


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Aneth C-223X						
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT GREATER ANETH						
4. TYPE OF WELL Water Injection Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME ANETH						
6. NAME OF OPERATOR RESOLUTE NATURAL RESOURCES						7. OPERATOR PHONE 303 534-4600						
8. ADDRESS OF OPERATOR 1675 Boradway Ste 1950, Denver, CO, 80202						9. OPERATOR E-MAIL pflynn@resoluteenergy.com						
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTSL 071010			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>						
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')						
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')						
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>						
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN
LOCATION AT SURFACE		1621 FNL 1915 FEL		SWNE		23		40.0 S		23.0 E		S
Top of Uppermost Producing Zone		1621 FNL 1915 FEL		SWNE		23		40.0 S		23.0 E		S
At Total Depth		1621 FNL 1915 FEL		SWNE		23		40.0 S		23.0 E		S
21. COUNTY SAN JUAN			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1621			23. NUMBER OF ACRES IN DRILLING UNIT 640						
27. ELEVATION - GROUND LEVEL 4663			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1750			26. PROPOSED DEPTH MD: 5779 TVD: 5779						
28. BOND NUMBER UTB000169			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 09-1428									
Hole, Casing, and Cement Information												
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight	
Cond	24	16	0 - 0	65.0	C-75 Casing/Tubing	9.4	Unknown		134	1.25	26.0	
Surf	14.75	10.75	0 - 1650	40.5	J-55 ST&C	9.4	Premium Lite High Strength		464	1.88	12.5	
							Premium Plus		133	1.16	15.8	
Open	6.125	0	0 - 5779	0.0	No Pipe Used	0.0	No Used		0	0.0	0.0	
Prod	9.875	7	0 - 5779	26.0	J-55 LT&C	9.4	50/50 Poz		490	1.9	12.4	
							Type V		72	1.31	13.5	
							50/50 Poz		660	1.88	12.5	
							Type V		133	1.15	15.8	
ATTACHMENTS												
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES												
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Sara Bohl			TITLE Regulatory Analyst			PHONE 303 534-4600						
SIGNATURE			DATE 10/16/2012			EMAIL sbohl@ResoluteEnergy.com						
API NUMBER ASSIGNED 43037500370000			APPROVAL			 Permit Manager						

Geology - Anticipated Geologic Markers

Resolute Geologic Program				
Date	11-Jun-12			
AFE #	After AFE			
Prospect				
Project/Area	Aneth Unit			
Operator	Resolute			
Well Name	C-223X			
County/State	San Juan			UT
GL / KB	GL	4,679.0	KB	4,699.0
Spot/Sect/Twnshp/Rng	SW/NE / 1915' FEL & 1621' FNL	23	40S	23E
RNRC working interest	After AFE			
Vert/deviated/horiz?	Vertical - redrill injector			
Projection	Utah South (NAD 27)			
Surface XY Location	X	after survey	Y	after survey
Latitude / Longitude	Lat	37.2973800	Long	-109.355960
Proposed Total Depth	TVD	5,779.0	Subsea	-1,080.0
Geologic Tops (MD, TVD, SS)	Name	(sub-KB)	Subsea TVD	Objective?
	Navajo	767	3,932	
	Chinle	1,625	3,074	
	Organ Rock	2,871	1,828	
	Hermosa	4,711	-12	
	Ismay	5,465	-766	
	Gothic Shale	5,615	-916	
	Desert Creek I	5,636	-937	Primary
	Desert Creek II	5,673	-974	Primary
	Desert Creek III	5,749	-1,050	
Chimney Rock	5,769	-1,070		
Key Offset Correlation Logs	Well Name	Location	API #	Horizon: Depth
	A-414	SWSW Sec. 14	43-037-16031	DC-I: 5686
	D-414	SESE Sec. 14	43-037-30639	CHNL: 1596 NVJO: 738
Contact Information				
RNRC Geologist	Jason Burris		Office	303-573-4886 x1335
	Home	303-274-0746	Cell	303-763-0998
	Alternate: Sean Smith		Office	303-573-4886 x1215
			Cell	303-902-3772

Project Overview

The target formation for the proposed Aneth Unit C-223X is the Desert Creek formation. The purpose for the proposed well is to complete a producing oil well in the Greater Aneth Area. A vertical well will be drilled to TD (5779') in the Desert Creek formation and a full suite of logs will be run. Anticipated start date of project is September 2012 ending October 2012. Anticipated duration of project from spud to completion is 48 days.

Well Location

Surface Location: SW NE/ 1915' FEL & 1621' FNL
 SEC 23, T40S, R23E
 Lat 37.29738 Long -109.35596

Surface Elevation: 466.38' GL

Proposed Depth: 5779'

Target Formation & Anticipated Water, Oil, Gas and Mineral Resources

The target formation for the Aneth Unit C-223X is the Desert Creek formation.

The principal underground sources of drinking water USDW in the Greater Aneth area include the Entrada Sandstone, Navajo Sandstone, and Wingate Sandstone, which collectively comprise the Navajo aquifer. The projected top of the Navajo in the proposed well is at a depth of 767 feet. The overlying Morrison aquifer and isolated Dakota and Alluvial aquifers may also be present. The top of the Chinle formation separates the fresh water aquifers above from non-usable saline ground water aquifers below and is generally accepted as the base of fresh water in the Greater Aneth area. The top of the Chinle formation is projected at a depth of 1,625 feet below ground level in the proposed well.

Intermediate casing in the proposed well will be set and cemented from surface through the top of the Chinle to protect the USDW above.

Potential oil, gas and mineral resources to be encountered include the Ismay and Desert Creek zones of the Paradox formation, which are the primary hydrocarbon reservoirs in the southern Paradox Basin.

Production casing in the proposed well will be cemented from TD to surface in 2 stages.

Anticipated Reservoir Pressures and Temperatures

The Ismay and Desert Creek zones are expected to be normally pressured as a result of the ongoing waterflood in the Aneth Unit. Current pressures are 3,000 to 3,200 psi at 5,500 to 5,700 feet. Offset injection wells will be shut-in as soon as the well is spud to allow pressure within the reservoir to dissipate. It is anticipated that Production casing

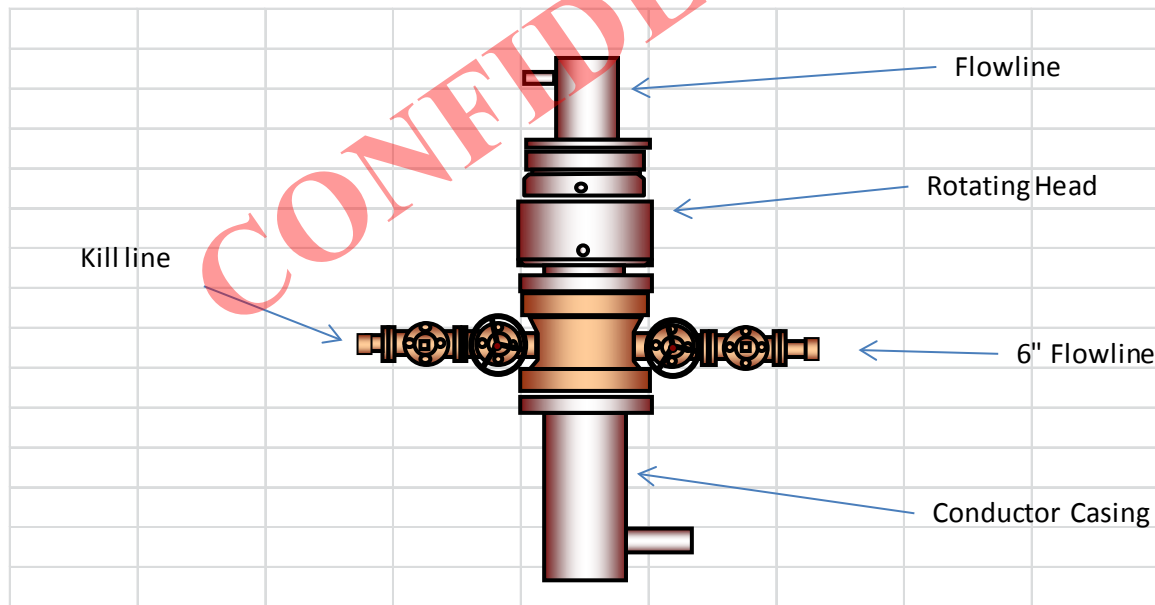
will be sent in the upper Ismay formation and that all the lower Ismay and Dessert Creek members will be drilled open hole using a nitrogen underbalanced system.

BOPE Specifications

Well Pressure Control Equipment and Procedures:

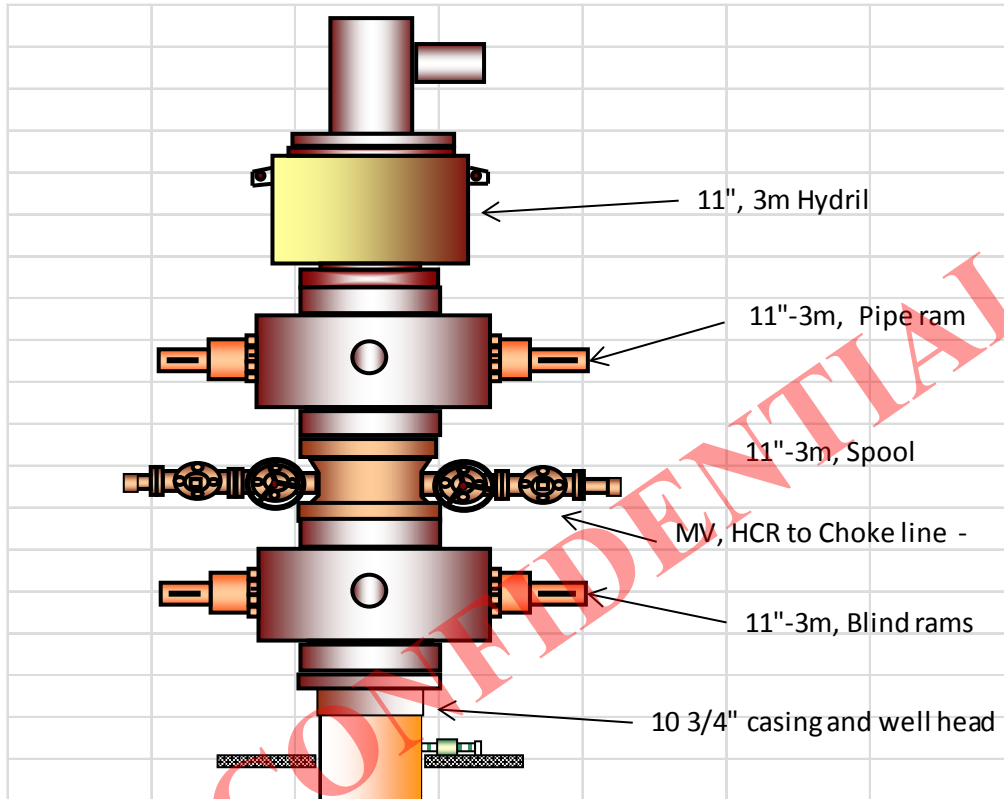
Blowout preventer equipment (BOPE) as discussed below will be installed and tested prior to drilling of the surface casing shoe and for each subsequent phase of drilling operations. Accumulators will be tested for pre-charge pressure and for holding pressure on the manifold prior to connection to the stack. Annular BOPs will be tested on nipple up and every 7 days thereafter, first to 200 psi, to simulate field well control situations, and then to the rated working pressure. Each test will be held for 15 minutes. The choke manifold will be operated and circulated through for kill rate pressures with each change of bottom hole assembly (BHA), but at least daily, using 2 slow pump rates, one at idle and one 10 strokes above that. All BOPE testing will be recorded and a copy of the pressure charts maintained with the tour sheet or drilling log.

Conductor Pipe Diverter System



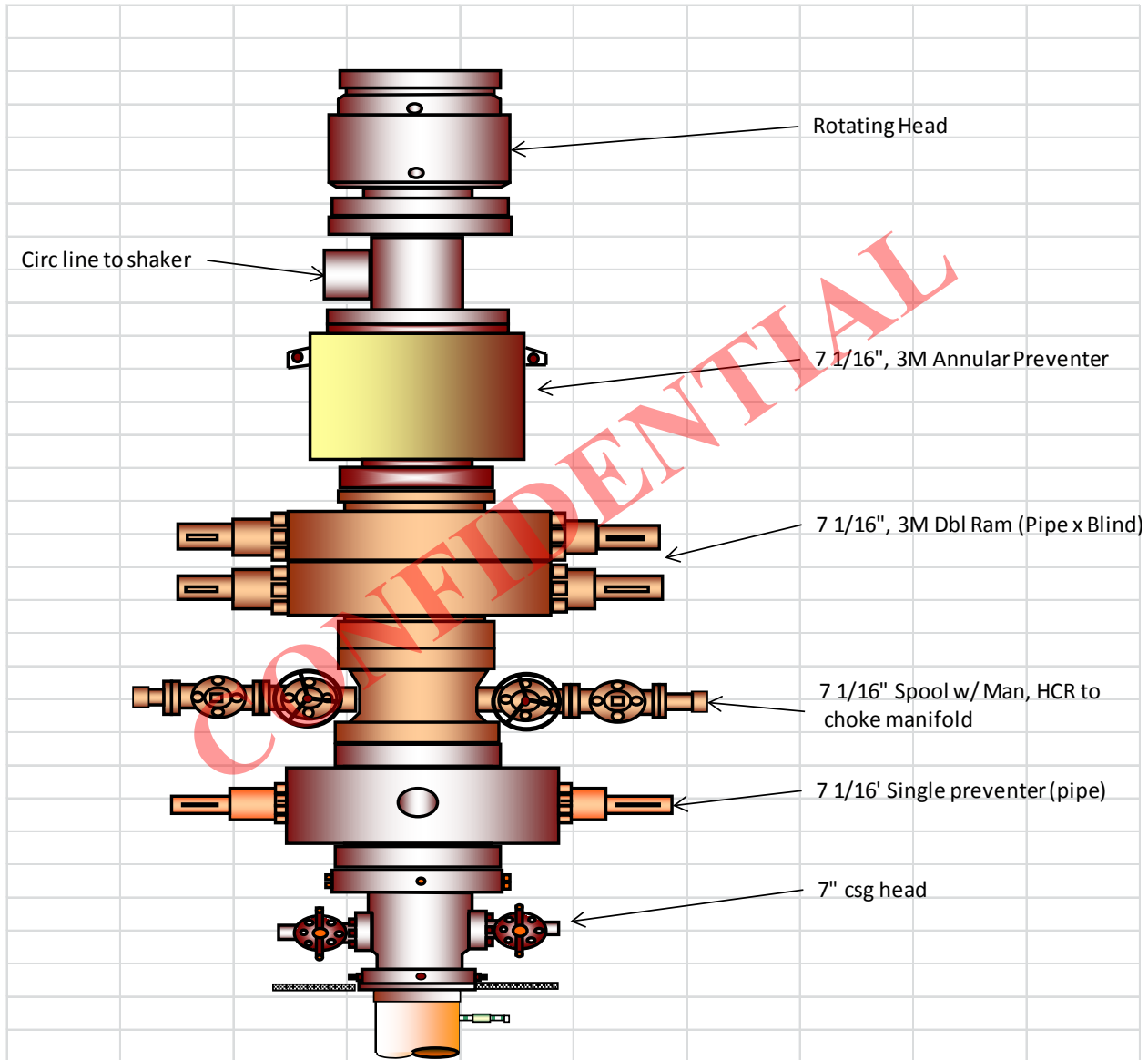
A diverter system as illustrated above will be installed to control well flows encountered at relatively shallow depths from ± 90 to $\pm 1,675'$ feet. The diverter system includes a conductor pipe, 350 psi working pressure rotating head with 6 inch full opening hydraulic valve and 6" minimum diameter divert line. The divert line valve is kept open so that flow can not be impeded to tanks and emergency pit. All diverter lines will be securely staked and will be straight lines or will use tee blocks or are targeted with running tees. All diverter line valves and other components will be 150 psi minimum working pressure.

Surface Casing BOPE System



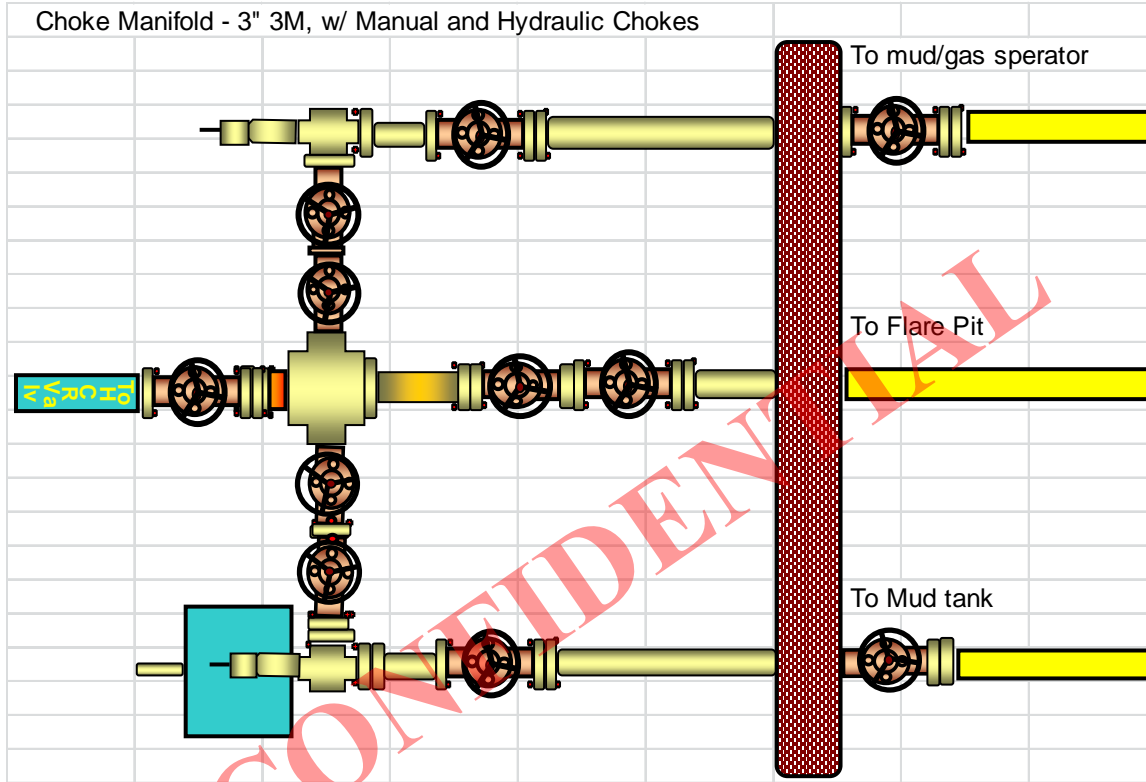
RSRA System w/HCR Valve and Choke Manifold

A RSRA system with HCR valve and rotating head as illustrated above will be installed to control well flows encountered during drilling from 1,675' feet to 7" casing setting depth, (5,535 +/-). Full-opening, flanged valves will be used on all outlets, flowlines and the choke manifold. Kill and choke lines will be constructed as straight lines or will use tee blocks or running tees. Kill and choke lines will have minimum diameters of 2 and 3 inches respectively

Production Casing BOPE System**RSRRA System w/Rotating Head, HCR Valve and Choke Manifold**

A RSRRA system with HCR valve and rotating head as illustrated above will be installed to control well flows encountered during drilling from 5,535' to 5,779' or TD. Full-opening, flanged valves will be used on all outlets, flowlines and the choke manifold. Kill and choke lines will be constructed as straight lines or will use tee blocks or running tees. Kill and choke lines will have minimum diameters of 2 and 3 inches respectively

Choke Manifold



Casing Program & Cement Program

Conductor Casing / Cementing								
Condcutor	Hole Size	Depth	Mud Wt	Hyd Press	Cement Wt	Cmt Hyd Press	Delta Press	
	24	90	8.30	38.84	26.00	121.68	82.84	
	Casing Siz	Grade	Cplg	Wt/ft	Collapse	Internal Yield	Joint Strength	Pipe Yield
	16.00	C-75	PE	65.00	740	1730	322,000	541,000
SF= Collapse 1.125, Internal Press 1.00, joint Stength 1.80, Pipe Yield 1.25								
Cement	Lead	Type	Wt	Yield	Vol-Cu Yds	Additives		
		Redi-mix	26	Grout	5.82			
	Tail							
Stg Tool								
	Lead					Additives		
	Tail							
Shoe Cntrlzrs	Notched collar							
	None							
Other								

Surface Surface Casing and Cement								
Surface	Hole Size	Depth	Mud Wt	Mud Hyd Press	Cement Wt	Cmt Hyd Press	Delta Press	
	14.750	1675.00	9.00	783.90	12.4/15.8	1120.37	336.47	
	Casing Size	Grade	Cplg	Wt/ft	Collapse	Internal Yield	Joint Strength	Pipe Yield
	10.750	J-55	STC Rd	40.50	1580	3130	420,000	629,000
SF= Collapse 1.125, Internal Press 1.00, joint Stength 1.80, Pipe Yield 1.25								
Cement	Lead	Type	Wt	Yield	Vol-bbl	Vol-Sks	Additives	
		Prm Light	12.50	1.88	155.32	463.88	5 lbm/sk Kol-Seal, 2% CaCl, .125 lbm/sk Poly-E-Flake	
	Tail	Premium	15.80	1.16	27.38	132.54	.125 lbm/sk Poly-E-Flake	
Stg Tool	Stage Tool: none							
	Lead							
	Tail							
Shoe Cntrlzrs	HES Trophy, Auto fill							
	API 10 3/4, (12): 3 on bottom jt, 1 every 4th joint to surface							
Other								

Production Casing and Cement								
Prod	Hole Size	Depth	Mud Wt	Hyd Press	Cement Wt	Cmt Hyd Press	Delta Press	
	9.875	5535	10.00	2878.20	12.4/15.8	3621.57	743.37	
	Casing Siz	Grade	Cplg	Wt/ft	Collapse	Internal Yield	Joint Strength	Pipe Yield
	7.000	J-55	LTC Rd	26.00	4320	4980	367,000	415,000
SF= Collapse 1.125, Internal Press 1.00, joint Stength 1.80, Pipe Yield 1.25								
		Type	Wt	Yield	Vol-bbl	Vol -Sks	Additives	
Cement	Lead	50/50 poz	12.40	1.90	165.65	489.52	5 lbm/sk Gilsonite, .125 lbm/sk Poly-E-flake, .4% Halad® 9	
	Tail	Type V	13.50	1.31	16.62	71.24	.125 lbm/sk Poly-E-Flake, .3% Halad R 9	
Stg Tool	HES Type P ES Stage Cementing Tool Set @ 2,500' (+,-)							
	Lead	50/50 Poz	12.50	1.88	220.86	659.63	5 lbm/sk Gilsonite, .125 lbm/sk Poly-E-flake	
	Tail	Type V	15.80	1.15	27.30	133.28	.125 lbm/sk Poly-E-Flake, .3% Halad R9	
Shoe	HES float shoe & HES float collar,							
Cntrlzrs	API 7", (46): 2 on bottom jt, 1 every 4th joint to stage tool, one either side of stage tool, then 1 every 4th jt to surface							
Other								

Mud Program & Under Balanced or Air/Gas Drilling

Drilling fluids as specified below will be used to maintain well control during drilling. Sufficient quantities of drilling fluids will be kept onsite and tests to determine density, viscosity, gel strength, filtration, and pH will be performed daily. Kill Weight Brine(10 ppg) will be on hand in volume to kill well if necessary.

