIE MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND UNIT | F-27-22S-37R | Α, | 30-025-10481 | I 37240 | LANGLIE MATTIX,7 | RVRS-Q-GRAYBURG | 10-2001 |
| PENROSE SAND UNIT | G-27-228-37B | 0 | 30-025-10482 | 0 37240 | LANGLIE MATTIX,7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND | B-27-225-37E | m | 30-025-10483 | I 37240 | LANGLIE MATTIX; 7 | RVRS-Q-GRAYBURG | 10-2002 |
| PENROSE SAND | A-27-225-37B | ··· | 30-025-10484 | 0 37240 | LANGLIE MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| PENROSE SAND UNIT | C-27-225-37E | U | 30-025-23772 | 0 37240 | LANGLIB MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND UNIT | B-27-228-37E | m | 30-025-28108 | 0 37240 | LANGLIB MATTIX, 7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PRINROSE SAND UNIT | A-27-22S-37E | · · | 30-025-28088 | 0 37240 | LANGLIB MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND UNIT | C-27-228-37R | υ | 30-025-28460 | 0 37240 | LANGLIE MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND UNIT | C-27-22S-37E | Ü | 30-025-31660 | 0 37240 | LANGLIR MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND UNIT | P-28-225-37E | Δ, | 30-025-10488 | 0 37240 | LANGLIR MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| PENROSE SAND UNIT | I-28-225-37E | н | 30-025-10495 | 0 37240 | LANGLIE MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| LANGLIR MATTIX PENROSE SAND UNIT #001 | A-28-22S-37E | ~ | 30-025-10498 | 0 37240 | LANGLIR MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND UNIT | D-28-225-37E | Ω | 30-025-10501 | I 37240 | LANGLIR MATTIX; 7 | RVRS-Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #002 | K-28-225-37E | × | 30-025-10490 | 0 37240 | LANGLIE MATTIX;7 | RVRS-Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #002 | 0-28-22S-37E | 0 | 30-025-10496 | 0 37240 | | Q-GRAYBURG | 11-2002 |
| MATTIX PENROSE SAND | H-28-225-37E | × | 30-025-10499 | I 37240 | | Q-GRAYBURG | 04-2001 |
| LANGLIB MATTIX PENROSE SAND UNIT #002 | C-28-225-37B | ט | 30-025-23580 | 0 37240 | | Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #002 | G-28-22S-37E | 19 | 30-025-23617 | 0 37240 | | Q-GRAYBURG | 11-2002 |
| SAND | F-28-225-37E | Δ, | 30-025-10491 | 1 37240 | | Q-GRAYBURG | 11-2002 |
| LANGLIB MATTIX PENROSE SAND UNIT #003 | J-28-228-37E | מ | 30-025-10497 | 0 37240 | LANGLIE MATTIX, 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| SOUNT TIME MARTHEW XITTEM ST. IONA. | M-28-22S-37E | Σ | 30-025-10493 | 0 37240 | O 37240 LANGLIE MATTIX,7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 10-2001 |
| TIND | E-28-225-37E | | 30-025-10494 | 0 37240 | LANGLIE MATTIX, 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| | | | | | | | |
| LANGLIE MATTIX PENROSE SAND UNIT #001 | I-29-228-37E | н | 30-025-10518 | 0 37240 | O 37240 LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #002 | 0-29-22S-37E | 0 | 30-025-10505 | 0 37240 | O 37240 LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #003 | A-29-22S-37E | ~ | 30-025-10504 | 0 37240 | LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #001 | A-32-22S-37E | < | 30-025-10548 | 0 37240 | LANGLIE MATTIX; 7 RVR5-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #001 | F-33-225-37E | £4. | 30-025-10552 | 1 37240 | LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| | A-33-225-37E | | 30-025-10556 | 0 37240 | LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |
| LANGLIE MATTIX PENROSE SAND UNIT #001 | G-33-225-37E | ט | 30-025-10558 | 0 37240 | LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG | Q-GRAYBURG | 11-2002 |

JAN 15, 2003

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IIV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-104A March 19, 2001

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy of the final affected wells list along with 1 copy of this form per number of wells on that list to appropriate District Office

Change of Operator

| Prev | vious Operator Information: | New | Operator Information: |
|--|---|------------------------|---|
| | • | Effective Date: | October 1, 2003 |
| OGRID: | 215758 | New Ogrid: | |
| | Pecos Production Company | | Moriah Resources, Inc. |
| | 400 W. Illinois, Suite 1070 | | 303 W. Wall, Suite 1500 |
| Address: | | | |
| City, State, Zip: | Midland, TX 79701 | City, State, Zip: | Midland, TX 79701 |
| form and the atta New Operator Signature: Printed name: Title: | Cary D. Brown Executive VP & Treasurer Phone: (432) 682-0 | pest of my knowledge a | with and that the information on this and belief. |
| Previous operat | or complete below: | N | MOCD Approval |
| Previous | | _ | |
| Operator: | Pecos Production Company | Signature: | ul h Kanh |
| Previous | | Printed | |
| OGRID: | 215758 | Name: | que F KANTZ |
| Signature: | Stee D Sray | District: | / PETROLEUM ENGINEER |
| Printed Name: | Steven D. Gray | Date: | NOV 2 1 2003 |

This form applies for the Langlie Mattix Penrose Sand Unit

Metex Supply A #1, 2, & 4

M.W. Coll #3 & 4

| ubunit 3 Copies: o Approximae _ jutrist Office | | w Mexico rai Resources Department: | Form C-103 Rostoot-1-1-89 |
|---|---|--|---|
| ISTRICT I .O. Box 1980, Hobbs, NM \$2240 | OIL CONSERVA P.O. Bo | | WELLAPI NO. 3002510485 |
| INTRICT II O. Drawer OD, Artesia, NM \$8210 | Santa Fe, New Me | xico 87504-2088 | S. Indicate Type of Lease |
| DISTRICTIII COO Rio Brazos kd., Aziec, NM 27410 | | | STATE FEE X 6. Suite Oil & Gas Lease No. |
| DO NOT USE THIS FORM FOR PR DIFFERENT RESE | TICES AND REPORTS ON OPPOSALS TO DRILL OR TO DE RIVOR USE "APPLICATION RE-101) FOR SUCH PROPOSALS | EPEN OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name |
| . Type of Well: Of. CAS WELL XX WELL . | Others | | J.V. Baker |
| . Name of Operator Texaco Produc | ing Inc | | 8. Well No. |
| i, Address of Opension | | 000.40 | 9. Pool name or Wildox |
| P.O. Box 730 | Hobbs, New Mexico | 88240 | Blinebry Oil & Gas |
| Unit Lener A : 66 | O Feet From The North | Line and 33 | 0 Feet From The East Line |
| Section 27 | Towards 22S | Range 37E | NMPM Lea County |
| | 10. Elevation (Show | 3330' DF | |
| | Appropriate Box to Indi | icate Nature of Notice, | Report, or Other Data BSEQUENT REPORT OF: |
| NOTICE OF INTERPORAL WORK EMPORABLY ABANDON PULL OR ALTER CASING DITHER: | ITENTION TO: PLUG AND ABANDON CHANGE PLANS ENTINOS (Clearly state all personne of | CASING TEST AND | BSEQUENT REPORT OF: ALTERING CASING NG OPNS. PLUG AND ABANDONMENT |
| NOTICE OF IN PERFORM REMEDIAL WORK PEMPORARILY ASANDON PULL OR ALTER CASING DITHER: 12. Describe Proposed or Completed Operated SEE RULE 1103. | ITENTION TO: PLUG AND ABANDON CHANGE PLANS ENTINOS (Clearly state all personne of | CASING TEST AND | BSEQUENT REPORT OF: ALTERING CABING NG OPNS. PLUG AND ABANDONMENT (2) CEMENT JOB |
| NOTICE OF INTERPORT REMEDIAL WORK EMPORARLY ABANDON PULL OR ALTER CASING THER: 12. Describe Proposed or Compared Opwork) SEE RULE 1101. (See report on back) | PLUG AND ABANDON CHANGE PLANS ESTIDIOS (Clearly state all persones) of the mag competes to the best of my boot | REMEDIAL WORK COMMENCE DRILLI CASING TEST AND OTHER: | BSEQUENT REPORT OF: ALTERING CASING NG OPNS. PLUG AND ABANDONMENT SO CEMENT JOB Cluding estimated date of starting any proposed |
| NOTICE OF INTERPORATELY ASANDON PULL OR ALTER CASING DITHER: 12 Describe Proposes or Completed Options (See report on back) | PLUG AND ABANDON CHANGE PLANS ESTIDIOS (Clearly state all persones) of the mag competes to the best of my boot | REMEDIAL WORK COMMENCE DRILLI CASING TEST AND OTHER: Intalls, and give perturent dates. In | BSEQUENT REPORT OF: ALTERING CASING NG OPNS. PLUG AND ABANDONMENT SECURITY JOB CEMENT JOB Cluding estimated date of starting any proposed |

Description

1

Date

BLISS PETROLEUM CORPORATION

(505) 393-7320 * P.U.BOX 1817 * Hobbs, N.M. 88241

Daily Workover Report

Company: Texaco USA

Well Name: J.V. Baker No. 10

Supervisor: L. White

12-12-90 MIRU Cobra WS unit No.5. MIRU Bliss P&A equip.. Advised Mr. R.A. Sadler w/ NMOCC that we were moving onto the above mentioned well. Held 15 min. safety meeting. NO WH. POOH w/ 1 - polished rod, 1-4' pony rod, 1-6' pony rod, 56-7/8" rods, 136-3/4" rods, BHP & GA. NU BOP. CI BOP. SDFN

EDC = \$954 ECC = \$954

12-13-90 P00H w/ 151 jts. 2-3/8" tbg., SN, perf. sub & MA (total footage 4890'). Cut 55 to 60 degree angle in MA jt. to swedge out csg.. RIH w/ 152 jts. & worked thru tight spot a 4921'. PU & RIH w/ 20 more jts. (total of 172 jts. tbg. in hole). Load hole w/ MLF. Mixed & spotted 35 sx. cmt. from 5550'- 5205' & displ. w/ 20 BMLF. P00H & std. back 12 jts. & cleared tbg., P00H w/ 38 more jts. (total of 50 jts. out of hole). Bot. a 3942'. CI BOP & SDFN.

EDC = \$2,623

ECC = \$3,577

12-14-90 RIH w/ 50 jts. tbg. & tagged cmt. plug & 5540'. Mixed & spotted 25

sx. cmt. & displ. dwn. tbg. w/ 20 BMLF. Plug from 5540' to 5250'. PO

& std. back 20 jts.. Bgt. & 4985'. Mixed & spotted 25 sx cmt. & disp

w/ 18 BMLF. Plug from 4985'- 4695'. POOH & std. back 86 jts. tbg..

Removed BOP & WH. Cut 5-1/2" internal cut (csg. fell 10"). Removed

slips & WH packing. Latch onto 5-1/2" w/ ctr. spear. RU WL truck &

RIH w/ freepoint indicator. Showed 5-1/2" csg. 100% free & 2289'. CI

BOP & SDFN

EDC = \$5.039 ECC = \$8,616

12-15-90 Run freepoint stretch u/ ctr. spear from 45 pts. to 85 pts.. Calc. freepoint © 2786' RU WL & run freepoint ind.. Found pipe 100% free © 2660'. RIH w/ backoff tools & backoff 5-1/2" csg. © 2660'. Cplg. looking up. POOH u/ 22 jts. 5-1/2" csg.. Csg. tongs broke dun.. (Est 880' csg. out of hole). CI BOP & SOFN

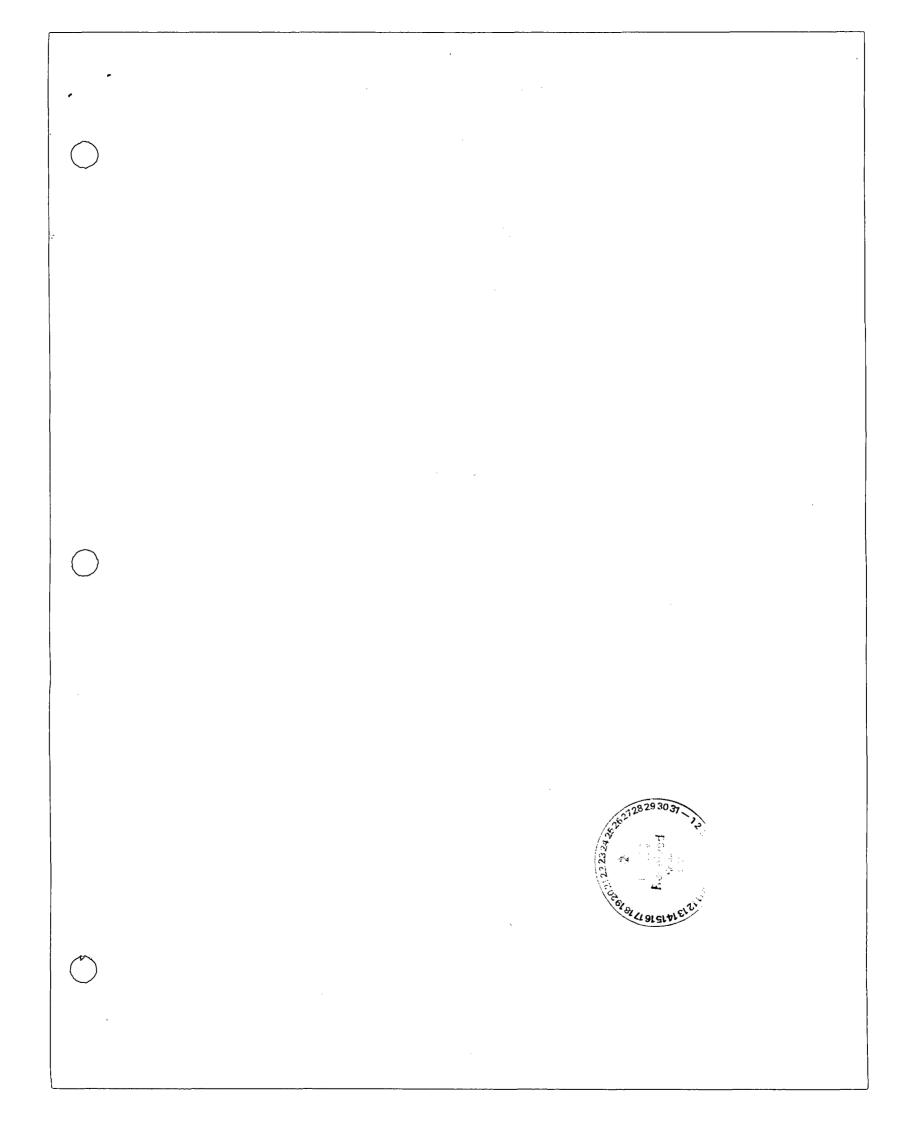
EDC = \$1,135

12-16-90 SD Sunday 12-17-90 SD Repair tongs

12-18-90 POOH & laid dwn. 42 jts. 5-1/2" csg.. RIH w/ 86 jts. 2-3/8" tbg. to 2766'. Inside 5-1/2" 106'. Circ. hole w/ 25 BMLF. Mixed 35 sx. cmt. & spotted dwn. tbg. w/ 10 BMLF from 2766'- 2500'. POOH w/ 10 jts. tbg. & pump dwn. to clear tbg.. POOH w/ 40 jts. tbg.. WOC 4 hours. RIH w/ tbg. & tagged cmt. a 2610'. Actual plug from 2766'-2610'. POO & laid dwn. 47 jts. tbg.. Left 39 jts. in well w/ bot. a 1265'. SDFN EDC = \$1,749

12-19-90 Broke circ. w/ mud. Mixed 30 sx. cmt. & displ. dwn. tbg. w/ 4.5 BMLF Cmt. pług. from 1265' - 1159'. POOH & laid dwn. 38 jts. tbg.. Left 1 j in BOP. Mixed 10 street. 8. spotted from 31' tg surface. Flushed & cleaned BOP & lines. RDMO US unit. RD Bliss P&A equip.. Cut off WH &

| to Appropriate District Office | En , Minerals and Natural Resources Department | Revised 1-1-89 |
|--|--|--|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATION DIVISION 310 Old Santa Fe Trail, Room 206 | WELLAPINO 3002510486 |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mexico 87503 | S. Indicate Type of Lease STATE FEE |
| DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410 | \cdot | 6. State Oil & Gas Lease No. |
| SUNDRY NOT | TCES AND REPORTS ON WELLS | |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESE | OPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A RVOIR. USE "APPLICATION FOR PERMIT" >-101) FOR SUCH PROPOSALS.) | 7. Lease Name or Unit Agroement Name |
| 1. Type of Well: Oil GAS WELL X WELL | OTHER | J.V. Eaker |
| 2 Name of Operator Yarbrough Oil L.P | | 8. Well No. 1 1 |
| 3. Address of Operator Box 1769 Eunice, | | 9. Pool name or Wildcat Blineberry |
| 4. Well Location Unit Letter E : 660 | Feet From The North Line and 15 | 50 Feet From The East |
| 27 | 22 37 | |
| Section 2.1 | Township Range 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | NMPM Cou |
| 11. Check | Appropriate Box to Indicate Nature of Notice, R | Separation Other Date |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12. Describe Proposed or Completed Over | PLUG AND ABANDON REMEDIAL WORK CHANGE PLANS COMMENCE DRILLING CASING TEST AND GE OTHER: | EMENT JOB |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12. Describe Proposed or completed Open work) SEE RULE 103. Octob 1. Rigged unit 2. Ran scraper at 3. Ran backer to 4. Ran CIP to 290 5. Halliburton pure from 2905' to 6. Rigged down unit | CHANGE PLANS CASING TEST AND CE OTHER: Dious (Clearly state all pertinent details, and give pertinent dates, inc. over 20 & 21, 2000 to the condition of the | GOPNS. PLUG AND ABANDONMEN EMENT JOB Starting any proposed |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12 Describe Proposed or completed Open work) SEE RULE 1103. Octob 1. Rigged to unit 2. Ran scraper at 3. Ran backer to 4. Ran CIP to 290 5. Walliburton pu from 2905' to 6. Rigged down un 7. Set 4" dry hol 8. Cleaned up loc | CHANGE PLANS CASING TEST AND CE OTHER: Dious (Clearly state all periment details, and give periment dates, inc. over 20 & 21, 2000 the condition of the cond | GOPNS. PLUG AND ABANDONMEN EMENT JOB Starting any proposed |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12 Describe Proposed or completed Open work) SEE RULE 1103. Octob 1. Rigged to unit 2. Ran scraper at 3. Ran backer to 4. Ran CIP to 290 5. Walliburton pu from 2905' to 6. Rigged down un 7. Set 4" dry hol 8. Cleaned up loc | CHANGE PLANS CASING TEST AND CE OTHER: Ations (Clearly state all pertinent details, and give pertinent dates, incomer 20 & 21, 2000 to the common details, and give pertinent dates, incomer 20 & 21, 2000 to the common details, and give pertinent dates, incomer 20 & 21, 2000 to the common details, and give pertinent dates, incomer 20 & 21, 2000 to the common dates are detailed by the common dates are dates. The common dates are details and give pertinent dates, incomer 2005', tested to 500# The common dates are dates are dates are dates are dates. The common dates are dates are dates are dates are dates are dates. The common dates are dates are dates are dates are dates are dates. | GOPNS. PLUG AND ABANDONMEN EMENT JOB Starting any proposed |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12. Describe Proposed or Completed Operawork) SEE RULE 1103. Octob 1. Rigged up unit 2. Ran scraper at 3. Ran backer to 4. Ran CIP to 290 5. Halliburton purity from 2905' to 6. Rigged down up 7. Set 4" dry hol 8. Cleaned up loc | CHANGE PLANS COMMENCE DRILLING CASING TEST AND CE OTHER: Ations (Clearly state all pertinent details, and give pertinent dates, incomer 20 & 21, 2000 to the complete to the bost of my knowledge and belief. Partner CASING TEST AND CE OTHER: | A OPNS. PLUG AND ABANDONMENT MENT JOB And all of starting any proposed and circulated hole |
| PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: 12 Describe Proposed or completed Open work) SEE RULE 1103. Octob 1. Rigged to unit 2. Ran scraper at 3. Ran backer to 4. Ran CIP to 290 5. Halliburton pu from 2905' to 6. Rigged down un 7. Set 4" dry hol 8. Cleaned up loc Thereby certify that the Information above is the | CHANGE PLANS COMMENCE DRILLING CASING TEST AND CE OTHER: Ations (Clearly state all pertinent details, and give pertinent dates, incomer 20 & 21, 2000 to the complete to the bost of my knowledge and belief. Partner CASING TEST AND CE OTHER: | A OPNS. PLUG AND ABANDONMENT MENT JOB Discourse of starting any proposed and circulated hole |



| Submit 3 Copies to Appropriate During Office | State of New Me Energy, Minerals and Natural Re | | , | Form C-103 Revised 1-1-89 |
|---|--|--------------------------------|---|------------------------------|
| <u>DISTRICTI</u> P.O. Box 1980, Hobby, NM 88140 DISTRICTI | OIL CONSERVATIO P.O. Box 208 Santa Fe, New Mexico | 8 | 4ELL API NO. 30-025-1 | 10487 |
| P.O. Drawer DD, Anesia, NM 88210 DISTRICT HI 1000 Ric Brazza Rd, Aziec, NM 87410 | Sand 16, 146 W WEXIOU | 37304-2008 | Indicate Type of Lease ST State Oil & Gas Lease N | ATE FEE |
| , | | | | |
| (DO NOT USE THIS FORM FOR PRO DIFFERENT RESER | ICES AND REPORTS ON WEL PROSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PER 101) FOR SUCH PROPOSALS.) | OR PLUG BACK TO A | 7. Lease Name or Unit Agr | |
| 1. Type of Well: OIL OAS WELL WELL | OTHER | | Langlie Matt Sand U Tract | nit |
| 2. Name of Operator Anadarko | Petroleum Corpora | cion | & Well No. 1 | |
| 3. Address of Operator P.O. Box | 806 Eunice, NM 8 | 3231 | 5. Pool name or Wildon Langlie Mat | tix |
| 4. Weli Location Unit Letter N : 33 | Feet From The South | Line and | Feet From The | West Line |
| Section 2.9 | Township 22S Rat | | Lea NOM | County |
| | 10. Edvation (Show whether I | 94, RKS, R1, GR, ELC.) | | |
| 11. Ch∞k . NOTICE OF INT | Appropriate Box to Indicate N ENTION TO: | | eport, or Other Data SEQUENT REPOR | RT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ALTER | ING CASING |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING | OPNS PLUG | AND ABANDONMENT X |
| PULL OR ALTER CASING | | CASING TEST AND CE | EOU TREM | |
| отнея- | | OTHER: | | |
| 12. Describe Proposed or Completed Opera work, SEE RULE 1103. | ions (Clearly state all persinent details, an | s give persinens dates, includ | ling estimated date of starting | any proposed |
| 1. 5-16-94 MIRUF 2. Pump 100 SX ce | OU, TIH w/ tbg & tomert w/ 2% CaCL @ | ag @ 3595'. 3595'. Wud 2 | : hrs & tag pl | ug @ 3452'. |
| Pump 25 SX cem 3. 5-17-94 Tag p | lug @ 3360'. | -5 | | ~ A 180' |
| 5. 5-18-94 Pump | liner w/ PKR. Fe 25 SX cement 2843- ment into squeeze h | 2694, pump 25 oles @ 180', | SX cement ll obtain 500 PS | 35-987'. |
| pressure. Pum 6. Install P & A | up 43 SX cement ins marker, RDPU & cl ground level). | ide 7" @ 180 ' | - surface. | |
| | | | | |
| 1: see the see of open of some A true | Timi Liy | Field For | eman par | 5-20-94 |
| TYPE OF PRINTING RICK L. | Langle | | | 294-3184 |
| (Time space for State Use) | | · Au - | | |
| - Chatile | / | OIL & GAS IN | SPACTOR | JUN 28 1994 |
| CONDITIONS OF APPROVAL, IF ANY: | · | | DAT | |