- 1) Conductor and Surface Casing
 Depth: 90' to $\pm 1,675'$
 Bit Size: 20" – 14 $\frac{3}{4}$ "
 Mud Type: FW/Spud mud
 Hole Volume: 280 bbls
 Pit Volume: 500 bbls

	Minimum	Maximum	Units
Mud Weight	8.3	9.4	#/gal
Drill Solids	4	6	Percent
pH	9	9.5	
Funnel Viscosity	26	40	sec/qt
Fluid Loss	NC	NC	cc/30 min

- 2) Vertical Well Bore
 Depth: $\pm 1,675'$ to $\pm 5,535'$ picked by Mud logger.
 Bit Size: 9 $\frac{7}{8}$ "
 Mud Type: FW/gel/PHPA/LSND
 Hole Volume: 300 bbls
 Pit Volume: 500 bbls

Mud Properties	Minimum	Maximum	Units
Mud Weight	9.7	10.2	#/gal
Drill Solids	4	6	Percent
pH	9	10	
Plastic Viscosity	4	10	
Yield Point	6	12	
Funnel Viscosity	35	40	sec/qt
Fluid Loss	12	15	cc/30 min

- 3) Open Hole Well Bore
 Depth: $\pm 5,535'$ to $\pm 5,779'$ TD
 Bit Size: 6 $\frac{1}{8}$ " with Underreamer 12" OD
 Mud Type: N2
 Hole Volume: bbls
 Pit Volume: bbls

Mud Properties	Minimum	Maximum	Units
Mud Weight	8.8 – Formation KW	10.2	#/gal
Drill Solids	na	na	
pH	na	na	
Plastic Viscosity	na	na	
Yield Point	na	na	
Funnel Viscosity	Na	Na	
Fluid Loss	na	na	

Weatherford International will supply Nitrogen for the Underbalanced portion of open hole from 5,535' to 5,779'. The package consist of 2 Ariel compressors with 1350SCFM capacity and one N2 membrane Unit with 1500 SCFM capacity. These units will rig up directly in front of the Dog House on the Location Layout diagram

Logging, Testing, Coring Program

Logging of the vertical well bore will include Induction or Laterlog, Density/Neutron, Sonic (possible Dipole). No other logs or test are anticipated.

Anticipated Drilling Hazards

In addition to the general hazards listed in the table below: Hydrogen sulfide (H₂S) in excess of 100 ppm is anticipated in the Desert Creek zone. Potential for exposure to H₂S near areas of fluid breakout (i.e. flowline, shaker, floor connections, etc.) will be minimized by having an overbalanced mud system. An H₂S Drilling Operations Plan has been developed and is attached to this drilling plan.

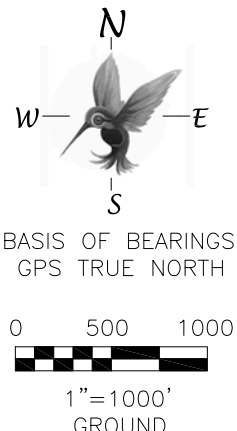
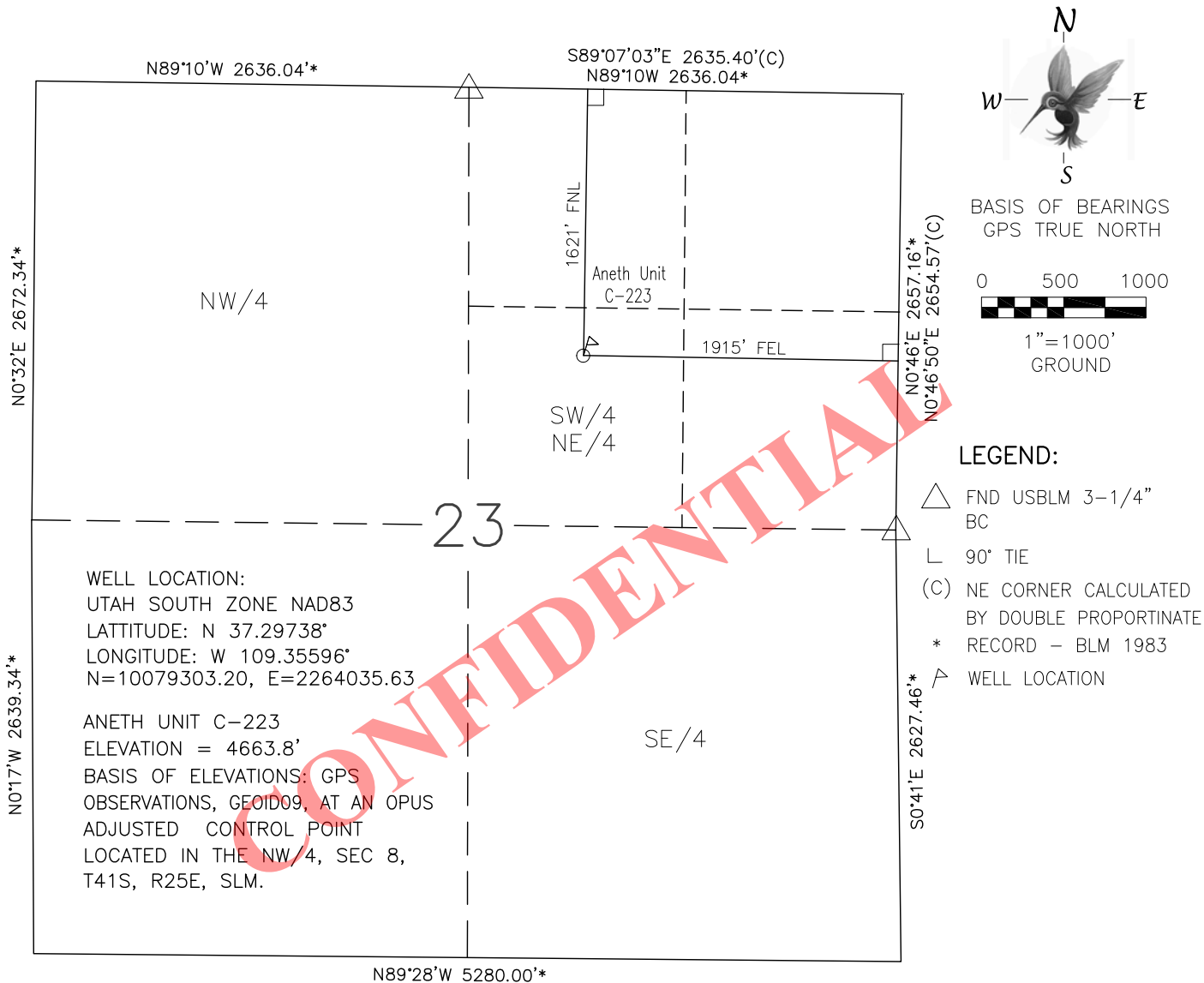
Potential Hazards	Preventive/Corrective Measures
Water flow between ±780' and ±1,625'	Have conductor set, increase mud weight and use diverter to divert flow from around substructure to pit
Pressure kick when drilling into the Ismay formation.	Maintain mud weight to avoid kick around. 10.6 #/gal minimum
Corrosion from H ₂ S in Ismay	A thin coating amine will be run as a corrosion inhibitor to protect downhole equipment
Possible differential sticking from nearby production from Desert Creek	If sticking occurs, consider using spotting acid to break free
Low fracture gradient	Use two stage cement job on long string

Drilling Tools

Conventional rotary drilling tools will be used to drill the proposed well. This will included Tri-Cone roller bits as well as PDCs in conjunction with nominal sized Drill collars appropriate to hole size and weight on bit needs. Conventional Drill Pipe will be used for all drilling operations appropriate to hole size.

Drilling Tools by Interval				
0-90'				
Tool	Size	Length-Ft	Weight-lbs	Description
Bit	20"	2	560	Mill tooth Tri-Cone bit
Drill Collars	8"	90	14400	Smooth Drill Collars 160#/ft
90' to 1675'				
Bit	14 3/4"	1.5	225	Mill tooth Tri-Cone bit
Drill Collars	8"	180	28800	Smooth Drill Collars 160#/ft
Drill Collars	6 1/2"	300	30600	Smooth Drill Collars 102#/ft
1675' to 5535'				
Bit	9 7/8"	1	80	Tri-Cone TCI bits and PDC
Drill Collars	6 1/2"	540	55080	Smooth Drill Collars 102#/ft
5535' to 5779'				
Bit	6 1/8"	1	22	Tri-Copne TCI bit
Hole Opener	43/4"x12"	4.5	75	Hole opener(underreamer) 16#/ft
Drill Collars	4 3/4"	240	6480	Smooth Drill Collars 24#/ft

Well Location - Aneth Unit C-223X



- LEGEND:**
- △ FND USBLM 3-1/4" BC
 - L 90° TIE
 - (C) NE CORNER CALCULATED BY DOUBLE PROPORTINATE
 - * RECORD - BLM 1983
 - ▲ WELL LOCATION

WELL LOCATION:
 UTAH SOUTH ZONE NAD83
 LATITUDE: N 37.29738°
 LONGITUDE: W 109.35596°
 N=10079303.20, E=2264035.63

ANETH UNIT C-223
 ELEVATION = 4663.8'
 BASIS OF ELEVATIONS: GPS
 OBSERVATIONS, GEOID09, AT AN OPUS
 ADJUSTED CONTROL POINT
 LOCATED IN THE NW/4, SEC 8,
 T41S, R25E, SLM.

CONFIDENTIAL

I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the well location as shown hereon and that the same is correct and true to the best of my knowledge and belief.

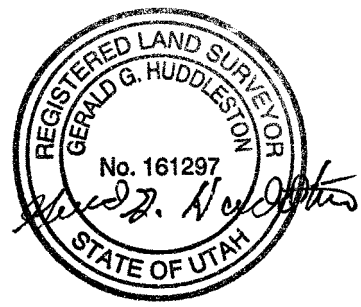


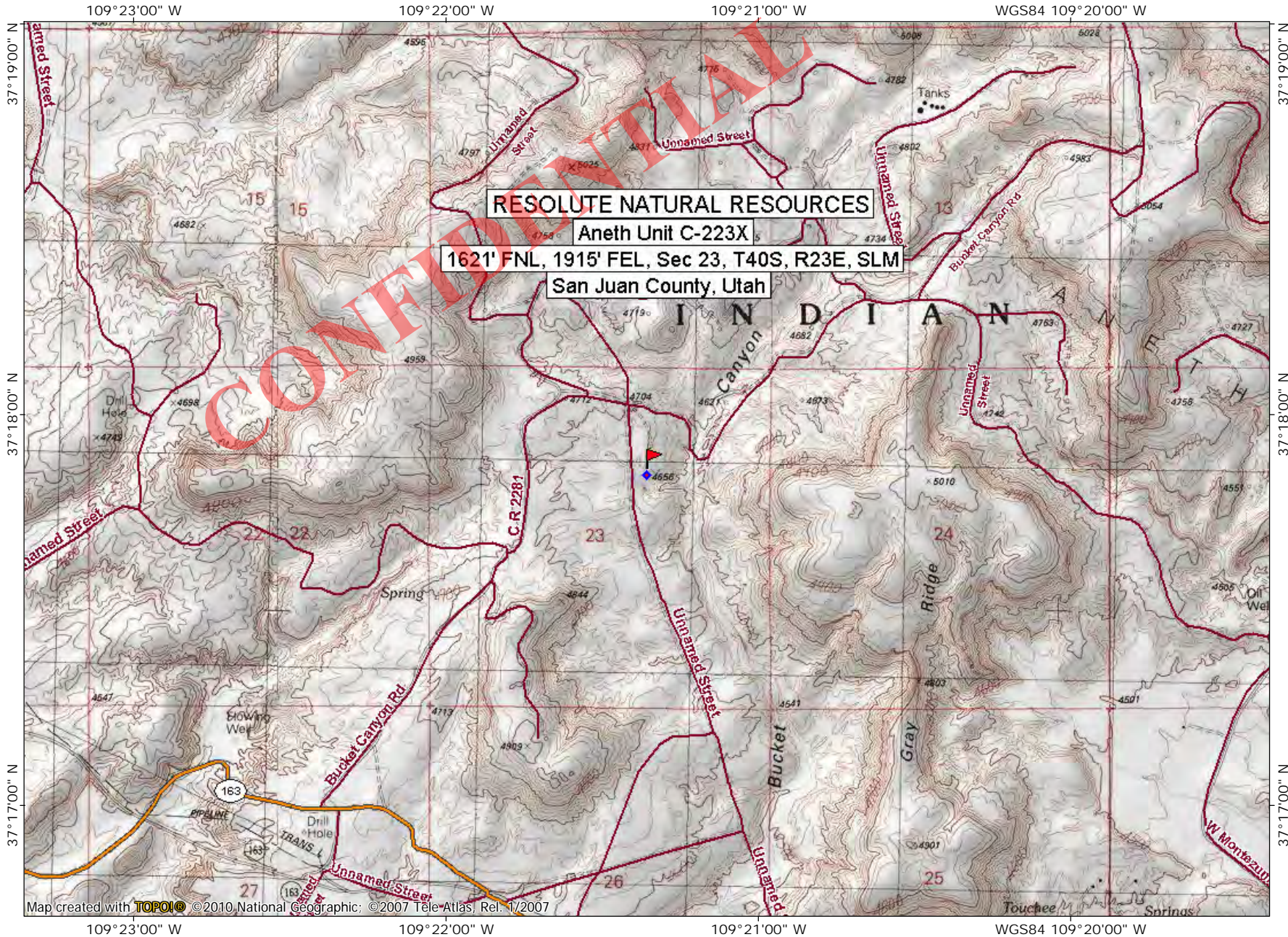
EXHIBIT A

FOOTAGE: 1621' FNL 1915' FEL	RESOLUTE NATURAL RESOURCES		
SEC 23, T40S, R23E, SLM, SAN JUAN COUNTY, UT	SURVEYED: 06/14/12		
LAT: N 37.29738° LON: W 109.35596°	DRAWN BY: GEL	DATE: 06/19/12	
ELEVATION: 4663.8' at ground level (NAVD88)	NOTE:		

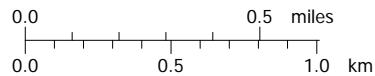
HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

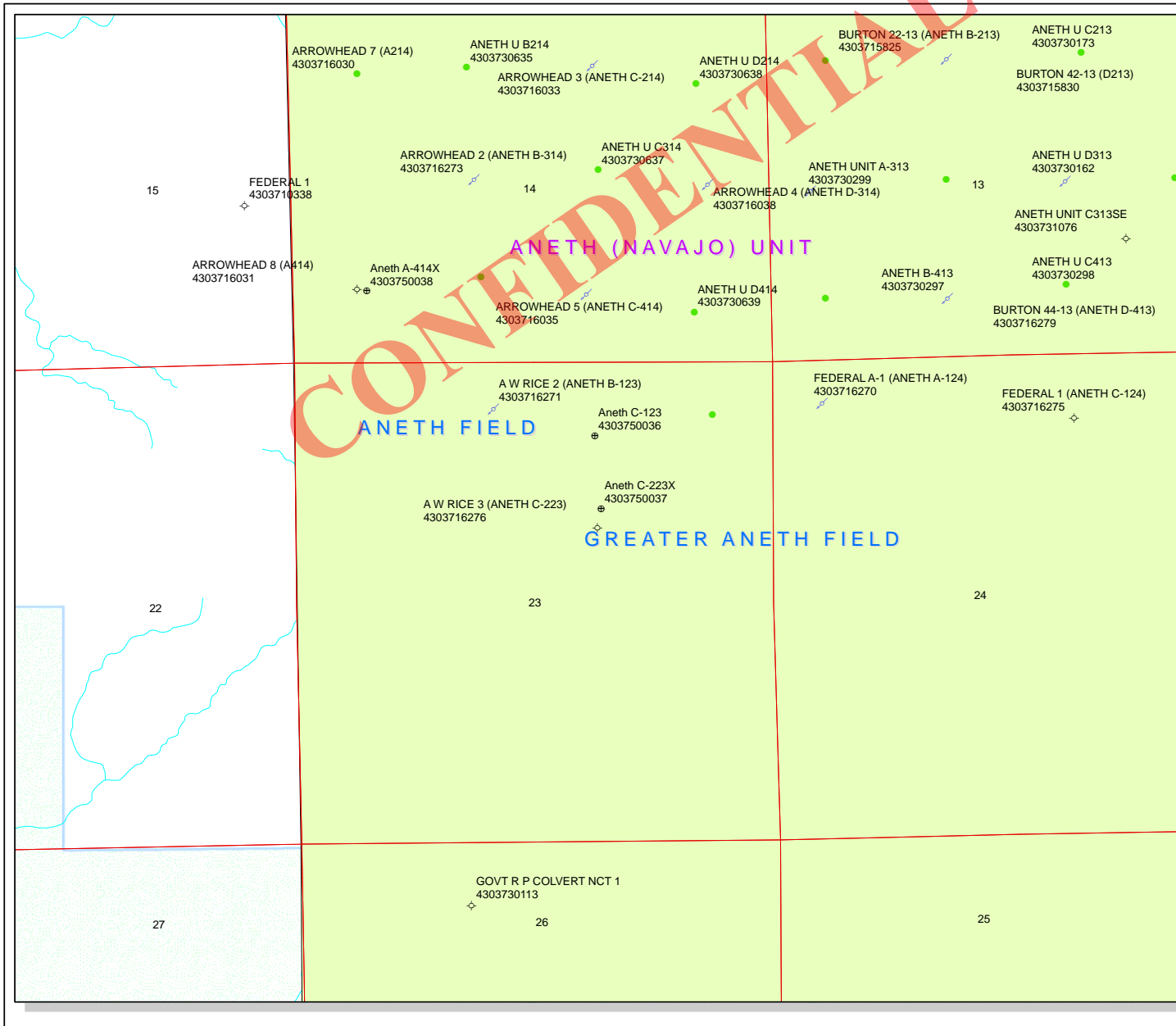
RECEIVED: October 16, 2012

37°17'52" N, 109°21'21" W WGS84TOPO! map printed on 06/21/12 from "AU C-223X.tpo"



Map created with TOPO! © 2010, National Geographic: © 2007 Tele Atlas, Rel. 1/2007

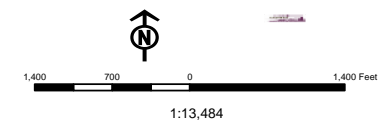
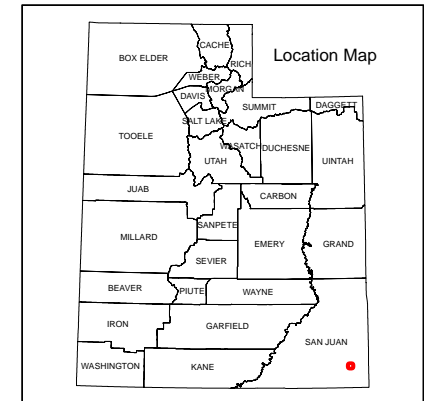




API Number: 4303750037
Well Name: Aneth C-223X
Township T40.0S Range R23.0E Section 23
Meridian: SLBM
 Operator: RESOLUTE NATURAL RESOURCES

Map Prepared:
 Map Produced by Diana Mason

- | | |
|----------------------|------------------------------------|
| Units STATUS | Wells Query Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LOC - New Location |
| P1 OIL | OPS - Operation Suspended |
| PP GAS | PA - Plugged Abandoned |
| PP GEOTHERMAL | PGW - Producing Gas Well |
| PP OIL | POW - Producing Oil Well |
| SECONDARY | SGW - Shut-in Gas Well |
| TERMINATED | SOW - Shut-in Oil Well |
| Fields STATUS | TA - Temp. Abandoned |
| ABANDONED | TW - Test Well |
| ACTIVE | WDW - Water Disposal |
| COMBINED | WW - Water Injection Well |
| INACTIVE | WSW - Water Supply Well |
| STORAGE | Bottom Hole Location - Oil/Gas/Dls |
| TERMINATED | |



Resolute

October 18, 2012

Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Mr. Brad Hill, Oil & Gas Permitting Manager
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84116

RE: Application for Permit to Drill the Aneth Unit C-223X

Mr. Hill:

Pursuant to R649.3.3, Resolute Natural Resources respectfully requests that the Division grant an exception to the location and siting requirements of R649-3-2 for the proposed Aneth Unit C-223X well.

The proposed location of the Aneth Unit C-223X was chosen in order to minimize surface disturbing activities. The existing access and pad for the plugged and abandoned Aneth C-223 well (API#43-037-16276) will be used for this new well, thus minimizing the amount of cut and fill work and future reclamation work required for the proposed operations in an area with varied topography.

This location also provides for more room between the well and the five hundred foot setback from our Aneth Unit boundary implemented by Cause 152-1.


The only additional lease owner within four hundred and sixty feet of the proposed location for the Aneth Unit C-223X well is the Navajo Nation Oil and Gas Company. Below please find the signature of a representative for the Navajo Nation Oil and Gas Company acknowledging their consent to the proposed well location.

Regards,



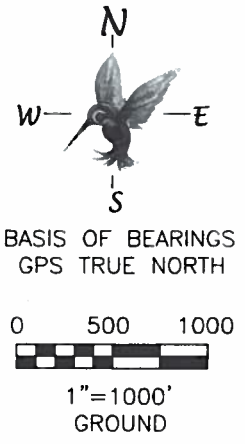
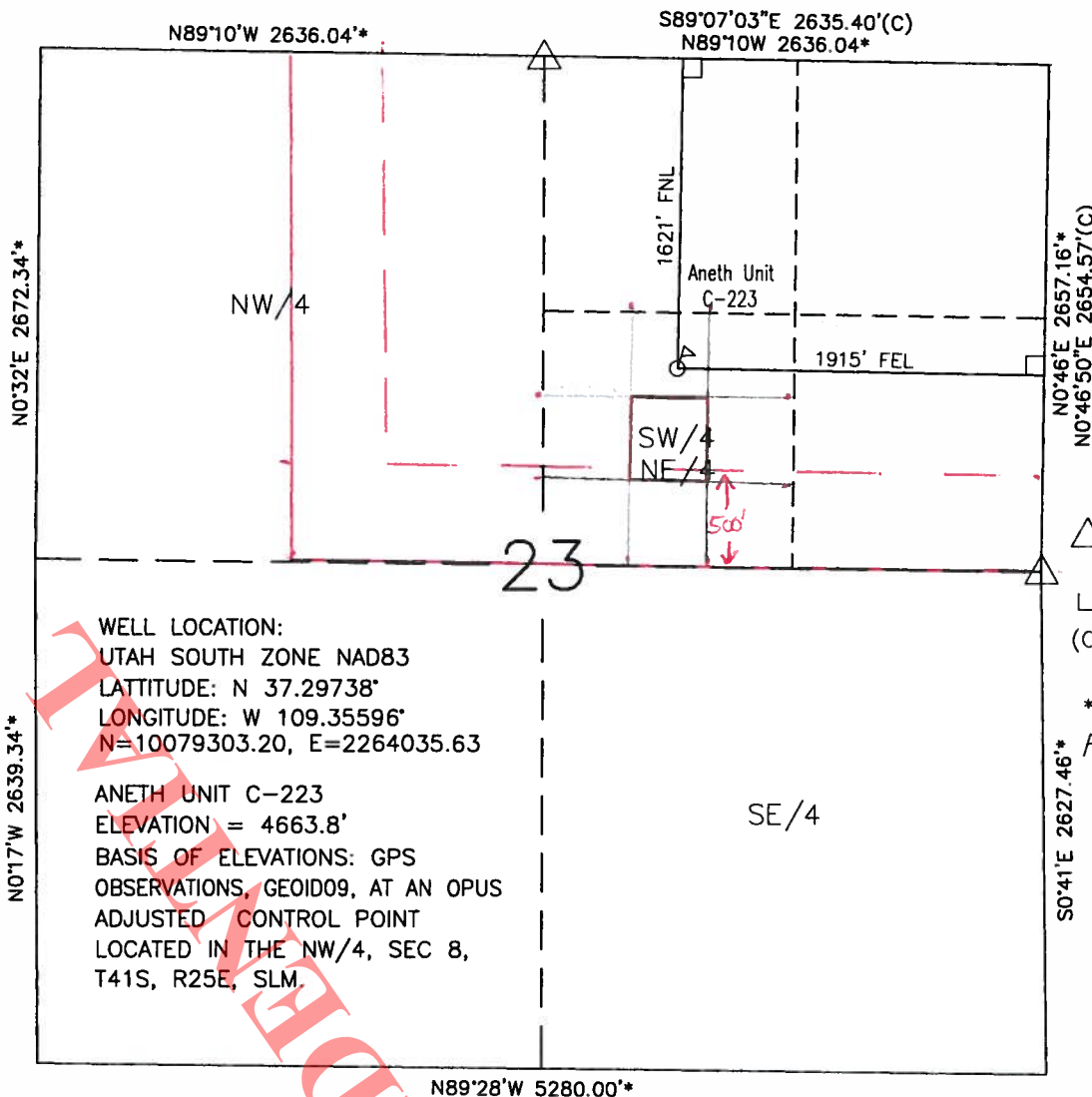
J. Scott Lewis
Landman

NAVAJO NATION OIL AND GAS COMPANY



By: Lauren Germinario
Title: Land Manager

Well Location - Aneth Unit C-223X



- LEGEND:**
- △ FND USBLM 3-1/4" BC
 - L 90° TIE
 - (C) NE CORNER CALCULATED BY DOUBLE PROPORTINATE
 - * RECORD - BLM 1983
 - ▲ WELL LOCATION

WELL LOCATION:
 UTAH SOUTH ZONE NAD83
 LATITUDE: N 37.29738°
 LONGITUDE: W 109.35596°
 N=10079303.20, E=2264035.63

ANETH UNIT C-223
 ELEVATION = 4663.8'
 BASIS OF ELEVATIONS: GPS OBSERVATIONS, GEOID09, AT AN OPUS ADJUSTED CONTROL POINT LOCATED IN THE NW/4, SEC 8, T41S, R25E, SLM.

Handwritten notes:
 400' = ? 40"
 if
 500' = 1/2"
 8 units

I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the owner I have surveyed the well location as shown hereon and that the same is correct and true to the best of my knowledge and belief.

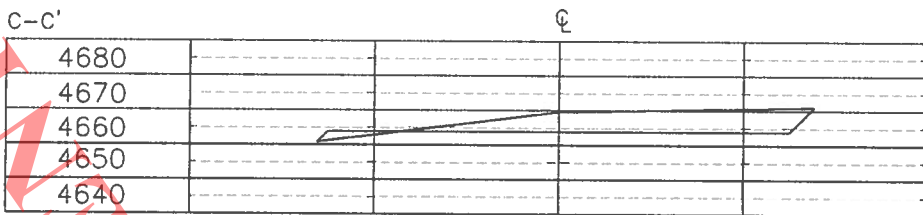
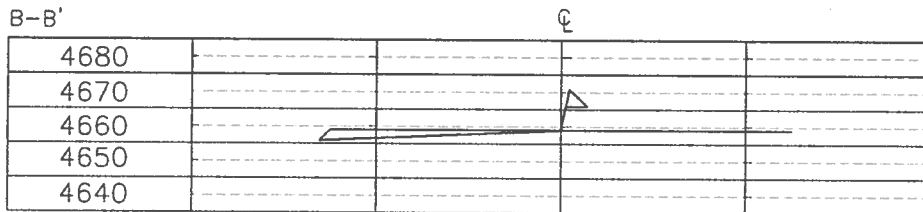
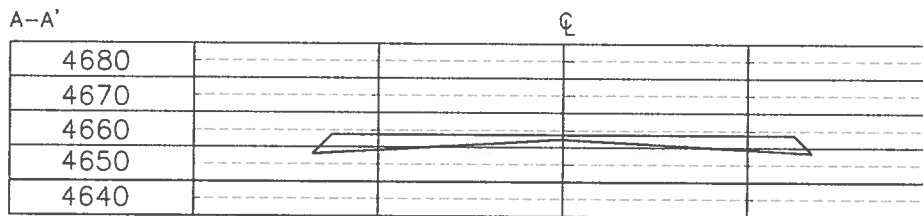


EXHIBIT A

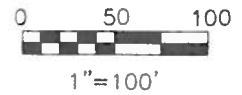
FOOTAGE: 1621' FNL 1915' FEL		RESOLUTE NATURAL RESOURCES	
SEC 23, T40S, R23E, SLM, SAN JUAN COUNTY, UT			
LAT: N 37.29738° LON: W 109.35596°		SURVEYED: 06/14/12	
ELEVATION: 4663.8' at ground level (NAVD88)		DRAWN BY: GEL	DATE: 06/19/12
		NOTE:	

API Well Number: 43037500370000

Cross Section - Aneth Unit C-223X



HORIZONTAL 1"=100'
VERTICAL 1"=50'



LEASE: Aneth Unit C-223X
EXHIBIT C

RESOLUTE
NATURAL RESOURCES

FOOTAGE: 1621' FNL 1915' FEL
SEC 23, T40S, R23E, SLM, SAN JUAN COUNTY, UT

LAT: N 37.29738' LON: W 109.35596'

SURVEYED: 06/14/12

DRAWN BY: GEL DATE: 06/19/12 FILE:

ELEVATION: 4663.8' at ground level (NAVD88)

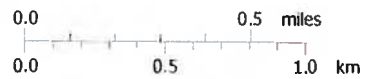
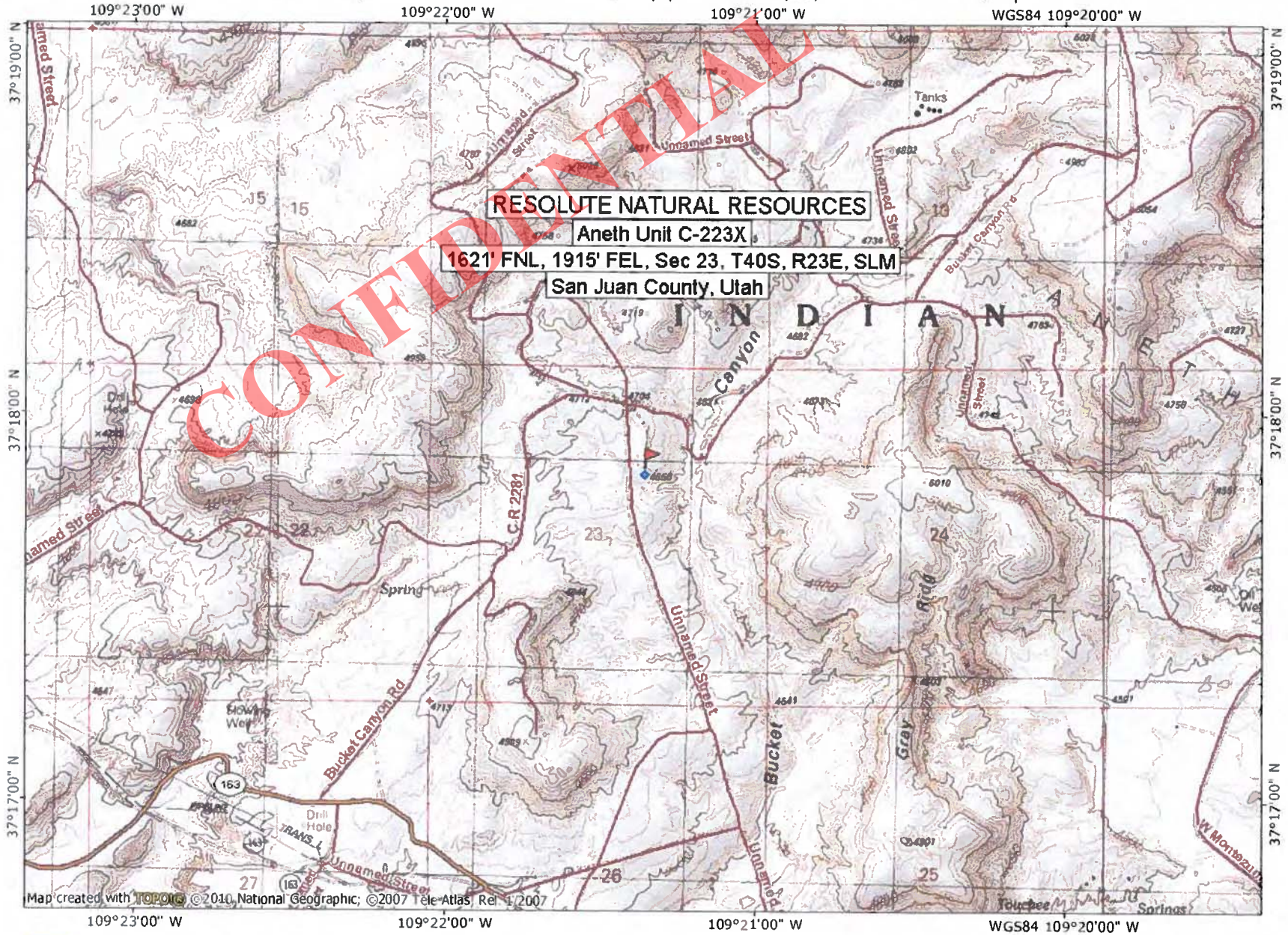
NOTE:

HUMMINGBIRD SURVEYING, LLC --- P.O. Box 416 Montezuma Creek, UT 84534 --- 970-570-5108

API Well Number: 43037500370000

CONFIDENTIAL

37°17'52" N, 109°21'21" W WGS84TOPOI map printed on 06/21/12 from "AU C-223X.tpo"



TN MN
10½°
06/21/12

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/16/2012

API NO. ASSIGNED: 43037500370000

WELL NAME: Aneth C-223X

OPERATOR: RESOLUTE NATURAL RESOURCES (N2700)

PHONE NUMBER: 303 534-4600

CONTACT: Sara Bohl

PROPOSED LOCATION: SWNE 23 400S 230E

Permit Tech Review:

SURFACE: 1621 FNL 1915 FEL

Engineering Review:

BOTTOM: 1621 FNL 1915 FEL

Geology Review:

COUNTY: SAN JUAN

LATITUDE: 37.29766

LONGITUDE: -109.35593

UTM SURF EASTINGS: 645716.00

NORTHINGS: 4129161.00

FIELD NAME: GREATER ANETH

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTSL 071010

PROPOSED PRODUCING FORMATION(S): DESERT CREEK

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - UTB000169
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 09-1428
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: ANETH
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 152-7
- Effective Date: 4/22/1998
- Siting: Does not suspend general siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhill
4 - Federal Approval - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Aneth C-223X
API Well Number: 43037500370000
Lease Number: UTSL 071010
Surface Owner: FEDERAL
Approval Date: 11/1/2012

Issued to:

RESOLUTE NATURAL RESOURCES, 1675 Boradway Ste 1950, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 152-7. The expected producing formation or pool is the DESERT CREEK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a faint rectangular stamp.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ANETH
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: Aneth C-223X
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037500370000
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202	PHONE NUMBER: 303 534-4600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute Natural Resources Co, LLC requests permission to move the pad location of the C223X to be combined with the C123. The BLM (surface owner) wants to minimize surface disturbance. The new location is noted in the attached plat. The surface location of the well will now be: T. 40 S., R. 23 E., sec. 23, NWNE, 828' FNL, 1900' FEL. BHL: SWNE, 1621' FNL, 1915' FEL (same as permitted).

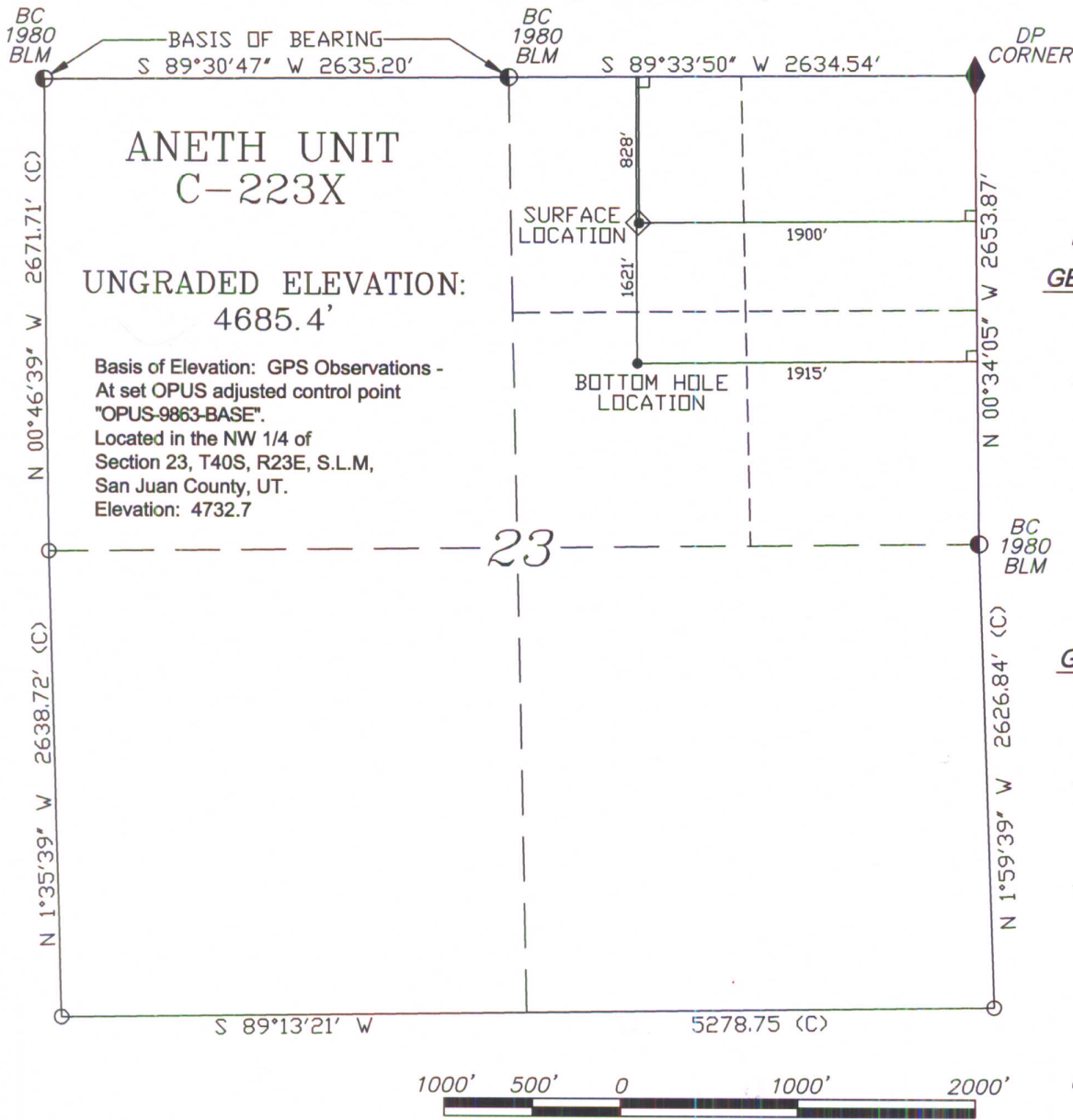
**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: August 07, 2013

By: 

NAME (PLEASE PRINT) Sara Bohl	PHONE NUMBER 303 534-4600	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 7/11/2013

T. 40 S., R. 23 E., S.L.M.



SCALE: 1" = 1000'
GEO. SURFACE VALUES

LATITUDE (NAD 83)
 NORTH 37.2998212°
LONGITUDE (NAD 83)
 WEST 109.3559137°
LATITUDE (NAD 27)
 NORTH 37.2998222°
LONGITUDE (NAD 27)
 WEST 109.3552414°
 NORTHING
 Y = 237691.54
 EASTING
 X = 2623823.68

GEO. BOTTOM HOLE VALUES

LATITUDE (NAD 83)
 NORTH 37.2976449°
LONGITUDE (NAD 83)
 WEST 109.3560020°
LATITUDE (NAD 27)
 NORTH 37.2976460°
LONGITUDE (NAD 27)
 WEST 109.3553297°
 NORTHING
 Y = 236898.79
 EASTING
 X = 2623816.15

DATUM
 UTAH SP SOUTH (1927)



SURVEYOR'S STATEMENT:

I, John A. Vukonich, of Farmington, New Mexico, hereby state: This plat was made from notes taken during an actual survey under my direct supervision on JANUARY 04, 2013, and it correctly shows the location of ANETH UNIT C-223X.

LEGEND

- ◇ PROPOSED WELL LOCATION
- BOTTOM HOLE LOCATION
- CALCULATED POSITION
- ◐ FOUND MONUMENT
- ◆ DOUBLE PROPORTION SECTION CORNER
- L DENOTES 90° TIE
- (C) CALCULATED

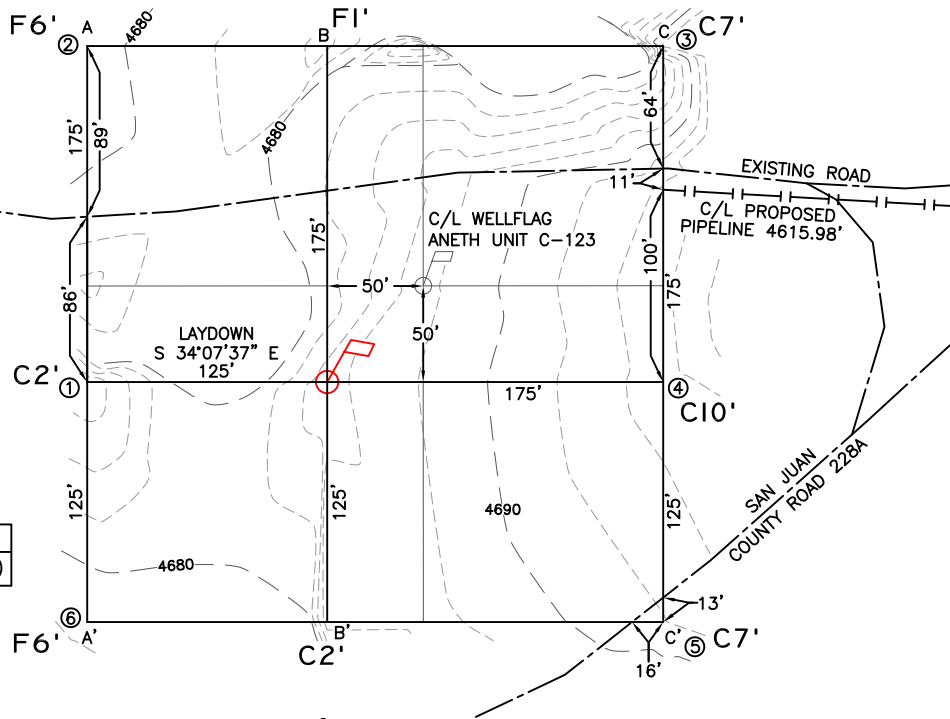
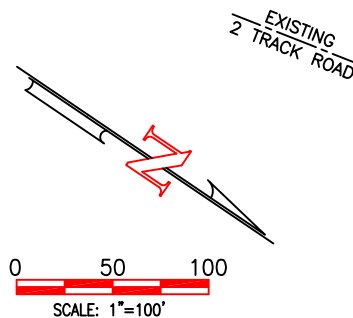
[Signature]
 UTAH PLS No. 7219139-2201



EXHIBIT A

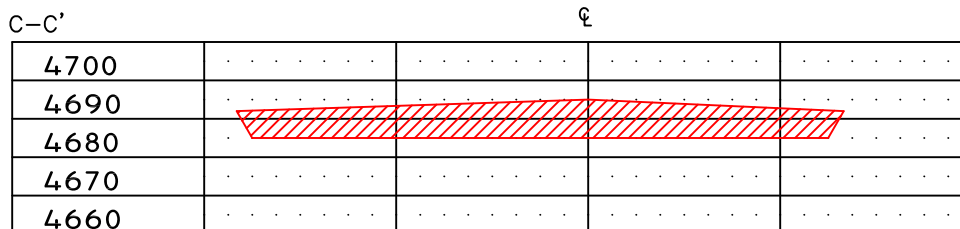
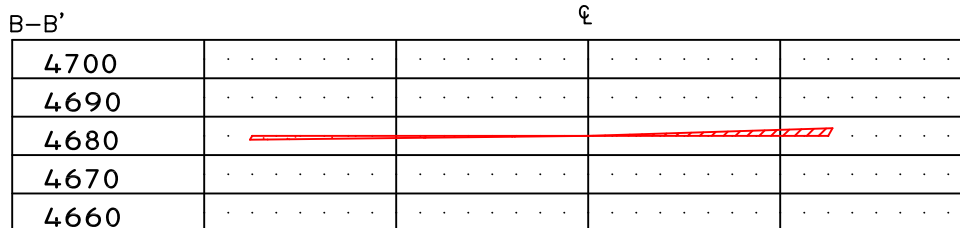
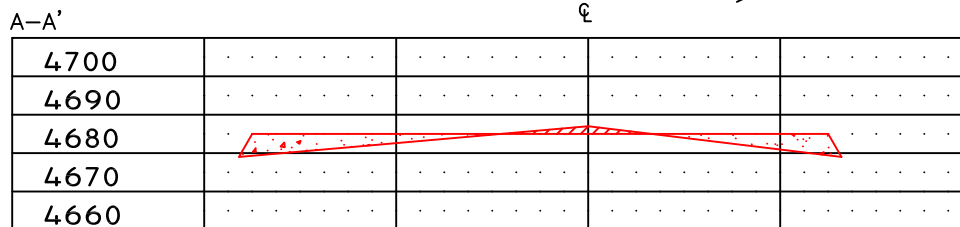
<p>P.O. BOX 3651 FARMINGTON, N.M. (505) 334-0408</p>	<p>SCALE: 1" = 1000'</p>	<p>PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY</p> <p>SURFACE: 828' F/NL & 1900' F/EL BOTTOM HOLE: 1621' F/NL & 1915' F/EL, SECTION 23, T. 40 S, R. 23 E, SALT LAKE MERIDIAN SAN JUAN COUNTY, UTAH</p>
	<p>JOB No. 10421</p>	
	<p>DATE: 01/14/13</p>	

**BEFORE DIGGING
CALL FOR UTILITY
LINE LOCATION!**



CUT	FILL	NET
7812 Cu. Yd.	8355 Cu. Yd.	543 Cu. Yd. (FILL)

NOTE:
THE EARTH QUANTITIES ON THIS DRAWING ARE ESTIMATED AND THE USE OF THIS IS AT THE RESPONSIBILITY OF THE USER.



CROSS SECTIONS

HORIZONTAL: 1"=100'

VERTICAL: 1"=50'

EXHIBIT IA

RESOLUTE
NATURAL RESOURCES

LEASE: ANETH UNIT C-223X

828' FNL, 1900' FEL (SURFACE)
FOOTAGES: 1621' FNL, 1915' FEL (BOTTOM HOLE)

SEC. 23 TWN. 40 S RNG. 23 E S.L.M.

LATITUDE: N 37.299821° LONGITUDE: W 109.355913°

ELEVATION: 4685

SURVEYED: 01/04/13

REV. DATE: 03/28/13

APP. BY J.A.V.

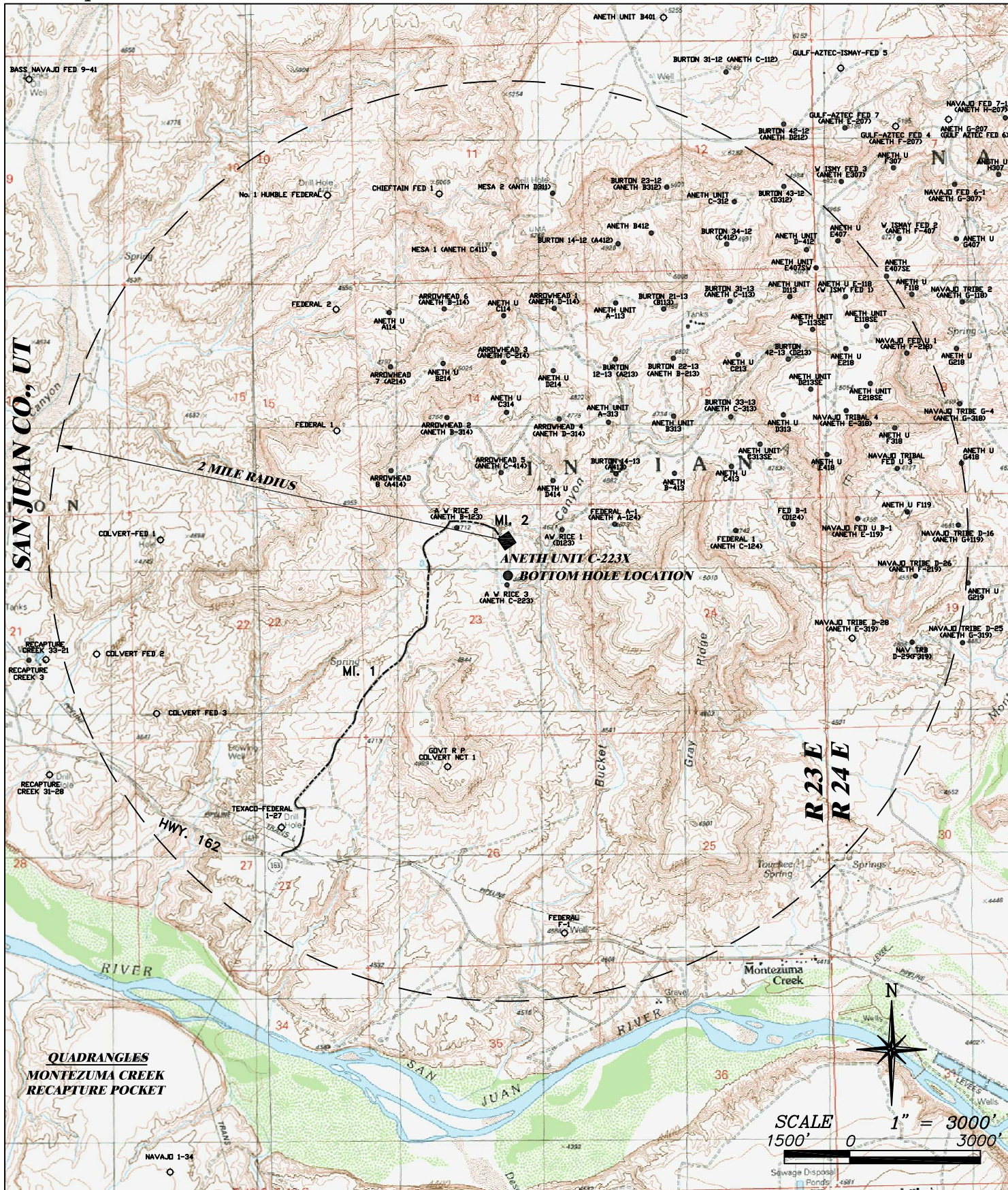
DRAWN BY: H.S.