, 57 .

| | - · · | New Mexico nural Resources Department | Form C Revised | |
|--|---|--|---|---|
| P.O. Box 1980, Hobbs, NM 883 | OIL CONSERV | ATION DIVISION Te Trail, Room 206 | WELL APING | Tarrier 1 (1996) |
| DISTRICT II P.O. Drawer DD, Artesia, NM 3 | Santa Fe, Nev | v Mexico 87503 | 30-025-10489 5 indicate Type of Lease | V |
| 1000 Kin hearts Rd. Ann. SS | 4 S'4' | | 1C-058626-A | *11 ^ |
| (DO NOT USE THIS FORM DIFFEREN | RY NOTICES AND REPORTS O FOR PROPOSALS TO DRILL OR TO D NT RESERVOIR, USE "APPLICATION F (FORM C-101) FOR SUCH PROPOSAL | N WELLS REPENOR PLUG SACK 1. A FOR PERMIT | LANGLIE-MATTIX PENROSE S. TRACT 27 | v. |
| Type of Web. | cngs | | 11010127 | |
| Same of Green's | ROLEUM COMPANY | | 7 W. N. | |
| PO BOX 2497, MI | DLAND, TX 79702-2497 | | LANGLIE-MATTIX SR ON GRBG | i |
| Well Location Unit Letter C | | | free from The WEST | _ 1 |
| ii. (| Township 22S Theck Appropriate Box to Indo DF INTENTION TO: | licate Nature of Nobice, R | epon, or Other Data SEQUENT REPORT OF | |
| ERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WOR | ALTERING DASING | , |
| EMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING | | ONMENT |
| ULL OR ALTER CASING | p tree | CASING TEST AND GE | MENTUCE I | |
| 12 Describe Proposed or Compinate of Compina | GED UP P & A EQUIPMENT; RAN IN I PEN-ENDED TO 1,960; UNABLE TO V 1/2" BIT TO 1,930; CLEANED OUT TO PACKER; TESTED CASING; FOUND ENT DOWN TUBING; DISPLACED TO N OUTSIDE OF 15 1/2"; WOC S DOWN TUBING 3 BPM @ 200#; TAC DOWN 7 X 15 1/2" ANNULUS; DISPLA | details, and give perioded dates. Oct. HOLE; GOT STUCK @ 1,490'; W. NORK THRU; PULLED OUT WITO 1,980' WELL SLOUGHING IN; GOOD CASING FROM 300' UP 300'; PUMPED 40 SX CEMENT GED CEMENT AT 495'; MIXED ACED WITH 2 bbls; PUMPED IN TED 7 X 15 1/2" TO 500#; BLED MENT FROM 245" TO 689' TAGGED UP AT 1,925'; CIRCUIT | TH TUBING PLUGGED OFF TUBING; PULLED OU AND BAD 300' DOWN; SET PACKER DOWN 7x15 1/2" ANNULUS; CIRCULJ AND PUMPED 25 SX OF MAXI-SEAL; PRESSURE TO 200#; SIP≈0 ON TUBI D DOWN; PUMPED 150 SX CEMENT; C LATED HOLE CLEAN | T WITH B @ 104'; ATED ; PUMPED NG AND |
| 04-04-02 CLEANED OUT FR OF HOLE; RAN IN HOLE WI BLEED OFF; TALKED TO G 04-05-02 TAGGED CEMENT 04-06-02 TAGGED CEMENT 04-08-02 RIGGED DOWN P | ITH PACKER;SET @ 2300'; TESTED 7 i.WINK; RAN IN HOLE TO 2,560'; PUN AT 2 360': PERFORATED @ 1.360'; S | IT CASING TO 500#; GOOD; PR IPPD 40 SX CEMENT; DISPLAC IET PACKER AT 1,106°; SQUEEZ KR; PERFORATED AT 160°; PL DLE MARKERS | ESSURED UPBELOW PCKR. TO 1500 CED TO 2,373' | D#; NO E; |
| 04-04-02 CLEANED OUT FR OF HOLE; RAN IN HOLE WI BLEED OFF; TALKED TO G 04-05-02 TAGGED CEMENT 04-06-02 TAGGED CEMENT 04-08-02 RIGGED DOWN P | ITH PACKER;SET @ 2300°; TESTED 7 .WINK; RAN IN HOLE TO 2,560°; PUN AT 2,360°; PERFORATED @ 1,360°; S @ 1,160°; LAID TOWN TBNG AND PO A EQUIPMENT; INSTALLED DRY HO | " CASING TO 500#; GOOD; PR IPED 40 SX CEMENT; DISPLAC ET PACKER AT 1,106; SQUEEE; KR; PERFORATED AT 160; PL DLE MARKERS | IESSURED UPBELOW PCKR. TO 1500 DED 10 2,373 EED 100 SX CEMENT; WOC IMPED 100 SX CEMENT TO SURFACI | D#; NO E; |

| Submit 3 Copies to Approprise District Office | State of Env. , Minerals and N | New Matural R | | | Form C-103 Revised 1-1-89 |
|--|--|---|---|--|--|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERV 310 Old Santa | Fe Trail | l, Room 206 | WELL API NO. 30-025-10502 | |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, Ne | w Mexi | ico 87503 | 5. Indicate Type of Lease | TATE FEEXX |
| DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410 |) | | | 6. State Oil & Gas Lease LC 058626-A | |
| (DO NOT USE THIS FORM FOR P DIFFERENT RES | TICES AND REPORTS (ROPOSALS TO DRILL OR TO ERVOIR. USE "APPLICATION C-101) FOR SUCH PROPOSA | DEEPEN FOR PE | OR PLUG BACK TO A | 7. Lease Name or Unit A | • |
| 1. Type of Well: Oil. Gas Well Well Well | ОТНЕХ | • | | TRACT 26 | PENROSE SAND UNIT |
| 2 Name of Operator ANADARKO PETROLEUM CO | PRPORATION | | | . 8. Well No. | |
| 3. Address of Operator P.O. BOX 2497, MIDLAND, TX | 79702 | | | 9. Pool name or Wildcai LANGLIE-MATTIX SI | R ON GRBG |
| 4. Well Location | 310 NC | DRTH | 2310 | * | |
| | Feet From The NC | | 37E | Feet From The | Line |
| Section 28 | Township | Ra | DF, RKB, RT, GR, etc.) | NMPM T/// | County |
| | | | AL CALL D | | |
| NOTICE OF IN | : Appropriate Box to In | dicate l | | leport, or Other Data SSEQUENT REPO | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | | REMEDIAL WORK | , | ING CASING |
| TEMPORARILY ABANDON | CHANGE PLANS | | COMMENCE DRILLING | _ | AND ABANDONMENT |
| PULL OR ALTER CASING | CIMITOLIFERING | ш | CASING TEST AND CE | | ATO NONTO OTHER TO |
| OTHER | | | | | _ |
| 12. Describe Proposed or Completed Ope work) SEE RULE 1103. | rations (Clearly state all pertinen | ı details, a | <u></u> | | |
| 3/15/02 MIRU P & A EQUIPM TALKED TO E.L. GONZALES 3/18/02 RAN IN WITH 7" CIBI PULL UP HOLE; WOC 3/19/02 RUN IN HOLE; TAG (3/19/02 PULL UP TO 1328'; F 3/19/02 RIG UP WIRE LINE; RUN IN HOLE TO 1328' RUN IN HOLE TO 1328' AN IN WITH TUBIN 3/20/02 RAN IN HOLE WITH 3/20/02 PERF AT 170', NIPPI 3/21/02 TEST TO 500# GOOL 3/22/02 TAG AT 92'; PUMP 2 | P; SET AT 3350'; CIRCULATE CEMENT AT 3241'; PULL UP ' PUMP 25 SACKS CEMENT; DI RAN IN HOLE; TAG CEMENT IP 50 SACKS, DISPLACE TO G; TAG CEMENT AT 960'; LO PACKER, SET AT 505'; FOUN LE DOWN BOP, NIPPLE UP W | HOLE W TO 2561'; SPLACE AT 2394' 1006'; PU AD 7" CA ID BAD C /ELLHEA MP 50 SA | /122 BBL. MLF; PUMP 2: PUMP 25 SACKS CEME ; PULL OUT OF HOLE W LL OUT WITH TUBING; SING; PUMP INTO 1 BP ASING FROM 205' TO 8 D; PUMP 100 SACKS OF CKKS OF CEMENT; DISP ACKS INTO PERFS. SIP | 5 SACKS OF CEMENT; DISPLACE TO 2402' F HOLE RAN 7" PACKER, I, VITH WIRE LINE AND TUB SHUT WELL IN M AT 100#; PULL OUT WI' 00': PULL OUT WITH PAC EMENT; DISPLACE WITH PLACE TO PART 3.3 BLG? | SPLACE TO 3191'; OOK FOR HOLE ING AND PACKER; ITH TUBING KER ICLUSTRICE ING BLS |
| \circ | | | | * | 000 000 000 000 000 000 000 000 000 00 |
| | ec and composite to the best of my knowl | - | ne SR. STAFF /7 | En Energy | +/3/2002 |
| TYPE OR PRINT NAME | 1. MUELLEZ | m | NE -C/AITE | TELEPHONE NO (9/5 | 683-0SSS |
| (Thus epace for State Use) | · · · · · · · · · · · · · · · · · · · | | | | |
| Lims H | V. Xlid | | Compliani | . Officer a | 06/02 |

| P.O. Box 2088 Saila Fe, New Mexico 87504-2088 S. Indicat Type of Lease No. | to Appropriate District Office | State of New M Energy, Minerals and Natural R | | Form C-103 Revised 1-1-89 |
|--|---|--|--|--|
| Santa Fe, New Mexico 87504-2088 Santa Fe, New Mexico 87504-2088 Santa Fe, Santa Fe, New Mexico 87504-2088 Santa Fe, New Mexico 87504-20 | DISTRICT I P.O. Box 1980, Hobba, NM 88240 | | | WELL API NO. |
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| (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOR. USE "APPLICATION FOR PERMIT" Type of Well | DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | | |
| DIFFERENT RESERVOR. USE 'APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.) Type of Well: Type of Well: | | | | |
| Type of Well: Mail Cas Others SAND UNIT 3.3 | DIFFERENT RESE | RVOIR. USE "APPLICATION FOR PE | | - 1 |
| Name of Operator ANADARKO PETROLEUM CORP. ASSTRANCE OF OPERATOR P.O. BOX 2497; MIDLAND, TX 79702 VIOLATED TO PROTECTION P.O. BOX 2497; MIDLAND, TX 79702 VIOLATED TO SUBSTRANCE Usia Lear C : 330 Feet From The NORTH Lice asso 2310 Feet From The WEST Line Section 33 Township 228 Range 37E NMFM LEA County 10. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: ERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING LULL OR ALTER CASING CASING CASING TEST AND CEMENT JOB LULL OR ALTER CASING CASING TEST AND CEMENT JOB No. 114-97 Notified Gary Wink w/ OCD. Tagged up @ 3276; Loaded hole and pumped 25 sx C cmt 2475-2195; Perforated @ 1250*, RIH w/ packer but unable to establish rate due to bad csg. POOH w/ packer and pumped 25 sx C cmt open-ended @ 1300*. Tagged plug @ 1203*. Perforated @ 185*. Pumped 40 sx C cmt @ 787* across bad csg w/ holes; no tag. N. 15-97 No tag on plug pumped @ 787*. Attempted to load hole w/ brine and pumped 30 sx C cmt w/ 3% CaCl ; @ 787*. WOC. and pressure-tested csg to 400 psi. Established circulation to surface and pumped 30 sx C cmt w/ 3% CaCl ; @ 787*. WOC. and pressure-tested csg to 400 psi. Established circulation to surface and pumped 30 sx C cmt w/ 3% CaCl ; @ 787*. WOC. and pressure-tested csg to 400 psi. Established circulation to surface and pumped 30 sx C cmt w/ 3% CaCl ; @ 787*. WOC. and pressure-tested csg to 400 psi. Established circulation to surface and pumped 215 sx C cmt 185*-surface. RDMO N. 19-97 Cut off wellhead & capped well. Covered pit and dug up dead men. Installed dry hole marker. TILDPHONE NO. 15-687-19 TITLE Engineer DATE DATE B-22-97 TILDPHONE NO. 915-687-19 TITLE Engineer DATE TITLE Engineer DATE DATE B-22-97 TITLE Engineer DATE TITLE Engineer DATE DATE DATE B-22-97 TITLE Engineer DATE TITLE Engineer DATE | . Type of Weil: | | | SAND UNIT 33 |
| ANADARKO PETROLEIM CORP. Address of Operator P.O. BOX 2497; MIDLAND, TX 79702 Unit Letter C : 330 Feet From The NORTH Lice and 2310 Feet From The WEST Lice and Section 33 Township 22S Range 37E NMJPM LEA County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: EFFORM REMEDIAL WORK PUG AND ABANDON REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT CASING TEST AND CEMENT JOB ULL OR ALTER CASING OTHER: OTHER: OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates. including estimated date of stating any proposed world) SEE KILE 1103. N14-97 Notified Gary Wink w. OCD. Tagged up @ 3276* Loaded hole and pumped 25 sx C cmt 3276-3115*. Loaded hole and pumped 25 sx C cmt 2457-2295*. Perforated @ 1250*. RIH w/ packer but anable to establish rate due to bad csg. POOH w/ packer and pumped 25 sx C cmt 2457-2295*. Perforated @ 1300*. Tagged plug @ 1203*. Perforated @ 185*. Pumped 40 sx C cmt @ 787* across bad csg w/ holes, no tag. N-15-97 No tag on plug pumped @ 787*. Attempted to load hole w/ brine and pumped 30 sx C cmt w/ 3% CaCl, @ 787*. WOC. and pressure-tested csg to 400 psi. Established circulation to surface and pumped 215 sx C cmt 185* surface. RDMO 8-19-97 Cut off wellhead & capped well. Covered pit and dug up dead men. Installed dry hole marker. Indicate the control was a page of place to the best of my townings and belief. The control was a page of the same to the page of the page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the same tag. The page of the page of the page of the page of the page of the page of the page of the pag | WELL X | OTHER | | |
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Anadarko Petroleum Corp.

Langlie-Mattix Penrose Sand Unit #33-2

Lea County, New Mexico

Job #2202

08-14-97 Thursday

Notified Gary Wink w/ OCD of MI. MIRU Key rig. ND wellhead and NU BOP. RIH w/ 104 jts 2-3/8" workstring to 3276', tagged [reports indicate 25 sx plug at bottom, no CIBP's]. RU cementer and circulated hole w/ mud, pumped 25 sx C cmt 3276-3113'. POOH w/ tbg to 2457'. loaded hole w/ mud and pumped 25 sx C cmt 2457-2295'. POOH w/ tbg. RIH w/ wireline and perforated @ 1250'. POOH w/ wireline. RIH w/ packer to 1197', had communication above packer. POOH w/ packer, bad casing 744-682'. SI 7" annulus, unable to establish rate. Released packer and POOH, RIH open-ended to 1300', pumped 25 sx C cmt @ 1300'. POOH w/ tbg and WOC. RIH w/ wireline and tagged cmt @ 1203'. POOH to 185' and perforated @ 185'. POOH w/ wireline. Set packer, checked rate - 3 BPM on vacuum. POOH w/ packer, RIH w/ tbg to 787' and pumped 40 sx C cmt @ 787' across bad casing (holes in casing 744-682' taking fluid). POOH and SDFN.

RT: 7:30-6:30 11.0 hrs CRT: 11.0 hrs

08-15-97 Friday

RIH w/ tbg, no tag on plug pumped @ 787°. Attempted to load hole w/ brine, on vacuum. Pumped 30 sx C cmt w/ 3% CaCl₂ @ 787°. WOC 2 hrs. Pressure tested casing to 400 psi, okay. Opened surface casing, established circulation to surface. ND BOP and NU wellhead. Pumped 215 sx C cmt from 185° to surface, circulated cmt on annulus. RDMO to LMPSU #35-2. RT: 7:30-1:00 5.5 hrs CRT: 16.5 hrs

08-19-97 Tuesday

Cut off wellhead and capped well. Covered pit and dug up dead men. Installed dry hole marker.

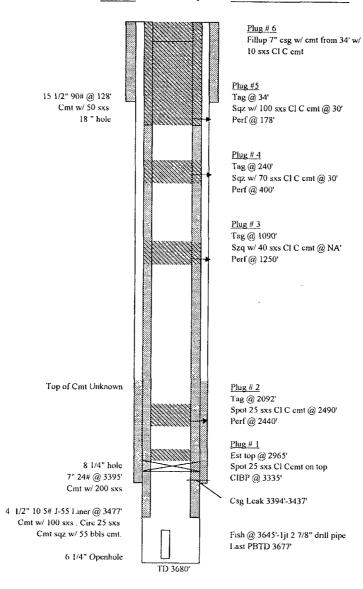
| o Appropriate District Office | State of New Mexico Energy, Minerals and Natural Resources Departmen | Form C-103 t Revised 1-1-89 |
|--|---|--|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATION DIVISION | WELL API NO. |
| DISTRICT II | P.O. Box 2088 | 30-025-10565 |
| P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mexico 87504-2088 | 5. Indicate Type of Lease STATE FEE X |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | 6. State Oil & Gas Lease No. |
| SUNDRY NOT | ICES AND REPORTS ON WELLS | |
| | OPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A RVOIR. USE "APPLICATION FOR PERMIT" | 7. Lease Name or Unit Agreement Name |
| | -101) FOR SUCH PROPOSALS.) | LANGLIE-MATTIX PENROSE |
| Type of Well: Oil. GAS | mies WIW | SAND UNIT 35 |
| Name of Operator | OTHER WIW | 8. Well No. |
| ANADARKO PETROLEUM CO | ORP. | 35-2 |
| Address of Operator | | 9. Pool name or Wildcat |
| P.O. BOX 2497; MIDLAN Weil Location | D, TX 79702 | LANGLIE-MATTIX SR QN GRBG |
| Unit Letter H : 1650 | Feet From The NORTH Line and | 330 Feet From The EAST Line |
| Section 33 | Township 22S Range 37E | NMPM LEA County |
| | 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | |
| | | |
| | Appropriate Box to Indicate Nature of Notice, | - |
| NOTICE OF INT | TENTION TO: | JBSEQUENT REPORT OF: |
| RFORM REMEDIAL WORK | PLUG AND ABANDON REMEDIAL WORK | ALTERING CASING |
| MPORARILY ABANDON | CHANGE PLANS COMMENCE DRILL | ING OPNS. PLUG AND ABANDONMENT 🗓 |
| LL OR ALTER CASING | CASING TEST AND | CEMENT JOB |
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| | ations (Clearly state all pertinent details, and give pertinent dates, in | ncluding estimated date of starting any proposed |
| Describe Proposed or Completed Opera work) SEE RULE 1103. | ations (Clearly state all pertinent details, and give pertinent dates, ir | cluding estimated date of starting any proposed |
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| work) SEE RULE 1103. | | ncluding estimated date of starting any proposed . |
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| Submit 3 Copies To Appr Office | annous Dinterior | | | | | | | |
|--|--|--|---|---|--|--|--|---|
| | opnate District | State | e of New M | exico | | | | Form C-103 |
| District 1 | | Energy, Mine | rals and Nat | ural Reso | urces | | | May 27, 200 |
| 1625 N French Dr., Hob | bs, NM 88240 | | | | | WELL APIN | | |
| District II | | OIL CONS | FRVATIO | N DIVIS | ION | 30-025-1056 | | |
| 1301 W. Grand Ave., Art District III | esia, NM 88210 | | | | ON | 5. Indicate T | ype of Lease | e |
| 1000 Rio Brazos Rd., Azi | ec. NM 87410 | | outh St. Fra | | | STAT | | FEE 🛛 |
| District IV | 100, 14,01 07410 | Sant | ta Fe, NM 8 | 7505 | | 6. State Oil | & Gas Lease | No. |
| 1220 S. St. Francis Dr., S | anta Fe, NM | | | | | | | |
| 87505 | | 377 | | ×3.000 | | | | |
| SI | JNDRY NOTIC | CES AND REPORT | S ON WELL | | ZIVE | Lease Nar | ne or Unit A | greement Name |
| (DO NOT USE THIS FO DIFFERENT RESERVO | | | | | TO A E | | | |
| PROPOSALS.) | ik. Ook Arraic. | THORTON I EXAMI | (10101)1 | OK JUC | | Langlie Mai | | Sand Unit |
| 1. Type of Well: O | il Well 🗍 Ga | s Well Other | Injection V | Vellern o | 0.0000 | 8. Well Num | iber 353 | |
| 2. Name of Operato | | | | | 9 ZUUN | 9. OGRID N | umber 2409 | 974 |
| LEGACY RESERV | | G LP | 8 84 | | · ~ | marine succession | | _ |
| 3. Address of Opera | | <u> </u> | | | | 10 Pool nan | ne or Wildca | t |
| PO BOX 10848, MI | | 7702 | | do mos des | | Langlie Matt | | |
| | | | *************************************** | | | | | |
| 4. Well Location | 000 | | | | | 0 . 0 | m + 0.00 | |
| Unit Letter | B: 900 | feet from the | NORTH | line and | 1,650 | feet from th | e <u>EAST</u> | line |
| Section | 33 | Township | | Range | | NMPM | | ounty LEA |
| | | 11. Elevation (Sho | w whether Di | R, RKB, RT | , GR, etc.) | 類 | | |
| | 12.70 | 3,350' GI | ₹ | | | | 广 1847 48 | |
| Pit or Below-grade Tank | Application or | Closure | | | | | | |
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| Pit Liner Thickness: | mil | Below-Grade Taul | k. Volume | | bbls: Co | nstruction Mater | ial steel | |
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| | | ppropriate Box t | .o marcate i | vature or | | | | |
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WELLBORE DIAGRAM