DATE DRAWN: 01/14/13

FILE NAME: 10421C03



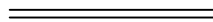

P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505) 334-0408



**PROPOSED WELL LOCATION FOR
RESOLUTE NATURAL RESOURCES
ANETH UNIT C-223X**

P.O. BOX 3651
FARMINGTON, N.M.
(505) 334-0408

SCALE: 1" = 3000'
JOB No. 10421
DATE: 01/14/13

EXISTING ROAD 
ACCESS/EGRESS 

**EXHIBIT
2A**

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Injection Well		7. UNIT or CA AGREEMENT NAME: ANETH
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		8. WELL NAME and NUMBER: Aneth C-223X
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202		9. API NUMBER: 43037500370000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: GREATER ANETH
		COUNTY: SAN JUAN
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/6/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute spud this well on 9-3-13, drilling ahead. Drilling report is attached.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 06, 2013**

NAME (PLEASE PRINT) Shery Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 9/6/2013	



Daily Activity Report

Well Name: C223X Aneth Unit

API Number 43037	Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,698.00	Casing Flange Elevation (ft) 4,681.50	KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft) 33.00	Well Spud Date/Time 9/2/2013 10:00	Rig Release Date/Time	

Job Category Drilling	Primary Job Type Drilling - original	Secondary Job Type
Start Date 9/1/2013	End Date	AFE Number 10012004

Objective
Drill and complete a vertical injector.

Contractor D&J	Rig Number 1	Rig Type Drilling - Double
-------------------	-----------------	-------------------------------

Report Start Date 8/6/2013	Report End Date 8/6/2013	Operations Summary Engineering Consultant Services
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Report Start Date 8/12/2013	Report End Date 8/12/2013	Operations Summary Set and test 4 anchors to 25K, test ok, installed 4 anchor tags
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Report Start Date 9/1/2013	Report End Date 9/2/2013	Operations Summary Safety meeting with M&R Trucking, Move rig F/AU C-123 - T/AU C-223X, Spot in and R/U equipment, Raise derrick @ 11:30, Weld flange on 16" conductor casing, N/U 13 5/8" annular stack and function test same, Drlg mouse and rat hole
-------------------------------	-----------------------------	---

Dur (hrs)	Comment
	0.50 Pre move safety meeting with M&R Trucking and all personal on location. 5.00 Move rig on same pad, F/AU C123 - T/AU C-223X 5.50 Spot in & R/U equipment, raise derrick @ 11:30, 4.00 Weld on 13 5/8" x 3000# flange on 16" conductor casing. 7.00 N/U 13 5/8" drilling spool, annular, rotating head, hook flow line and remote choke. 1.00 P/U 12 1/4" bit and mud motor. 1.00 Drlg rat and mouse hole, L/D mud motor.

Report Start Date 9/2/2013	Report End Date 9/3/2013	Operations Summary Finish drlg mouse and rat hole, MU 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94', Drlg 12.25" surface hole F/94' - T/675'.
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Dur (hrs)	Comment
	1.00 Finish drlg mouse and rat hole 1.00 P/U drlg bales, elevators and lay directional tools on racks. 1.50 M/U 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94' 0.50 Change shaker screens. 9.00 Drlg 12.25" surface hole F/94' - T/328' 0.50 Pull flow nipple, install drlg head rubber and drivers. 10.50 Drlg 12.25" surface hole F/94' - T/675'

Report Start Date 9/3/2013	Report End Date 9/4/2013	Operations Summary Drlg 12.25" surface hole F/675' - T/845', Mud motor not giving build necessary to follow directional plan, Circulate and W.O.O from engineer, TOOH F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor, P/U new motor set 2.42 bend, M/U new Security 12.25" bit, orientate directional tools, TIH no fill, Drlg F/845' - T/1046', Rig repair (Shale shaker), POOH to 90', Rig repair (Shale shaker)
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Dur (hrs)	Comment
	7.50 Drlg 12.25" surface hole F/675' - T/845' 1.50 Mud motor not giving build nessary to follow directional plan, Circulate and W.O.O from engineer 2.00 TOOH F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor. 1.00 P/U motor set at 2.42, M/U new bit, orientate MWD tools. 1.50 TIH F/90' - T/845', No fill 5.00 Drlg 12.25" surface hole F/845' - T/1046' 2.00 Shale shaker down due to electrical problems. 1.50 POOH F/1046' - T/90' 2.00 Wait on electrician, Work on shale shaker

Report Start Date 9/4/2013	Report End Date 9/5/2013	Operations Summary Rig repair, TIH (No fill), Drlg F/1046' - T/1291', Rig service, Drlg F/1291' - T/1601'
-------------------------------	-----------------------------	--

Dur (hrs)	Comment
	9.50 Wait on electrician, Work on shale shaker, Replace shaker motor and wiring harness 1.50 TIH F/90' - T/1046', No fill. 5.50 Drlg F/1046' - T/1291' 0.50 Service rig, Check brake pins, grease swivel 7.00 Drlg F/1291' - T/1601'

Report Start Date 9/5/2013	Report End Date 9/6/2013	Operations Summary Drlg F/1601' - T/1680' (TD), circulate, flow check (no flow). Short trip to 900' (No fill). TOOH, LD directional BHA. RU casing crew and run 40 jts 9 5/8" 36#, J-55, set at 1676.7'. Cement surface casing, plug did not bump after 2.5 bbls past calculated displacement. Check floats (Hold), 70 bbls cement circulated to surface. SI cement head, WOC. Cement fell back to 45'. Pump 7 bbls on mouse and rat hole on the AU C123, spot in Zeco closed-loop equipment. Top out cement w/3.8 bbls, cement top @ 45'. ND 13-5/8" annular stack. Rough cut 9 5/8" surface casing.
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Daily Activity Report

Well Name: C223X Aneth Unit

API Number 43037	Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,698.00	Casing Flange Elevation (ft) 4,681.50	KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft) 33.00	Well Spud Date/Time 9/2/2013 10:00	Rig Release Date/Time	

Dur (hrs)	Comment
3.50	Drig F/1601' - T/1680' (TD)
1.00	Circulate and condition hole for surface casing run job. Flow check (no flow)
1.00	POOH F/1680' - T/900', Chain out
0.50	RIH F/900' - T/1680', no fill
3.00	TOOH w/8 stds drill pipe, Lay down 12 jt HWDP, TOO H w/10 stds HWDP and 1std 6 1/4" DC, Lay down directional tools.
4.00	PJSM, R/U casing crew and run 40 jts 9 5/8" 36#, J55 casing as follows, Float shoe, 1- jt 9 5/8" 36#, J55, Float collar, 39 jts 9 5/8" 36#, J55, set at 1676.7'
1.00	Circulate and reciprocate casing on bottom.
2.00	PJSM, Cement as follows, Pressure test lines to 2500 psi, Pump 10bbl FW spacer, Pump 10bbl Flush spacer, Pump 20bbl FW spacer, Pump 425 sks @ 12.3#, 1.97 yield (149.1 bbls) lead Halliburton premium lite-SBM cement with 5 lbm Kol-Seal bulk, 0.125 lbm Poly-E-Flake, 2% Calcium Chloride with FW @ 10.17 gal/sk, Pump 190 sks @ 15.8#, 1.15 yield, (38.9 bbls) tail cement with, 94 lbm Premium-Class G Reg, 0.125 lbm Poly-E-Flake with FW @ 4.97 gal/sk, Shut down, Drop plug, Displace with 128.9 bbls FW (2.5 bbls over calculated volume), FCP 527, Plug did not bump, Check floats, Bleed back .5 bbl to tank, 70 bbls cement returns to surface.
	Pump 7 bbls to up fill up rat and mouse hole on AU C123
5.00	WOC, Cement fell back to 45', Top out cement job on mouse and rat hole on the AU C123, Spot in Zeco closed loop equipment.
1.00	Top out cement as follows, Pump .5 bbls FW, Pump 100 sks (20.5 bbls) @ 15.6 ppg, Yield 1.15 with 5 gal/sks, 16.7bbls cement to surface, R/D Halliburton cementers. Calculated cement top @ 45'
2.00	L/D cement head, P/U annular, Rough cut conductor casing.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ANETH
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: Aneth C-223X
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES	9. API NUMBER: 43037500370000
3. ADDRESS OF OPERATOR: 1675 Boradway Ste 1950 , Denver, CO, 80202	PHONE NUMBER: 303 534-4600 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40.0S Range: 23.0E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/8/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute proposes to amend the casing and cementing program submitted with the original permit for the subject well. Attached are amended program details.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**

Date: September 23, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Sherry Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 7/31/2013	

AU C223X Casing Change Sundry Information

Depth	Hole Diameter	Casing Diameter	Casing Weight, Grade, Condition	◆ Safety Factor (S _{fB} , S _{fC} , S _{fT})	Cement
Conductor Pipe 0' – 90' TVD	20"	16"	65 ppf H-40 (drift: 15.06") <u>Properties:</u> Collapse: 670 psi Burst: 1,640 psi Body Yield: 736,000 lbs		Ready Mix Cement Back to Surface
Surface Casing 0' – 1,650' TVD	12-1/4"	9-5/8"	36 ppf J-55 STC R3 New (drift: 8.765") <u>Properties:</u> Collapse: 2,020 psi Burst: 3,520 psi Jt. Strength: 639,000 lbs Body Yield: 564,000 lbs	S _{fC} – 2.8 S _{fB} – 2.2 S _{fT} – 11.0	(Cement back to Surface)* Lead: ~ 400 sx Halliburton Light Premium yield: 1.97 ft ³ /sx wt: 12.3-ppg Tail: ~100 sx Premium Class G Cement yield: 1.15 ft ³ /sx wt: 15.8-ppg
Production Casing 0' – 5,540' TVD	8-3/4"	7.0"	26 ppf J-55 LTC R3 New (drift: 6.151") <u>Properties</u> Collapse: 4,320 psi Burst: 4,980 psi Jt. Strength: 490,000 lbs Body Yield: 415,000 lbs	S _{fC} - 1.6 S _{fB} - 1.78 S _{fT} – 3.0	(Cement back to Surface)* First Stage Lead: ~ 260 sx Halliburton Light Class G Premium yield: 1.95 ft ³ /sx mix fluid: 10.04 gal/sx wt: 12.3-ppg Second Stage Tail: ~100sx Halliburton Light Premium Class G yield: 1.15 ft ³ /sx mix fluid: 4.96 gal/sx wt: 15.80 ppg DV Tool @ 6,500' TVD
OH Section 5,540' – 5,779'	6-1/8"				

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; RESOLUTE NATURAL RESOURCES

Well Name: ANETH C-223X

Api No: 43-037-50037 Lease Type FEDERAL

Section 23 Township 40S Range 23E County SAN JUAN

Drilling Contractor D & J DRILLING RIG # 1

SPUDDED:

Date 09/01/2013

Time _____

How DRY

Drilling will Commence: _____

Reported by LARRY CANDELARIA

Telephone # (505) 330-7065

Date 08/31/2013 Signed CHD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Injection Well		7. UNIT or CA AGREEMENT NAME: ANETH
2. NAME OF OPERATOR: RESOLUTE NATURAL RESOURCES		8. WELL NAME and NUMBER: Aneth C-223X
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40.0S Range: 23.0E Meridian: S		9. FIELD and POOL or WILDCAT: GREATER ANETH
		COUNTY: SAN JUAN
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/19/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Resolute completed this injection well on 12-19-13 to begin injection for local area oil production enhancement. The completion report was submitted 1-8-14.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
January 08, 2014**

NAME (PLEASE PRINT) Shery Glass	PHONE NUMBER 303 573-4886	TITLE Sr Regulatory Technician
SIGNATURE N/A	DATE 1/8/2014	



Daily Activity Summary

Well Name: C223X Aneth Unit

API Number 4303750037		Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80	Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)		Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00
Job Category Drilling & Completion			Primary Job Type Drilling & Completion Original				
Start Date 9/1/2013			End Date				
Objective Drill and complete a vertical injector.							
Contractor D&J		Rig Number 1	Rig on Report Date 9/1/2013			Rig off report date 9/24/2013	
Contractor TOPPS		Rig Number 6	Rig on Report Date 9/27/2013			Rig off report date 10/21/2013	
Contractor Teffeller		Rig Number	Rig on Report Date 12/13/2013			Rig off report date 12/13/2013	
Report Number	Start Date	End Date	Summary				
1	8/6/2013	8/6/2013	Engineering Consultant Services				
2	8/12/2013	8/12/2013	Set and test 4 anchors to 25K, test ok, installed 4 anchor tags				
3	9/1/2013	9/2/2013	Safety meeting with M&R Trucking, Move rig F/AU C-123 - T/AU C-223X, Spot in and R/U equipment, Raise derrick @ 11:30, Weld flange on 16" conductor casing, N/U 13 5/8" annular stack and function test same, Drlg mouse and rat hole				
4	9/2/2013	9/3/2013	Finish drlg mouse and rat hole, MU 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94', Drlg 12.25" surface hole F/94' - T/675'.				
5	9/3/2013	9/4/2013	Drlg 12.25" surface hole F/675' - T/845', Mud motor not giving build necessary to follow directional plan, Circulate and W.O.O from engineer, TOO H F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor, P/U new motor set 2.42 bend, M/U new Security 12.25" bit, orientate directional tools, TIH no fill, Drlg F/845' - T/1046', Rig repair (Shale shaker), POOH to 90', Rig repair (Shale shaker)				
6	9/4/2013	9/5/2013	Rig repair, TIH (No fill), Drlg F/1046' - T/1291', Rig service, Drlg F/1291' - T/1601'				
7	9/5/2013	9/6/2013	Drlg F/1601' - T/1680' (TD), Circulate, Flow check (no flow), Short trip to 900' (No fill), TOO H, L/D directional BHA, R/U casing crew and run 40 jts 9 5/8" 36#, J55 set at 1676.7', Cement surface casing, Plug did not bump after 2.5 bbls past calculated displacement, Check floats (Hold), 70 bbls cement circulated to surface, Shut in cement head, WOC, Cement fell back to 45', Pump 7 bbls on mouse and rat hole on the AU C123, Spot in Zeco closed loop equipment., Top out cement w/3.8 bbl ,Cement top @ 45', N/D 13 5/8" annular stack, Rough cut 9 5/8" surface casing.				
8	9/6/2013	9/7/2013	ND annular, cut off conductor casing. Final cut surface casing, weld on wellhead type 11" x 3000, C22 bowl. NU 11" BOP, annular, rotating head and stinger to choke, R/U gas buster, Pre fab 8" manifold to ZECO shale shakers and tie in 8" flow line. Pressure test 11" BOPE. Cut 120' drlg line, P/U 8 3/4" directional BHA.				
9	9/7/2013	9/8/2013	Wait on jet nozzles for Security bit. Lay out & PU directional BHA, orientate MWD tools. TIH, tag cement @ 1622', float collar @ 1631'. Trouble shoot 4 1/16" HCR valve. Undetermined if HCR valve actually opened during BOPE pressure testing operations. TOO H to replace 4 1/16" HCR valve. ND & remove 4 1/16" HCR valve. WO 4 1/16" HCR to be delivered from town. Transfer mud from rig & closed-loop mud tanks to frac tanks on location. Fill mud tanks with PDS mud transferred from Aztec rig 920. NU 4 1/16" HCR valve & hook up choke flex hose. Pressure test HCR and choke manifold. TIH tag cement 1622', Drl 8 3/4" shoe track, 13' good cement in shoe joint. Drlg formation F/1680' - T/1706'. Closed-loop generator went down. Pulled bit up into surface shoe. Shut the job down until ZECO is able to supply qualified hands on location.				
10	9/8/2013	9/9/2013	Replacement generator showed up @ 08:30, still waiting on ZECO for experienced/qualified personal to arrive on location. Circulate and condition mud in mud pits. Drlg formation F/1706' - T/2621'.				
11	9/9/2013	9/10/2013	Drlg F/2621' - T/3696'				
12	9/10/2013	9/11/2013	Drlg F/3696' - T/4271'				
13	9/11/2013	9/12/2013	Drlg F/4271' - T/4959'				
14	9/12/2013	9/13/2013	Drlg F/4271' - T/5303', Rig service, Drlg F/5303' - T/5493'				
15	9/13/2013	9/14/2013	Drlg F/5493' - T/5630' (TD), Circulate, pump 2 high vis sweeps, Flow check (No flow), TOO H, L/D directional tools, TIH w/clean out assembly, Tag fill @ 5580', Work tight hole, Ream F/5514' T/5630', Circulate pump sweeps, Short trip.				
16	9/14/2013	9/15/2013	Continue short trip, POOH F/5630' - T/4399', TIH no fill, TOO H F/logs, Run logs, TIH, Circulate, LDDP & BHA, XO pipe rams, R/U csg crew, Run 25 jts - 7" 26#, J-55, LT&C casing.				
17	9/15/2013	9/16/2013	Finish run 7" Int csg set @ 5626.2. Cement first stage, bump plug @ 14:50 on 9/15/2013. FCP 950 psi, bled back 1.25 bbl. Open Stage tool @ 578 psi. Circ 25 bbls cement to pit, circulate between stages. Cement 2nd stage, bump plug @ 20:11 on 9/15/2013. FCP 640 psi, close stage tool, check floats, bled back .75 bbl. Circ 17 bbls cement to surface. ND BOP's, set 7" casing slips w/ 95K. Install 11" 3M x 7-1/16" 5M "B" section, test secondary seal to 2500 psi, (held OK). NU 7-1/16" BOPE, pressure test BOPE.				
18	9/16/2013	9/17/2013	Test BOPE, weld 8" flow line. PU 6-1/8" BHA, PU 3-1/2" DP. TIH, tag drill cement & DV tool F/2496' T/2530'. Pressure test casing T/1500 psi, TIH.				
19	9/17/2013	9/18/2013	TIH, tag & drl cement and FC F/5584' T/5602'. TIH w/ wireline tools. Condition mud to weight up from 9.2 lbs T/10.0 lbs. Drill 6-1/8" hole section F/5630' T/5692'.				



Daily Activity Summary

Well Name: C223X Aneth Unit

Report Number	Start Date	End Date	Summary
20	9/18/2013	9/19/2013	Circulate condition hole, drill 6-1/8" hole F/5692' T/5698'. TOOH, LD 6-1/8" BHA. MU 4.50" core BHA. TIH, drill core F/5688' T/5708'. Run wireline in drill string pull plug. TOOH w/ wireline, TIH w/ wireline, pull core barrel w/core to second core barrel. TOOH w/ core. LD core BHA. Rig Service, MU 6-1/8" BHA, TIH.
21	9/19/2013	9/20/2013	TIH 6-1/8" BHA, drill 6-1/8" hole F/5708' T/5735', TOOH. MU core BHA, TIH, core F/5735' T/5745'. MU and run wireline.
22	9/20/2013	9/21/2013	TOOH, Lay down 4.50" Core #2, M/U 6-1/8" BHA, TIH, Drill 6-1/8" hole section F/5745' T/5770', TOOH, M/U 4.50" Core BHA, TIH, Ream 15' of fill.
23	9/21/2013	9/22/2013	Continue to ream to bottom @ 5770', Circulate, Core F/5770' - T/5780, POOH to intermediate csg shoe, R/U run Wire line in DP to pull pressure relief valve, Trip back in hole to pull core barrel up to second pressure barrel, TOOH L/D core tools, TIH, Drlg F/5780' - T/5860'
24	9/22/2013	9/23/2013	Drlg F/5860' - T/5905', Circulate & pump sweep. POOH to intermediate casing shoe. Transfer mud to frac tanks, transfer 10# brine water to mud pits. TIH no fill, displace hole w/10# brine water. TOOH f/logs, log well with Baker.
25	9/23/2013	9/24/2013	Finish logging operations, RD Baker wire line, RU Bluejet. Run and set Baker 7" RBP @ 5471'. RD Bluejet, TIH, LDDP & BHA, ND BOPE. Rig down all equipment. Prep to move rig from AU C223X - T/RU 20-42H. Rig released @ 06:00 on 9-24-13.
26	9/24/2013	9/25/2013	Move rig.
27	9/27/2013	9/27/2013	Move in and rig up.
28	9/28/2013	9/28/2013	Pick up workstring. Retrieve RBP, TOOH with RBP and gauges. TIH with bit to TD @ 5905', no fill.
29	9/30/2013	9/30/2013	Tooh with bit, tih with packer, make caustic sweep, flush out of hole.
30	10/1/2013	10/1/2013	Acidize open hole with 3500 gals 20% acid, shut down 2 hrs. Pump 10# brine.
31	10/2/2013	10/2/2013	Tooh with treating packer, tih with injection packer, set @ 5500', test @ 1010 psi lost pressure. Tooh, pick up packer, tih, set packer @ 2508', test to 5500', good, test to surface, bad.
32	10/3/2013	10/3/2013	Circulate f/w, test casing, good. Circulate packer fluid, test casing, bad. Isolate leak 2445 to 2588'. DV tool @2482'.
33	10/4/2013	10/4/2013	Prep well for cement.
34	10/5/2013	10/5/2013	Cement squeeze DV tool @2482'
35	10/7/2013	10/7/2013	Drill out cement.
36	10/8/2013	10/8/2013	Test casing, good. Pull rbp, lay down tubing.
37	10/9/2013	10/9/2013	Pick up TK injection tubing, circulate packer fluid. Land tubing. Nd bops. Pressure test casing, good. Install tree.
38	10/10/2013	10/10/2013	Test casing and tubing. Retrieve plug from packer. Rig down, move off.
39	10/11/2013	10/11/2013	Tbg at 650#, Csg at 0#, BH at 0#. Move in Well Check MIT tester, connect to csg. Pump pressure to 1010#, shut down and let Chart Record for 30 min, no leaks, pass MIT test. Witnessed by NNEPA Rep. Leroy Lee. Disconnect from csg, move off location. RE: C-223X is ready for flowing well/H2O injection once flowline/lateral line is connected to well head.
40	10/21/2013	10/21/2013	RIH w/1 1/4: CT w/Basic CT nozzle. RIH to 5,633 (7" csg @ 5,626'). (Cleaned out w/6 1/8" to 5,905') Could not get past 5,633'. SD N2 and start wtr. Could not get past 5,633'. POOH w/CT. Bend CT to the North. Change out gasket. RIH w/CT to 5,906. (PBDT). CO. Getting back light gunk. No solids. After N2 quit, very light flow. POOH w/CT.
41	11/23/2013	11/23/2013	Azeotrope / Methanol Multi phase cleaning, dean stark water and oil saturations, routine core analtsis
42	12/11/2013	12/11/2013	SITP 150 psig, SICP 2,450 psig. Changed gauge to make sure of press. MIRU Tefeller (Adrian). RIH w/1.80 gauge ring and tgd profile nipple @ 5,497' WL depth. Bumped on-off @ 5,487'. POOH w/GR. RIH w/C1 running tl w/178R plug. Shear off, POOH. NU flowline to Frac Tank #258107. BD csg 2,450 psig to 0 psig in 15 seconds through choke. Small amt of oil flowed fr csg. Opened up tbg, puff of press. Tbg had a small flow, then quit. Sample of fluid to begin with looked like pkr fluid. RDMO Tefeller. After 45 min, still 0 psig on tbg and csg.
43	12/12/2013	12/12/2013	SITP 0 psig, SICP 0 psig. Tbg has a slight flow. Get diesel to the csg valve. Press csg to 1,000 psig. Tbg flow did not increase. Leave csg @ 1,000 psig. Did not have drop in 30 min. Did not get any sign of red diesel from tbg after 1 hr.
44	12/13/2013	12/13/2013	SITP 0 psig, SICP 750 psig, (pressure was left on csg). Press tbg to 2,700 psig, chart - held steady. BD tbg. Press csg to 1,000 psig - held steady. Did not communicate w/tbg. BD csg. MIRU Tefeller. RIH to 5,497' and puncture disc. Had a 100 psig bump in pressure from 0 psig on tbg. POOH. TIH and retrieve 1.78 plug. SWI, RDMO Tefeller.
45	12/17/2013	12/17/2013	Started injecting water in the morning. Checked press in the evening. FTP 1,980 psig, SICP 1,420 psig.
46	12/18/2013	12/18/2013	FTP 2,120 psig. SITP 1,540 psig. NU vac truck. Bd csg to 0 psig. Small drop in tbg press than back to 2,120 psig. Let csg flow for 5 min. When csg vlv closed csg built 500 psig in less than 3 min.