AFTER PLUG AND ABANDONMENT

Well Name & No.: Langlie Mattix Penrose Sand Unit # 353 Langlie Mattix (7Rivers/Queen/Grayburg) Field: 900' FNL x 1650' FE L, Sec. 33 Unit Letter B ,T-22-S,R-37-E Location: State: NM API#
Spud Date: Lea County: 30-025-10566 GR Elev: 3350.0 04/01/40 Drl Compl. Date: KB: GR Elev: Initial Compl. Date:



2/15/2008

Page 1 of 1

Wellbore Diagram-LMPSU #353 xls

| | State of New Mexico side Enc., Minerals and Natural Resources Department fice | | Form C-103 Revised 1-1-89 |
|---|---|--|---|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATION DIVISION 310 Old Santa Fe Trail, Room 206 Sonta Fe Natu Maying 87503 | | WELL API NO. 30-025-10569 |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mex | | 5. Indicate Type of Lease STATE FEE |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | | 6. State Oil & Gas Lease No. LC-058626-A |
| (DO NOT USE THIS FORM FOR PI DIFFERENT RESI (FORM | TICES AND REPORTS ON WE ROPOSALS TO DRILL OR TO DEEPEI ERVOIR, USE "APPLICATION FOR PE C-101) FOR SUCH PROPOSALS.) | NOR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name LANGLIE-MATTIX PENROSE SAND UNIT |
| 1. Type of Well: Oil. A.S. WELL WELL | ОТНЕЯ | | 1 |
| 2 Name of Operator ANADARKO PETROLEI | JM CORPORATION | | 8. Well No. 21-03 |
| 3. Address of Operator PO BOX 2497, MIDLAND TX 797 | 02-2497 | | 9. Pool name or Wildcai |
| 4. Well Location Unit Letter D : 660 | D Feet From The NORTH | Line and 660 | Feet From The WEST Line |
| section 34 | | tange 37E | NMPM LEA County |
| | 10. Elevation (Show whether 3346 GL | r DF, RKB, RT, GR, etc.) | |
| | Appropriate Box to Indicate | | - - |
| NOTICE OF IN | | SUB | SEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON K | REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON PULL OR ALTER CASING | CHANGE PLANS | CASING TEST AND CE | |
| OTHER: | | OTHER: | MENT JOB |
| | rations (Clearly state all pertinent details, | | |
| work) SEE RULE 1103. | | | uding estimated date of starting any proposed |
| 02-18-02 MOVE IN; RIG UP P. 02-19-02 MIX AND CIRCULATI 02-19-02 PUMPED 25 SACKS TUBING; TAG CEMENT AT 2,417 02-19-02 PUMP 100 SACKS O 02-20-02 RAN IN HOLE; TAG C | E HOLE WITH 120 bbls MLF; PUN OF CEMENT FROM 2,561' TO 2, ''; LAY DOWN TUBING TO 568' F CEMENT FROM 568' TO 385'; F EMENT AT 409'; PUMP 15 SACK | MP 25 SACKS FROM 3 402°; PULL UP 50 JTS. PULL OUT OF HOLE IS OF CEMENT TO 368 | ,262' TO 3,103' ; WOC FOR 4 HOURS; RUN IN WITH 5'; PULL UP TO 65' ; INSTALL DRY HOLE MARKER; RIG DOWN; |
| 02-18-02 MOVE IN; RIG UP P. 02-19-02 PUMPED 25 SACKS TO 102-19-02 PUMP 100 SACKS O 02-20-02 RAN IN HOLE; TAG C PUMP 25 SACKS TO PUMP 25 SACKS TO | E HOLE WITH 120 bbls MLF; PUN OF CEMENT FROM 2,561' TO 2, "; LAY DOWN TUBING TO 568' F CEMENT FROM 568' TO 385'; F EMENT AT 409'; PUMP 15 SACK SURFACE; PULL OUT OF HOLE | MP 25 SACKS FROM 3 402°; PULL UP 50 JTS. PULL OUT OF HOLE (S OF CEMENT TO 368 ; CUT OFF WELLHEAD | ,262' TO 3,103' ; WOC FOR 4 HOURS; RUN IN WITH 5'; PULL UP TO 65' |
| 02-18-02 MOVE IN; RIG UP P. 02-19-02 MIX AND CIRCULATI 02-19-02 PUMPED 25 SACKS TUBING; TAG CEMENT AT 2,417 02-19-02 PUMP 100 SACKS O 02-20-02 RAN IN HOLE; TAG C 02-20-02 PUMP 25 SACKS TO MOVE OFF | E HOLE WITH 120 bbls MLF; PUN OF CEMENT FROM 2,561' TO 2, ''; LAY DOWN TUBING TO 568' F CEMENT FROM 568' TO 385'; F EMENT AT 409'; PUMP 15 SACK | MP 25 SACKS FROM 3 402°; PULL UP 50 JTS. PULL OUT OF HOLE (S OF CEMENT TO 368 ; CUT OFF WELLHEAD | 262' TO 3,103'; WOC FOR 4 HOURS; RUN IN WITH 5'; PULL UP TO 65'; INSTALL DRY HOLE MARKER; RIG DOWN; |
| 02-18-02 MOVE IN; RIG UP P. 02-19-02 MIX AND CIRCULATI 02-19-02 PUMPED 25 SACKS TUBING; TAG CEMENT AT 2,417 02-19-02 PUMP 100 SACKS O 02-20-02 RAN IN HOLE; TAG C 02-20-02 PUMP 25 SACKS TO MOVE OFF | E HOLE WITH 120 bbls MLF; PUN OF CEMENT FROM 2,561' TO 2, "; LAY DOWN TUBING TO 568' F CEMENT FROM 568' TO 385'; F EMENT AT 409'; PUMP 15 SACK SURFACE; PULL OUT OF HOLE | MP 25 SACKS FROM 3 402'; PULL UP 50 JTS. PULL OUT OF HOLE (S OF CEMENT TO 368 ; CUT OFF WELLHEAD | 262' TO 3,103'; WOC FOR 4 HOURS; RUN IN WITH 5'; PULL UP TO 65' D; INSTALL DRY HOLE MARKER; RIG DOWN; |
| Work) SEE RULE 1103. 02-18-02 MOVE IN; RIG UP P. 02-19-02 MIX AND CIRCULATI 02-19-02 PUMPED 25 SACKS TUBING; TAG CEMENT AT 2,417 02-19-02 PUMP 100 SACKS O 02-20-02 RAN IN HOLE; TAG C 02-20-02 PUMP 25 SACKS TO MOVE OFF Thereby certify that the information above is true. SIGNATURE TYPE OR PRINT NAME (This spaces for State Use) | E HOLE WITH 120 bbls MLF; PUN OF CEMENT FROM 2,561' TO 2, "; LAY DOWN TUBING TO 568' F CEMENT FROM 568' TO 385'; F EMENT AT 409'; PUMP 15 SACK SURFACE; PULL OUT OF HOLE | MP 25 SACKS FROM 3 402'; PULL UP 50 JTS. PULL OUT OF HOLE S OF CEMENT TO 368; CUT OFF WELLHEAD | 262' TO 3,103' WOC FOR 4 HOURS; RUN IN WITH 5; PULL UP TO 65' ; INSTALL DRY HOLE MARKER; RIG DOWN; 2345678 |
| 02-18-02 MOVE IN; RIG UP P. 02-19-02 MIX AND CIRCULATI 02-19-02 PUMPED 25 SACKS TUBING; TAG CEMENT AT 2,417 02-19-02 PUMP 100 SACKS O 02-20-02 RAN IN HOLE; TAG O 02-20-02 PUMP 25 SACKS TO MOVE OFF | E HOLE WITH 120 bbls MLF; PUN OF CEMENT FROM 2,561' TO 2, "; LAY DOWN TUBING TO 568' F CEMENT FROM 568' TO 385'; F EMENT AT 409'; PUMP 15 SACK SURFACE; PULL OUT OF HOLE | MP 25 SACKS FROM 3 402°; PULL UP 50 JTS. PULL OUT OF HOLE IS OF CEMENT TO 366; CUT OFF WELLHEAD | 262' TO 3,103' WOC FOR 4 HOURS; RUN IN WITH 5'; PULL UP TO 65' ; INSTALL DRY HOLE MARKER; RIG DOWN; 234567 |



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

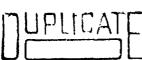
ARY E. JOHNSON
Governor
mulfer A. Salisbury
Cablact Secretary

Lori Wrotenbery Director Oil Conservation Division

| DATE: March 6, 2002 |
|---|
| |
| Company Name: Anadarko Petroleum Corp. Address: P.O. Box 2497 |
| City, State, Zip, and Phone: Midland TX 79702-2497 |
| |
| Form C-103, Report of Plugging for your: LMPS Unt Tr 21 #3-D (34-22s-37e) |
| Can not be approved until a Division representative has made an inspection of the location and found it to be in compliance of Division Rule and Regulations. Please check each Item in the space provided to indicate that the work has been done. |
| All pits have been remediated in compliance with Division "Pit Remediation Guidelines". Rat hole and cellar have been filled and leveled. A steel marker at least 4" in diameter and at least 4' above ground level has been set in concrete. It must show the OPERATOR NAME, LEASE NAME, WELL NUMBER, QUARTER/QUARTER LOCATION OR UNIT LETTER, SECTION, TOWNSHIP, AND RANGE. |
| The location has been leveled as nearly as possible to original top ground contour and has been cleared of all junk and equipment. |
| The dead men and tie downs have been cut and removed. If a one well lease or last remaining well on lease, the battery and pit location(s) have been remediated to Division "Pit Remediation Guidelines" and all flowlines, production equipment and junk removed from lease or well location. |
| The above are minimum requirements and no plugging bond will be released until all locations for plugged and abandoned wells have been inspected and Form C-103 approved. When all of the work outlined above has been done, please notify this office by filling in the blank form below and returning this letter to us so a Division representative will not have to make more than one trip to a location. |
| Sincerely, OIL CONSERVATION DIVISION |
| Main I their |
| Chris Williams, District I Supervisor |
| FILL IN BELOW AND RETURN TO: Oil Conservation Division, 1625 N. French Drive, Hobbs, NM 88240 I certify that the above work has been done and the well or lease referenced above is ready for inspection and approval. |
| ANADARKO LARRY D. PICKEREL FIELD FOREMAN 3-21-02 915-425-4208 OPERATOR NAME & TITLE DATE PHONE |
| OPERATOR NAME & TITLE / DATE/ PHONE |
| · |
| |
| |

| P 2 W/110 | ORIGINAL OF THREE COMMENTS OF SECTION OF SEC | MARINA
MENSINA MENSINA
|--|--|--|
| INED Do Fraiscon | Project Supervisor | DATE 7/28/66 |
| I hereby certify that the information above i | true and complete to the best of my knowledge and belief. | ************************************** |
| | | |
| | | |
| . Cleared and leveled location | · · | |
| | op of 9-5/8" casing at surface. Placed 4 | 4" hole marker. |
| Mixed and spotted 35 bbls magnitudes. | ud from 375' to surface inside of 9–5/8" | casing. Left 428' of 9-5/8" 36# |
| surface casing. | | |
| | ted 125 sacks mud from 3000' to 400'. cks cement in top of 7" at 425' and broug | ht cement up to 3751 into 9-5/9" |
| 400'. Recoverac 400' 7" 26 | # casing, leaving 2982' in hole. | . |
| at 3000". . Shot 7" casing at 2000", 15 | 001, 10001, 8001 and 6001 without results. | Pulled casing free after shot at |
| • | d cement to 3000 psi without pressure loss | . Pulled tubing. Top of coment |
| | cement to 3000 psi. Shut in. Waiting o | |
| work) SEE RULE 1103. | packer. Set packer at 2800'. Pumped 3 | |
| | (Clearly state all pertinent details, and give pertinent date. | s, including estimated date of starting any propo |
| отнея | OTHER | |
| MPORABILY ABANDON | CHANGE PLANS CASING TEST AND CEMENT JE | PLUG AND ABANDONMENT |
| REFORM REMEDIAL WORK | PLUG AND ABANDON REMEDIAL WORK | ALTERING CASING |
| NOTICE OF INTENT | ON TO: SUB | SEQUENT REPORT OF: |
| 7.7 | riate Box To Indicate Nature of Notice, Rep | ort or Other Data |
| | 15. Elevation (Show whether DF, RT, GR, etc.) | 12, County |
| | 34 TOWNSHIP 22.5 RANGE 37 E | NMPM. () |
| | | |
| ocation of Well UNIT CETTER | FEET FROM THE North LINE AND 1980 | Langlie Mattix |
| P. O. Box 247, Hobbs, No | w Mexico | 4 |
| Anadarko Production Comp | any | Tract No. 21 |
| Name of Operator | n- | 8. Farm or Lease Name |
| OIL X GAS OTHE | , | 7. Unit Agreement Name Penrose |
| SUNDRY NOT USE THIS FORM FOR PROPOSALS TO USE "APPLICATION FOR I | ICES AND REPORTS ON WELLS O DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVO ERMIT - (FORM C-101) FOR SUCH PROPOSALS.) | . ПППППППППППППППППППППППППППППППППППП |
| | | mmmmmm — |
| PERATOR | | 5, State Oil & Gas Lease No. |
| 5.G.S. | Aug II II 11 fi | State X Fee |
| LE | NEW MEXICO OF CONSERVATION COMMISSION | |
| | Francisco de la Companya mana a companya de la companya del companya de la companya de la companya del companya de la companya | |

| Submit 3 Copies to Appropriate District Office | | of New Mexico Natural Resources Depart | ment | Form C-103 Revised 1-1-XV |
|--|--|---|---|---|
| DISTRICT P.O. Box 1980, Hobbs, NM 88240 | ox 1980, Hobbs, NM 88240 310 Old Santa Fe Trail, Room 206 | | | l |
| DISTRICT II P.O. Drawer DD. Artesia, NM 88210 | Santa Fe, N | lew Mexico 87503 | 5. Indicate Type | |
| DISTRICT III 1000 kio Brazos Rd., Aziec, NM 87410 | | | 6 State Oil & G LC-058626-A | |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESE | RVOIR USE APPLICATIO | O DEEPEN OR PLUG BACK ON FOR PERMIT | TOA Lease Name of | V Carl Agreement Name |
| (FORM C | -101) FOR SUCH PROPOS | SALS.) | LANGLIE-MA | TTIX PENROSE SAND UNIT |
| OB OAS WITH WITH OAS ANADARKO PETROLEUM COR | PORATION | WATER INJECTION | / Well No. 24 | |
| 3. Address of Operator P.O. BOX 2497, MIDLAND, TX 75 | 9702-2497 | | 9. Pool name or LANGLIE-MA | Wildcal ATTIX SR ON GRBG |
| 4. Well Location | Nor | 1 | 0400 | |
| Unit Letter F 2120 | Feet From The NOF | Line and | 2120 Feel From | n The WEST Line |
| Section 34 | Township 22S | Range 37E how whether DF, RKB, RT, GK | NMPM • Cit : | LEA Court |
| ti Check | Appropriate Box to 1 | Indicate Nature of Not | rice Report or Other | <i>30002000000000000000000000000000000000</i> |
| NOTICE OF INT | | | SUBSEQUENT F | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDO | N REMEDIAL WO | proc. | ALTERING CASING |
| TEMPORARILY ABANDON | | | RILLING OPNS | PLUG AND ABANDONMENT XX |
| | CHANGE PLANS | _ | , | PEDG AND ABANDONMENT |
| PULL OR ALTER CASING | | - n ! | AND CEMENT JOB | |
| OTHER | | OTHER. | | |
| Describe Proposed or Completed Opera work) SEE RULE 1103. | tisons (Clearly state all person | ieni details, and give perimeni d | iaies, including estimated date | of starting any swojawe. |
| 1/31/02 MOVE IN AND RIG UP I 2/01/02 RIH TO 3130", TAG ANI 42 BARRLES OF MUD I 2/01/02 PUH WITH TUBING; PE NO BLEED OFF; PUH V 2/04/02 RIH WITH TUBING TO 2 TAG CEMENT AT 2180" 2/04/02 PERFORATE AT 1365"; | D CAP RBO WITH 25 SACI LADEN FLUID RFORATE AT 2510'; RAN VITH PACKER 2560'; PUMP 25 SACKS OF : PULL OUT WITH TUBING | KS OF CEMENT; WOC; TAC AND SET PACKER AT 2212 FCEMENT; DISPLACE 10 21 | G AT 2752'; CIRC.HOLE WI 2'; PRESSURE UP TO 2100 182'; PUH AND WOC; RAN | #, WA 151677/82 |
| TOC TO 1143', SIP AT 7 2/05/02 TAG TOC WITH TUBING PERFORATIONS AT 60 WELLHEAD; INSTALL D | 3 AT 1143; PERFORATE A WITH CEMENT; CIRCUL | AT 60'; CIRC. 10 SACKS OF ATE CEMENT TO SURFACE | CEMENT DOWN \$1/2 THE UP ANNUULUS BUT OF | F 223242 |
| Commends and the formation where we true | for company to the new of my smo | ov redge and heliu" | - | 45056282176 |
| some KA. Will | ulles | SR STA | FF PRODUCTION ENC | SINEER 02/13/02 |
| TYPE OR PRINT NAME R. N. N | MUELLER | | таяном чо | 015/683-0555 |
| (Thus space for State Use;) | i. // a/ | | | |
| APPROVED BY They W | 1. Life No | compli | ANCE OFFICER | DATE JUL 2 3 2002 |
| CONSTITIONS OF APPROVAL P AND | 7 5 | | | mB |



MISCELLANEOUS REPORTS ON WELLS MAY - 2 1951

| | • | | | Dit nosinen. | (171011 00 |
|---|---|---|---|---|---|
| of casing shut off, rest | alt of plugging of well, | and other impor | rtant operations, | office within t actions, results of shooting between though the work was ations of the Commission. | COLORAGE Freez |
| <u> </u> | | | port by checking l | | |
| REPORT ON BEGINN | NING DRILLING | | REPORT O | N REPAIRING WELL | |
| REPORT ON RESULT | OF SHOOTING OR | | | ON PULLING OR OTHERVING CASING | VISE |
| REPORT ON RESULT | F OF TEST OF CASING | } | REPORT O | N DEEPENING WELL | |
| REPORT ON RESULT | OF PLUGGING OF W | ELL X | | | |
| | | | 5-1-51 | Hebbs, No | ew Mexico |
| | page 12 cm24 an 12 a 2 a 2 a 2 a 2 a 2 | | Date | | Place |
| Following is a report or | n the work done and the | results obtained | under the heading | g noted above at the | |
| Shell 011 | Company | 7. | O. May | Well No1 | in the |
| H/2 of HW/4 | Company or Operatorof Sec | 3 5 | Lease T. 22-5 | R 37E | , N. M. P. M., |
| Penro se-Ske | 11- | | · | | |
| | | | | -51 | |
| and approval of the pro | posed plan was | | | | |
| 14 1/2 hrs. casing. Cale 2700'. Faile Spotted 20-ss spotted 15-sa | Found top plug @ sulated freeze po d to part pipe. sek cement plug @ | 3310' (10) int @ 2740 Shot @ 26 1170' (12 in top 8 5/ | 01 above cas: 1. Shot cas: 501. Recove: 1 above 8 5/8 8" casing to oned 4-30-51, | g 3 5 1/2" casing sing shoe). Rigged ing 2 2900', 2800', red 81 jts. of 5 1/3" casing shoe), as surface. Placed 6 | up to pull, 2750' & /2" casing. ad then lary hole |
| APPROVED: | | / | I hereby swear | or affirm that the information | ation given above |
| | RVATION COMMISSION | Ł. | is true and core | (17) | Savare. |
| | Oil & Gas Insp | Name ector | | tion ExploYeation I | Ingineer |
| MA | | Title | Representing | Shell Oil Company | |
| | 17 -2 1759 Date | 19. | Address | Box 1457, Hobbs, H | lev Kexi co |

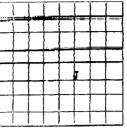
| · Submit 3 Copies To Appropriate District | State of New Mexico | Form C-103 |
|---|--|--|
| Office • • District 1 | Energy, Minerals and Natural Resour | ces June 19, 2008 |
| 1625 N. French Dr., Hobbs, NM 88240 | | WELL API NO. |
| District II | OIL CONSERVATION DIVISION | ON 30-025-13230 |
| 1301 W. Grand Ave., Artesia, NM 88210 District III | 1220 South St. Francis Dr. | 5. Indicate Type of Lease |
| 1000 Rio Brazos Rd., Aztec, NM 87410 | Santa Fe, NM 87505 | STATE FEE X |
| District IV 1220 S. St. Francis Dr., Santa Fc, NM | Santa Pe, NW 67505 | 6. State Oil & Gas Lease No. |
| 87505 | | |
| | ES AND REPORTS ON WELLS | 7. Lease Name or Unit Agreement Name |
| (DO NOT USE THIS FORM FOR PROPOSA | LS TO DRILL OR TO DEEPEN OR PLUG BACK TO | |
| PROPOSALS.) | FION FOR PERMIT" (FORM C-101) FOR SUCH | Targa South Eunice Comp Station |
| | as Well Other STORAGE | 8. Well Number 03 |
| 2. Name of Operator | / | 9. OGRID Number |
| TARGA MIDSTREAM SERVICE | \checkmark | 24650 |
| 3. Address of Operator | | 10. Pool name or Wildcat |
| 6 Desta Dr. Ste 3300 Midland Tx. 79 | 705 | 96670 LPG STORAGE WELL SALADO |
| 4. Well Location | | |
| Unit Letter E 2310 | feet from the N line and 1590 | feet from the W line |
| | | NMPM County LEA |
| Section 27 Town | ship 22S Range 37E 1 11. Elevation (Show whether DR, RKB, RT, | |
| | 11. Elevation (Snow whether DR, RRB, RT, | GR, etc.) |
| THE RESIDENCE OF THE PROPERTY | | Dogs & Astronomic State Comments of the Comment of |
| NOTICE OF INT | propriate Box to Indicate Nature of N | SUBSEQUENT REPORT OF: |
| | | |
| | | AL WORK ☐ ALTERING CASING ☐ NCE DRILLING OPNS. ☐ P AND A ÞÍ |
| | | CEMENT JOB |
| DOWNHOLE COMMINGLE | WOLTIFLE COMPL CASING | CEMENT JOB L |
| DOWNINGE COMMINGE | | |
| OTHER: | OTHER: | П |
| Describe proposed or complet | ed operations. (Clearly state all pertinent de | tails, and give pertinent dates, including estimated dat |
| | SEE RULE 1103. For Multiple Completi | ions: Attach wellbore diagram of proposed completio |
| or recompletion. | | |
| | REMOVED WELL HEAD WENT IN WI | |
| | SAMPLE FOUND WELL HAD BEEN PLU | |
| | LUG TO TOP, PRESSURED WELL TO 50 | |
| CALLED BJ SER. PUMP 30 SK. PRE | MIUM PLUS (C) CEMENT TO SURFACE | E RIG DOWN 7/9/08 |
| | | |
| | | Approved for plugging of well bore only, Liability under bond (s retained pending receipt |
| | | of C-103 (Subsequent Report of Well Plugging) |
| | | which may be found at OCD Web Page under |
| | | Forms, www.cmnrd.state.nm.us/oed. |
| | | |
| | | |
| . 10. | D: D1 D1 | |
| Spud Date: | Rig Release Date: | |
| <u> </u> | | |
| | | |
| hereby certify that the information ab | ove is true and complete to the best of my kr | nowledge and belief. |
| <i>h/)</i> | | |
| SIGNATURE | TITLE ESH Man | DATE 8-37-08 |
| a . | IIILE_CJM // Cm | DATE D J 1-0 |
| ype or print name Cal Wrangh | E-mail address: Lurang | champforga PHONE: 432-425-7077 |
| For State Use Only | 9 | |
| | // · // OCRED REMEASEA | ince in state was a state in s |
| APPROVED BY: (and). X | fill TITLE | DATE |
| Conditions of Approval (if any): | N | 0 CT 0 6 2008 |
| · · · · · · · · · · · · · · · · · · · | | 0 0 1 0 6 Z008 |

| Submit 2 Copies To Appropriate District State of New Mexico | Form C-103 |
|--|--|
| Office <u>Distinct I</u> Energy, Minerals and Natural Resources | October 25, 2007 WELL API NO. |
| 1625 N French Dr., Hobbs, NM 88240 DISTRICTION OIL CONSERVATION DIVISION | 30-025-13230 |
| District III 1301 W Grand Ave., Artesia, NM 88210 1220 South St. Francis Dr. | 5. Indicate Type of Lease |
| 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe NM 87505 | STATE FEE 6. State Oil & Gas Lease No. |
| 1220 S. St. Francis Dr., Santa Fe, NM | o. State on & das Boase 1.0. |
| 87505 SUNDRY NOTICES AND REPORTS ON WELLS | 7. Lease Name or Unit Agreement Name |
| (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH | J V Baker #003 |
| PROPOSALS.) | Targa South Eunice Comp Station 8. Well Number (Property 23669) |
| 1. Type of Well: ☐Oil Well ☐ Gas Well ☒ Other Storage Well: Salado 2. Name of Operator | 9. OGRID Number |
| Targa Midstream Services | 24650 |
| 3. Address of Operator 6 Desta Dr. Ste 3300 Midland TX 79705 | 10. Pool name or Wildcat 96670 LPG Storage Well |
| 4. Well Location | |
| Unit Letter E 2310 feet from the North line and 1590 feet from the West line | |
| Section 27 Township 22S Range 37E NMPM County Lea 11. Elevation (Show whether DR, RKB, RT, GR, etc.) | and the second and the second second to the second |
| | |
| 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other I | Data |
| | SSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WORTEN TEMPORARILY ABANDON → CHANGE PLANS ☐ COMMENCE DR | RK ☐ ALTERING CASING ☐ ' BILLING OPNS.☐ P AND A ☒ |
| PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMEN | _ |
| | 1.6 000 |
| OTHER: | ready for OCD inspection after P&A |
| Rat hole and cellar have been filled and leveled. Cathodic protection holes have been | properly abandoned. |
| A steel marker at least 4" in diameter and at least 4' above ground level has been set i | n concrete. It shows the |
| OPERATOR NAME, LEASE NAME, WELL NUMBER, API NUMBER, Q | |
| UNIT LETTER, SECTION, TOWNSHIP, AND RANGE. All INFORMATI PERMANENTLY STAMPED ON THE MARKER'S SURFACE. | ON HAS BEEN WELDED OR |
| | |
| The location has been leveled as nearly as possible to original ground contour and has other production equipment. | been cleared of all junk, trash, flow lines and |
| Anchors, dead men, tie downs and risers have been cut off at least two feet below gro | |
| If this is a one-well lease or last remaining well on lease, the battery and pit location(s |) have been remediated in compliance with |
| OCD rules and the terms of the Operator's pit permit and closure plan. All flow lines, pro from lease and well location. | duction equipment and junk have been removed |
| All metal bolts and other materials have been removed. Portable bases have been rem | oved. (Poured onsite concrete bases do not have |
| to be removed.) All other environmental concerns have been addressed as per OCD rules. | |
| Pipelines and flow lines have been abandoned in accordance with 19.15.9.714.B(4)(b) | NMAC. All fluids have been removed from |
| non-retrieved flow lines and pipelines. | |
| When all work has been completed, return this form to the appropriate District office to so inspection has to be made to a P&A location because it does not meet the criteria above, a | hedule an inspection. If more than one penalty may be assessed. |
| SIGNATURE TITLE ESH Mana | Cer DATE 8-57-08 |
| TYPE OR PRINT NAME Cal Wrangham F. MAIL: cwrangham@targaresources.com | |
| For State Use Only | 1 1 - |
| APPROVED BY: Vhah Whitshuttele | DATE 10/7/08 |
| Conditions of Approval (if any)COMPLIANCE OFFICER | DATE |

| | | | | • | \$***** <u>*****</u> | Form C-1 |
|---|---|--|--|--|--|---|
| | F | NEW MEXICO | OIL CONSERVA | ATION COMM | ission R | ECEIV |
| 1 San 1 | | NOTICE (| OF INTENT | ON TO D | RTTT | |
| . . | | | One Bules 101 one | 1104 | - 1 | FEB 1 4 1952 |
| hanges in | the proposed | plan are considered | See Rules 101 and | of this notice show | ring such dans | to be much some and a littler. |
| sender. Si | ubmit this noti | ice in triplicate. One | copy will be retur | ned following app: | ovai. | ISERVATION COMME HOBBS-OFFICE |
| •••• | | | Hobb Place | e, New Mexica | - February | 8, 1952. |
| Notice has | eabs to return th | at it is our intention | to commonee the d | willing of a well to | he known ne | |
| | L Company | acit is our intention | | . Baker | LPG #1 | SE SW MW |
| | | y or Operator | | Lasse | No. | in |
| ec. 27 | T 228 | | , N. M., P. M., | Pool, | | Les County |
| _ | | The well is | 2310 f | et from (N.) | | |
| | N | III (W) lin | ie of the above secti | on. | | |
| +++1 | | | ation from section 1 | | ong directions) | |
| PG #1 | | | | | - | |
| | | | the oil and gas lease | J. V. Baker | Assignment N | 0 |
| | | • | and the owner is | Amice, N.M. | | |
| ++-1 | | Address | *************************************** | | | |
| ╁┼┼╀ | | If governmen | t land the permittee | is | | |
| + | | Address | St-11- 0 | il Co. | | |
| 1 1 | | The lessee is. | | il Gue | | |
| ABVA 44 | ACRES | The lessee is. | | | | |
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NEW MISSION OF CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulation of the Commission. Submit in QUINTUPLICATE.

If State Land submit 5 Copies AREA 640 ACRES Ambassador Oil Corporation Langlie Mattix Penrose Sand Unit Tr. 19 Well No. 5 , in NW 1/4 of SE 1/4, of Sec. 27 , T. 22 S , R. 37 E , NMPM. Langlie Mattix Pool, Lea Well is 2210' feet from South line and 2210' feet from East of Section 27 If State Land the Oil and Gas Lesse No. is..... Drilling Commenced April 7 , 19 65 Drilling was Completed April 16 , 19 65 Name of Drilling Contractor Leatherwood Drilling Company Address Kermit, Texas OIL SANDS OR ZONES No. 1, from 3530 t to 3536 No. 4, from 3598 No. 2, from 3547! to 3555! No. 5, from 3627! No. 3, from 3573' to 3576' No. 6, from 3643' to DEPORTANT WATER SANDS Include data on rate of water inflow and elevation to which water rose in hole. CASING RECORD WEIGHT AMOUNT SHOE PULLED FROM 7 5/8" 26# Used 3001 Tex. patt. Surface 4 1/2" 11.60# 3682' Float Shoe See below Oil string MUDDING AND CEMENTING BECORD SIZE OF SIZE OF NO. BACKS METHOD MUD GRAVITY AMOUNT OF MUD USED 9 7/8" 7 5/8" 3001 150 Pump & plug 6 3/4" 4 1/2" 36821 Pump & plug RECORD OF PRODUCTION AND STIMULATION (Record the Process used, No. of Ots, or Gals, used, interval treated or shot.) 1. Perforations 3530'-36', 3547'-55', 3573'-76', 3598'-3603', 3627'-31', 3643'-45', 3661'-64'. 2. Acidised perforations with 1000 gallons reg. 15% acid. Result of Production Stimulation Well drilled for a water injection well. Well placed on injection 4/29/65 after running tubing and packer. Depth Cleaned Out. 36701

| SUNDEY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM POR PROPOSALS TO DRILL OR TO DEEPEN OR PLUS BACK TO A DIFFERENT RESERVAN, USE "APPLICATION FOR PERMIT (DO NOT USE THIS FORM POR PROPOSALS TO DRILL OR TO DEEPEN OR PLUS BACK TO A DIFFERENT RESERVAN, USE "APPLICATION FOR PERMIT (DO NOT USE THIS FORM POR PROPOSALS TO DRILL OR TO DEEPEN OR PLUS BACK TO A DIFFERENT RESERVAN, USE "APPLICATION FOR PERMIT (DO NOT USE THIS FORM POR PROPOSALS TO DRILL OR TO DEEPEN OR PLUS BACK TO A DIFFERENT RESERVANT USE APPLICATION FOR PERMIT (DO NOT USE THIS FORM POR PROPOSALS) (DO NOT USE THIS FORM PROPOSALS TO DRILL OR TO DEEPEN OR PLUS BACK TO A DIFFERENT RESERVANT OR PLUS BACK TO A Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand Unit (**) 1. Less Name or Unit Applements Name Langlic-Mattix Penrose Sand U | DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OF CONCERNATION | | Form C-103 Revised 1-1-89 | | |
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| Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: | | sa, TX 79792 | | | | |
| NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: REMEDIAL WORK | | 10. Estatos (Show whether 3332 DF | DF, AKB, RT. GR, ME.) | | | |
| REMORARILY ABANDON CHANGE PLANS COMMENCE DRILLING COPIS. PLUG AND ABANDON CHANGE PLANS COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS. COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS. COMMENCE DRILLING COPIS. PLUG AND ABANDONMENT IS COMMENCE DRILLING COPIS. COMMENCE DRILLING COPIS. COMMENCE DRILLING COPIS COPIS COMMENCE DRILLING COPIS. COMMENCE DRILLING COPIS. COMMENCE DRILLING COPIS CO | | = : - | | - | | |
| COMMENCE DRILING OPNS. PLUG AND ABANDONMENT OF CASING TEST AND CEMENT AND CEM | NOTICE OF IN | ITENTION TO: | SUB | SEQUENT REPORT OF: | | |
| CASING TEST AND CEMENT 3.0B THER: C2. Describe Proposed or Completed Operations (Clearly state all pertinent data), and give pertinent data, including estimated data of starting any proposed worth SEE RULE 1103. N-20-97 Notified OCD. RIH w/ 4-1.2" CICR and set @ 3465': could not establish rate. Stung out of CICR and circulated hole w/ mud; pumped 25 sx C cmt 3465-3103'. Pumped 25 sx C cmt 2457-2095'. Perforated 4-1.2" csg @ 1250'. RIH w/ CICR and set @ 1197'. Pumped 100 sx C cmt under CICR and dumped 10 sx C cmt on top: TOC @ 1053'. Perforated 4-1./2" csg @ 350'. RIH w/ 4-1/2" AD-1 packer and established rate w/ circulation between 7-5:8" and 4-1.2" csgs. POOH w/ packer and pumped 85 sx C cmt 350'-surface. RD. N-30-97 Cut off wellhead & capped well. Covered pit and dug up dead men. Installed dry hole marker. The Engineer DATE 8-29-97 THE Engineer DATE 8-29-97 THE Engineer DATE 8-29-97 THE PROVIDE BY APPROVAL P ANT: | ERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ALTERING CASING | | |
| THER: OTHER: | EMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING | OPNS. 🔲 PLUG AND ABANDONMENT 🛭 | | |
| 12. Describe Proposed or Completed Operations (Clearly state all partinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. N-20-97 Notified OCD. RIH w/ 4-1.2" CICR and set @ 3465": could not establish rate. Stung out of CICR and circulated hole w/ mud; pumped 25 sx C cmt 3465-3103". Pumped 25 sx C cmt 2457-2095". Perforated 4-1.2" csg @ 1250". RIH w/ CICR and set @ 1197". Pumped 100 sx C cmt under CICR and dumped 10 sx C cmt on top: TOC @ 1053". Perforated 4-1/2" csg @ 350". RIH w/ 4-1/2" AD-1 packer and established rate w/ circulation between 7-5/8" and 4-1.2" csgs. POOH w/ packer and pumped 85 sx C cmt 350"-surface. RD. N-30-97 Cut off wellhead & capped well. Covered pit and dug up dead men. Installed dry hole marker. Thereby cortly that the information above is true spf perforate to the best of my browledge and belief. SKINATURE James F. Newman, P.E. TITLE Engineer DATE 8-29-97 TYPE CALPEDY TANAL LEAVE. TITLE CONDITIONS OF APPROVAL F ANT: | ULL OR ALTER CASING | | CASING TEST AND CE | MENT JOB | | |
| 12. Describe Proposed or Completed Operations (Clearly state all partinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. N-20-97 Notified OCD. RIH w/ 4-1.2" CICR and set @ 3465": could not establish rate. Stung out of CICR and circulated hole w/ mud; pumped 25 sx C cmt 3465-3103". Pumped 25 sx C cmt 2457-2095". Perforated 4-1.2" csg @ 1250". RIH w/ CICR and set @ 1197". Pumped 100 sx C cmt under CICR and dumped 10 sx C cmt on top: TOC @ 1053". Perforated 4-1/2" csg @ 350". RIH w/ 4-1/2" AD-1 packer and established rate w/ circulation between 7-5/8" and 4-1.2" csgs. POOH w/ packer and pumped 85 sx C cmt 350"-surface. RD. N-30-97 Cut off wellhead & capped well. Covered pit and dug up dead men. Installed dry hole marker. Thereby cortly that the information above is true spf perforate to the best of my browledge and belief. SKINATURE James F. Newman, P.E. TITLE Engineer DATE 8-29-97 TYPE CALPEDY TANAL LEAVE. TITLE CONDITIONS OF APPROVAL F ANT: | THER. | | OTHER: | | | |
| SIGNATURE TITLE Engineer DATE 8-29-97 TYPE OR FEINT NAME James F. Newman, P.E. TELEPHONE NO. (915) 687- (This space for State Use) APPROVED BY CHARLE LEAVE: DATE DATE CONDITIONS OF APPROVAL, P ANY: | mud; pumped 25 sx and set @ 1197°. Pu @ 350°. R1H w/4-1 and pumped 85 sx C | C cmt 3465-3103°. Pumped 25 sx imped 100 sx C cmt under CICR at /2° AD-1 packer and established racmt 350°-surface. RD. | C cmt 2457-2095°. Per nd dumped 10 sx C cmt ate w/ circulation betwe | forated 4-1/2" csg \hat{g} 1250". RIH w/ CICR on top; TOC \hat{g} 1053". Perforated 4-1/2" csg en 7-5/8" and 4-1 2" csgs. POOH w/ packer | | |
| TYPE OR PRINT NAME James F. Newman, P.E. TELEPHONE NO. (915) 687- (This space for State Use) APPROVED BY Limit Lerry TITLS DATE | I hereby certify that the information above is t | -1111- | P | - 9 10 07 | | |
| (This space for State Use) APPROVED BY CHARLE LEARN: DATE CONDITIONS OF APPROVAL, IF ANY: | | | us | | | |
| APPROVED BY CHARLE LEARN: CONDITIONS OF APPROVAL, P ANY: | TYPEORPRINTNAME James F. | Newman, P.E. | | | | |
| CONDITIONS OF AFFROVAL, IF ANY: | (This space for State Use) / / | \bigcirc | | | | |
| | Chilit | | | | | |
| 1. | APPROVED BY Charle La | erri | m.s | DATE | | |
| | APPROVED BY Charle La | т | TL8 | DATE | | |

Plugging Report

Anadarko Petroleum Corp.

Langlic-Mattix Penrose Sand Unit #19-5

Lea County, New Mexico

Job #2194

08-20-97 Wednesday

Notified OCD, Gary Wink, of MI. MIRU Key rig. ND wellhead and NU BOP. Attempted to unseat packer; would go down but not up. Kept working tbg; pulled top sub (8') out of box. RIH w/ 4 its and screwed into fish. POOH w/ packer, LD 116 jts Salta tbg and packer. RIH w/ CICR on 2-3/8" workstring to 3465'. Unable to establish rate under CICR. Stung out and pumped 25 sx C cmt 3465-3103'. POOH w/ tbg. RIH w/ wireline and perforated @ 1250'; POOH w/ wireline. RIH w/ AD-1 packer to 1197'. Established rate of 5 BPM @ 900 psi. POOH w/ packer, RIH w/ CICR to 1197'. Squeezed 100 sx cmt (@ 350'. POOH w/ wireline. PU AD-1 packer, established circulation to surface thru perforations. POOH w/ packer. ND BOP and circulated 85 sx C cmt to surface. RD. RT: 7:30-7:00 11.5 hrs CRT: 11.5 hrs

| District Office | State of New Mexico Energy, Minerals and Natural Resources Department | | Form C-103 Revised 1-1-89 | | |
|--|--|--|--|--|--|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVA 310 Old Santa Fo | TION DIVISION Trail, Room 206 | WELL API NO 30-025-22159 | | |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New | Mexico 87503 | 5 Inducate Type of Lease | | |
| DISTRICT III 1000 kio Brazos Rd., Aztec, NM 87410 | | | 5. State Oil & Gas Lease N. LC-058626-A | | |
| (DO NOT USE THIS FORM FOR PE DIFFERENT RESE | TICES AND REPORTS ON ROPOSALS TO DRILL OR TO BE ERVOIR. USE "APPLICATION R C-101) FOR SUCH PROPOSALS | EEPEN OR PLUG BACK TO A OR PERMIT | 7 Lease Name or Utili Agreement Name LANGLIE-MATTIX PENROSE SAND UNIT | | |
| I. Type of Well OE OAS WILL WILL | onex II | UECTION | TRACT 24 | | |
| 2. Name of Operator ANADARKO PETROLEUM COR | RPORATION | | | | |
| 3. Address of Operator P.O. BOX 2497, MIDLAND, TX 7 | 9702-2497 | | 9. Poxi name of Wildcal LANGLIE-MATTIX SR ON GRBG | | |
| 4. Well Location | | | Feel From The EAST L | | |
| 28 | 228 | 37E | LEA | | |
| Section | Township 10. Elevation (Show) 334 | Range whether DF, RKB, RT, GK, etc.: 6' GL | | | |
| n Check | Appropriate Box to Indi | | Report, or Other Data | | |
| NOTICE OF IN | | | BSEQUENT REPORT OF | | |
| ERFORM REMEDIAL WORK | PLUG AND ABANDON | REMEDIAL WORK | ALTERING CASING | | |
| EMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLIN | GIOPNS PLUGIAND ABANDONMENT | | |
| ULL OR ALTER CASING | | CASING TEST AND C | EMENTUOS II | | |
| THER | | | and the second of the second o | | |
| *************************************** | | | and the second company of the second of the | | |
| Describe Proposed or Completed Operworks SEE RULE 1103. | , | - | cluding estimated date of starting any proposed | | |
| 12. Describe Proposed or Completed Operwork) SEE RULE 1103. 3/11/02 - MOVE IN AND RIG UP F 3/12/02 - RAN IN W/RETREIVING 3/12/02 - CIRCULATE HOLE W/SC 3/13/02 - TAG CEMENT AT 2850', HELD 15 MINUTES, TAI 3/13/02 - PERF @ 1280', SET PAI 3/14/02 - TAG CEMENT AT 1156', CEMENT AT 200' | P & A EQUIPMENT, NIPPLE UP HEAD; PULL OUT W/RBP; SET D BBL MLF, PUMP 25 SACKS C PERF AT 2540', SET PACKER LK TO E.L. GONZALES, RAN IN CKER AT 980'. E.P.I.R. 288PM / ; PERF AT 367', SET PACKER / | BOP 1 4 1/2 CIBP @ 3431' EMENT: DISPLACE TO 29/35' AT 2054', PRESSURE UP TO 1 TO 2597', PUMP 25 SACKS, DIS AT 750#, PUMP 133 SACKS, DIS T 93', PUMP 133 SACKS, DIS | ciuding estimatea aase of surring any projected. 1800# WOC, TAG @ 2160' | | |
| 12. Describe Proposed or Completed Operwork) SEE RULE 1103. 3/11/02 - MOVE IN AND RIG UP F 3/12/02 - RAN IN W/RETREIVING 3/12/02 - CIRCULATE HOLE W/SC 3/13/02 - TAG CEMENT AT 2850; HELD 15 MINUTES, TAI 3/13/02 - PERF @ 1280; SET PAI 3/14/02 - TAG CEMENT AT 1156°; CEMENT AT 200° 3/15/02 - TEST TO 500# GOOD; F MOVE OFF | P & A EQUIPMENT, NIPPLE UP HEAD; PULL OUT W/RBP; SET D BBL MLF, PUMP 25 SACKS CI PERF AT 2540°, SET PACKER LIX TO E.L. GONZALES, RAN IN CKER AT 980°. E.P.IR. 288PM; PERF AT 367°, SET PACKER A PERF AT 60°, PUMP 25 SACKS | BOP 14 1/2 CIBP @ 3431' EMENT; DISPLACE TO 29/35' AT 2054', PRESSURE UP TO 12597', PUMP 25 SACKS, DIS AT 750#, PUMP 25SACKS, DIS AT 93', PUMP 133 SACKS, DIS AT OSURFACE; CUT OFF WEL | cluding estimated date of standing any projected 1800# WOC, TAG @ 2160' SPLACE TO 1180', SIP 650# PLACE TO 267' WOC 4 HOURS, TAG | | |
| 12. Describe Proposed or Completed Operwork) SEE RULE 1103. 3/11/02 - MOVE IN AND RIG UP F 3/12/02 - RAN IN W/RETREIVING 3/12/02 - CIRCULATE HOLE W/SC 3/13/02 - TAG CEMENT AT 2850; HELD 15 MINUTES, TAI 3/13/02 - PERF @ 1280; SET PAI 3/14/02 - TAG CEMENT AT 1156°; CEMENT AT 200° 3/15/02 - TEST TO 500# GOOD; F MOVE OFF | P & A EQUIPMENT, NIPPLE UP HEAD; PULL OUT W/RBP; SET D BBL MLF, PUMP 25 SACKS C PERF AT 2540, SET PACKER L CKER AT 980' E.P.I.R. 288PM; PERF AT 367', SET PACKER A PERF AT 60', PUMP 25 SACKS PERF AT 60', PUMP 25 SACKS | BOP 14 1/2 CIBP @ 3431' EMENT; DISPLACE TO 29/35' AT 2054', PRESSURE UP TO 12597', PUMP 25 SACKS, DIS AT 750#, PUMP 25SACKS, DIS AT 93', PUMP 133 SACKS, DIS AT OSURFACE; CUT OFF WEL | 1800# WOC, TAG @ 2160' EPLACE TO 1180', SIP 650# PLACE TO 267' WOC 4 HOURS, TAG LHEAD; INSTALL DRY HOLE MARKER; | | |