Daily Activity Summary

Well Name: C223X Aneth Unit

API Number 4303750037		Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80		Casing Flange Elevation (ft)		KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)	Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00
Report Number	Start Date	End Date	Summary				
47	12/19/2013	12/19/2013	<p>SI inj line, (SITP 1,210 psig. SICIP 1,550 psig.) Install bleed offs to determine if any press bleeding by hanger. Bleed csg dwn to 0 psig. Did not build csg press yesterday without injecting. Building csg press today without injecting. Csg press increased to 500 psig in less than 5 min. Open injection and build tbg press to 1,850 psig. Still no communication through hanger. Well has Russian adaptor and hanger w/extended neck. When shutting down injection press drpd fr 1,850 psig to 1,350 psig, then to 1,210 tbg psig. Well press stabilized @ 1,210 on tbg and 940 psig on csg. Talked with Billson and had chokes opened to give more tbg inj press. Tbg jumped to 1,940 psig and csg slowly climbed to 1,450 psig. Open csg and BD csg to 0 psig. Injection rate was @ 1,950 psig. Close csg valve, press jumped to 2,100 psig, then dropped to 1,300 psig. Tbg then went back to 2,100 psig and stabilized. Did not have any communication between csg slips and tbg hanger.</p>				

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <u>injection</u>		5. LEASE DESIGNATION AND SERIAL NUMBER UTSL71010
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS <input checked="" type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Resolute Natural Resources		7. UNIT or CA AGREEMENT NAME UTU68927A
3. ADDRESS OF OPERATOR: 1675 Broadway, Ste 1950 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (303) 573-4886		8. WELL NAME and NUMBER Aneth Unit C-223X
4. LOCATION OF WELL (FOOTAGES) AT SURFACE 828 FNL, 1900 FEL sec 23-T40S-R23E AT TOP PRODUCING INTERVAL REPORTED BELOW: 1604 FNL, 1887 FEL sec 23-T40S-R23E AT TOTAL DEPTH 1608 FNL, 1884 FEL, SWNE sec 23-T40S-R23E		9. API NUMBER: 4303750037
10. FIELD AND POOL, OR WLD/CAT Greater Aneth		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 23 40S 23E S
12. COUNTY San Juan		13. STATE UTAH

14. DATE SPUDDED: 9/2/2013	15. DATE T.D. REACHED: 9/23/2013	16. DATE COMPLETED: 12/19/2013	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>	17. ELEVATIONS (OF, RKB, RT, GL): 4685.4' GL
18. TOTAL DEPTH MD 5,905 TVD 5,841	19. PLUG BACK T.D.: MD TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) cement evaluation logs			23. WAS WELL CORED? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12 1/4	9 5/8 J-55	36	0	1,677		Lite-G 615		0	
8 3/4	7 J-55	26	0	5,626		Lite-G 430		0	
6 1/8			5,626	5,905					open hole

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	5,494							

26. PRODUCING INTERVALS					27. PERFORATION RECORD			
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Desert Creek I	5,641							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Desert Creek IB	5,656							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Desert Creek IC	5,669							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D) Desert Creek II	5,678							Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5500 to TD (open hole)	acidized open hole with 3500 gal 20% acid

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input checked="" type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> OTHER: <u>schematic</u> <u>tubing detail, survey</u>	30. WELL STATUS: injecting
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31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.:	CSG. PRESS.:	API GRAVITY:	BTU - GAS:	GAS/OIL RATIO:	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.:	CSG. PRESS.:	API GRAVITY:	BTU - GAS:	GAS/OIL RATIO:	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.:	CSG. PRESS.:	API GRAVITY:	BTU - GAS:	GAS/OIL RATIO:	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.:	CSG. PRESS.:	API GRAVITY:	BTU - GAS:	GAS/OIL RATIO:	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Lower Ismay A	5,546
				Lower Ismay B	5,572
				Lower Ismay C	5,585
				Gothic Shale	5,602
				Desert Creek IA	5,625
				Desert Creek IB	5,635
				Desert Creek IC	5,649
				Desert Creek IIA	5,657
				Desert Creek IIB	5,689
				Desert Creek IIC	5,709

35. ADDITIONAL REMARKS (include plugging procedure)

more formation tops: Desert Creek III, 5772', Chimney Rock, 5790'. Well put to injection 12-19-13. Well is open hole from 5626' to 5905' TD.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Sherry Glass

TITLE Sr Regulatory Technician

SIGNATURE *Sherry Glass*

DATE 1/15/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Resolute

Energy Corporation

Resolute Natural Resources

San Juan County, UT (Nad 83)

Sec 23, T40S, R23E

Aneth Unit C-223X

DD

UWI:

WL:

Survey: Final

Standard Survey Report

13 September, 2013



Project: San Juan County, UT (Nad 83)
Site: Sec 23, T40S, R23E
Well: Aneth Unit C-223X
Wellbore: DD
Plan: Final

Geodetic System: US State Plane 1983
Ellipsoid: GRS 1980
Zone: Utah Southern Zone
Northing: 10080191.94
Easting: 2264029.52
Latitude: 37° 17' 59.356 N
Longitude: 109° 21' 21.289 W
Grid Convergence: 1.31° West
Ground Elevation: 4688.9
KB Elevation: Est RKB @ 4705.4usft (D&J 1)

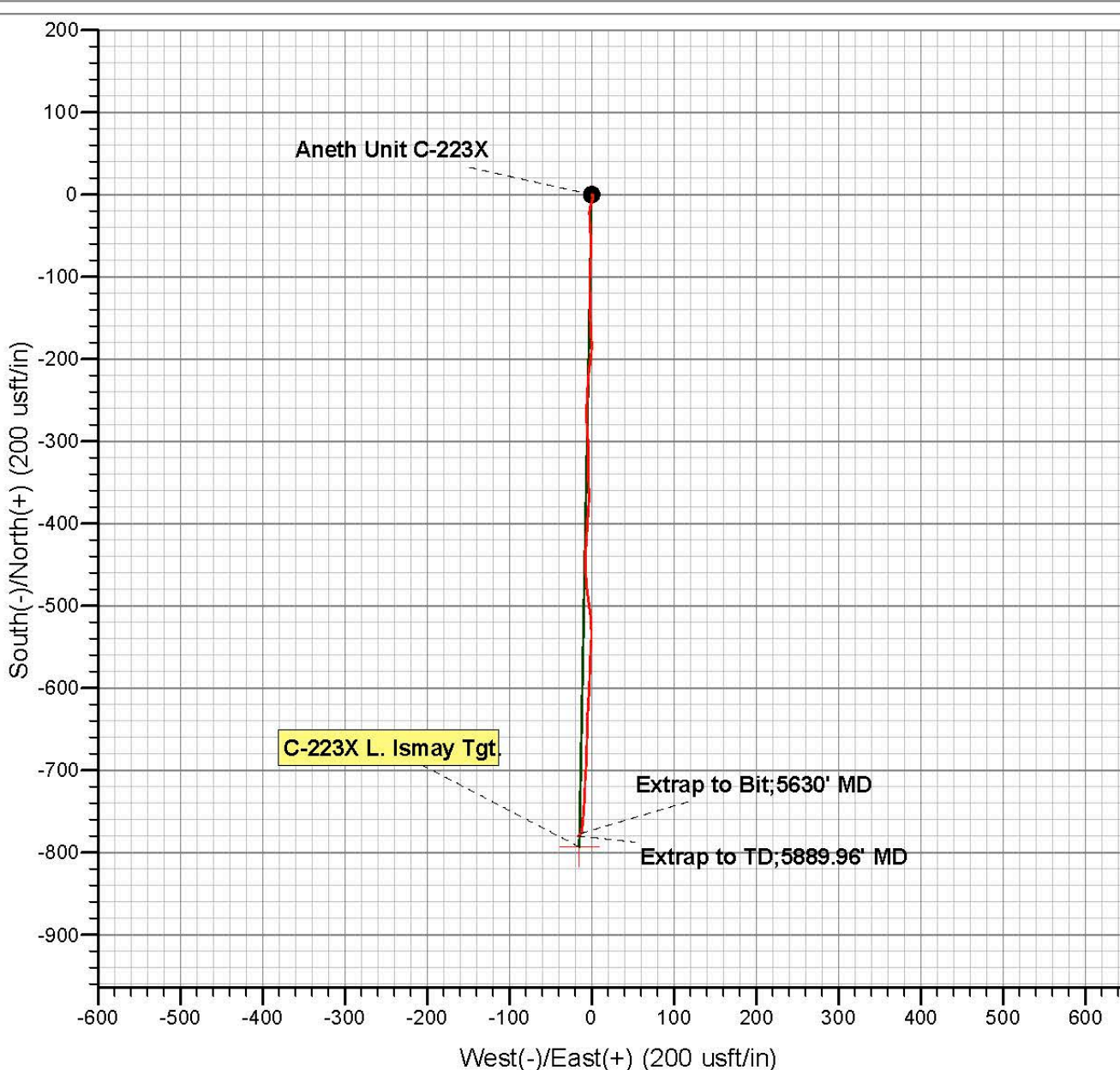
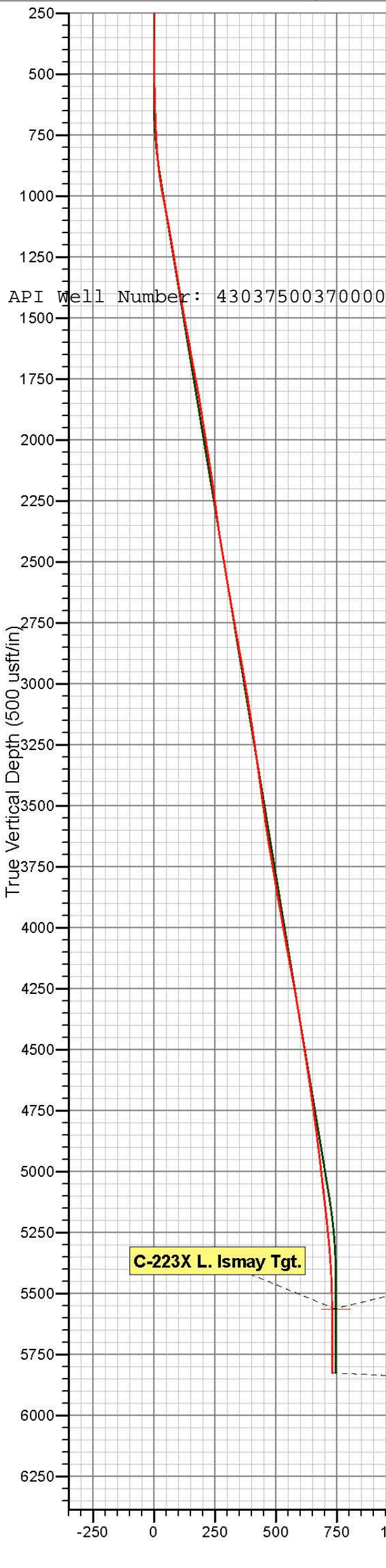


Azimuths to True North
Magnetic North: 10.36°

Magnetic Field
Strength: 50634.6snT
Dip Angle: 63.59°
Date: 8/13/2013
Model: IGRF2010

PLAN DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	933.3	10.00	181.08	931.6	-29.0	-0.5	3.00	181.08	29.0	
4	5166.7	10.00	181.08	5100.7	-764.0	-14.5	0.00	0.00	764.1	
5	5500.0	0.00	0.00	5432.3	-793.0	-15.0	3.00	180.00	793.1	
6	5632.1	0.00	0.00	5564.4	-793.0	-15.0	0.00	0.00	793.1	C-223X L. Ismay Tgt.
7	5893.1	0.00	0.00	5825.4	-793.0	-15.0	0.00	0.00	793.1	



ANNOTATIONS

TVD	MD	Annotation
5565.5	5630.0	Extrap to Bit; 5630' MD
5825.4	5889.9	Extrap to TD; 5889.96' MD

FORMATION TOP DETAILS

No formation data is available



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Project	San Juan County, UT (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Southern Zone		Using geodetic scale factor

Site	Sec 23, T40S, R23E		
Site Position:		Northing:	10,080,191.93 usft
From:	Lat/Long	Easting:	2,264,029.53 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	37° 17' 59.356 N
		Longitude:	109° 21' 21.289 W
		Grid Convergence:	1.31 °

Well	Aneth Unit C-223X					
Well Position	+N/-S	0.0 usft	Northing:	10,080,191.93 usft	Latitude:	37° 17' 59.356 N
	+E/-W	0.0 usft	Easting:	2,264,029.53 usft	Longitude:	109° 21' 21.289 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,688.9 usft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/13/2013	10.36	63.59	50,635

Design	Final				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	161.13	

Survey Program	Date	9/13/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
94.0	5,889.9	Final (DD)	MWD	MWD - Standard	

Survey											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	-4,705.4	0.0	0.0	0.0	0.00	0.00	0.00	
94.0	0.00	0.00	94.0	-4,611.4	0.0	0.0	0.0	0.00	0.00	0.00	
150.0	0.00	204.20	150.0	-4,555.4	0.0	0.0	0.0	0.00	0.00	0.00	
180.0	0.20	7.50	180.0	-4,525.4	0.1	0.0	0.0	0.67	0.67	0.00	
210.0	0.10	123.90	210.0	-4,495.4	0.1	0.0	-0.1	0.87	-0.33	388.00	
272.0	0.10	21.80	272.0	-4,433.4	0.1	0.1	-0.1	0.25	0.00	-164.68	
364.0	0.20	112.40	364.0	-4,341.4	0.1	0.3	0.0	0.24	0.11	98.48	
424.0	0.40	125.20	424.0	-4,281.4	0.0	0.5	0.2	0.35	0.33	21.33	
484.0	0.80	145.20	484.0	-4,221.4	-0.5	1.0	0.8	0.74	0.67	33.33	
515.0	1.10	155.80	515.0	-4,190.4	-1.0	1.2	1.3	1.12	0.97	34.19	



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
546.0	1.10	165.10	546.0	-4,159.4	-1.5	1.4	1.9	0.58	0.00	30.00
576.0	1.70	177.00	576.0	-4,129.4	-2.2	1.5	2.6	2.21	2.00	39.67
607.0	1.90	186.40	607.0	-4,098.4	-3.2	1.5	3.5	1.15	0.65	30.32
637.0	2.30	192.50	636.9	-4,068.5	-4.3	1.3	4.5	1.53	1.33	20.33
668.0	2.70	192.00	667.9	-4,037.5	-5.6	1.0	5.6	1.29	1.29	-1.61
698.0	2.90	195.10	697.9	-4,007.5	-7.0	0.6	6.9	0.84	0.67	10.33
728.0	3.30	195.60	727.8	-3,977.6	-8.6	0.2	8.2	1.34	1.33	1.67
759.0	3.80	198.10	758.8	-3,946.6	-10.4	-0.3	9.8	1.69	1.61	8.06
789.0	4.00	199.10	788.7	-3,916.7	-12.4	-1.0	11.4	0.70	0.67	3.33
819.0	4.70	200.10	818.6	-3,886.8	-14.5	-1.8	13.2	2.35	2.33	3.33
849.0	5.40	188.90	848.5	-3,856.9	-17.1	-2.4	15.4	4.02	2.33	-37.33
880.0	6.50	182.20	879.3	-3,826.1	-20.3	-2.7	18.3	4.19	3.55	-21.61
910.0	8.00	179.70	909.1	-3,796.3	-24.0	-2.7	21.9	5.11	5.00	-8.33
940.0	9.10	178.40	938.8	-3,766.6	-28.5	-2.7	26.1	3.72	3.67	-4.33
970.0	10.00	176.60	968.3	-3,737.1	-33.5	-2.4	30.9	3.16	3.00	-6.00
1,001.0	11.10	175.70	998.8	-3,706.6	-39.1	-2.1	36.4	3.59	3.55	-2.90
1,032.0	11.50	175.70	1,029.2	-3,676.2	-45.2	-1.6	42.2	1.29	1.29	0.00
1,062.0	11.50	175.40	1,058.6	-3,646.8	-51.1	-1.1	48.0	0.20	0.00	-1.00
1,093.0	11.50	177.20	1,089.0	-3,616.4	-57.3	-0.7	54.0	1.16	0.00	5.81
1,124.0	11.30	181.30	1,119.4	-3,586.0	-63.4	-0.7	59.8	2.69	-0.65	13.23
1,155.0	10.60	182.80	1,149.8	-3,555.6	-69.3	-0.9	65.3	2.44	-2.26	4.84
1,183.0	10.50	183.10	1,177.3	-3,528.1	-74.4	-1.1	70.1	0.41	-0.36	1.07
1,215.0	10.60	182.70	1,208.8	-3,496.6	-80.3	-1.4	75.5	0.39	0.31	-1.25
1,246.0	10.40	182.90	1,239.3	-3,466.1	-85.9	-1.7	80.8	0.66	-0.65	0.65
1,277.0	9.70	182.70	1,269.8	-3,435.6	-91.3	-2.0	85.8	2.26	-2.26	-0.65
1,308.0	9.60	183.10	1,300.4	-3,405.0	-96.5	-2.2	90.6	0.39	-0.32	1.29
1,340.0	9.60	182.10	1,331.9	-3,373.5	-101.9	-2.5	95.6	0.52	0.00	-3.13
1,371.0	9.80	178.90	1,362.5	-3,342.9	-107.1	-2.5	100.5	1.85	0.65	-10.32
1,402.0	10.10	179.80	1,393.0	-3,312.4	-112.4	-2.5	105.6	1.09	0.97	2.90
1,434.0	10.60	179.60	1,424.5	-3,280.9	-118.2	-2.4	111.0	1.57	1.56	-0.63
1,464.0	10.90	179.50	1,454.0	-3,251.4	-123.8	-2.4	116.4	1.00	1.00	-0.33
1,494.0	11.10	179.20	1,483.4	-3,222.0	-129.5	-2.3	121.8	0.69	0.67	-1.00
1,526.0	11.00	179.20	1,514.8	-3,190.6	-135.6	-2.2	127.6	0.31	-0.31	0.00
1,556.0	11.10	178.10	1,544.3	-3,161.1	-141.4	-2.1	133.1	0.78	0.33	-3.67
1,588.0	10.60	177.40	1,575.7	-3,129.7	-147.4	-1.9	138.9	1.62	-1.56	-2.19
1,618.0	10.60	176.70	1,605.2	-3,100.2	-152.9	-1.6	144.2	0.43	0.00	-2.33
1,635.0	10.60	176.20	1,621.9	-3,083.5	-156.0	-1.4	147.2	0.54	0.00	-2.94
1,710.0	10.70	177.40	1,695.6	-3,009.8	-169.9	-0.6	160.5	0.32	0.13	1.60
1,742.0	11.10	177.60	1,727.0	-2,978.4	-175.9	-0.4	166.4	1.26	1.25	0.63
1,773.0	11.30	178.70	1,757.4	-2,948.0	-181.9	-0.2	172.1	0.94	0.65	3.55
1,805.0	11.30	181.60	1,788.8	-2,916.6	-188.2	-0.2	178.0	1.78	0.00	9.06
1,836.0	10.90	186.10	1,819.2	-2,886.2	-194.2	-0.6	183.5	3.08	-1.29	14.52
1,864.0	10.70	188.80	1,846.7	-2,858.7	-199.4	-1.2	188.2	1.94	-0.71	9.64
1,896.0	10.00	188.50	1,878.2	-2,827.2	-205.0	-2.1	193.3	2.19	-2.19	-0.94



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,927.0	9.90	186.90	1,908.7	-2,796.7	-210.4	-2.8	198.1	0.95	-0.32	-5.16
1,958.0	9.80	186.50	1,939.3	-2,766.1	-215.6	-3.4	202.9	0.39	-0.32	-1.29
1,989.0	9.90	184.10	1,969.8	-2,735.6	-220.9	-3.9	207.8	1.36	0.32	-7.74
2,021.0	10.20	184.30	2,001.3	-2,704.1	-226.5	-4.3	212.9	0.94	0.94	0.63
2,053.0	9.70	183.00	2,032.9	-2,672.5	-232.0	-4.7	218.0	1.71	-1.56	-4.06
2,084.0	9.70	183.90	2,063.4	-2,642.0	-237.2	-5.0	222.8	0.49	0.00	2.90
2,146.0	9.10	182.60	2,124.6	-2,580.8	-247.3	-5.6	232.2	1.03	-0.97	-2.10
2,209.0	8.40	182.60	2,186.8	-2,518.6	-256.9	-6.0	241.1	1.11	-1.11	0.00
2,272.0	8.00	180.10	2,249.2	-2,456.2	-265.9	-6.2	249.6	0.85	-0.63	-3.97
2,335.0	7.90	178.40	2,311.6	-2,393.8	-274.6	-6.1	257.8	0.41	-0.16	-2.70
2,399.0	8.40	175.90	2,375.0	-2,330.4	-283.6	-5.7	266.6	0.96	0.78	-3.91
2,431.0	9.80	175.90	2,406.5	-2,298.9	-288.7	-5.3	271.4	4.38	4.38	0.00
2,462.0	9.50	176.00	2,437.1	-2,268.3	-293.9	-4.9	276.5	0.97	-0.97	0.32
2,493.0	9.80	176.20	2,467.7	-2,237.7	-299.0	-4.6	281.5	0.97	0.97	0.65
2,524.0	9.90	176.50	2,498.2	-2,207.2	-304.3	-4.3	286.6	0.36	0.32	0.97
2,556.0	10.00	176.60	2,529.7	-2,175.7	-309.9	-3.9	291.9	0.32	0.31	0.31
2,587.0	10.40	181.00	2,560.2	-2,145.2	-315.3	-3.8	297.2	2.82	1.29	14.19
2,619.0	10.40	183.00	2,591.7	-2,113.7	-321.1	-4.0	302.6	1.13	0.00	6.25
2,650.0	10.00	180.80	2,622.2	-2,083.2	-326.6	-4.2	307.7	1.80	-1.29	-7.10
2,682.0	10.00	179.30	2,653.7	-2,051.7	-332.2	-4.2	312.9	0.81	0.00	-4.69
2,713.0	10.30	178.10	2,684.3	-2,021.1	-337.6	-4.1	318.2	1.18	0.97	-3.87
2,745.0	10.30	177.60	2,715.7	-1,989.7	-343.3	-3.9	323.6	0.28	0.00	-1.56
2,776.0	10.60	178.90	2,746.2	-1,959.2	-349.0	-3.7	329.0	1.23	0.97	4.19
2,807.0	11.10	179.60	2,776.7	-1,928.7	-354.8	-3.6	334.6	1.67	1.61	2.26
2,838.0	11.30	179.60	2,807.1	-1,898.3	-360.8	-3.6	340.3	0.65	0.65	0.00
2,869.0	10.80	179.60	2,837.5	-1,867.9	-366.8	-3.5	345.9	1.61	-1.61	0.00
2,901.0	10.50	180.70	2,869.0	-1,836.4	-372.7	-3.5	351.5	1.13	-0.94	3.44
2,931.0	10.60	182.30	2,898.4	-1,807.0	-378.2	-3.7	356.6	1.03	0.33	5.33
2,963.0	10.60	184.60	2,929.9	-1,775.5	-384.0	-4.0	362.1	1.32	0.00	7.19
2,994.0	10.80	183.90	2,960.4	-1,745.0	-389.8	-4.5	367.4	0.77	0.65	-2.26
3,026.0	10.60	183.20	2,991.8	-1,713.6	-395.7	-4.8	372.9	0.75	-0.63	-2.19
3,056.0	10.40	183.30	3,021.3	-1,684.1	-401.2	-5.1	377.9	0.67	-0.67	0.33
3,087.0	10.10	184.20	3,051.8	-1,653.6	-406.7	-5.5	383.0	1.10	-0.97	2.90
3,118.0	9.80	184.60	3,082.3	-1,623.1	-412.0	-5.9	388.0	0.99	-0.97	1.29
3,149.0	9.40	183.00	3,112.9	-1,592.5	-417.2	-6.3	392.7	1.55	-1.29	-5.16
3,180.0	9.40	184.20	3,143.5	-1,561.9	-422.2	-6.6	397.4	0.63	0.00	3.87
3,212.0	9.20	181.40	3,175.1	-1,530.3	-427.4	-6.8	402.2	1.55	-0.63	-8.75
3,244.0	9.10	182.40	3,206.7	-1,498.7	-432.5	-7.0	407.0	0.59	-0.31	3.13
3,275.0	8.90	181.40	3,237.3	-1,468.1	-437.3	-7.2	411.5	0.82	-0.65	-3.23
3,306.0	8.60	182.10	3,267.9	-1,437.5	-442.0	-7.3	415.9	1.03	-0.97	2.26
3,338.0	8.70	181.10	3,299.6	-1,405.8	-446.8	-7.4	420.4	0.56	0.31	-3.13
3,370.0	8.40	180.30	3,331.2	-1,374.2	-451.6	-7.5	424.9	1.01	-0.94	-2.50
3,401.0	7.90	178.20	3,361.9	-1,343.5	-456.0	-7.4	429.1	1.88	-1.61	-6.77



Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,433.0	8.00	176.90	3,393.6	-1,311.8	-460.4	-7.3	433.3	0.64	0.31	-4.06
3,464.0	8.10	175.50	3,424.3	-1,281.1	-464.7	-7.0	437.5	0.71	0.32	-4.52
3,494.0	8.30	175.00	3,454.0	-1,251.4	-469.0	-6.6	441.7	0.71	0.67	-1.67
3,524.0	7.90	175.20	3,483.7	-1,221.7	-473.2	-6.3	445.8	1.34	-1.33	0.67
3,555.0	8.00	174.60	3,514.4	-1,191.0	-477.5	-5.9	449.9	0.42	0.32	-1.94
3,585.0	8.20	172.30	3,544.1	-1,161.3	-481.7	-5.4	454.1	1.27	0.67	-7.67
3,616.0	8.60	173.30	3,574.7	-1,130.7	-486.2	-4.8	458.5	1.37	1.29	3.23
3,645.0	9.00	172.80	3,603.4	-1,102.0	-490.6	-4.3	462.8	1.40	1.38	-1.72
3,677.0	9.10	173.00	3,635.0	-1,070.4	-495.6	-3.7	467.8	0.33	0.31	0.63
3,708.0	9.60	171.00	3,665.6	-1,039.8	-500.6	-3.0	472.7	1.92	1.61	-6.45
3,740.0	9.80	171.50	3,697.1	-1,008.3	-505.9	-2.1	478.0	0.68	0.63	1.56
3,770.0	10.00	173.10	3,726.7	-978.7	-511.0	-1.5	483.1	1.13	0.67	5.33
3,802.0	10.00	176.30	3,758.2	-947.2	-516.5	-0.9	488.5	1.74	0.00	10.00
3,833.0	10.20	177.40	3,788.7	-916.7	-522.0	-0.6	493.7	0.90	0.65	3.55
3,865.0	10.40	178.60	3,820.2	-885.2	-527.7	-0.4	499.2	0.92	0.63	3.75
3,893.0	10.40	178.50	3,847.7	-857.7	-532.7	-0.3	504.0	0.06	0.00	-0.36
3,923.0	9.90	181.80	3,877.3	-828.1	-538.0	-0.3	509.0	2.56	-1.67	11.00
3,954.0	9.70	182.80	3,907.8	-797.6	-543.3	-0.5	513.9	0.85	-0.65	3.23
3,984.0	10.20	183.80	3,937.4	-768.0	-548.5	-0.8	518.7	1.76	1.67	3.33
4,016.0	10.90	183.80	3,968.8	-736.6	-554.3	-1.2	524.1	2.19	2.19	0.00
4,047.0	10.90	183.10	3,999.3	-706.1	-560.2	-1.6	529.5	0.43	0.00	-2.26
4,079.0	11.40	182.40	4,030.7	-674.7	-566.3	-1.9	535.3	1.62	1.56	-2.19
4,110.0	11.80	181.50	4,061.0	-644.4	-572.6	-2.1	541.1	1.42	1.29	-2.90
4,140.0	11.90	182.70	4,090.4	-615.0	-578.7	-2.3	546.9	0.89	0.33	4.00
4,172.0	11.40	182.20	4,121.7	-583.7	-585.2	-2.6	552.9	1.59	-1.56	-1.56
4,201.0	11.40	181.90	4,150.2	-555.2	-590.9	-2.8	558.3	0.20	0.00	-1.03
4,253.0	11.10	182.50	4,201.2	-504.2	-601.0	-3.2	567.7	0.62	-0.58	1.15
4,262.0	11.10	182.50	4,210.0	-495.4	-602.8	-3.3	569.3	0.00	0.00	0.00
4,293.0	10.80	183.90	4,240.4	-465.0	-608.7	-3.6	574.8	1.29	-0.97	4.52
4,324.0	10.60	182.80	4,270.9	-434.5	-614.4	-3.9	580.1	0.92	-0.65	-3.55
4,353.0	10.40	183.80	4,299.4	-406.0	-619.7	-4.2	585.0	0.93	-0.69	3.45
4,385.0	10.20	182.80	4,330.9	-374.5	-625.4	-4.6	590.3	0.84	-0.63	-3.13
4,416.0	9.90	183.60	4,361.4	-344.0	-630.8	-4.9	595.3	1.07	-0.97	2.58
4,447.0	9.80	181.90	4,392.0	-313.4	-636.1	-5.1	600.3	0.99	-0.32	-5.48
4,477.0	9.70	182.00	4,421.5	-283.9	-641.2	-5.3	605.0	0.34	-0.33	0.33
4,506.0	9.60	181.40	4,450.1	-255.3	-646.0	-5.4	609.6	0.49	-0.34	-2.07
4,536.0	9.60	180.90	4,479.7	-225.7	-651.0	-5.5	614.3	0.28	0.00	-1.67
4,567.0	9.20	181.10	4,510.3	-195.1	-656.1	-5.6	619.0	1.29	-1.29	0.65
4,598.0	9.10	181.20	4,540.9	-164.5	-661.0	-5.7	623.6	0.33	-0.32	0.32
4,629.0	9.20	181.40	4,571.5	-133.9	-665.9	-5.8	628.3	0.34	0.32	0.65
4,660.0	9.10	181.80	4,602.1	-103.3	-670.9	-6.0	632.9	0.38	-0.32	1.29
4,692.0	9.10	181.90	4,633.7	-71.7	-675.9	-6.1	637.6	0.05	0.00	0.31
4,723.0	9.00	183.10	4,664.3	-41.1	-680.8	-6.3	642.2	0.69	-0.32	3.87



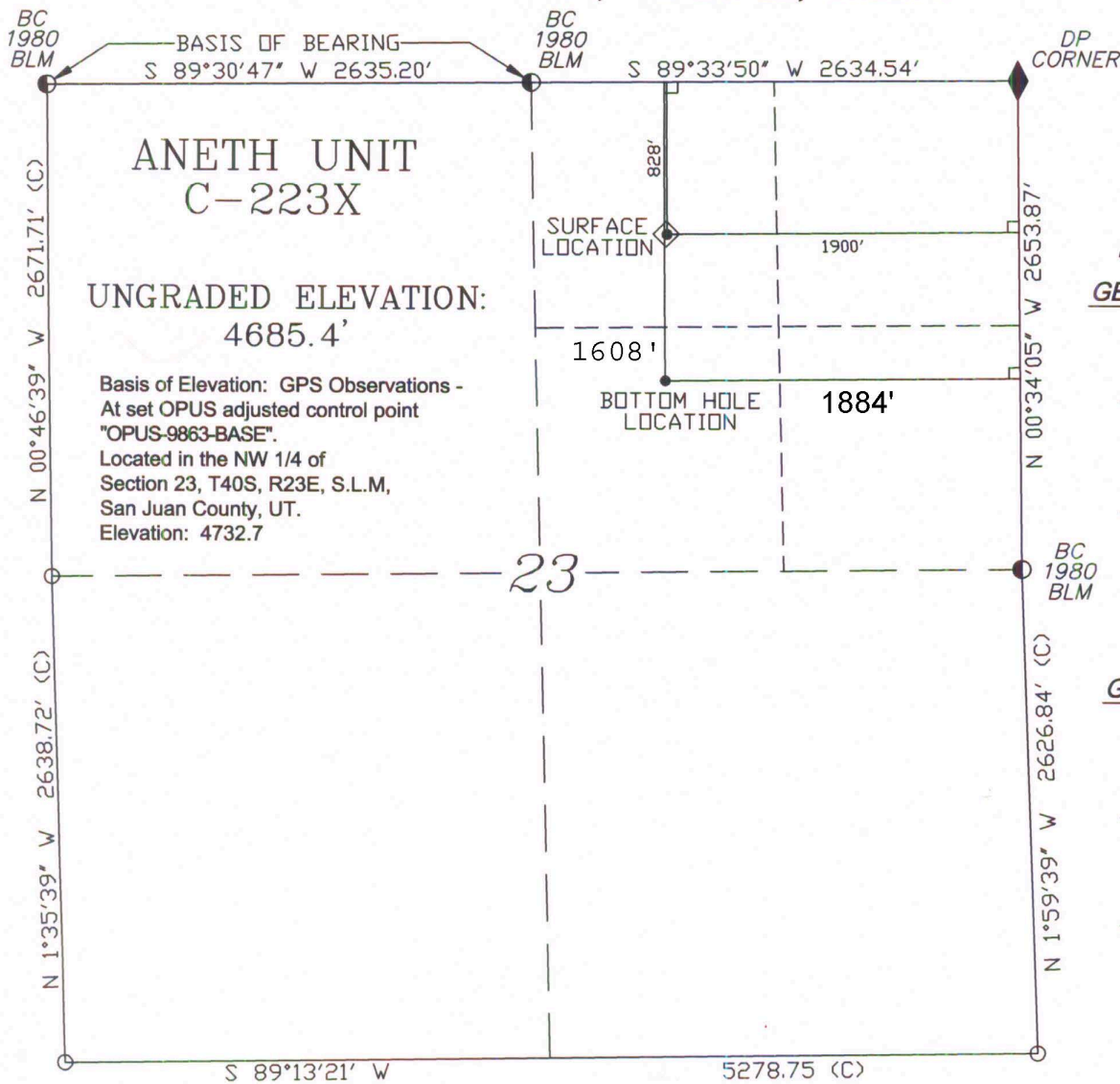
Company:	Resolute Natural Resources	Local Co-ordinate Reference:	Well Aneth Unit C-223X
Project:	San Juan County, UT (Nad 83)	TVD Reference:	Est RKB @ 4705.4usft (D&J 1)
Site:	Sec 23, T40S, R23E	MD Reference:	Est RKB @ 4705.4usft (D&J 1)
Well:	Aneth Unit C-223X	North Reference:	True
Wellbore:	DD	Survey Calculation Method:	Minimum Curvature
Design:	Final	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	Subsea (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,754.0	8.90	182.00	4,694.9	-10.5	-685.6	-6.6	646.7	0.64	-0.32	-3.55
4,785.0	8.70	181.70	4,725.6	20.2	-680.4	-6.7	651.1	0.66	-0.65	-0.97
4,817.0	8.60	182.30	4,757.2	51.8	-695.2	-6.9	655.6	0.42	-0.31	1.88
4,848.0	8.20	184.10	4,787.9	82.5	-699.7	-7.1	659.8	1.54	-1.29	5.81
4,880.0	8.00	182.40	4,819.5	114.1	-704.2	-7.4	664.0	0.98	-0.63	-5.31
4,909.0	7.60	183.50	4,848.3	142.9	-708.1	-7.6	667.6	1.47	-1.38	3.79
4,941.0	7.60	183.80	4,880.0	174.6	-712.3	-7.9	671.5	0.12	0.00	0.94
4,972.0	7.60	181.50	4,910.7	205.3	-716.4	-8.0	675.3	0.98	0.00	-7.42
5,003.0	7.60	182.30	4,941.4	236.0	-720.5	-8.2	679.2	0.34	0.00	2.58
5,034.0	7.50	182.50	4,972.2	266.8	-724.6	-8.3	683.0	0.33	-0.32	0.65
5,065.0	7.10	183.50	5,002.9	297.5	-728.5	-8.6	686.6	1.35	-1.29	3.23
5,097.0	6.90	183.70	5,034.7	329.3	-732.4	-8.8	690.2	0.63	-0.63	0.63
5,128.0	6.90	182.10	5,065.5	360.1	-736.2	-9.0	693.7	0.62	0.00	-5.16
5,169.0	6.50	183.10	5,106.2	400.8	-740.9	-9.2	698.1	1.02	-0.98	2.44
5,190.0	6.30	183.00	5,127.1	421.7	-743.3	-9.3	700.3	0.95	-0.95	-0.48
5,222.0	6.50	185.40	5,158.9	453.5	-746.8	-9.6	703.6	1.04	0.63	7.50
5,253.0	6.80	184.70	5,189.6	484.2	-750.4	-9.9	706.9	1.00	0.97	-2.26
5,285.0	6.90	183.70	5,221.4	516.0	-754.2	-10.2	710.4	0.49	0.31	-3.13
5,316.0	6.80	185.40	5,252.2	546.8	-757.9	-10.5	713.8	0.73	-0.32	5.48
5,348.0	5.50	185.60	5,284.0	578.6	-761.3	-10.8	716.9	4.06	-4.06	0.63
5,379.0	5.10	184.50	5,314.9	609.5	-764.2	-11.1	719.5	1.33	-1.29	-3.55
5,410.0	5.20	183.90	5,345.8	640.4	-766.9	-11.3	722.1	0.37	0.32	-1.94
5,441.0	4.80	184.50	5,376.6	671.2	-769.6	-11.5	724.5	1.94	-1.94	1.94
5,471.0	3.40	183.90	5,406.6	701.2	-771.7	-11.6	726.4	4.00	-4.00	-2.00
5,501.0	2.60	189.10	5,436.5	731.1	-773.2	-11.8	727.9	2.81	-2.67	17.33
5,532.0	2.10	195.40	5,467.5	762.1	-774.5	-12.0	729.0	1.81	-1.61	20.32
5,562.0	2.30	192.30	5,497.5	792.1	-775.6	-12.3	729.9	0.78	0.67	-10.33
5,580.0	1.40	225.90	5,515.5	810.1	-776.1	-12.5	730.3	7.63	-5.00	186.67
Extrap to Bit;5630' MD										
5,630.0	0.90	225.90	5,565.5	860.1	-776.8	-13.3	730.8	1.00	-1.00	0.00
Extrap to TD;5889.96' MD										
5,889.9	0.90	225.90	5,825.4	1,120.0	-779.6	-16.2	732.5	0.00	0.00	0.00

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
5,630.0	5,565.5	-776.8	-13.3	Extrap to Bit;5630' MD	
5,889.9	5,825.4	-779.6	-16.2	Extrap to TD;5889.96' MD	

Checked By: _____ Approved By: _____ Date: _____

T. 40 S., R. 23 E., S.L.M.



SCALE: 1" = 1000'

GEO. SURFACE VALUES

LATITUDE (NAD 83)
 NORTH 37.2998212°
LONGITUDE (NAD 83)
 WEST 109.3559137°
LATITUDE (NAD 27)
 NORTH 37.2998222°
LONGITUDE (NAD 27)
 WEST 109.3552414°

NORTHING
 Y = 237691.54
EASTING
 X = 2623823.68

GEO. BOTTOM HOLE VALUES

LATITUDE (NAD 83)
 NORTH 37.2976449°
LONGITUDE (NAD 83)
 WEST 109.3560020°
LATITUDE (NAD 27)
 NORTH 37.2976460°
LONGITUDE (NAD 27)
 WEST 109.3553297°

NORTHING
 Y = 236898.79
EASTING
 X = 2623816.15

DATUM
 UTAH SP SOUTH (1927)



I certify that this as-built plat on the Aneth Unit C-223X, indicates the correct BHL to the best of my knowledge.
 Sherry Glass

LEGEND

- ◆ PROPOSED WELL LOCATION
- BOTTOM HOLE LOCATION
- FOUND MONUMENT
- ◆ DOUBLE PROPORTION SECTION CORNER
- CALCULATED POSITION
- L DENOTES 90° TIE
- (C) CALCULATED

[Signature]
 UTAH PLS No. 7219139-2201



EXHIBIT A

<p>UNITED FIELD SERVICES INC.</p>		<p>PLAT OF PROPOSED WELL LOCATION FOR RESOLUTE NATURAL RESOURCES COMPANY</p>
P.O. BOX 3651 FARMINGTON, N.M. (505) 334-0408	SCALE: 1" = 1000'	<p>SURFACE: 828' F/NL & 1900' F/EL BOTTOM HOLE: 1621' F/NL & 1915' F/EL, SECTION 23, T. 40 S, R. 23 E, SALT LAKE MERIDIAN SAN JUAN COUNTY, UTAH</p>
	JOB No. 10421	
	DATE: 01/14/13	



End of Well Coring Report

RESOLUTE ENERGY CORPORATION

Aneth Field C223

San Juan County, Utah

Prepared By

Fraser Salmon

October 3rd, 2013

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Core Job Summary..... 3

QuickCapture Run Data..... 3

Coring Breakdown 4

Corrective Action..... 4

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General Information

Customer: Resolute Energy Corp.

Date: September 15th to 22nd, 2013

Well Name: Aneth Field C223

County: San Juan County, Utah

Drilling Contractor: D&J #1

Formation: Desert Creek

Coring FSE's: Brad Penner & Nick Golovanoff

Coring Assembly:

QuickCapture FSE's: Trenton Mullin & Tim Goerz

Barrel: CC 76 QuickCapture 5.5" x 3" x 60'

Core Bit: DC 613L – S/N#1185 (6.125" x 3")

Executive Summary

The primary objective of the well was to use Corpro's QuickCapture™ pressure core system to conventionally core approximately 30 feet of the Desert Creek formation in three different 10 foot intervals maximizing core recovery and quality while collecting in-situ gases and liquids. The secondary objective of the coring program was to obtain high quality full gauge core samples while minimizing core damage. Well specific operations and coring parameters have been tailored to optimize core recovery in the Desert Creek Formation. A summary of the coring operations are provided below.

Core Job Summary

Core	Depth In (ft)	Depth Out (ft)	Cored/Drilled (ft)	Recovered (ft)	Recovery %	Time (hrs)	ROP (ft/hr)	Bit Type	Formation
#1	5698	5708	9.5	7.1	70.8	.88	11.36	DC613QLCAP	Desert Creek
#2	5735	5745	9.5	4.3	43.0	.5	20.0	DC613QLCAP	Desert Creek
#3	5770	5780	9.5	9.0	90.0	.68	14.7	DC613QLCAP	Desert Creek
		Total	28.5	20.4	71.5	2.06	14.56		

QuickCapture Run Data

Pressure Core	Component	Serial Number	Surface Pressure (psi)	Time
#1	Barrel	22075	175	04:12
	Canister	22066	20	04:18
#2	Barrel	22071	33.5	09:45
	Canister	22064	4*	09:50
#3	Barrel	22048	306	13:15
	Canister	22072	11*	13:20

* Indicates pressure reading from analog gauge because transducer turned off due to low pressure readings



Coring Breakdown

Core #1: The QuickCapture pressure core system was utilized for the first 9.5 foot coring run in the Desert Creek Formation from 5698.0ft to 5707.5ft and 7.1ft of core was recovered for a 74.7% recovery rate. The average rate of penetration (ROP) was 10.8ft/hr. The QuickCapture system properly activated and fluid samples from the core were retrieved in both the barrel and canister. At surface, the barrel was shut in and registered 175psi while the canister registered 20psi.

Core #2: The QuickCapture pressure core system was utilized for the second 9.5 foot coring run in the Desert Creek Formation from 5735.0ft to 5744.5ft and 4.3ft of core was recovered for a 45.2% recovery rate. The average ROP was 19.0ft/hr. The low recovery rate indicates a jam at the bit face at ~5740.0', the remainder of the coring interval was milled away. The QuickCapture system properly activated and fluid samples from the core were retrieved from both the barrel and canister. At surface, the barrel was shut in and registered 33.5psi while the canister registered 4 psi.

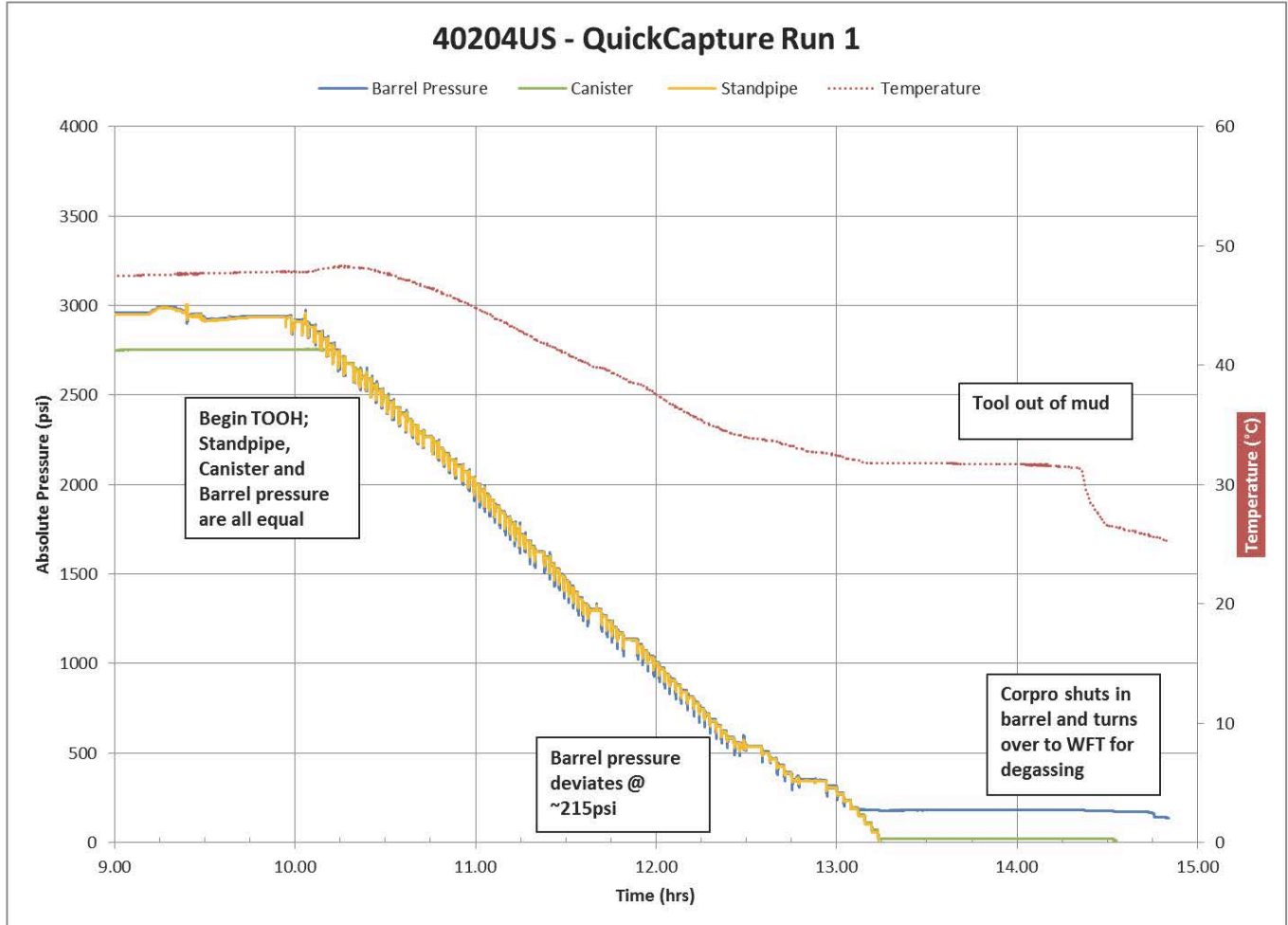
Core #3: The QuickCapture pressure core system was utilized for the third 9.5 foot coring run in the Desert Creek Formation from 5770.0ft to 5779.5ft and 9.0ft of core was recovered for a 94.7% recovery rate. The average ROP was 14.6ft/hr. The QuickCapture system properly activated and fluid samples from the core were retrieved from the barrel and canister. At surface, the barrel was shut in and registered 306psi while the canister registered 11psi. A transducer failure occurred on the canister, giving inaccurate pressure readings on the trip back to surface.