| to Appropriate Diginal Office | State o Energy, Minerals and I | of New Me Natural Re | | | Form C 103 Restand 1-1-89 |
|---|--|--|--|--|------------------------------|
| DISTRICT P.O. Box 1980, Hubbs, NM 88240 | OIL CONSER' | a Fc Trail. | , Room 206 | -WILL API NO 30-025-22654 | |
| P.O. Drawer DD, Ameria, NM 88210 | Santa Fe, N | lew Mexic | ∞ 87503 | 5 Indicate Type of Lease | XX |
| DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 874 | 10 | | | n Sur Ou & Ga Leav N LC-058626-A | |
| (DO NOT USE THIS FORM FOR DIFFERENT RE | OTICES AND REPORTS PROPOSALS TO DRILL OR TO SERVOIR, USE "APPLICATION M C-101) FOR SUCH PROPOS | O DEEPEN I | OR PLUG BACK TO A | Lease Name of Crit Age LANGLIE-MATTIX PE | NROSE |
| 1. Type of Well 1. On OAS | . 07103 | WATER | INJECTION WELL | SAND UNIT TRACT 2 | 8 |
| 12 Name of Operator ANADARKO PETROLEUM CO | The state of the s | | and the same of th | 2017 | <u>.</u> |
| 3 Address of Operator P.O. BOX 2497, MIDLAND, TX | | | | 28-07 FOR BRIDGE OF WINDOW LANGLIE-MATTIX SR C | N GRBG |
| 4. Well Location Unit Letter N 6 | 160 Feet From The SO | υτн | Line and 198 | 0 Feet From The | WEST |
| Section 28 | Township 22S | Rai | age 37E | SMESS | LEA |
| | 10. Elevation (SA | low whether | DF, RAB, RT, GK. PL. | 7777 | 474141XVI |
| II Chec | ck Appropriate Box to I | ndicate N | Nature of Notice B | coon, or Other Data | じおねだねねね |
| | NTENTION TO: | | | SEQUENT REPOR | T OF |
| PERFORM REMEDIAL WORK | PLUG AND ABANDO | W A | REMEDIAL WORK | ALTERIN | G CASING |
| TEMPORARILY ABANDON | CHANGE PLANS | | COMMENCE DRILLING | GOPNS L. PLUGAN | THEMHOCHAGA C |
| PULL OR ALTER CASING | j | | CASING TEST AND OF | (MENTUOS) | |
| OTHER | | | OTHER | | |
| 2/25/02 - MILL UP CIBP AT 70 2/26/02 - TAG CEMENT AT 30 | UP P & A EQUIPMENT; LAY D' O' (TALK TO WINKLER W/CCD 0:65', PULL UP TO 2504', PUMF N 4 1/2 CASING, UNABLE TO (LIAMS W/OCD, OK'D TO PERF | OWN 110 J) PUMP 25 P 25 SACKS GET BACK | OINTS OF 2 3/8 TUBIN SACKS CEMENT FROI S OF CEMENT, DISPLA IN 4 1/2 CASING W/MIL | G M 3315' TO 2886' CE TO 2075' LS | |
| 3/8/02 - TALK TO CHRIS WILI SURFACE | ACE, CUT OFF WELLHEAD, IN | ISTALL DR' | | DOWN AND MOVE OFF | SEMENT TO |
| 3/8/02 - TALK TO CHRUS WILL SURFACE 3/11/02 - CEMENT AT SURFA I hereby certify that the information at three u | | . " | Y HOLE MARKER, RIG | ech_III | |
| 3/8/02 - TALK TO CHRUS WILL SURFACE 3/11/02 - CEMENT AT SURFA I hereby certify that the information at three u | the any complete in the cost of my cook | . " | Y HOLE MARKER, RIG | ech_III | |

SONGA

| O Appropriate District Office | State of New Mexico Energy, Minerais and Natural Resources Department | | Form C-103 Revised 1-1-89 | | |
|--|--|---|---|---------------------------------------|--|
| DISTRICT O. Bax 1980, Hobbs, NM 88240 | OIL CONSERVA | | WELL AP! NO. | | |
| USIRICT II | Santa Fe. New Mer | | 30-025-232 | | |
| O. Drawer DD, Artesia, NM 38210 | | | 5. Indicate Type of L | STATE FEE X | |
| 15771(CT M) 200 Rio Brizos Rd., Aztec, NM 87410 | | | 6. State Oil & Gas Le | ase No. | |
| SUNDRY NOTIC | ES AND REPORTS ON | WELLS | 1////////////////////////////////////// | | |
| DO NOT USE THIS FORM FOR PROI | POSALS TO DRILL OR TO DES VOIR, USE "APPLICATION FO | | 7. Lease Name or Un | t Agreement Name | |
| | OILEGE SUCH PROPOSALS: | | • | ttix Penrose | |
| Type of Well: Oil GAS — | | | Sand Unit | 25 | |
| ABT | OTHER | WIW | | | |
| Name of Operator Anadarko Petroleum Com | -n | | 8. Well No. | ! | |
| Address of Operator | · P · | | 9. Pool tame or Wild | at . | |
| P.O. Box 2497; Midland | l, TX 79702 | | Langlie-Mat | tix SR QN GRBG | |
| A et l'Eccation Unit Letter B : 990 | Feet From The North | Line and 165 | O Feet From Th | East Line | |
| Section 28 | Township 22S | Range 37E | NMPM Lea | County | |
| | 11/// 10. Elevation (Show wh | seiner DF, RKB, RT, GR, etc.) | 1/2 | | |
| <u> </u> | ////////////////////////////////////// | ate Nature of Notice, R | | | |
| NOTICE OF INTE | ENTION TO: | SUE | SEQUENT REF | PORT OF: | |
| REPORM REMEDIAL WORK | PLUG AND ABANDON . | REMEDIAL WORK | AL | TERING CASING | |
| MPORARILY ABANDON | CHANGE PLANS | COMMENCE CAILLING | GIOPNSPL | IG AND ABANDONMENT X | |
| LLICA ALTER CASING | | CASING TEST AND C | EMENT JOB | | |
| HER: | • | CTHER: | | complete land | |
| | | | | | |
| l Describe Proposesi in Completed Operatio (work) SEE RULE (103) | тів. Слату зіліе зіі ретінені шы | ius, sna zive seriment dates vicio | iding estimated date of clas | ting any proposed | |
| | | | | | |
| | | | | | |
| l-18-97 Notified Gary Wink w. O | CD. MIRU. SIFN. | | | | |
| • | | Tungad avieting CIRP (c) | Test' Dummad 25 av | 1. con 2.101, 2.201 | |
| 3-19-97 Contacted Gary Wink, Bu | ddy and Charles w/ OCD. | | • | | |
| 3-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249 | iddy and Charles w/ OCD. 7-2095'. Perforated \hat{q} [125] | 0'; RIH w/ packer and estab | olished rate. POOH | v packer and set CICR | |
| 3-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249 | iddy and Charles w/ OCD. 7-2095'. Perforated \hat{q} [125] | | olished rate. POOH | v packer and set CICR | |
| 3-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249' a 1197'. Squeezed 200 s | oddy and Charles w. OCD. 7-2095'. Perforated $\langle \hat{q} \rangle$ 1250 sx C cmt under CICR, pum | 0'; RIH w/ packer and estab | olished rate. POOH forated $ \hat{q} $ 440% RIH | y packer and set CICR w packer and | |
| (-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249° a 1197°. Squeezed 200 s established rate, no circula | oddy and Charles w. OCD. 7-2095'. Perforated $\frac{\pi}{2}$ 1250 sx C cmt under CICR, pumpation to surface outside 4-1 | 0'; RIH w/ packer and estab ped 10 sx 1197-1052'. Pert 2" csg. Pumped 60 sx C ct | blished rate. POOH formed $ \hat{q} $ 440°; RIH mt 440°-surface. RD | y packer and set CICR w packer and | |
| (-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249° a 1197°. Squeezed 200 s established rate, no circula | oddy and Charles w. OCD. 7-2095'. Perforated $\frac{\pi}{2}$ 1250 sx C cmt under CICR, pumpation to surface outside 4-1 | 0'; RIH w/ packer and estab ped 10 sx 1197-1052'. Pert 2" csg. Pumped 60 sx C ct | blished rate. POOH formed $ \hat{q} $ 440°; RIH mt 440°-surface. RD | y packer and set CICR w packer and | |
| (-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249° a 1197°. Squeezed 200 s established rate, no circula | oddy and Charles w. OCD. 7-2095'. Perforated $\frac{\pi}{2}$ 1250 sx C cmt under CICR, pumpation to surface outside 4-1 | 0'; RIH w/ packer and estab ped 10 sx 1197-1052'. Pert 2" csg. Pumped 60 sx C ct | blished rate. POOH formed $ \hat{q} $ 440°; RIH mt 440°-surface. RD | y packer and set CICR w packer and | |
| 6-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249° a 1197°. Squeezed 200 s established rate, no circula | oddy and Charles w. OCD. 7-2095'. Perforated $\frac{\pi}{2}$ 1250 sx C cmt under CICR, pumpation to surface outside 4-1 | 0'; RIH w/ packer and estab ped 10 sx 1197-1052'. Pert 2" csg. Pumped 60 sx C ct | blished rate. POOH formed $ \hat{q} $ 440°; RIH mt 440°-surface. RD | y packer and set CICR w packer and | |
| 6-19-97 Contacted Gary Wink, Bu Pumped 25 sx C cmt 249° q 1197°. Squeezed 200 s established rate, no circula 6-30-97 Cut off wellhead & cappe | oddy and Charles w. OCD. 7-2095'. Perforated $\frac{\pi}{2}$ 1250 sx C cmt under CICR, pumpation to surface outside 4-1 | 0'; RIH w/ packer and estab ped 10 sx 1197-1052'. Pert 2" csg. Pumped 60 sx C ct g up dead men. Installed di | blished rate. POOH formed $ \hat{q} $ 440°; RIH mt 440°-surface. RD | y packer and set CICR w packer and | |
| Pumped 25 sx C cmt 249' a 1197'. Squeezed 200 s established rate, no circula 6-30-97 Cut off wellhead & cappe | addy and Charles w. OCD. 7-2095'. Perforated $\frac{1}{3}$ 1250 sx C cmt under CICR, pumpation to surface outside 4-1 d well. Covered pit and du | 0'; RIH w/ packer and estab ped 10 sx 1197-1052'. Pert 2" csg. Pumped 60 sx C ct g up dead men. Installed di | olished rate. POOH forated \(\hat{q}\) 440°; RIH nt 440°-surface. RD ry hole marker. | y packer and set CICR w packer and | |
| a 1197°. Squeezed 200 s established rate, no circul 3-30-97 Cut off wellhead & cappe अक्ट ट्यूप क्या कि व्यक्ताव्याण अ००९ व व्यक्त | addy and Charles w. OCD. 7-2095'. Perforated at 1250 sx C cmt under CICR, pumpation to surface outside 4-1 d well. Covered pit and du | 0'; RIH w/ packer and establed 10 sx 1197-1052'. Peri 2" csg. Pumped 60 sx C ci g up dead men. Installed di | olished rate. POOH forated \(\hat{q}\) 440°; RIH nt 440°-surface. RD ry hole marker. | v packer and set CICR w packer and | |
| Pumped 25 sx C cmt 249' ### ### ############################ | addy and Charles w. OCD. 7-2095'. Perforated at 1250 sx C cmt under CICR, pumpation to surface outside 4-1 d well. Covered pit and du | 0'; RIH w/ packer and establed 10 sx 1197-1052'. Peri 2" csg. Pumped 60 sx C ci g up dead men. Installed di | olished rate. POOH forated \(\hat{q}\) 440°; RIH nt 440°-surface. RD ry hole marker. | w packer and set CICR w packer and | |
| Pumped 25 sx C cmt 249' a 1197'. Squeezed 200 s established rate, no circula 6-30-97 Cut off wellhead & cappe serroy centry that the Cammagon above is the | addy and Charles w. OCD. 7-2095'. Perforated at 1250 sx C cmt under CICR, pumpation to surface outside 4-1 d well. Covered pit and du | 0'; RIH w/ packer and establed 10 sx 1197-1052'. Peri 2" csg. Pumped 60 sx C ci g up dead men. Installed di | olished rate. POOH forated \(\hat{q}\) 440°; RIH nt 440°-surface. RD ry hole marker. | w packer and set CICR w packer and | |
| Pumped 25 sx C cmt 249' a 1197'. Squeezed 200 s established rate, no circula -30-97 Cut off wellhead & cappe | addy and Charles w. OCD. 7-2095'. Perforated at 1250 sx C cmt under CICR, pumpation to surface outside 4-1 d well. Covered pit and du | 0'; RIH w/ packer and establed 10 sx 1197-1052'. Peri 2" csg. Pumped 60 sx C ci g up dead men. Installed di | olished rate. POOH forated \(\hat{q}\) 440°; RIH nt 440°-surface. RD ry hole marker. | w packer and set CICR w packer and | |

| Submit 3 Copies To Appropriate District Office District 1 State of New Mexico Energy, Minerals and Natural Resources | Form C-103 June 19, 2008 |
|--|--|
| 1625 N. French Dr., Hobbs, NM 88240 | WELL API NO. |
| District II 1701 W. Grand Avg. Adesia, NM 88210 OIL CONSERVATION DIVISION | 30-025-23853 |
| District III 1220 South St. Francis Dr. | 5. Indicate Type of Lease |
| 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Eq. NIM 875.05 | STATE FEE |
| District IV 1220 S. St. Francis Dr., Santa Fe, NM | 6. State Oil & Gas Lease No. |
| 87505 | |
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name |
| DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH | LPG STORAGE # 4 Targa South Eunice Comp Station |
| PROPOSALS.) | 8. Well Number 04 |
| 1. Type of Well: Oil Well Gas Well Other STORAGE 2. Name of Operator | 9. OGRID Number / |
| TARGA MIDSTREAM SERVICE | 24650 |
| 3. Address of Operator | 10. Pool name or Wildcat |
| 6 Desta Dr. Ste 3300 Midland Tx. 79705 | 96670 LPG STORAGE WELL SALADO |
| 4. Well Location | |
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| Section 27 Township 22S Range 37E NMPN 11. Elevation (Show whether DR, RKB, RT, GR, et | |
| 11. Elevation (Snow whether DR, RRB, RT, GR, et | |
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| 12. Check Appropriate Box to Indicate Nature of Notice | e, Report or Other Data |
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| PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ REMEDIAL WO TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ COMMENCE DI | |
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| PULL OR ALTER CASING | NT JOB 📙 |
| DOYVINIOLE COMMINGLE | |
| OTHER: OTHER: | |
| 13. Describe proposed or completed operations. (Clearly state all pertinent details, a | |
| of starting any proposed work). SEE RULE 1103. For Multiple Completions: / or recompletion. | Attach wellbore diagram of proposed completion |
| MOVED ON WELL 6/24/08 RIGGED DOWN TREE AND PIPING NO PRESSURE O | N WELL, PULLED AND LAYED DOWN |
| 7" CASING, SET 133/8 CASTIRON PLUG AT 1820' TESTED PLUG AT 500 LB. FOR | R 30 MIN. HELD. |
| FILLED 133/8 CASING WITH 1140 SK. PREMIUN PLUS (C) CEMENT TO SURFA SLAB AND WELDED CAP FINISH 7/2/08 | CE CUT 133/8 CASING DOWN TO CEMENT |
| SLAD AND WELDED CAP FINISH 1/2/06 | |
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| Approved to | r plugging of well hore only. |
| Liability and | or bond is retained pending receipt |
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| Spud Date: Rig Release Date: | |
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| I hereby certify that the information above is true and complete to the best of my knowled | ge and belief. |
| 6./ - | |
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| Type or print name Call brancham Famail address: Consancham | Rtage PHONE: 432-455-7072 |
| Type or print name Col Wrangham E-mail address: Cwrangham For State Use Only | PHUNE: TOUTH |
| OC PRED REPRESENTATIVE | WISTARY MANNGEN DOT D / 2000 |
| APPROVED BY: Cany . TITLE: | DATE 0 CT 0 6 2008 |

| District Office | State of New M | leuco Resources Departa | Ferm C-103 | | |
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| work) SEE RULE 1903. | | | | | |
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| | stub. TOH w/ 8 | | | | |
| 2. Tim w/ spear | to /" csg stub. | Couldn't | get a hold o | of 7" csg | to pull. TOH w/spear |
| 3. TIH W/ 6%" D1 | t on 6 - 5" DC. | CO to 13 | 193' & hit wat | erflow o | f 15 BPH 3-12-85. |
| | udded up hole w/ | | | | |
| 4. Water flow had | it waterflow of | .c by the | ! 3-14-85. Df#o= 24 b== | . fla ba | d slowed to 42 BPH. |
| 6. CO to 3405'. | Wer flow had alc | 214 DPH. | F PDH TOURS | s llow na | a slowed to 42 BPH. |
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| B. Pumped 100 SX | Class "C" w/ 2% | CaCI pl | ug @ 3376'. W | 70C @ 5 h | rs & tagged up on |
| plug 0 3362'. | | | | | |
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APPENDIX D

IDENTIFICATION OF LESSEES,
SURFACE OWNERS AND OTHER
INTERESTED PARTIES FOR
NOTICES; COPIES OF NOTICE
LETTERS AND CERTIFIED MAIL
RECEIPTS; COPY OF DRAFT PUBLIC
NOTICE FOR HEARING

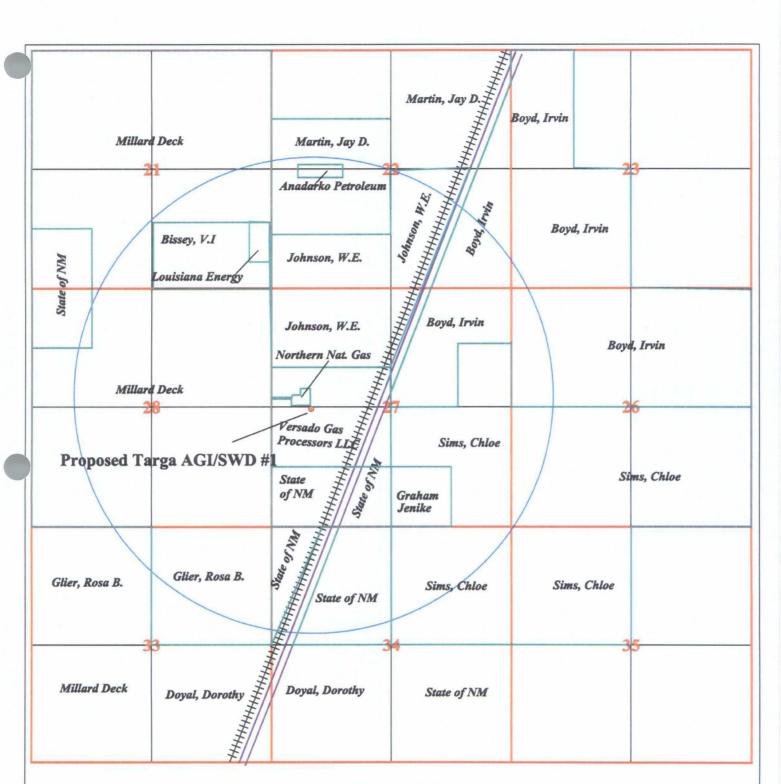


Figure D-1
Approximate Locations of Surface Owners Within One Mile of Proposed Targa AGI/SWD Well





One Mile Circle Around Proposed Targa AGI/SWD Well

TABLE D-1

LIST OF ALL OPERATORS WITHIN 1 MILE AREA OF REVIEW FOR PROPOSED TARGA AGI/SWD #1 WELL

- Anadarko Petroleum Company
 P. O. Box 2497
 Midland, TX 79702
- 2. Burleson Petroleum, Inc. P. O. Box 2479 Midland, TX 79702
- 3. Quantam Resources AI L P 1401 McKinney Suite 2400 Houston, TX 77010
- 4. Black Diamond Resources LLC 1401 McKinney Suite 2400 Houston, TX 77010
- 5. QAC Carried WI, LP 1401 McKinney Suite 2400 Houston, TX 77010
- 6. QAB Carried WI, LP 1401 McKinney Suite 2400 Houston, TX 77010

- 7. John H. Hendrix Corp. P. O. Box 3040 Midland, TX 79702
- Key Energy Services, LLC6 Desta DriveSuite 4400Midland, TX 79705
- Legacy Reserve Operating, LP
 P. O. Box 10848
 Midland, TX 79702
- OXY USA Inc.
 P. O. Box 4294
 Houston, TX 77210
- 11. Range Operating New Mexico LLC100 Throckmorton St.Suite 1200Fort Worth, TX 76102
- 12. Targa Midstream Services LP1000 Louisiana StreetSuite 4700Houston, TX 77002

TABLE D-2

LIST OF SURFACE OWNERS WITHIN 1 MILE RADIUS OF PROPOSED TARGA AGI/SWD #1 WELL

Township 22 South, Range 37 East:

- Millard Deck Estate
 Harding & Carbone, Inc.
 3903 Bellaire Blvd.
 Houston, TX 77025
- New Mexico State Land Office 310 Old Santa Fe Trail P. O. Box 1148 Santa Fe, NM 87504
- 3. William E. Johnston P. O. Box 152 Monument, NM 88265
- 4. Chloe S. Sims P. O. Box 922 Eunice, NM 88231
- Versado Gas Processors, LLC 1000 Louisiana St. Suite 4700 Houston, TX 77002
- 6. George A. Graham, Jr. Jennifer Diane Jenike 701 S. 18th Street Artesia, NM 88210
- Dorothy Doyal et al Minnie Sims Hedgpeth
 P. O. Box 1045
 Jal, NM 88252
- New Mexico State Highway Department
 P. O. Box 1149
 Santa Fe, NM 87504

- 9. Virginia I. Bissey 1048 Marion Richards Rd. Roswell, NM 88201
- 10. Jay D. MartinP. O. Box 416Eunice, NM 88231
- 11. Irvin Boyd
 P. O. Box 121
 Eunice, NM 88231
- 12. Northern Natural Gas Company Property Tax DepartmentP. O. Box 3330Omaha, NE 68103
- 13. Ronald G. Skiles P. O. Box 1306 Eunice, NM 88231
- 14. Rosa B. Glier Rose Deanne Glier Phillips 12803 Dove Drive Buda, TX 78610
- 15. Missouri Pacific Railroad Company Union Pacific Railroad Company Property Tax Department 1400 Douglas Street Omaha, NE 68179
- 16. Louisiana Energy Services LPP. O. Box 1789Eunice, NM 88231
- 17. Anadarko Petroleum Company P. O. Box 2497 Midland, TX 79702

TABLE D-3 UNIT/LEASE AREAS WITHIN TARGA AGI/SWD #1 AREA OF REVIEW

1. LANGLIE-MATTIX PENROSE UNIT

22 SOUTH, 37 EAST:

Section 21: ALL

Section 22: ALL

Section 23: W/2 NW/4; SW/4 SW/4;

Section 26: W/2 W/2; Section 27: ALL

Section 28: ALL

Section 33: E/2 NE/4;

Section 34: N/2; SE/4;

Operator on above Unit: Legacy Reserve Operating, L. P.

303 W. Wall **Suite 1600**

Midland, TX 79701

2. SKELLY PENROSE "A" SAND UNIT

22 SOUTH, 37 EAST:

Section 33: S/2;

Section 34: SW/4;

Operator on above Unit:

Cimerax Energy Company

600 N. Marienfeld

Suite 600

Midland, TX 79701

3. OIL & GAS LEASE

22 SOUTH, 37 EAST:

Section 35: NW/4;

Lessee on above tract:

Anadarko Petroleum Company

1201 Lake Robbins Dr. The Woodlands, TX 77380

TABLE D-4

RESIDENTS AND BUSINESS FACILITIES WITHIN 1 MILE AREA OF REVIEW FOR PROPOSED TARGA AGI/SWD #1 WELL

1. Home - Ronald G. Skiles P. O. Box 1306 Eunice, NM 88231

2. Out of Service Compressor Station -

Northern Natural Gas Company Property Tax Department P. O. Box 3330 Omaha, NE 68103

3. Home – Virginia I Bissey 1048 Marion Richards Rd. Roswell, NM 88201

TABLE D-5

MUNICIPALITIES AND OTHER AGENCIES TO BE INDIVIDUALLY NOTICED WITHIN 5 MILES OF THE PROPOSED TARGA AGI/SWD #1 WELL PURSUANT TO NMOCD REQUEST

 Mayor Johnnie "Matt" White Town of Eunice PO Box 147 Eunice, New Mexico 88231

The remainder of the areas within 5 miles of the proposed well is unincorporated area within Lea County, NM and will be served by the publication of the legal notice in the Hobbs Daily News-Sun.

 US Bureau of Land Management Pecos District Hobbs Field Station 414 W. Taylor Hobbs, NM 88240-1157

3. NM State Land Office (included in notice to surface owners within 1 mile area of review)

November 9, 2010

Generic Notified Party Mailing Address City, State ZipCode

<u>VIA CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

RE: Application of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC and notice of hearing for approval to inject acid gas into Targa's existing Eunice Gas Plant Salt Water Disposal (SWD) Well No. 1 (API No. 30-025-21497), which it proposes to recomplete, located at 1200 feet from the West line and 2580 feet from the South line of Section 27, Township 22 South, Range 37 East, N.M.P.M., Lea County, New Mexico, for combined Acid Gas Injection/Salt Water Disposal (AGI/SWD) service.

| F | |
|------|---|
| Dear | |
| Dear | • |

This letter is to advise you that Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") has filed an application on November 8, 2010 with the New Mexico Oil Conservation Division (NMOCD) to inject acid gas into Targa's existing Eunice Gas Plant SWD Well No. 1 (API No. 30-025-21497), which will be recompleted, to serve as a combined acid gas and wastewater injection well. NMOCD previously approved this proposal in NMOCD Order No. R-12809, as modified by Administrative Order SWD 1161. This application makes certain additions to the scope of work to be completed in connection with the recompletion and development of SWD Well No. 1. The Eunice Gas Plant SWD Well No. 1 is located on the South Eunice Gas Plant property located east of the intersection of Lea County Roads 18 and 20 approximately five (5) miles south of Eunice, NM. The well location is more specifically described as 1200 feet from the West line and 2580 feet from the South line of Section 27, Township 22 South, Range 37 East, N.M.P.M., Lea County, New Mexico. A copy of the application is attached.

Targa proposes to modify the Eunice Gas Plant SWD Well No. 1 in a way to ensure safe injection, including: new casing to 4250 feet below ground surface; special, corrosion-resistant fiberglass-lined tubing; a subsurface safety valve; and inert fluid filling the tubing-casing annulus. The proposed injection would be into the San Andres formation through an injection interval from 4,250 feet to 4,950 feet; would have a maximum injection pressure of 1292 psi; and would have a maximum daily injection rate of 4075 barrels per day of injection fluid (comprised of approximately 2500 barrels per day of acid gas and approximately 1575 barrels per day of produced water and wastewater). The recompleted well will receive wastewater from the Middle and South plants in addition to the proposed treated acid gas (TAG) stream.

This application has been assigned Case Number 14575 and is titled: "Application and Notice of Hearing of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") for approval to inject acid gas" and has been set for hearing before the New Mexico Oil Conservation Division on 8:15 am on Thursday December 16, 2010 at the Oil Conservation Division's Santa Fe office located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties who intend to present evidence at the hearing are required by NMOCD Rule 19.15.4.10 and 19.15.4.13 NMAC to file a Pre-Hearing Statement with the Oil Conservation Division's Santa Fe office, four (4) days in advance of a scheduled hearing, but at least on the Thursday preceding the hearing. This statement must be served on all other parties to the hearing and must include: your name and the name of your attorneys, if any; a concise statement of the case; a statement of the extent to which you support or oppose the application and the order that Targa seeks; the reasons for your support or opposition; the names of all witnesses you will call to testify at the hearing; copies of all exhibits you intend to introduce at the hearing; the approximate time you will need to present your case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have questions concerning this application, you may contact Mr. Alberto Gutierrez at (505) 842-8000 or Geolex, Inc. 500 Marquette Avenue NW, Suite 1350, Albuquerque, New Mexico 87102 or Mr. William C. Scott, at (505) 848-1824 or Modrall, Sperling, Roehl, Harris & Sisk, PA, 500 4th Street NW, Suite 1000, Albuquerque, NM 87102.

Sincerely, Geolex, Inc.

Alberto A. Gutiérrez, C.P.G. President Consultant to Targa Midstream Services Limited Partnership AAG/lh

C:\ Projects\10-011\Notices\Surface Owner -Operator Letter.doc

LEGAL NOTICE November 15, 2010

> Application and Notice of Hearing of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") for approval to inject acid gas, into Targa's existing Eunice Gas Plant Salt Water Disposal (SWD) Well No. 1 (API No. 30-025-21497). Targa proposes to recomplete the well which is located on the South Eunice Gas Plant property located east of the intersection of Lea County Roads 18 and 20 approximately five (5) miles south of Eunice, New Mexico to serve as a combined acid gas and wastewater injection well. The well location is more specifically described as, located at 1200 feet from the West line and 2580 feet from the South line of Section 27, Township 22 South, Range 37 East, NMPM. NMOCD previously approved this proposal in NMOCD Administrative Order SWD 1161, which modified its earlier Order No. R-12809. This application makes certain additions to the scope of work to be completed in connection with the recompletion and development of the well. Targa proposes to modify the Eunice Gas Plant SWD Well No. 1 in a way to ensure safe injection, including: new casing to 4250 feet below ground surface; special, corrosion-resistant fiberglass-lined tubing; a subsurface safety valve; and inert fluid filling the tubing-casing annulus. The proposed injection would be into the San Andres formation through an injection interval from 4250 feet to 4950 feet; would have a maximum injection pressure of 1292 psi; and would have a maximum daily injection rate of 4075 barrels per day of injection fluid consisting of approximately 2500 barrels per day of acid gas and approximately 1575 barrels per day of produced water/wastewater. The recompleted well will receive the wastewater from the Middle and South Plants in addition to the proposed treated acid gas (TAG) stream. Targa may be contacted through its representative, Mr. Alberto Gutierrez, 500 Marquette Ave NW, Suite 1350, Albuquerque, New Mexico 87102 or (505) 842-8000.

> This application has been assigned Case Number 14575 and is titled: "Application and Notice of Hearing of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") for approval to inject acid gas" and has been set for hearing before the New Mexico Oil Conservation Division on 8:15 am on Thursday December 16, 2010 at the NMOCD's Santa Fe office located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. Parties who intend to present evidence at the hearing are required by NMOCD Rule 19.15.4.10 and 19.15.4.13 NMAC to file a Pre-Hearing Statement with the Oil Conservation Division's Santa Fe office, four (4) days in advance of a scheduled hearing, but at least on the Thursday preceding the hearing. This statement must be served on all other parties to the hearing and must include: your name and the name of your attorneys, if any; a concise statement of the case; a statement of the extent to which you support or oppose the application and the order that Targa seeks; the reasons for your support or opposition; the names of all witnesses you will call to testify at the hearing; copies of all exhibits you intend to introduce at the hearing; the approximate time you will need to present your case; and identification of any procedural matters that are to be resolved prior to the hearing.

Aplicación y aviso de audencia de Targa Midstream Services Limited Partnership como operadores de Versado Gas Processors, LLC ("Targa") para la aprobación de una aplicación para inyectar gas acido en el Eunice Gas Plant SWD Well No. 1. (API 30-025-21497), localizado en la propiedad de la South Eunice Gas Plant que queda aproximadamente 5 millas al sur de Eunice, NM al este de la intersección de las carreteras 18 y 20 de Lea County, NM. Targa propone la reconstrucción del pozo para servicio de invección de gas ácido combinado con las aguas residuales. El pozo es ubicado específicamente a 1200 pies de la línea del oeste y 2580 pies de la línea del sur de la sección 27, Township 22 Sur, Range 37 Este, NMPM Esta propuesta fue aprobada anteriormente por NMOCD con la orden SWD-1161 que modifico la orden R-12809. Esta aplicación hace algunas adiciones al ámbito de trabajo que concluirá con la reconstrucción y el desarrollo del pozo. Targa se propone modificar el Eunice Gas Plant SWD Well No. 1 en una forma de asegurar la inyección segura, incluyendo: nueva carcasa a 4250 pies por debajo de la superficie del suelo; especiales y resistentes a la corrosión revestida de fibra de vidrio; una válvula de seguridad subsuelo; y la corona de la carcasa de tubo estará llenada de líquido inerte. La inyección propuesta sería en la formación de San Andrés a través de un intervalo de inyección de 4250 pies a 4950 pies de profundidad. El pozo servirá para inyectar hasta 4075 barriles por día de liquido que consiste de aproximadamente 2500 barriles de gas ácido por día, mezclados con aproximadamente 1575 barriles por día de aguas residuales a una presión máxima de 1292 psi, en la formación del San Andrés, a través de tubería de 27/8", a una profundidad aproximada de 4250 pies a 4950 pies. El pozo se usara para disposición de los gastos liquidos de las plantas Middle y South combinados con gas acido tratado (TAG). Se puede entrar en contacto con Targa a través de su representante, Sr. Alberto Gutierrez, 500 Marquette Ave NW, Suite 1350, Albuquerque, New Mexico 87102 or (505) 842-8000.

Esta aplicación tiene asignado el numero 14575 y esta titulada ""Application and Notice of Hearing of Targa Midstream Services Limited Partnership as operator for Versado Gas Processors, LLC ("Targa") for approval to inject acid gas" y se ha establecido para la audiencia ante la New Mexico Oil Conservation Division a las 8:15 de la mañana el jueves 16 de diciembre de 2010 en la oficina de Santa Fe de NMOCD situada en 1220 South San Francis Drive, Santa Fe, New México 87505. Se exige a las partes que tienen intención de presentar pruebas en la audiencia por las reglas de NMOCD 19.15.4.10 y 19.15.4.13 NMAC que presenten una declaración con la Oficina de Santa Fe de NMOCD, de cuatro (4) días antes de la audiencia, pero al menos el jueves anterior a la audiencia. Esta declaración tiene que ser servida en todas las demás partes a la audiencia y debe incluir: su nombre y el nombre de sus abogados, si los hubiere; una declaración concisa del caso; una declaración de la medida a la que apoyar o se oponen a la aplicación y el orden que busca Targa; los motivos de su apoyo o la oposición; los nombres de todos los testigos que llamará a declarar en la audiencia; copias de todas las exposiciones que desea introducir en la audiencia; el tiempo aproximado que se tendrá que presentar su caso; e identificación de las cuestiones de procedimiento que deban resolverse antes a la audiencia,

APPENDIX E **RULE 11 PLAN SUBMITTED OCTOBER 8, 2010**



HYDROGEN SULFIDE CONTINGENCY PLAN

for

EUNICE PLANT, GATHERING SYSTEM

and

EUNICE AREA ACID GAS PIPELINE

TITLE 19 NATURAL RESOURCES AND WILDLIFE
CHAPTER 15 OIL AND GAS
PART 11 HYDROGEN SULFIDE GAS

VERSADO GAS PROCESSORS, L. L. C.

operated by

TARGA MIDSTREAM SERVICES,

LIMITED PARTNERSHIP

October 6, 2010

Table of Contents

| 1. INT | RODUCTION | . 1 |
|--------|---|-----|
| 1.1 | PLANT DESCRIPTION | . 1 |
| 1.2 | ACID GAS INJECTION & MAP | . 4 |
| 1.3 | DESCRIPTION OF OPERATIONS | . 6 |
| 1.4 | DESCRIPTION OF ACID GAS PIPELINE OPERATIONS | . 6 |
| 2. THE | E PLAN | . 8 |
| 2.1 | RESPONSIBILITY FOR CONFORMANCE WITH THE H ₂ S PLAN | . 8 |
| 2.2 | REVISIONS TO THE PLAN | . 8 |
| 2.3 | AVALABILITY OF THE H ₂ S PLAN | . 8 |
| 2.4 | CONTENT OF THE PLAN | . 8 |
| 3. PLA | AN DESIGN CONSIDERATIONS | . 9 |
| 3.1 | CHARACTERISTICS OF H ₂ S, SO ₂ AND CARBON DIOXIDE | . 9 |
| 3.1 | .1 Hydrogen Sulfide (H ₂ S) | . 9 |
| 3.1 | .2 Sulfur Dioxide (SO ₂) | 10 |
| 3.1 | .3 Carbon Dioxide | |
| 3.2 | RADII OF EXPOSURE (ROE) | 13 |
| 4. EM | ERGENCY ACTION PROCEDURES | 14 |
| 4.1 | EMERGENCY RESPONSE ORGANIZATION | 14 |
| 4.2 | EMERGENCY RESPONSE | |
| 4.2 | .1 Objective | 14 |
| 4.2 | .2 Evacuation and Emergency Assembly Areas | 15 |
| 4.2 | .3 Immediate Action Plans/Initial Responses | 16 |
| 4.2 | .4 Expansion on Immediate Action Plan | 17 |
| 4.2 | .5 Post-Emergency Actions | 19 |
| 4.3 | EMERGENCY SHUT DOWN SYSTEM | 20 |
| 4.4 | NOTIFICATION AND REPORTS | 20 |
| 4.4 | .1 Discovery and Internal Reporting | |
| 4.5 | PUBLIC AWARENESS AND COMMUNICATION | |
| 4.5 | , , | |
| 4.5 | .2 Residences or Public Roads | 22 |
| 4.5 | .3 Businesses or Other Public Areas | 22 |
| 4.6 | SITE SECURITY | |
| 4.7 | SIGNS & MARKERS | |
| 4.8 | FIRST AID STATION | |
| 4.9 | MEDIA SITE | |
| | AINING/DRILLS/EDUCATION | |
| 5.1 | TRAINING | |
| 5.2 | EMERGENCY RESPONSE DRILLS | 25 |

Table of Contents

APPENDIX

Appendix A **Distribution List**

Appendix B Radii of Exposure Calculation

Appendix C Radii of Exposure Map

Emergency Assembly Area Map Appendix D

Appendix E **Emergency Notification List** Appendix F

State and Federal Agency List

1. INTRODUCTION

The Eunice Gas Plant (hereinafter the 'Plant') is a natural gas processing plant which handles and/or generates hydrogen sulfide and/or sulfur dioxide; therefore this Hydrogen Sulfide Contingency Plan (H₂S Plan or Plan) has been developed:

- 1. to satisfy the New Mexico Oil Conservation Division Rule 11;
- 2. to conform with API "Recommended Practices for Oil and Gas Producing and Gas Processing Plant Operations Involving Hydrogen Sulfide," RP 55; and
- 3. to create a site-specific hydrogen sulfide contingency plan that outlines the emergency response procedures that will be implemented to ensure a coordinated, efficient and immediate action Plan for alerting and protecting operating personnel and the public as well as to prevent or minimize environmental hazards and damage to property.

The terms used in this Plan are to be used in the same manner as defined in Title 19 Chapter 15 Part II of the New Mexico Administrative code (19.15.11.7- Definitions) unless otherwise defined herein.

1.1 PLANT DESCRIPTION

The Plant is located in Eunice, Lea County, New Mexico and encompasses 20+ acres. It is owned by Versado Gas Processors, LLC and operated by Targa Midstream Services, Limited Partnership.

More specifically, the Plant is located in Section 3, Township 22S, Range 37E in Eunice, Lea County, New Mexico.

1. Plants coordinates are:

Latitude: 32.425264°N Longitude: -103.147499° W

2. Plants physical address is:

3/4 miles SE of City Eunice, New Mexico 88231

3. Plants mailing address is:

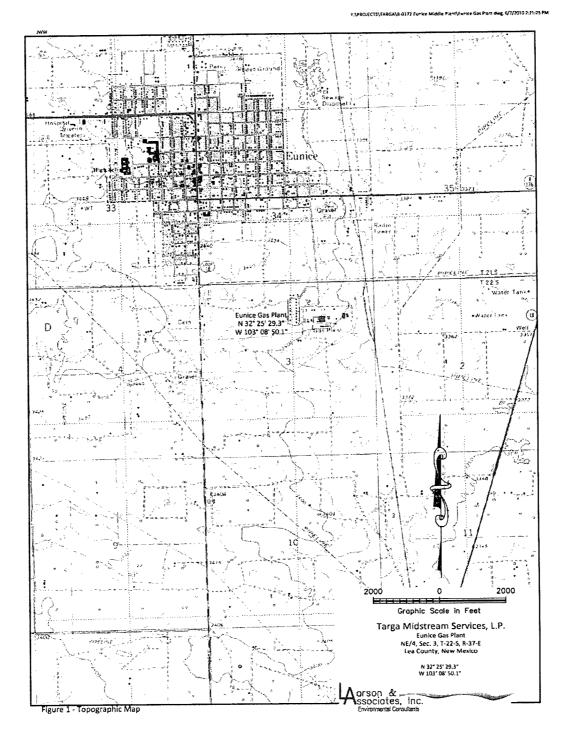
P. O. Box 1909 Eunice, New Mexico 88231

4. Driving Directions from Eunice, New Mexico to the Plant:

From the intersection of Main Street and Texas Avenue (New Mexico Highway 176), travel east on Highway 176 (approximately 0.6 miles) to the intersection of US Hwy 176 and County Road 18 (Middle Plant Lane) in Eunice, New Mexico. Turn right onto

County Road 18 and travel south approximately 0.6 mile to the entrance to the Eunice Gas Plant. The location of the Plant in relation to the city of Eunice is illustrated herein on Figure 1. Targa Midstream Services Limited Partnership Eunice Area Operations 19.15.11 NMAC H₂S Contingency Plan 2 October 6, 2010

Figure 1
Eunice Gas Plant



1.2 ACID GAS INJECTION & MAP

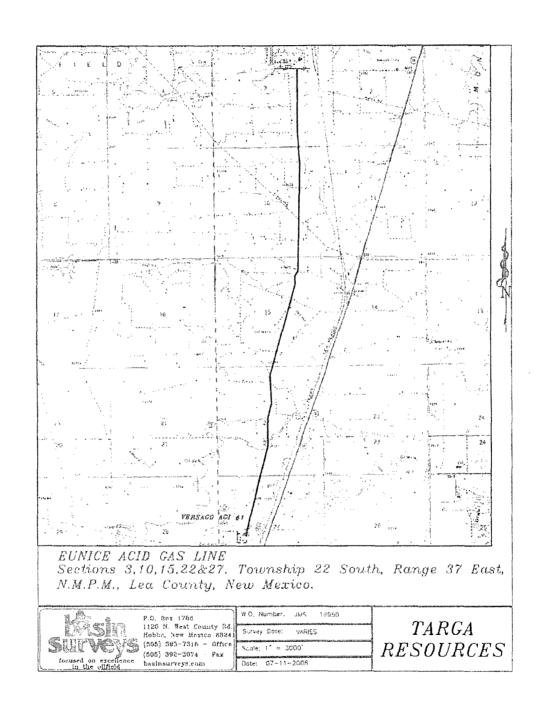
The Eunice Acid Gas Injection line is located in Lea County, New Mexico. The acid gas line encompasses approximately 4.5 mile corridor of privately owned land. A 100 foot wide easement for line installation has been established. The acid gas injection line is owned by Versado Gas Processors, LLC and operated by Targa Midstream Services, LP.

The acid gas pipeline is located in Sections 3, 10, 15, 22 and 27, Township 22 South, Range 37 East, Lea County, New Mexico.

The acid gas injection well is located 1200 feet from the west line and 2580 feet from the south line, Unit L of Section 27, Township 22 south, Range 37 east, NMPM, Lea County, New Mexico.

The location of the Plant and Acid Gas Pipeline is illustrated herein on Figure 2.