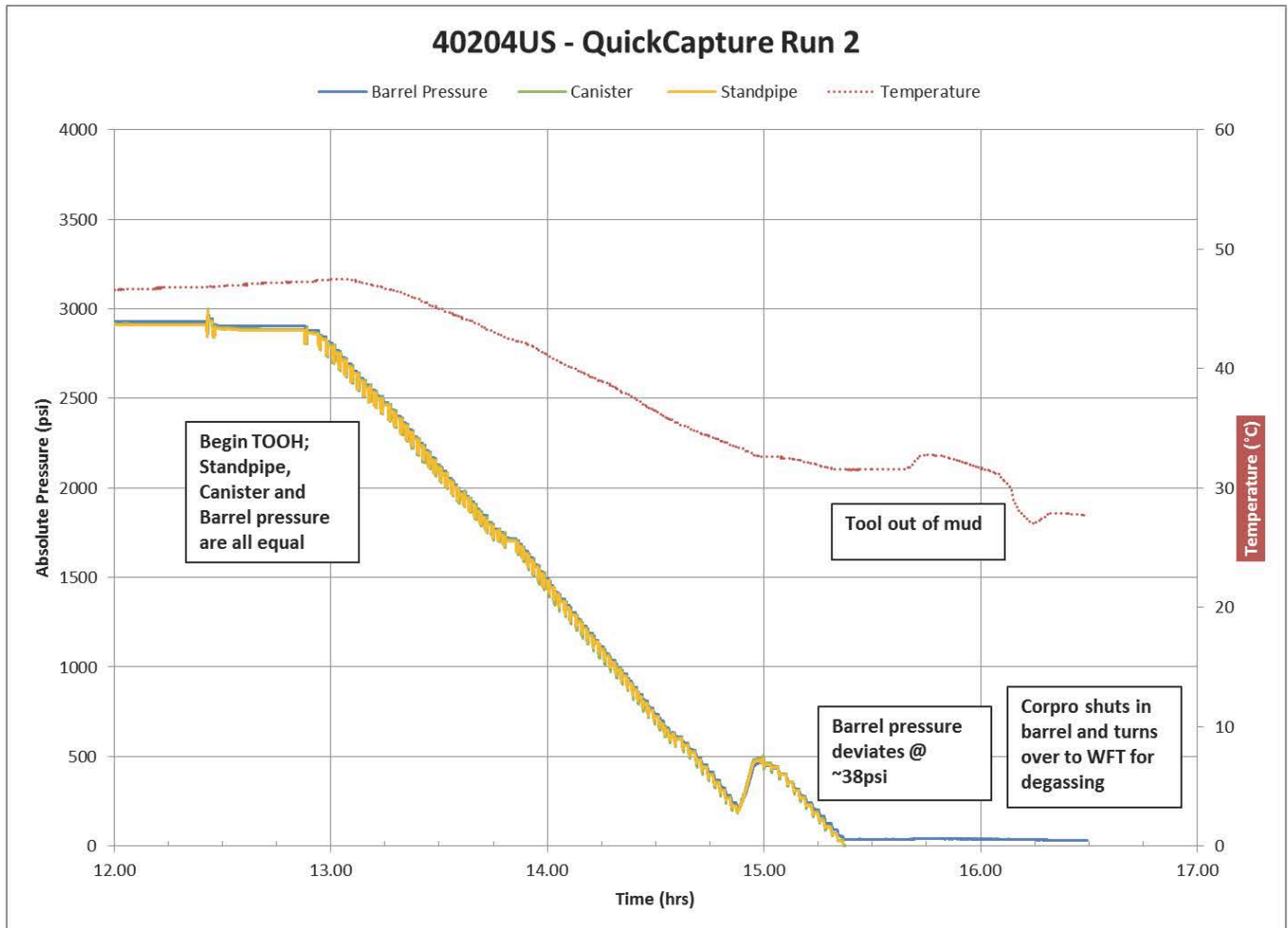
Corrective Action

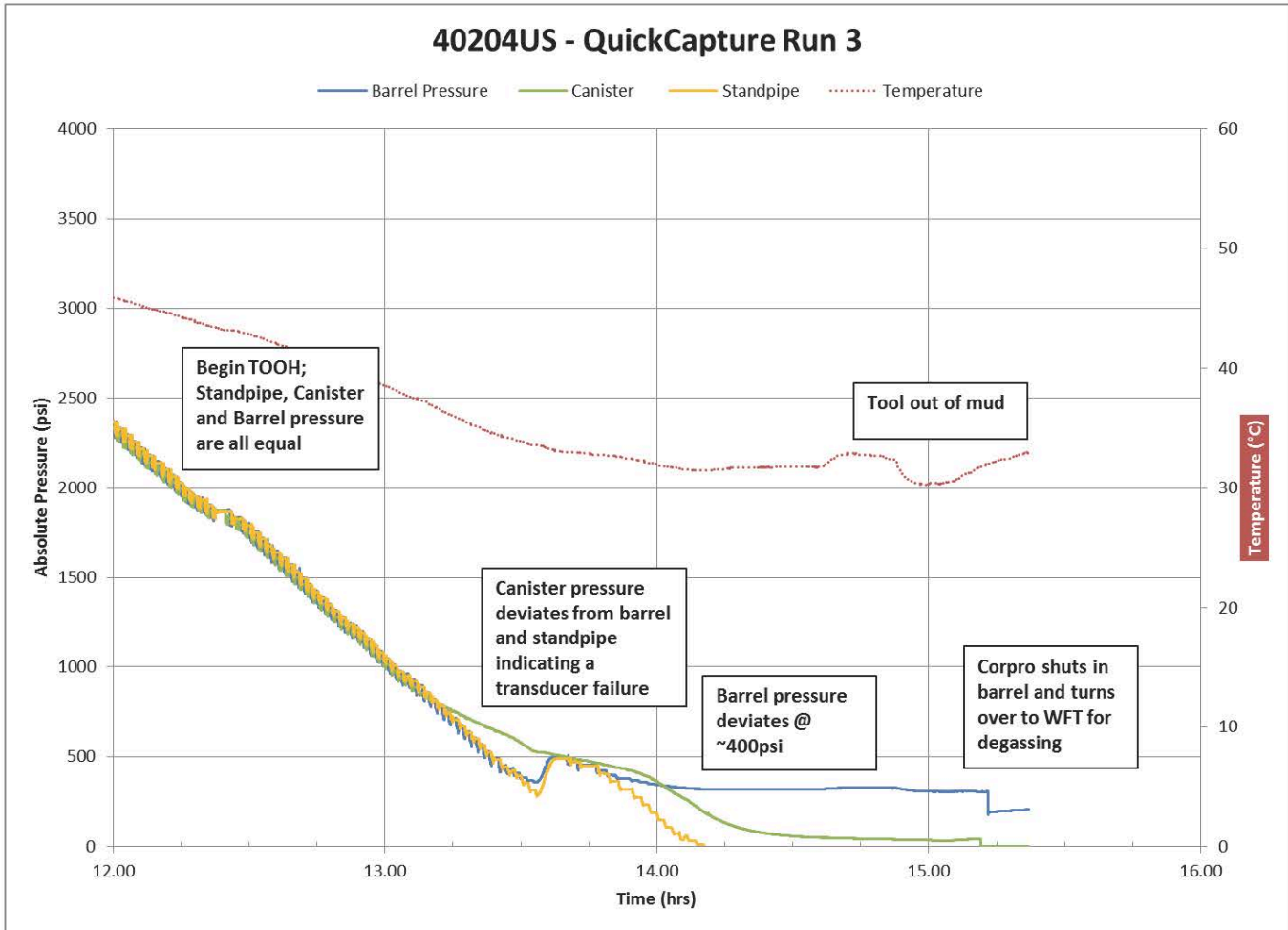
- The failed transducer on the canister from Run #3 has been pulled out of service and sent for repair and calibration. All transducers are currently tested on location before RIH so the failure occurred once the transducer was in use down hole.
- There was an ROP change from 1-2ft/min to 4-5ft/min at 5740ft on Run #2. The coring engineer assumed that the ROP change was due to a change in formation rather than a jam at the bit face. Going forward the coring engineer should communicate with Geology to pin point formation changes that will take place in a coring interval as well as expected ROP's for each formation. Knowing this relevant information can help distinguish a jam from a formation change.



Appendix – QuickCapture Pressure and Temperature Plots







Resolute

Schematic & Summary

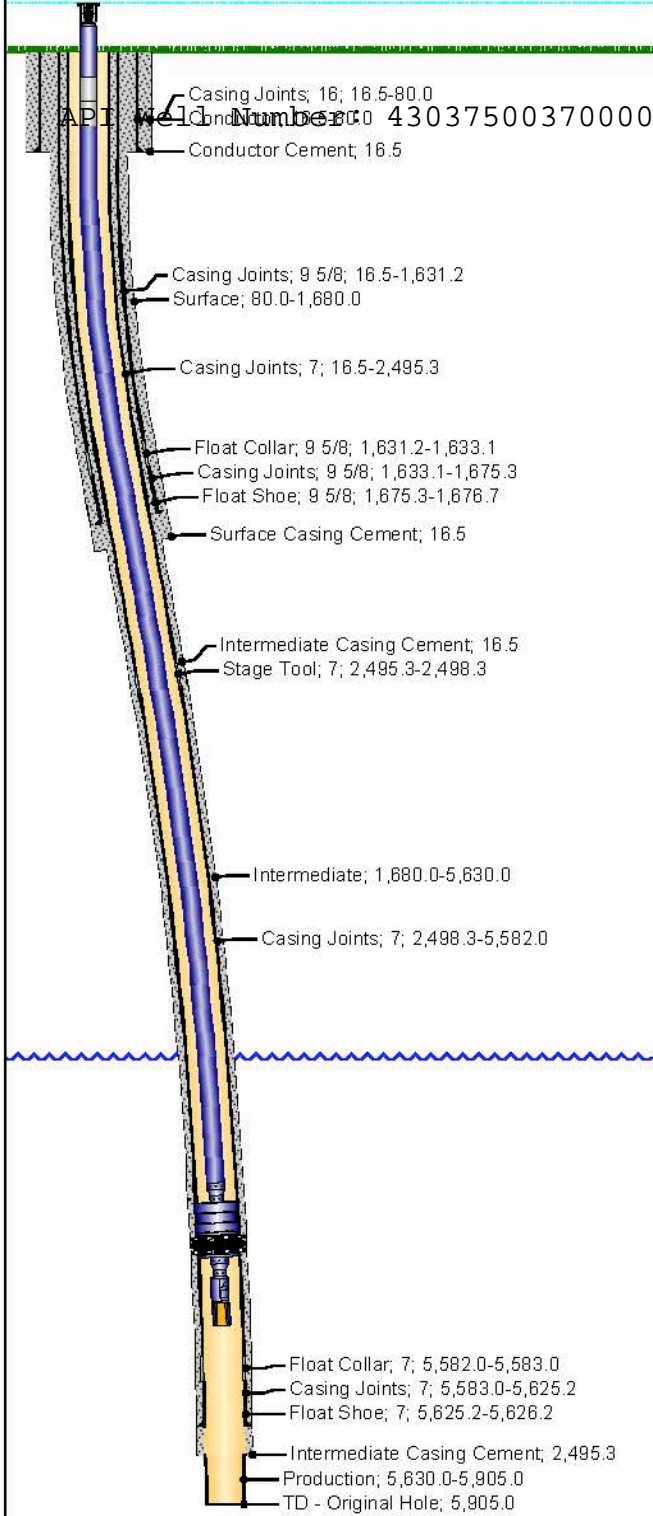
Well Name: C223X Aneth Unit

Well Information

API Number 4303750037	Enertia ID# 08964	Field Name Aneth	Original KB Elevation (ft) 4,680.30	Ground Elevation (ft) 4,663.80	KB-Grd (ft) 16.50
Asset Group Greater Aneth	County San Juan	State/Province Utah	Qtr/Ctr SWNE	North/South Distance (ft) 828.0	North/South Reference FNL
Latitude (°) 0° 37' 0" N	Longitude (°) 1° 49' 0" E	Section 23	Township 40S	Block 23E	Range 23E
Permit Approval Date 7/9/2013	Regulatory Spud Date 9/2/2013	Total Depth Date 9/22/2013	Rig Release Date/Time 9/24/2013	First Production Date	Abandon Date/Time

Deviated - Original Hole, 12/31/2013 7:16:27 AM

Directional schematic (actual)



Wellbore Information

Original Hole

Start Depth (ftKB)	Total Depth (ftKB)	Kick-Off Depth (ftKB)	Kick-Off Method
	5,905.00		Steerable Motor
Section Description	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Conductor	20	16.5	80.0
Section Description	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Surface	12 1/4	80.0	1,680.0
Section Description	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Intermediate	8 3/4	1,680.0	5,630.0
Section Description	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Production	6 1/8	5,630.0	5,905.0

Casing Information

Casing Description	Set De...	Run Date/Time	OD (in)	ID (in)	WtLen...	String Grade	Top Thread
Conductor	80.0	8/13/2013	16	15.250	65.00	H-40	Top Thread
Casing Description	Set De...	Run Date/Time	OD (in)	ID (in)	WtLen...	String Grade	Top Thread
Surface	1,676.7	9/5/2013	9 5/8	8.921	36.00	J-55	ST&C
Casing Description	Set De...	Run Date/Time	OD (in)	ID (in)	WtLen...	String Grade	Top Thread
Intermediate	5,626.2	9/15/2013	7	6.276	26.00	J-55	LT&C

Cement Information

Description	Conductor Cement
Top Depth (ftKB)	Bottom Depth (ftKB)
16.5	80.0
Fluid Type	Amount (sacks)
Description	Surface Casing Cement
Top Depth (ftKB)	Bottom Depth (ftKB)
16.5	1,680.0
Fluid Type	Amount (sacks)
Lead	425
Fluid Type	Amount (sacks)
Tail	190
Description	
Top Depth (ftKB)	Bottom Depth (ftKB)
2,495.3	5,630.0
Fluid Type	Amount (sacks)
Lead	330
Fluid Type	Amount (sacks)
Tail	100
Top Depth (ftKB)	Bottom Depth (ftKB)
16.5	2,495.3
Fluid Type	Amount (sacks)

Perforations Information

Date	Top (ftKB)	Btm (ftKB)	Zone	Entered Shot...	Current Status
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Stimulations Information

Date	Type	Zone	Proppant Fr...
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Tubing Information

Tubing Description	Set Depth (ftKB)				
Tubing - Injection	5,483.7				
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Tubing Hanger / nipple	2 7/8				1.16
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Tubing / TK / KC coupling	2 7/8	2.441	6.50	J-55	32.56
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Tubing Pup Joint	2 7/8				10.05
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Tubing Pup Joint	2 7/8				6.12
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Tubing / TK / KC coupling	2 7/8	2.441	6.50	J-55	5,431.91
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Cross Over	2 7/8				0.62
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
On-Off Tool / 1.81 F	7				1.77
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Packer 1-x	7	2.441			7.45
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Cross Over	2 7/8				0.62
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Profile Nipple / 1.78 R	2 7/8	1.780			1.00
Item Description	OD (in)	ID (in)	Wt (lb/ft)	Grade	Length (ft)
Wireline Guide	2 7/8				0.40

Schematic & Summary

Resolute

Well Name: C223X Aneth Unit

Well Information

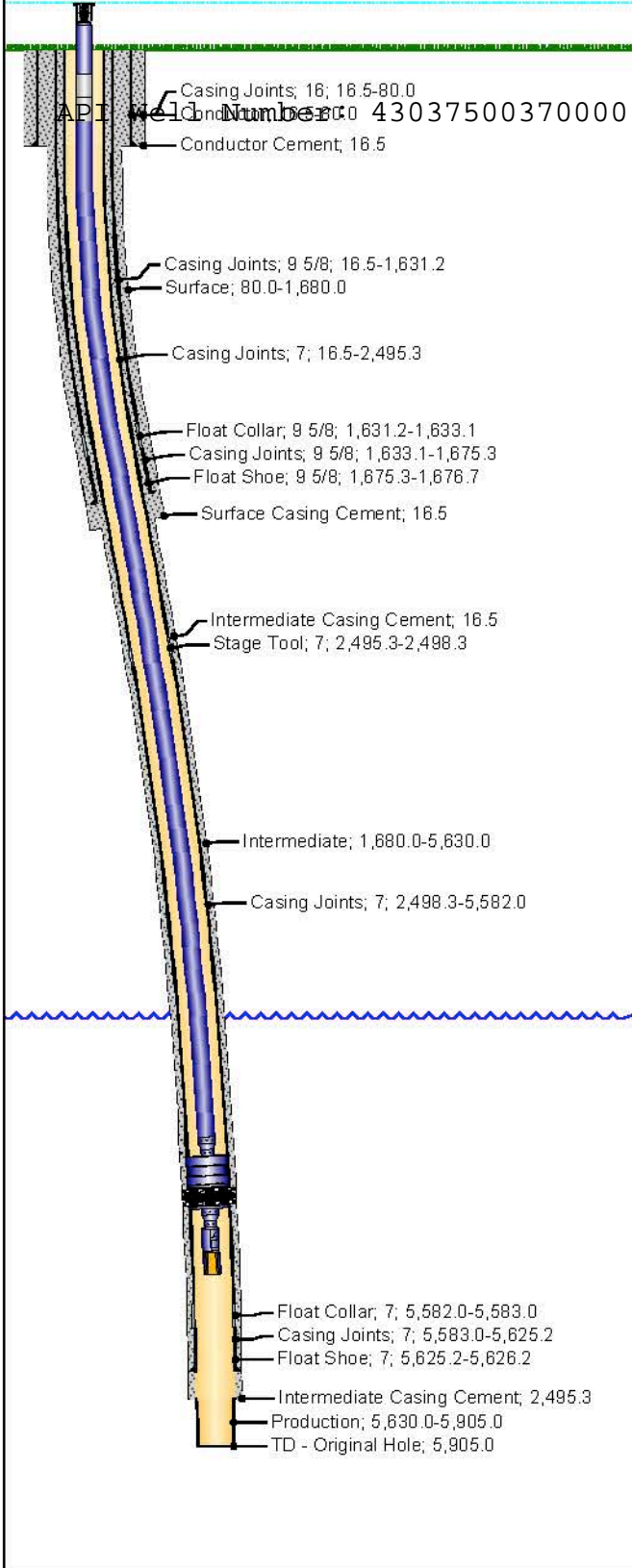
API Number 4303750037		Enertra ID# 08964		Field Name Aneth		Original KB Elevation (ft) 4,680.30		Ground Elevation (ft) 4,663.80		KB-Grd (ft) 16.50	
Asset Group Greater Aneth		County San Juan		State/Province Utah		Qtr/Ctr SWNE		North/South Distance (ft) 828.0		North/South Reference FNL	
Latitude (°) 0° 37' 0" N		Longitude (°) 1° 49' 0" E		Section 23		Township 40S		Block		Range 23E	
Permit Approval Date 7/9/2013		Regulatory Spud Date 9/2/2013		Total Depth Date 9/22/2013		Rig Release Date/Time 9/24/2013		First Production Date		Abandon Date/Time	

Deviated - Original Hole, 12/31/2013 7:16:27 AM

Directional schematic (actual)

Rod Components

Item Description	OD (in)	Wt (lb/ft)	Grade	Length (ft)
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Daily Activity Summary

Well Name: C223X Aneth Unit

API Number 4303750037	Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
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Ground Elevation (ft) 4,663.80	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)	Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00
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Job Category Drilling & Completion	Primary Job Type Drilling & Completion Original
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Start Date 9/1/2013	End Date
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Objective
Drill and complete a vertical injector.

Contractor D&J	Rig Number 1	Rig on Report Date 9/1/2013	Rig off report date 9/24/2013
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Contractor TOPPS	Rig Number 6	Rig on Report Date 9/27/2013	Rig off report date 10/21/2013
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Contractor Teffeller	Rig Number	Rig on Report Date 12/13/2013	Rig off report date 12/13/2013
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Report Number	Start Date	End Date	Summary
1	8/6/2013	8/6/2013	Engineering Consultant Services
2	8/12/2013	8/12/2013	Set and test 4 anchors to 25K, test ok, installed 4 anchor tags
3	9/1/2013	9/2/2013	Safety meeting with M&R Trucking, Move rig F/AU C-123 - T/AU C-223X, Spot in and R/U equipment, Raise derrick @ 11:30, Weld flange on 16" conductor casing, N/U 13 5/8" annular stack and function test same, Drlg mouse and rat hole
4	9/2/2013	9/3/2013	Finish drlg mouse and rat hole, MU 12.25" bit, 8" motor, MWD tools & orientate, tag cement @ 94', Drlg 12.25" surface hole F/94' - T/675'.
5	9/3/2013	9/4/2013	Drlg 12.25" surface hole F/675' - T/845', Mud motor not giving build necessary to follow directional plan, Circulate and W.O.O from engineer, TOOH F/845', L/D 2 - 8" DC's, 8" shock sub and mud motor, P/U new motor set 2.42 bend, M/U new Security 12.25" bit, orientate directional tools, TIH no fill, Drlg F/845' - T/1046', Rig repair (Shale shaker), POOH to 90', Rig repair (Shale shaker)
6	9/4/2013	9/5/2013	Rig repair, TIH (No fill), Drlg F/1046' - T/1291', Rig service, Drlg F/1291' - T/1601'
7	9/5/2013	9/6/2013	Drlg F/1601' - T/1680' (TD), Circulate, Flow check (no flow), Short trip to 900' (No fill), TOOH, L/D directional BHA, R/U casing crew and run 40 jts 9 5/8" 36#, J55 set at 1676.7', Cement surface casing, Plug did not bump after 2.5 bbls past calculated displacement, Check floats (Hold), 70 bbls cement circulated to surface, Shut in cement head, WOC, Cement fell back to 45', Pump 7 bbls on mouse and rat hole on the AU C123, Spot in Zeco closed loop equipment., Top out cement w/3.8 bbl ,Cement top @ 45', N/D 13 5/8" annular stack, Rough cut 9 5/8" surface casing.
8	9/6/2013	9/7/2013	ND annular, cut off conductor casing. Final cut surface casing, weld on wellhead type 11" x 3000, C22 bowl. NU 11" BOP, annular, rotating head and stinger to choke, R/U gas buster, Pre fab 8" manifold to ZECO shale shakers and tie in 8" flow line. Pressure test 11" BOPE. Cut 120' drlg line, P/U 8 3/4" directional BHA.
9	9/7/2013	9/8/2013	Wait on jet nozzles for Security bit. Lay out & PU directional BHA, orintate MWD tools. TIH, tag cement @ 1622', float collar @ 1631'. Trouble shoot 4 1/16" HCR valve. Undetermined if HCR valve actually opened during BOPE pressure testing operations. TOOH to replace 4 1/16" HCR valve. ND & remove 4 1/16" HCR valve. WO 4 1/16" HCR to be delivered from town. Transfer mud from rig & closed-loop mud tanks to frac tanks on location. Fill mud tanks with PDS mud transferred from Aztec rig 920. NU 4 1/16" HCR valve & hook up choke flex hose. Pressure test HCR and choke manifold. TIH tag cement 1622', Drl 8 3/4" shoe track, 13' good cement in shoe joint. Drlg formation F/1680' - T/1706'. Closed-loop generator went down. Pulled bit up into surface shoe. Shut the job down until ZECO is able to supply qualified hands on location.
10	9/8/2013	9/9/2013	Replacement generator showed up @ 08:30, still waiting on ZECO for experienced/qualified personal to arrive on location. Circulate and condition mud in mud pits. Drlg formation F/1706' - T/2621'.
11	9/9/2013	9/10/2013	Drlg F/2621' - T/3696'
12	9/10/2013	9/11/2013	Drlg F/3696' - T/4271'
13	9/11/2013	9/12/2013	Drlg F/4271' - T/4959'
14	9/12/2013	9/13/2013	Drlg F/4271' - T/5303', Rig service, Drlg F/5303' - T/5493'
15	9/13/2013	9/14/2013	Drlg F/5493' - T/5630' (TD), Circulate, pump 2 high vis sweeps, Flow check (No flow), TOOH, L/D directional tools, TIH w/clean out assembly, Tag fill @ 5580', Work tight hole, Ream F/5514' T/5630', Circulate pump sweeps, Short trip.
16	9/14/2013	9/15/2013	Continue short trip, POOH F/5630' - T/4399', TIH no fill, TOOH F/logs, Run logs, TIH, Circulate, LDDP & BHA, XO pipe rams, R/U csg crew, Run 25 jts - 7" 26#, J-55, LT&C casing.
17	9/15/2013	9/16/2013	Finish run 7" Int csg set @ 5626.2. Cement first stage, bump plug @ 14:50 on 9/15/2013. FCP 950 psi, bled back 1.25 bbl. Open Stage tool @ 578 psi. Circ 25 bbls cement to pit, circulate between stages. Cement 2nd stage, bump plug @ 20:11 on 9/15/2013. FCP 640 psi, close stage tool, check floats, bled back .75 bbl. Circ 17 bbls cement to surface. ND BOP's, set 7" casing slips w/ 95K. Install 11" 3M x 7-1/16" 5M "B" section, test secondary seal to 2500 psi, (held OK). NU 7-1/16" BOPE, pressure test BOPE.
18	9/16/2013	9/17/2013	Test BOPE, weld 8" flow line. PU 6-1/8" BHA, PU 3-1/2" DP. TIH, tag drill cement & DV tool F/2496' T/2530'. Pressure test casing T/1500 psi, TIH.
19	9/17/2013	9/18/2013	TIH, tag & drl cement and FC F/5584' T/5602'. TIH w/ wireline tools. Condition mud to weight up from 9.2 lbs T/10.0 lbs. Drill 6-1/8" hole section F/5630' T/5692'.