Figure 2
Eunice Gas Plant &
Acid Gas Pipeline



1.3 DESCRIPTION OF OPERATIONS

- 1. The Plant operations include gas processing, conditioning and compression, as well as flow lines and storage tanks. The Plant gathers and processes produced natural gas from Lea and Eddy Counties, New Mexico. Once gathered at the Plant, the produced natural gas is compressed; treated in an amine process for the removal of carbon dioxide and hydrogen sulfide; and dehydrated to remove the water content. The processed natural gas and recovered gas liquids are sold and shipped to various customers.
- 2. Because the natural gas that is gathered at the Plant contains hydrogen sulfide, it must be treated or processed to remove these and other impurities. The carbon dioxide and hydrogen sulfide (H₂S) stream that is removed from the natural gas in the amine treating process is compressed to approximately 50 psi and is sent via a high density 16" polyethylene which is inserted into a 22" poly line.
- 3. The Plant is in the process of installing an acid gas injection (AGI) well to accommodate disposal of the acid gas stream generated by existing operations, therefore permanently shutting down the Sulfur Recovery Unit and its permitted air emissions. The operation generates approximately 5 mmcf/d of acid gas for disposal, which consists of approximately 15% H₂S and 85% carbon dioxide.

1.4 DESCRIPTION OF ACID GAS PIPELINE OPERATIONS

- 1. The acid gas stream is received at the well site (located at the South Eunice Compressor Station about 5 miles south of the Plant) where it mixed with water and is further compressed to 1200 psi for injection. This is accomplished by using an electric driven, reciprocating compressor.
- 2. The acid gas is injected into the San Andres Formation at a depth of 4450 feet to 5000 feet below the surface. The wellbore is constructed with 3 casing strings, all with cement circulated to the surface. The acid gas well is permitted under Division Order No. R-12809 and Administrative Order SWD-1611.
- 3. An air blower will move air through the pipeline annulus (which is the between the outside of the 16" and inside of the 22" poly lines) from the acid gas compressor toward the Plant where a fixed H₂S detector is located to detect any leaks from the inner pipe. This detector system alarms in the Eunice Plant Control Room which is manned 24 hours a day.
- 4. An ESD Valve located at the inlet of the Pipeline and another one at the compressor and injection well end which can be remotely operated from the Eunice Plant Control Room in case of emergency. There are also remotely activated valves at the Compressor/Injection Site to move any gas from the pipeline to a Flare for safe removal in an emergency.

- 5. There is a subsurface safety valve (SSSV) on the injection well located below ground to isolate the down hole well contents in case of an emergency.
- 6. The acid gas compressor area is equipped with a fixed H₂S detector system which alarms in the Eunice Plant Control Room which is occupied 24 hours a day.
- 7. The pipeline ROW has warning signs containing the words "poison gas" to warn the public that a potential danger exists.
- 8. The compressor/injection area is protected from public access with chain link fencing.
- 9. Wind direction indicators known as wind socks are located at the compressor/injection site so that it is visible from all principal working areas at all times.

2. THE PLAN

2.1 RESPONSIBILITY FOR CONFORMANCE WITH THE H₂S PLAN

It is the responsibility of all personnel on-site to follow the safety and emergency procedures outlined in the Hydrogen Sulfide Contingency Plan (the H_2S Plan) as well as the following documents:

- Targa Midstream Safety & Health Manual;
- Targa Midstream Eunice Plant Emergency Response, Groundwater Discharge Plan and Oil Spill Contingency Plan; and
- Targa Midstream Environmental Policies and Programs.

2.2 REVISIONS TO THE PLAN

The H₂S Plan will be reviewed annually and revised as necessary to address changes to the Plant facilities, operations, or training requirements, contact information and the public areas including roads, businesses, or residents potentially affected by the operations of the Plant, specifically those areas within the radii-of-exposure.

2.3 AVALABILITY OF THE H₂S PLAN

The H_2S Plan shall be available to all personnel responsible for implementation, regardless of their normal location assignment. A copy of the Plan will be maintained at the Plant in the Area Manager's office, control room and all Plant Supervisors. See Appendix A for the H_2S Distribution List, which lists all the additional entities that have been provided a copy of the H_2S Plan.

2.4 CONTENT OF THE PLAN

At a minimum, the H₂S Plan will contain information regarding:

- 1. The emergency procedures to be followed in the event of an H₂S or SO₂ release that may pose a threat to the Plant, public or public areas;
- 2. The characteristics of H₂S and SO₂;
- 3. A facility description, map and/or drawings; and
- 4. Information regarding training and drills to be conducted related to this Plan.

3. PLAN DESIGN CONSIDERATIONS

3.1 CHARACTERISTICS OF H₂S, SO₂ AND CARBON DIOXIDE

3.1.1 Hydrogen Sulfide (H₂S)

The proposed inlet gas streams into the Plant will contain approximately 6,000 ppm (or 0.60 mole percent) of hydrogen sulfide based on data generated from the sampling of the inlet gas on September 28, 2010.

Hydrogen sulfide is a colorless, toxic and flammable gas, and has the odor of rotten eggs. Hydrogen sulfide gas is heavier than air.

Hydrogen sulfide presents a significant health hazard by paralyzing the respiratory system resulting in serious injury or death.

| Hydrogen Sulfide Prop | perties & Characteristics |
|------------------------------|---|
| CAS No. | 7783-06-4 |
| Molecular Formula | H ₂ S |
| Molecular Weight | 34.082 |
| TWA | 10 ppm |
| STEL | 15 ppm |
| IDLH | 100 ppm |
| Specific Gravity (air = 1.0) | 1.189 |
| Boiling Point | -76.5°F |
| Freezing Point | -121.8°F |
| Vapor Pressure | 396 psia |
| Auto Ignition Temperature | 518°F |
| Lower Flammability Limit | 4.3% |
| Upper Flammability Limit | 46.0% |
| Stability | Stable |
| pH in Water | 3 |
| Corrosivity | Reacts with metal, plastics, tissues & nerves |

| | Phy | rsical Effects of Hydrogen Sulfide |
|---------------|--------|---|
| Concentration | | Physical Effect |
| ppm | % | |
| 1 | .00010 | Can be smelled (rotten egg odor) |
| 10 | 0.0010 | Obvious & unpleasant odor; Permissible Exposure Limit; Safe for 8-hour exposure |
| 15 | 0.0015 | Short Term Exposure Limit (STEL); Safe for 15 minutes of exposure without respirator |
| 50 | 0.0050 | Loss of sense of smell in 15 minutes |
| 100 | 0.0100 | Immediately Dangerous to Life & Health (IDLH); Loss of sense of smell in 3-15 minutes; Stinging in eyes & throat; Altered breathing |
| 200 | 0.0200 | Kills smell rapidly; Stinging in eyes & throat |
| 500 | 0.0500 | Dizziness; Unconscious after short exposure; Need artificial respiration |
| 700 | 0.0700 | Unconscious quickly; death will result if not rescued promptly |
| 1,000 | 0.1000 | Instant unconsciousness; followed by death within minutes |

3.1.2 Sulfur Dioxide (SO₂)

Sulfur dioxide is produced as a by-product of H_2S combustion. The waste gas stream consisting of hydrogen sulfide and carbon dioxide is routed to the plant acid gas flare during abnormal conditions when the acid gas injection equipment is out of service. Waste gas is routed to the acid gas flare during maintenance operations.

It is colorless, transparent, and is non-flammable, with a pungent odor associated with burning sulfur.

Sulfur dioxide is heavier than air, but will be picked up by a breeze and carried downwind at elevated temperatures. Sulfur dioxide can be extremely irritating to the eyes and mucous membranes of the upper respiratory tract.

| Sulfur Dioxide Prope | rties & Characteristics |
|------------------------------|--|
| CAS No. | 7446-09-5 |
| Molecular Formula | SO ₂ |
| Molecular Weight | 64.07 |
| TWA | 2 ppm |
| STEL . | 5 ppm |
| IDLH | 100 ppm |
| Specific Gravity (air = 1.0) | 2.26 |
| Boiling Point | 14°F |
| Freezing Point | -103.9°F |
| Vapor Pressure | 49.1 psia |
| Auto Ignition Temperature | N/A |
| Lower Flammability Limit | N/A |
| Upper Flammability Limit | N/A |
| Stability | Stable |
| Corrosivity | Could form an acid rain in aqueous solutions |

| | Physical Effects of Sulfur Dioxide |
|---------------|---|
| Concentration | Effect |
| 1 ppm | Pungent odor, may cause respiratory changes |
| 2 ppm | Permissible exposure limit; Safe for an 8 hour exposure |
| 3-5 ppm | Pungent odor; normally a person can detect sulfur dioxide in this range |
| 5 ppm | Short Term Exposure Limit (STEL); Safe for 15 minutes of exposure |
| 12 ppm | Throat irritation, coughing, chest constriction, eyes tear and burn |
| 100 ppm | Immediately Dangerous To Life & Health (IDLH) |
| 150 ppm | So irritating that it can only be endured for a few minutes |
| 500 ppm | Causes a sense of suffocation, even with first breath |
| 1,000 ppm | Death may result unless rescued promptly. |

3.1.3 Carbon Dioxide

The current inlet gas streams to the Plant contain approximately 3.8% carbon dioxide based on an inlet sample collected on September 28, 2010.

Carbon dioxide gas is colorless, odorless, and non-flammable. Carbon dioxide is heavier than air.

| Carbon Dioxide Prop | erties & Characteristics |
|------------------------------|--|
| CAS No. | 124-38-9 |
| Molecular Formula | CO ₂ |
| Molecular Weight | 44.010 |
| TWA | 5,000 ppm |
| STEL | 30,000 ppm |
| IDLH | 40,000 ppm |
| Specific Gravity (air = 1.0) | 1.5197 |
| Boiling Point | -109.12°F |
| Freezing Point | -69.81°F |
| Vapor Pressure | 830 psia |
| Auto Ignition Temperature | N/A |
| Lower Flammability Limit | N/A |
| Upper Flammability Limit | N/A |
| Stability | Stable |
| pH in saturated solution | 3.7 |
| Corrosivity | dry gas is relatively inert & not corrosive; can be corrosive to mild steels in aqueous solution |

| | Physical Effects of Carbon Dioxide |
|---------------|--|
| Concentration | Effect |
| 1.0 % | Breathing rate increases slightly |
| 2.0 % | Breathing rate increases to 50% above normal level. Prolonged exposure can cause headache, tiredness |
| 3.0 % | Breathing rate increases to twice normal rate and becomes labored. Weak narcotic effect. Impaired hearing, headache, increased blood pressure and pulse rate |
| 4 – 5 % | Breathing increases to approximately four times normal rate, symptoms of intoxication become evident, and slight choking may be felt |
| 5 10 % | Characteristic sharp odor noticeable. Very labored breathing, headache, visual impairment, and ringing in the ears. Judgment may be impaired, followed within minutes by loss of consciousness |
| 10 – 100 % | Unconsciousness occurs more rapidly above 10% level. Prolonged exposure to high concentrations may eventually result in death from asphyxiation |

3.2 RADII OF EXPOSURE (ROE)

For the existing operations, the Radius of Exposure for both 500-ppm and 100-ppm of H_2S gas was determined using the The Pasquill-Gifford derived equation, as defined by NMAC, which uses the maximum daily rate of the gaseous mixture that is handled by the Plant.

The rates and other variables used to calculate the ROE is discussed in greater detail in Appendix B - ROE calculations. Also refer to Appendix C - map showing 500-ppm ROE and the 100-ppm ROE.

| 500 ppm ROE – public road | 2,900 feet |
|---------------------------|------------|
| 300 ppm ROE | 4,033 feet |
| 100 ppm ROE – public area | 6,346 feet |
| | |

4. EMERGENCY ACTION PROCEDURES

4.1 EMERGENCY RESPONSE ORGANIZATION

The Plant uses the Incident Command System (ICS) for emergency response. The ICS structure used is based on the National Interagency Incident Management System (NIIMS), and is consistent with the National Contingency Plan (NCP).

In the event of an accidental release that results in the activation of the H_2S Plan and all personnel have been evacuated out of the affected area, the Area Manager, or his designee, will be the On-Scene Incident Commander (IC in this Plan). Upon notification of an emergency the Area Manager or his relief will serve as the Field Incident Commander (FIC). Under certain conditions, the New Mexico State Police responding to the emergency may elect to assume the position of FIC or they may establish a Unified Command of which the Targa Area Manager may be a key member. The responsibility of the FIC is to ensure control of the emergency incident. The IC will contact and coordinate with Targa's management in corporate office.

The Area Manager or his designee shall determine:

- 1. Plant Shutdowns;
- 2. Isolation of pipeline segments; and
- 3. Repairs, tests or restarts as required.

If an emergency occurs, the Area Manager, or his designee, shall be notified first. The Area Manager, or his designee, shall notify Targa's Office in Midland, Texas. If any person in this chain of command is unavailable, the Targa employee shall elevate the communication to the next level.

4.2 EMERGENCY RESPONSE

This section explains the procedures and decision to be used in the event of an H_2S release; much of which has been pre-determined to ensure a coordinated, efficient and immediate action Plan for alerting and protecting operating personnel and the public as well as to prevent or minimize environmental hazards and damage to property.

4.2.1 Objective

All Area employees shall be prepared to respond to an H_2S or SO_2 emergency at the Plant and Pipelines. Emergency response actions may be taken for a variety of situations that may occur in the Plant. The Plan is activated in based on the concentration of H_2S that has been released.

Plant - Emergency alarm sounded and/or flashing red beacons activated for H₂S greater than 10 ppm,

- 100 ppm in any public area, or
- 500 ppm at any public road, or
- When a 100 ppm ROE is greater than 3,000 feet from the site of the release.

As soon as the Plan has been activated based on the criteria above, the Area Manager, or his designee, shall be notified. In the absence of the Area Manager or his relief the Targa employee (first responder) at the site shall assume the role of FIC and determine whether or not to activate the Contingency Plan. It is the responsibility of the FIC to ensure control of the emergency response management system and if necessary to coordinate these efforts with any state or local emergency plans.

4.2.2 Evacuation and Emergency Assembly Areas

Evacuation to the assembly point for all visitors and Plant personnel begins when the emergency alarm is activated. After assembly, if necessary the Plant operators are to put on the 30-min SCBA to rescue any personnel that are in distress and assist any distressed personnel in evacuating to Emergency Assembly Area 1.

Emergency services (911) will be contacted if there are injuries or as otherwise deemed necessary. The operators will then, wearing the SCBA, investigate the cause of the release. At the sound of the alarm and/or flashing red beacons, all other personnel in the Plant are to stop work, check the prevailing wind direction and immediately proceed along designated evacuation routes and/or upwind to the pre-designated Emergency Assembly Area (Main Office Building) as shown in Appendix D.

Prevailing winds for the area are from the south. Personnel should evacuate along the designated route unless the designated evacuation route is downwind of the release (based on the windsock), then all evacuees should proceed upwind to the Emergency Assembly Areas.

The Plant and acid gas pipeline show evacuation routes to be determined on wind direction and windsocks.

Emergency Assembly Area
Main Office Building of the Plant
See Appendix D

Roll call shall be conducted at the Emergency Assembly Area to assure all personnel have evacuated safely. This facility requires all visitors check in before entering the Plant, thus the check-in sheet will be used at the Emergency Assembly Areas to make a full accounting of all personnel and visitors.

4.2.3 Immediate Action Plans/Initial Responses

Targa Plant Operators are authorized to elevate the level of response based on observed conditions if a lower level response may not be effective in protecting personnel, the public or the environment.

The following outlines the immediate action Plan. This is to be used when responding to an H_2S release occurring at the Plant, acid gas pipeline or the acid gas well. Additional or long term response actions will be determined on a case-by-case basis, if needed, once the Incident Command Center and System is established following the immediate response.

Some steps may be taken simultaneously.

- A. Request assistance, if needed.
 - 1. Alert and account for facility personnel
 - 2. Move away from the source and get away from the affected area
 - 3. Don personal protective breathing equipment
 - 4. Alert other affected personnel
 - 5. Assist personnel in distress
 - 6. Proceed to the designated emergency assembly area
 - 7. Account for on-site personnel
- B. Take immediate measures to control the presence of or potential H₂S discharge and to eliminate possible ignition sources. Emergency shutdown procedures should be initiated as deemed necessary to correct or control the specific situation. When the required action cannot be accomplished in time to prevent exposing operating personnel or the public to hazardous concentrations of H₂S, proceed to the following steps, as appropriate for the site-specific conditions.
- C. Alert the public (directly or through appropriate government agencies) that they may be subjected to an atmosphere exceeding 30 ppm of H₂S. Initiate evacuation of those within the exposure area.
- D. Contact the Area Manager or first available person on the call list. Notify them of the circumstances and whether or not immediate assistance is needed. The Area Manager should notify (or arrange for notification of) other supervisors and other appropriate personnel (including public officials) on the call list, as necessary.
- E. Cordon off the exposure area to prevent entry, make recommendations to public officials regarding blocking unauthorized access to the unsafe area, and assist as appropriate. Make recommendations to public officials regarding evacuating the public and assist as appropriate.

- F. Notify, as required, state and local officials and the National Response Center to comply with release reporting requirements.
- G. Monitor the ambient air in the area of exposure (after following abatement measures) to determine when it is safe for re-entry.
- H. Return the situation to normal.

4.2.4 Expansion on Immediate Action Plan

The following discussion expands on the emergency actions in the order in which they were previously listed. Ideally, some of these actions, after the first, will be performed simultaneously. There may be situations where actions must be performed in a different sequence from those listed. The employee first knowing about the potential hazard (First Responder) will take the first action(s). Subsequent actions will generally be taken by or assisted by those dispatched to help.

A. Request Assistance if Needed

Any employee who finds himself in an emergency situation involving the escape of hydrogen sulfide gas that would pose a hazard to the public shall notify the Area Manager, or his designated alternate, by the fastest means. The employee will advise the Area Manager, or alternate, of the location and nature of the emergency and the assistance needed. He will also state the actions taken and those he will be taking while waiting for assistance. The Area Manager is directly responsible for requesting the assistance needed. He will also proceed with the appropriate notifications. Please refer to Appendix B of this Plan for a list of emergency telephone numbers.

B. Stop the Escape of Hydrogen Sulfide

Isolate the leak by closing the upstream and downstream valves. If necessary, initiate emergency shutdown (ESD) procedures for the equipment.

C. Alert the Public and Evacuate Those Within the Exposure Area

Alert all persons who are within the exposure area. Refer to the map and list of ROEs in Appendix C. In the event a leak causes a potentially hazardous volume public, notification must be made immediately by the employee who discovers (or arrives first at the leak site) and judges the situation serious enough to require immediate evacuation. If it is determined that the notification proceeding shall not be immediate, the Area Manager is the designated employee to initiate evacuations. Whether by the first person at the scene or by the Area Manager, notification to the public shall be made by the fastest possible means.

In the event that complete or partial evacuation becomes necessary, evacuation must be confirmed by personal observations, which should include repeat visits to the area to confirm that persons have not entered the evacuated area. If evacuation is deemed

prudent, advise persons and/or assist them to leave the area without delay by the fastest, safest route out of the exposure area. In populated areas such as the City of Eunice, evacuations will be conducted by city officials with the aid of Targa employees, if requested.

- First, evacuation should be from the 500 ppm exposure area, giving priority to the downwind position.
- Next, evacuate those within the potential exposure area, giving priority to the downwind position.
- Monitor ambient hydrogen sulfide concentrations in adjacent areas to ensure that any exposed residents are evacuated.
- Always wear a breathing apparatus.

D. Contact the Area Manager

The Targa employee (first responder) responding to or receiving notification of an emergency situation shall immediately proceed to the location and attempt to assess the situation, notify the Area Manager or his relief, and take the following actions:

- Provide the Area Manager with as much data possible concerning the location, the extent of emergency and need for additional assistance.
- Warn others in the area of situation, evacuate if necessary.
- Remain at the site, at a safe distance, and available for communication. Wait for assistance to arrive before attempting to enter into any potentially hazardous area.
- Initiate rescue and first aid as the situation dictates.

E. <u>Cordon off the Exposure Area to Prevent Entry and/or Make Barricade and Evacuation</u> Recommendations

Place barricades outside the area of exposure on all routes to prevent entry into the area. Barricades must be manned by Targa and/or law enforcement personnel to prevent entry. The persons manning the barricades must be equipped with a protective breathing apparatus, hydrogen sulfide measuring devices, and two-way radios or cell phones. Barricades should be placed a safe distance away from the potential exposure area and should be monitored for Hydrogen Sulfide.

Based on all information available and the calculated potential exposure information listed in Appendix B, make recommendations to public officials for the strategic placing barricades, for evacuating the public, and assist as needed. Priority should be given to those areas in the 500 ppm radius of exposure, then the 100 ppm radius of exposure, with consideration given to the wind direction. Proper caution should be used for shifting changes in wind direction.

F. Complete Notifications as Required

Generally, some notifications will have been made under Steps A or D. Any of the following notifications that were not made must be made as soon as possible. Normally the Region ES&H Advisors will complete the agency notifications.

- Complete the chain of notification within the company.
- The local public safety officials not already notified who need to be aware of the situation
- New Mexico Oil Conservation Division Notification to the OCD should be made as soon as possible, but must be made no more than 4 hours after a Plan evacuation. A full report of the incident must be submitted to the Division on Form C-141 no later than 15 days following the release.
- Environmental Protection Agency Regional Office.

G. Monitor for Safe Re-entry

As soon as the complete and permanent stoppage of the release is confirmed, begin monitoring evacuated areas for hydrogen sulfide and combustible gas concentrations. Monitor the ambient air in the area of exposure only after following abatement measures, to determine when it is safe for re-entry.

H. Return of the Situation to Normal

No re-entry will be allowed until ambient conditions have been assessed and verified. Communications for re-entry should be coordinated through the Area Manager assuming the role of Field Incident Commander (FIC). When total absence of hydrogen sulfide and combustible gas is confirmed throughout the evacuated area, notify the sheriff's office so that they may be informed of the situation. Advise all parties previously notified that the emergency has ended.

4.2.5 Post-Emergency Actions

In the event this plan is activated, the following post-emergency actions shall be taken in an effort to reduce the possibility of a recurrence of the type of problem that required its activation and to assure that any future activation will be as effective as possible:

- Clean up, recharge, restock, repair, and replace emergency equipment, as necessary, and return it to its original location.
- Critique all actions and procedures, providing additional training to employees if need is indicated. Modify contingency plan, if necessary.
- Review the cause of the emergency and modify operating maintenance and other surveillance procedures, if needed.

- Ensure all agency notifications have been completed and follow-up with any written notification requirements.
- Ensure all previously notified or evacuated persons have been advised that the emergency situation has ended.

4.3 EMERGENCY SHUT DOWN SYSTEM

The Plant, acid gas pipeline and acid gas well have extensive Emergency Shut Down (ESD) and Process Shutdown (PSD) systems designed to isolate and out-going gas and product streams, contain hydrocarbon and H₂S releases, and safely depressurize equipment to flares. There systems are automatically and manually initiated, depending on process conditions. There are manually activated ESD buttons located at exit locations at the Plant and the acid gas well. A diagram is presented in Appendix D.

4.4 NOTIFICATION AND REPORTS

The Plant has various notification and reporting obligations. Some are related to its state air quality permit that is overseen by New Mexico Environmental Department (NMED) as well as well as state and federal spill reporting obligations. In addition to the regulatory obligations noted above, Plant personnel also have internal and external notification and reporting obligations associated with the activation of this Plan.

The New Mexico Oil Conservation Division (NMOCD) will be notified as soon as possible but no later than 4 hours following a release of H_2S requiring activation of this Plan. This shall be followed up with a full report of the incident using the NMOCD's C-141 form, no later than 15 days following the release.

4.4.1 Discovery and Internal Reporting

All Plant personnel who perform operations, maintenance and/or repair work within the Plant, acid gas pipeline and acid gas well must wear H_2S monitoring devices to assist them in detecting the presence of unsafe levels of H_2S . When any personnel, while performing such work, discovers a leak or emission release they are to attempt to resolve the issue as long as H_2S levels remain below 10 ppm. The personal monitoring devices they wear will give off an audible alarm at 10 ppm.

If the response action needed to resolve the issue is more than simply closing a value or stopping a small leak, personnel shall notify the Area Manager, or his designee and convey, at a minimum, the following information:

- Name, telephone number, and location of person reporting the situation; and
- Type and severity of the emergency; and

- Location of the emergency (area/block, mile markers, latitude & longitude, or building), and the distance to surrounding equipment and/or structures; and
- The cause of the spill or leak, name and quantity of material released, and extent of the affected area including the degree of environmental hazard; and
- Description of injuries and report of damage to property and structures; and
- Initiate and maintain a Chronological Record of Events log. This record should record the time, date, and a summary of the event.

If personnel detect H₂S levels greater than 10 ppm either as a result of his/her personal monitoring device or hearing the emergency alarm, Plant operators are to contact their immediate supervisor for assistance and put on the 30-min SCBA for rescue if necessary.

All non essential persons shall be notified of the release and evacuated from the area. Responding operators wearing the SCBAs are to first assist any persons requiring assistance during the evacuation, then attempt to resolve the issue. The Plant operator is then responsible for notifying the Area Manager or his designee so that the IC system can be implemented and H₂S Plan activated if necessary.

Once the Area Manager is contacted, he or his designee is to notify the appropriate corporate management, EHS personnel, Plant emergency response personnel, and advise them of the existing emergency situation. Corporate management will then conduct the reporting up that is necessary based on the situation.

Plant personnel are to advise any contractor, service company, and all others on-site or attempting to enter the Plant that the H₂S Plan has been activated.

4.5 PUBLIC AWARENESS AND COMMUNICATION

Public awareness and communication is a primary function of the H₂S Plan. The Company has compiled a list of various public, private, state and local contacts that are to be notified at various phases during the activation of the Plan. Refer to the Emergency Notification List in Appendix E that indicates when certain entities are to be contacted in event of activation of this Plan.

Company will inform all state and local response organizations of its Plan as well as those businesses that fall within its 500-ppm and 100-ppm ROE as illustrated in Appendix C.

4.5.1 Public Areas, Nearby Businesses and Residents

The contact information for local and state agencies and contractors is contained in Appendix F. All entities within the 500 ppm and 100 ppm radius of exposure will be contacted by Plant personnel as designated by Area Manager if the Plan is activated and based on response level as described in the Immediate Action Plan and advised of the following:

- The nature and extent of the release/emergency at the Plant, acid gas pipeline or acid gas well and recommendations for protective actions, such as evacuation or shelter-in-place;
- Any other event specific information that is necessary to protect the public; and
- Updates as to the status of the release and continued safety measures to be taken, including but not limited to when to evacuate and/or when it is safe to return to the area.

4.5.2 Residences or Public Roads

Public County Road 176 and HWY 18 are within the 100 ppm radius of exposure, along with several county and lease roads. Several residences are included within the 100 ppm radius of exposure.

4.5.3 Businesses or Other Public Areas

All businesses included within the ROE will be provided with a copy of the H_2S Plan and will be contacted about participation when local emergency response training events or drills occur.

Due to the overlapping nature of the radius of exposures for the plant, pipeline and acid gas well, all residences, manned and unmanned businesses and producers will be notified if the Plan is enacted.

4.6 SITE SECURITY

- A. In order to have an accurate listing of all personnel on-site in the event of an emergency, a daily sign-in log sheet shall be utilized. The sign-in log sheet shall include at a minimum the person's name, the company name, the time of arrival, and the time of departure.
- B. The Incident Commander shall be responsible to assure that all personnel sign-in upon arrival and sign-out upon departure from the job site.
- C. The Incident Commander may at his discretion assign the responsibilities for the daily sign-in log sheet to the individual designated as the Record Keeper or another designee.

- D. At the discretion of the Incident Commander, a security coordinator and/or a security team may be established, and the access to the job site restricted.
- E. Road blocks will occur as outlined in the Response Level detail for the Plant, road crossing, pipeline, or acid gas well sites.

4.7 SIGNS & MARKERS

The Plant, acid gas pipeline and acid gas well have numerous warning signs indicating the presence of H₂S/Poisonous Gas and high pressure gas at the entrance to the Plant, along the pipeline right away, acid gas well and road crossings. Emergency response phone numbers are posted at the entrance to the Plant and acid gas well. Acid gas pipeline markers also include emergency response numbers.

Signs are located at the Plant and acid gas well gate entrances indicating that all visitors are to sign in at the Plant office.

4.8 FIRST AID STATION

The first aid station will be located at the Emergency Assembly Area.

FIRST AID KITS are located:

Plant Office Building
Maintenance/Safety Office Building
Each Company Vehicle

4.9 MEDIA SITE

At no time shall any unescorted representative from the media be allowed any closer to the Plant, acid gas pipeline, or acid gas well than cold zone location, unless approved by the Incident Commander and the Safety Officer has approved their entry.

Media personnel shall not be allowed to enter Targa Midstream property without the approval of Targa Midstream Area Manager or his designee, and shall be escorted by Targa Midstream personnel at all times.

All media inquiries should be directed to Corporate Communications in Houston. The FIC or his designee will provide Corporate Communications with periodic updates and will take their direction with regard to any onsite communication with the media.

5. TRAINING/DRILLS/EDUCATION

5.1 TRAINING

Targa recognizes that the most critical portion of this plan is Emergency Procedures. To ensure the most effective implementation of these procedures, pre-emergency measures shall be completed to attain a state of preparedness. These actions are as follows:

- Every employee is to be completely familiar with the contents and location of the contingency plan.
- Surveillance and preventative maintenance to minimize the possibility of an accidental release of gas.
- Training and drills will be conducted as further described below.
- All emergency breathing equipment is maintained and ready for use.
- This Plan is made available to appropriate public response officials and shall be reviewed and discussed thoroughly with the City of Eunice emergency response officials.
- Targa will use brochures, public notices, or other means, as deemed appropriate and practical, to alert and educate any persons who reside within the potential areas of exposure.

All training records for the Plant are maintained at the Plant. The following is a limited list and summary of the training programs that relate to the H₂S Plan and Emergency Response:

Plant Orientation Training - All Plant personnel, visitors, and contractors must attend a Plant overview orientation prior to obtaining permission to enter the Plant. A refresher course on this training is required annually for all persons. This training also complies with the requirements of the Targa Safety Standards Manual.

Hydrogen Sulfide and Sulfur Dioxide Training — All Plant personnel receive annual refresher training on hydrogen sulfide and sulfur dioxide, which is conducted by the Targa Training Group. If an individual is unable to attend, they may be required to attend a third party training session. All contract employees and visitors are required to have had hydrogen sulfide training and to provide the Plant a copy of their certification card prior to obtaining permission to enter the Plant.

Respirators - All Plant personnel are trained annually on the proper use of SCBA respirators. In addition to the annual training, all Plant personnel are fit tested annually on the respirators per OSHA Rules.

Hazard Communication - All Plant personnel are trained annually on Hazard Communication and SARA Title III Right-to-Know information. The annual training includes, at a minimum, a review of material safety data sheets (MSDS) for those materials that are present at the Plant and labeling.

Personal Protective Equipment (PPE) - All Plant personnel are trained annually on the Targa requirements for personal protective equipment (PPE). The training includes, at a minimum, a review of all the types and levels of personal protective equipment and how to select the correct equipment for the job.

5.2 EMERGENCY RESPONSE DRILLS

The Plant will conduct, at least, a tabletop drill annually. Multiple drills during the year may be scheduled at the discretion of the Area Manager or as part of the Emergency Response Agencies.

The annual drill will exercise this Plan and include, at a minimum, contacting the entities that are identified as being within the 500-ppm ROE and the Local Emergency Response contacts. The drills will also include briefing of public officials on issues such as evacuation or shelter-in-place plans.

Drill training will be documented and those records will be maintained at the Plant. The documentation shall include at a minimum the following:

- Description or scope of the drill, including date and time;
- Attendees and Participant to the drill;
- Summary of activities and responses; and
- Post drill de-brief and reviews.

Appendix A

H₂S Plan Distribution List

New Mexico Oil & Gas Conservation Division

New Mexico Department of Public Safety

Eunice Fire Department

Lea County LEPC

Eunice Police

Eunice Gas Plant Supervisors

Control Room

Acid Gas Well Building and Location

Targa Midstream Office (Midland, TX)

The formulas for calculating the two ROEs (as specified by OCD Rule 118, Pasquill-Gifford Equation) are as follows:

500-ppm RADIUS OF EXPOSURE CACULATION

(0.6258

X = [(0.4546)(hydrogen sulfide conc.)(Q)]

100-ppm RADIUS OF EXPOSURE CACULATION

(0.6258)

X = [(1.589)(hydrogen sulfide conc.)(Q)]

Where:

X = Radius of exposure in feet

Hydrogen Sulfide Concentration = Decimal equivalent of mole or volume fraction of hydrogen sulfide in the gaseous mixture

Q = Escape rate expressed in cubic feet per day (corrected for standard conditions of 14.73 psi absolute and 60 degrees Fahrenheit)

- For existing facilities or operations, the escape rate (Q) is the maximum daily rate of the gaseous mixture produced or handled or the best estimate thereof. For the Eunice Plant, after the installation of the AGI well, the Company is using for contingency planning purposes an "escape rate" equal to the anticipated (maximum) inlet gas volume of 5,000 MCFD. The (actual) inlet gas volume at the Plant will be somewhat variable and is continuously metered. The assumed 5,000 MCFD inlet gas volume has been selected as the "escape rate" because it is the highest anticipated inlet volume that the Plant would handle under its proposed operations and is considered worst case interpretation of the volume of gas. It should be noted that the plan will remain effective as long as the processed volume and H₂S content equate to the same ROE. As addressed below.
- As to hydrogen sulfide concentration of the inlet gas, daily monitoring data of current operations indicates variable concentrations, but concentration will not exceed 150,000 ppm or 15 mole percent. Therefore, 150,000 ppm or 15 mole percent has been used in the worst case scenario for the expanded operations with the AGI well for contingency planning purposes.

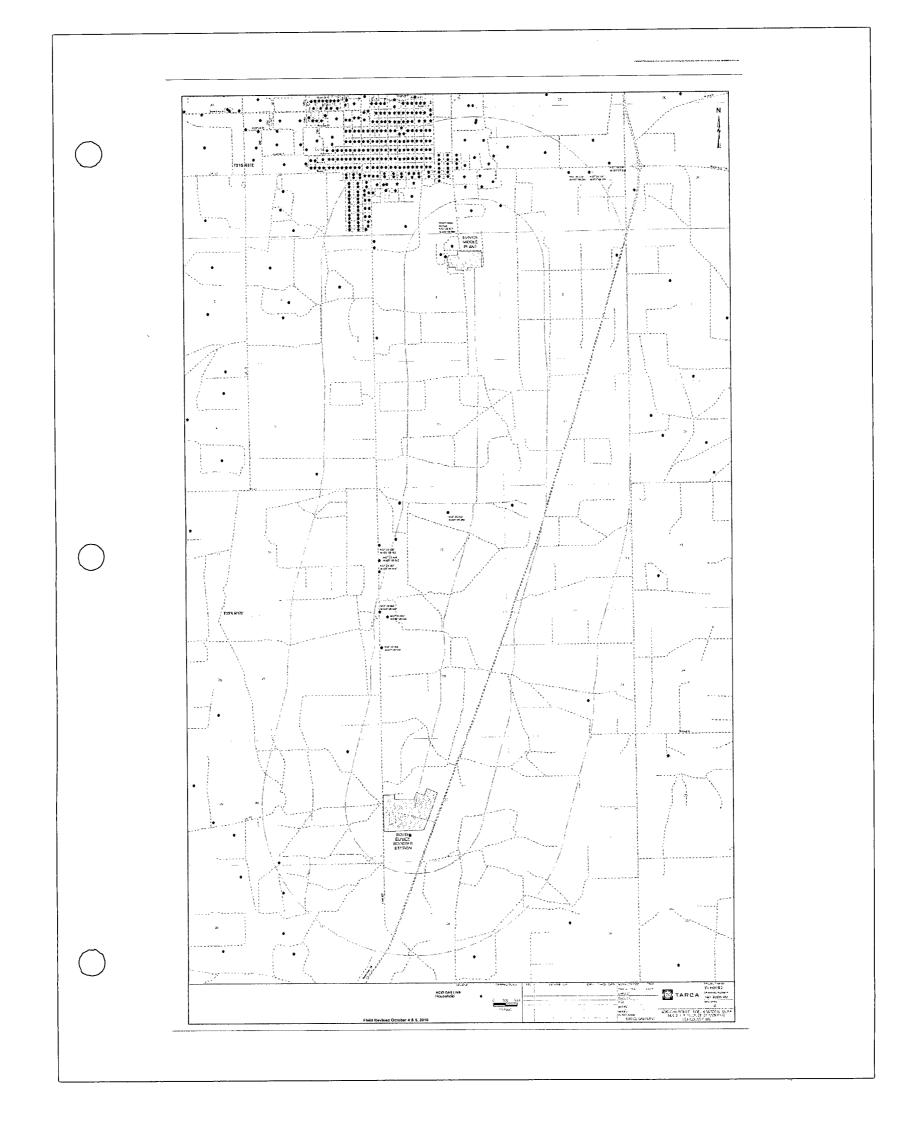
Using:

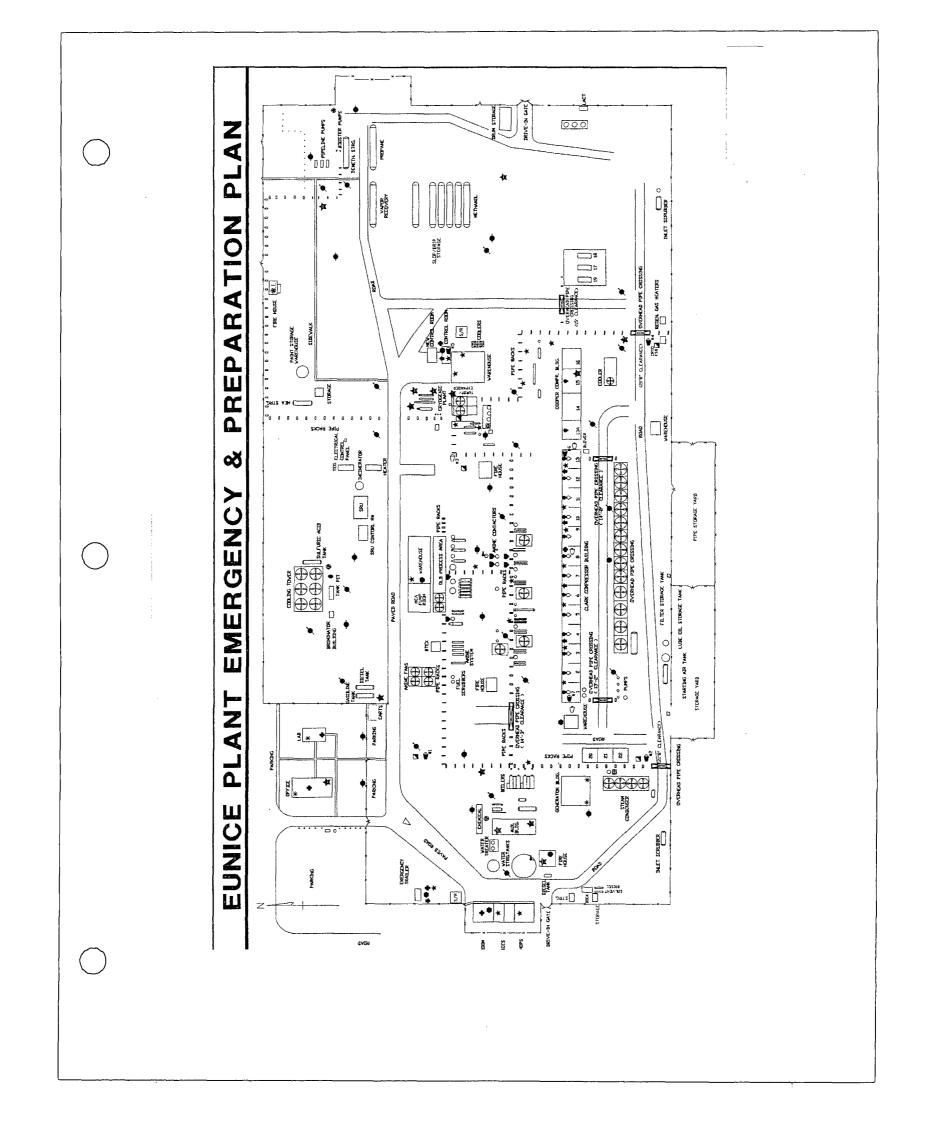
Q = 5,000,000

 H_2S conc = 150,000 ppm or 15 mole%

500-ppm ROE = 2900 feet

100-ppm ROE = 6346 feet





EMERGENCY EQUIPMENT LEGEND | Sentrown string | Preserve | Preserve | | Write Living Convention | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve | | Preserve EMERGENCY TELEPHONE NUMBERS Shart water Shart Worlds State (100 (100)) 575 384-2534 EXT. 222 \$75 \$31-0420 (CELL) 911 OR 394-2111 911 OR 394-2026 911 OR 394-2112 911 OR 992-5588 911 OR 394-2112 OPERATIONS SUPERVISOR FRANK BRANARD OFFICE ADMINISTRATION Jennifer Joines FIELD SUPERMISOR CHUCK TOUSMA

COMPANY PERSONNEL

Call the following persons in the order listed until one is notified of the emergency:

1. Area Management

Eunice Plant

Gary Maricle, Eunice Area Manager

Office

575-394-2534, ext. 226 Eunice, NM

Mobile

575-602-6005

Alternate:

Frank Brainard, Eunice Operations Supervisor

Office

575-394-2534, ext. 229

Home

none

Mobile

575-631-0420

Alternate:

Chuck Tolsma, Eunice Field Supervisor

Office

575-394-2516, ext. 327

Home

575-631-1846

Mobile 5

75-631-6026

Alternate:

Tim Jordan, Saunders Plant Area Manager

Office

575-396-3221 Lovington, NM

Home

575-396-0189 Lovington, NM

Mobile

575-631-7091

Alternate:

Todd Young, Area Manager

Office

575-393-2823 ext. 234

Home

432-523-3770 Andrews, TX

Mobile

575-441-1645

2. ES&H Group

Cal Wrangham, ES&H Manager

Office

432-688-0542 Midland, TX

Home

432-697-6580 Midland, TX

Mobile

432-425-7072

Emergency Notification List

Appendix E

Rebecca Woodell, ES&H Compliance Specialist

Office

575-394-2534, ext. 239 Eunice, NM

Home

575-394-2280

Mobile

575-631-7085

Cindy Klein, ES&H Compliance Specialist

Office

575-396-3221, ext. 38

Home

575-398-6670

Mobile

575-631-7093

3. Region Manager

Clark White, Permian Basin Region Manager

Office

713-584-1525 Houston, TX

4. Field Operators

Eunice Area

Doyle Mapp 575-631-7064 Roger Holland 575-631-7094 Robert McBee 575-631-7061

Call company support personnel in Houston, TX, as needed:

Assistant V-P ES&H

Jessica Keiser

713-584-1084

Cell Phone

713-263-4537

Corporate Security

Weldon Green

713-584-1301

Cell Phone

281-802-5351

LAW ENFORCEMENT AND EMERGENCY SERVICES

STATE POLICE

New Mexico 575-392-5588

LOCAL AGENCIES FOR LEA COUNTY

| Eunice – Police | 575-394-2112 |
|-----------------------|--------------|
| Eunice – Fire Dept. | 575-394-3258 |
| • | |
| Hobbs - Sheriff | 575-396-3611 |
| Hobbs – Police | 575-397-9265 |
| Hobbs – Fire Dept. | 575-397-9265 |
| Hobbs – Ambulance | 575-397-9265 |
| | |
| Lovington – Sheriff | 575-396-3611 |
| Lovington – Police | 575-396-2811 |
| Lovington – Fire Dept | 575-396-2359 |
| Lovington - Ambulance | 575-396-2811 |
| | |

STATE AGENCIES

| Oil Conservation Division, Santa Fe | 505-476-3440 |
|---|--------------|
| Oil Conservation Division – District Office, Hobbs | 575-393-6161 |
| Environmental Department – Air Quality Bureau, Santa Fe | 505-827-1494 |

FEDERAL AGENCY

U. S. EPA – Region VI Office, Dallas, TX

800-887-6063

| State and Local Agencies & Contractor |
|---------------------------------------|
|---------------------------------------|

Appendix F

CONTRACTOR SUPPORT

ELECTRIC SERVICE COMPANIES

Excel Energy - Customer Service 800-895-4999 24 hour Kay and Company 806-592-3513

WATER SERVICE AND VACUUM TRUCKS

Chaparrel Services – Eunice, NM 575-394-2545 24 hour Danny's Hot Oil 575-398-3490 Gandy Corporation – Lovington, NM 575-396-4948 24 hour Key Energy Services – Hobbs , NM 575-397-4994 24 hour

ROUSTABOUT CREWS

Flint Energy Services – Odessa, TX 432-332-0687 24 hour Gandy Corporation – Lovington, NM 575-396-4948 24 hour B & H Construction - Eunice, NM 575-934-2588 24 hour

DIRT WORK EQUIPMENT

B & H Construction – Eunice, NM 575-394-2588 24 hour EDW Construction – Hobbs, NM 575-391-7814 24 hour EKB Welding – Monument, NM 575-361-7078 24 hour Ferguson Construction – Lovington 575-396-3689 24 hour Gandy Corporation – Lovington, NM 575-396-4948 24 hour

WELDERS

EKB Welding – Monument, NM 575-361-7078 24 hour Flint Energy Services – Odessa, TX 432-332-0687 24 hour B & H Construction – Eunice, NM 575-394-2588 24 hour

SAFETY EQUIPMENT

Total Safety Equip. – Hobbs, NM 575-392-2973 24 hour