Daily Activity Summary

Well Name: C223X Aneth Unit

API Number	Section	Township	Range	Field Name	County	State/Province
4303750037	23	40S	23E	Aneth	San Juan	Utah
Ground Elevation (ft)	Casing Flange Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	Regulatory Spud Date	Rig Release Date/Time	
4,663.80		16.50		9/2/2013 10:00	9/24/2013 06:00	
Report Number	Start Date	End Date	Summary			
20	9/18/2013	9/19/2013	Circulate condition hole, drill 6-1/8" hole F/5692' T/5698'. TOOH, LD 6-1/8" BHA. MU 4.50" core BHA. TIH, drill core F/5688' T/5708'. Run wireline in drill string pull plug. TOOH w/ wireline, TIH w/ wireline, pull core barrel w/core to second core barrel. TOOH w/ core. LD core BHA. Rig Service, MU 6-1/8" BHA, TIH.			
21	9/19/2013	9/20/2013	TIH 6-1/8" BHA, drill 6-1/8" hole F/5708' T/5735', TOOH. MU core BHA, TIH, core F/5735' T/5745'. MU and run wireline.			
22	9/20/2013	9/21/2013	TOOH, Lay down 4.50" Core #2, M/U 6-1/8" BHA, TIH, Drill 6-1/8" hole section F/5745' T/5770', TOOH, M/U 4.50" Core BHA, TIH, Ream 15' of fill.			
23	9/21/2013	9/22/2013	Continue to ream to bottom @ 5770', Circulate, Core F/5770' - T/5780, POOH to intermediate csg shoe, R/U run Wire line in DP to pull pressure relief valve, Trip back in hole to pull core barrel up to second pressure barrel, TOOH L/D core tools, TIH, Drig F/5780' - T/5860'			
24	9/22/2013	9/23/2013	Drig F/5860' - T/5905', Circulate & pump sweep. POOH to intermediate casing shoe. Transfer mud to frac tanks, transfer 10# brine water to mud pits. TIH no fill, displace hole w/10# brine water. TOOH flogs, log well with Baker.			
25	9/23/2013	9/24/2013	Finish logging operations, RD Baker wire line, RU Bluejet. Run and set Baker 7" RBP @ 5471'. RD Bluejet, TIH, LDDP & BHA, ND BOPE. Rig down all equipment. Prep to move rig from AU C223X - T/RU 20-42H. Rig released @ 06:00 on 9-24-13.			
26	9/24/2013	9/25/2013	Move rig.			
27	9/27/2013	9/27/2013	Move in and rig up.			
28	9/28/2013	9/28/2013	Pick up workstring. Retrieve RBP, TOOH with RBP and gauges. TIH with bit to TD @ 5905', no fill.			
29	9/30/2013	9/30/2013	Tooh with bit, tih with packer, make caustic sweep, flush out of hole.			
30	10/1/2013	10/1/2013	Acidize open hole with 3500 gals 20% acid, shut down 2 hrs. Pump 10# brine.			
31	10/2/2013	10/2/2013	Tooh with treating packer, tih with injection packer, set @ 5500', test @ 1010 psi lost pressure. Tooh, pick up packer, tih, set packer @ 2508', test to 5500', good, test to surface, bad.			
32	10/3/2013	10/3/2013	Circulate f/w, test casing, good. Circulate packer fluid, test casing, bad. Isolate leak 2445 to 2588'. DV tool @2482'.			
33	10/4/2013	10/4/2013	Prep well for cement.			
34	10/5/2013	10/5/2013	Cement squeeze DV tool @2482'			
35	10/7/2013	10/7/2013	Drill out cement.			
36	10/8/2013	10/8/2013	Test casing, good. Pull rbp, lay down tubing.			
37	10/9/2013	10/9/2013	Pick up TK injection tubing, circulate packer fluid. Land tubing. Nd bops. Pressure test casing, good. Install tree.			
38	10/10/2013	10/10/2013	Test casing and tubing. Retrieve plug from packer. Rig down, move off.			
39	10/11/2013	10/11/2013	Tbg at 650#, Csg at 0#, BH at 0#. Move in Well Check MIT tester, connect to csg. Pump pressure to 1010#, shut down and let Chart Record for 30 min, no leaks, pass MIT test. Witnessed by NNEPA Rep. Leroy Lee. Disconnect from csg, move off location. RE: C-223X is ready for flowing well/H2O injection once flowline/lateral line is connected to well head.			
40	10/21/2013	10/21/2013	RIH w/1 1/4: CT w/Basic CT nozzle. RIH to 5,633 (7" csg @ 5,626'). (Cleaned out w/6 1/8" to 5,905') Could not get past 5,633'. SD N2 and start wtr. Could not get past 5,633'. POOH w/CT. Bend CT to the North. Change out gasket. RIH w/CT to 5,906. (PBDT). CO. Getting back light gunk. No solids. After N2 quit, very light flow. POOH w/CT.			
41	11/23/2013	11/23/2013	Azeotrope / Methanol Multi phase cleaning, dean stark water and oil saturations, routine core analsis			
42	12/11/2013	12/11/2013	SITP 150 psig, SICP 2,450 psig. Changed gauge to make sure of press. MIRU Tefeller (Adrian). RIH w/1.80 gauge ring and tgd profile nipple @ 5,497' WL depth. Bumped on-off @ 5,487'. POOH w/GR. RIH w/C1 running tl w/178R plug. Shear off, POOH. NU flowline to Frac Tank #258107. BD csg 2,450 psig to 0 psig in 15 seconds through choke. Small amt of oil flowed fr csg. Opened up tbg, puff of press. Tbg had a small flow, then quit. Sample of fluid to begin with looked like pkr fluid. RDMO Tefeller. After 45 min, still 0 psig on tbg and csg.			
43	12/12/2013	12/12/2013	SITP 0 psig, SICP 0 psig. Tbg has a slight flow. Get diesel to the csg valve. Press csg to 1,000 psig. Tbg flow did not increase. Leave csg @ 1,000 psig. Did not have drop in 30 min. Did not get any sign of red diesel from tbg after 1 hr.			
44	12/13/2013	12/13/2013	SITP 0 psig, SICP 750 psig, (pressure was left on csg). Press tbg to 2,700 psig, chart - held steady. BD tbg. Press csg to 1,000 psig - held steady. Did not communicate w/tbg. BD csg. MIRU Tefeller. RIH to 5,497' and puncture disc. Had a 100 psig bump in pressure from 0 psig on tbg. POOH. TIH and retrieve 1.78 plug. SWI, RDMO Tefeller.			
45	12/17/2013	12/17/2013	Started injecting water in the morning. Checked press in the evening. FTP 1,980 psig, SICP 1,420 psig.			
46	12/18/2013	12/18/2013	FTP 2,120 psig. SITP 1,540 psig. NU vac truck. Bd csg to 0 psig. Small drop in tbg press than back to 2,120 psig. Let csg flow for 5 min. When csg vlv closed csg built 500 psig in less than 3 min.			



Daily Activity Summary

Well Name: C223X Aneth Unit

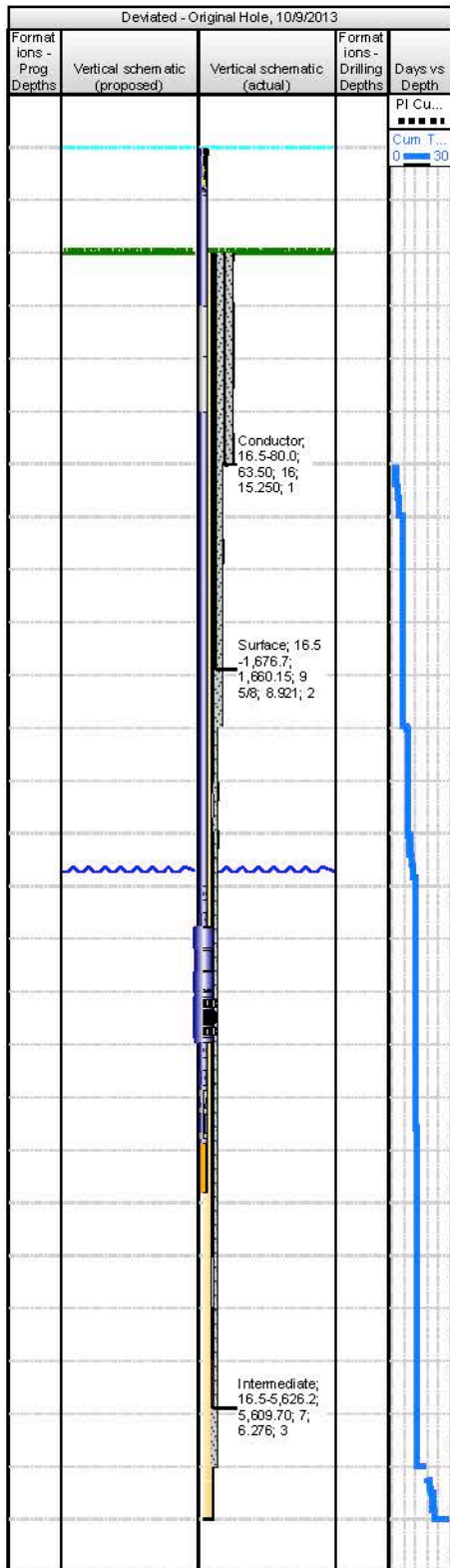
API Number 4303750037	Section 23	Township 40S	Range 23E	Field Name Aneth	County San Juan	State/Province Utah
Ground Elevation (ft) 4,663.80	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 16.50	KB-Casing Flange Distance (ft)	Regulatory Spud Date 9/2/2013 10:00	Rig Release Date/Time 9/24/2013 06:00	

Report Number	Start Date	End Date	Summary
47	12/19/2013	12/19/2013	SI inj line, (SITP 1,210 psig. SICP 1,550 psig.) Install bleed offs to determine if any press bleeding by hanger. Bleed csg dwn to 0 psig. Did not build csg press yesterday without injecting. Building csg press today without injecting. Csg press increased to 500 psig in less than 5 min. Open injection and build tbg press to 1,850 psig. Still no communication through hanger. Well has Russian adaptor and hanger w/extended neck. When shutting down injection press drpd fr 1,850 psig to 1,350 psig, then to 1,210 tbg psig. Well press stabilized @ 1,210 on tbg and 940 psig on csg. Talked with Billson and had chokes opened to give more tbg inj press. Tbg jumped to 1,940 psig and csg slowly climbed to 1,450 psig. Open csg and BD csg to 0 psig. Injection rate was @ 1,950 psig. Close csg valve, press jumped to 2,100 psig, then dropped to 1,300 psig. Tbg then went back to 2,100 psig and stabilized. Did not have any communication between csg slips and tbg hanger.

Resolute

Well Name: C223X Aneth Unit

API Number 4303750037	Section 23	Ctr/Ctr SWNE	Township 40S	Range 23E	Block	Reg Spud Dt/Tm 9/2/2013 10:00	Field Name Aneth	State/Province Utah	Working Interest (%) 62.39
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Tubing							
Tubing Description		Set Depth (ftKB)	Run Date	Pull Date			
Tubing - Injection		5,493.7	10/9/2013				
Comment 2 7/8 TK with KC couplings.							
Item Des	Icon	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing Hanger / nipple	Tubing hanger	2 7/8		1.16	0.0	1.2	
Tubing / TK / KC coupling	Tubing (blue)	2 7/8	J-55	32.56	1.2	33.8	
Tubing Pup Joint	Tubing (grey)	2 7/8		10.05	33.8	43.8	
Tubing Pup Joint	Tubing (grey)	2 7/8		6.12	43.8	49.9	
Tubing / TK / KC coupling	Tubing (blue)	2 7/8	J-55	5,431.91	49.9	5,481.8	
Cross Over	Swedge-reducing	2 7/8		0.62	5,481.8	5,482.5	
On-Off Tool / 1.81 F	On-off tool 1	7		1.77	5,482.5	5,484.2	
Packer 1-x	Packer 1	7		7.45	5,484.2	5,491.7	
Cross Over	Swedge-reducing	2 7/8		0.62	5,491.7	5,492.3	
Profile Nipple / 1.78 R	Profile nipple	2 7/8		1.00	5,492.3	5,493.3	
Wireline Guide	Wireline guide	2 7/8		0.40	5,493.3	5,493.7	
Rod Strings							
Rod Description		Set Depth (ftKB)	Run Date	Pull Date			
Comment							
Item Des	Icon	OD (in)	Grade	Len (ft)	Max Tensile (1000lbf)	Top (ftKB)	Btm (ftKB)
Other Strings							
String Description			Run Date	Set Depth (ftKB)			
Other In Hole							
Description		Icon	Bottom Depth (ftKB)	Run Date			
Retrievable Bridge Plug		Bridge plug - retrievable	5,473.0	9/23/2013			

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: ANETH
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Aneth C-223X	
2. NAME OF OPERATOR: Elk Operating Services, LLC	9. API NUMBER: 43037500370000	
3. ADDRESS OF OPERATOR: 1700 Lincoln, Suite 2550 , Denver, CO, 80203	PHONE NUMBER: 303-861-6255	9. FIELD and POOL or WILDCAT: GREATER ANETH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40S Range: 23E Meridian: S	COUNTY: SAN JUAN	
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/26/2017	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input checked="" type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Elk Operating Services, LLC respectfully submits this Subsequent Report as notification that the Aneth Unit C-223X was converted from an injection well to a producing well in December 2017 by Resolute Natural Resources, LLC. The well was converted on December 26, 2017 and first production was reported by Elk Operating Services, LLC in January 2018.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 29, 2018
NAME (PLEASE PRINT) Sherri Robbins	PHONE NUMBER 303-861-6255	TITLE EHS Coordinator
SIGNATURE N/A		DATE 2/22/2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTSL71010

6. If Indian, Allottee or Tribe Name
EASTERN NAVAJO, SHIPROCK

7. If Unit or CA/Agreement, Name and/or No.
8910077380

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. ANETH UNIT C 233X
2. Name of Operator RESOLUTE ANETH, LLC		9. API Well No. 43-037-50037-00-S1
3a. Address 1700 LINCOLN STREET SUITE 2800 DENVER, CO 80203		10. Field and Pool or Exploratory Area ANETH
3b. Phone No. (include area code) Ph: 303-861-6255		11. County or Parish, State SAN JUAN COUNTY, UT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T40S R23E NWNE 828FNL 1900FEL		

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Elk Operating Services, LLC respectively this Subsequent Report as record that Resolute Natural Resources, LLC converted the AU C-223X from an injection well to a producer in December 2017.

First production was reported in January 2018 by Elk Operating Services, LLC as the new operator of the well.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #405516 verified by the BLM Well Information System For RESOLUTE ANETH, LLC, sent to the Farmington Committed to AFMSS for processing by JACK SAVAGE on 03/29/2018 (18JWS0081SE)	
Name (Printed/Typed) CRAIG WRIGHT	Title PRODUCTION ENGINEER
Signature (Electronic Submission)	Date 02/22/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE	Title PETROLEUM ENGINEER	Date 03/29/2018
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Farmington

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #405516

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER SR	OTHER SR
Lease:	UTSL71010	UTSL71010
Agreement:		8910077380 (UTU68927A)
Operator:	ELK OPERATING SERVICES, LLC 1700 LINCOLN ST. SUITE 2950 DENVER, CO 80203 Ph: 303-861-6255	RESOLUTE ANETH, LLC 1700 LINCOLN STREET SUITE 2800 DENVER, CO 80203 Ph: 303.534.4600
Admin Contact:	SHERRI L ROBBINS EHS COORDINATOR E-Mail: srobbins@elkga.com Ph: 303-861-6255 Ext: 1150	SHERRI L ROBBINS EHS COORDINATOR E-Mail: srobbins@elkga.com Ph: 303-861-6255
Tech Contact:	CRAIG WRIGHT PRODUCTION ENGINEER E-Mail: cwright@elkga.com Ph: 435-651-3277 Ext: 3280	CRAIG WRIGHT PRODUCTION ENGINEER E-Mail: cwright@resoluteenergy.com Cell: 970-396-1425 Ph: 970-564-5200 Fx: 970-564-5234
Location:		
State:	UT	UT
County:	SAN JUAN COUNTY	SAN JUAN
Field/Pool:	GREATER ANETH FIELD	ANETH
Well/Facility:	ANETH UNIT C-223X Sec 23 T40S R23E Mer SLB NWNE 828FNL 1900FEL	ANETH UNIT C 233X Sec 23 T40S R23E NWNE 828FNL 1900FEL

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTSL 071010
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: ANETH
1. TYPE OF WELL Water Injection Well	8. WELL NAME and NUMBER: Aneth C-223X
2. NAME OF OPERATOR: Elk Operating Services, LLC	9. API NUMBER: 43037500370000
3. ADDRESS OF OPERATOR: 1700 Lincoln, Suite 2550 , Denver, CO, 80203	PHONE NUMBER: 303-861-6255
4. LOCATION OF WELL FOOTAGES AT SURFACE: 828 FNL 1900 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 23 Township: 40S Range: 23E Meridian: S	9. FIELD and POOL or WILDCAT: GREATER ANETH COUNTY: SAN JUAN STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/13/2018	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Elk Operating Services, LLC respectfully submits this Subsequent Sundry as notification that the MIT passed on 06/13/2018, in anticipation of returning the C-223X oil well back to Injection. Attachment includes the MIT witnessed results.

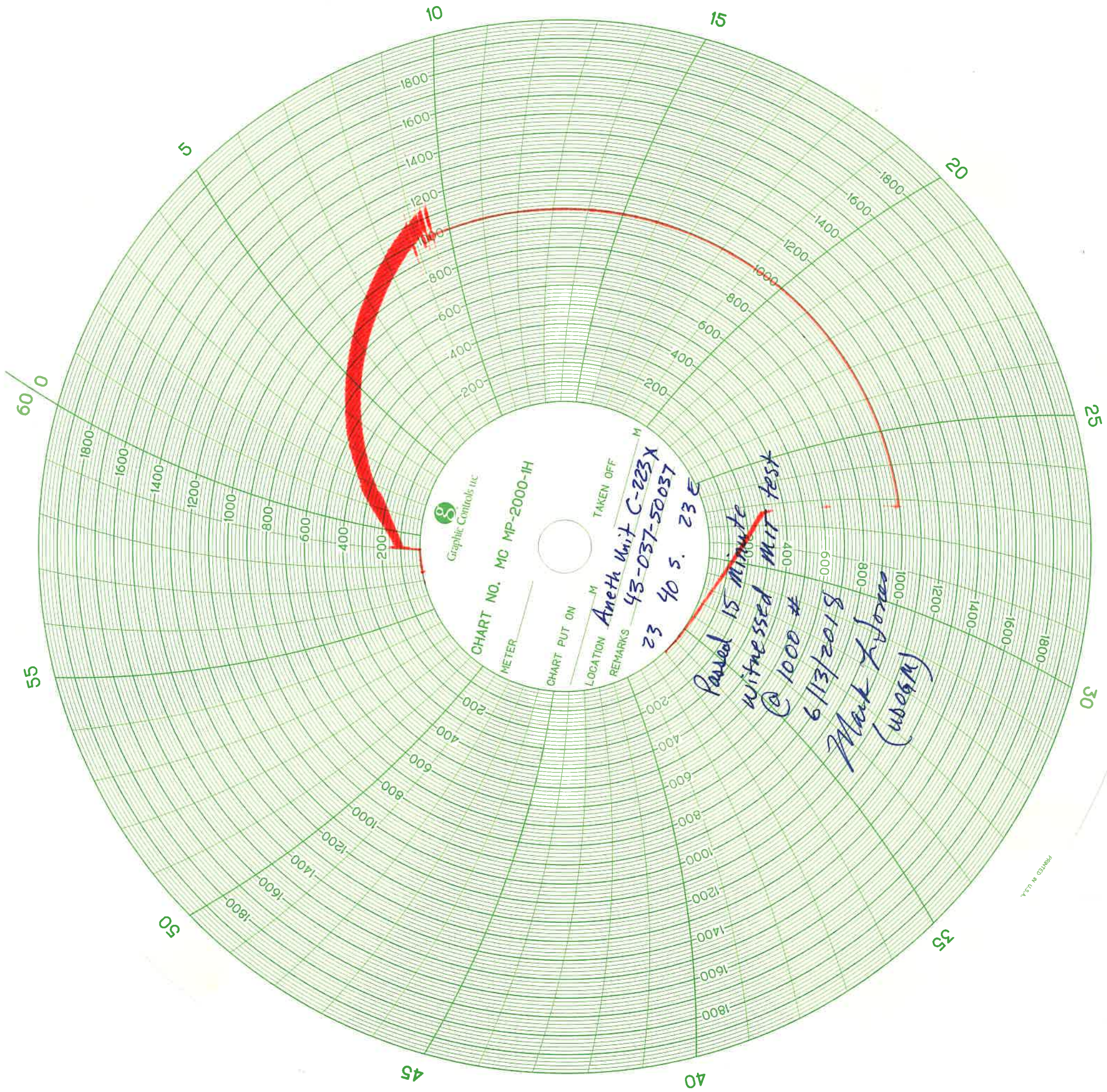
1. Disconnected Production Lines 2. Performed MIT to 1,000psi (UTDOGM witnessed) 3. Reconnected Injection Lines

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 04, 2019

By:

NAME (PLEASE PRINT) Amy Lopez	PHONE NUMBER 303-861-6255	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/14/2018	



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Elk Operating Services LLC	Utah Account Number 104372	Well Name and Number Aneth C-223X
Address of Operator 1700 Lincoln Ste 2950 CITY Denver STATE CO ZIP 80203	Phone Number (303) 861-6255	API Number 4303750037
Location of Well Footage : 1621 FNL 1915 FEL County : San Juan		Field or Unit Name Aneth
QQ, Section, Township, Range: SWNE 23 40S 23E State : UTAH		Lease Designation and Number UTSL 071010

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:

Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Disposal?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Storage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: 6/13/2018

Proposed injection interval: from 5,626 to 5,905

Proposed maximum injection: rate 1,000 bpd pressure 3,000 psig

Proposed injection zone contains oil , gas , and / or fresh water within ½ mile of the well.

List of attachments: MIT Chart

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Charles Dalton Title Engineering Technician

Signature _____ Date 6/19/2018

INSTRUCTIONS

This form shall be submitted by the well operator prior to the commencement of operations for injecting any fluid into a well for the purpose of enhanced recovery, disposal, or storage within the state of Utah, in accordance to the Utah Oil and Gas Conservation General Rules. Approvals or orders authorizing injection wells shall be valid for the life of the well, unless revoked by the board for just cause, after notice and hearing.

Send to:

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



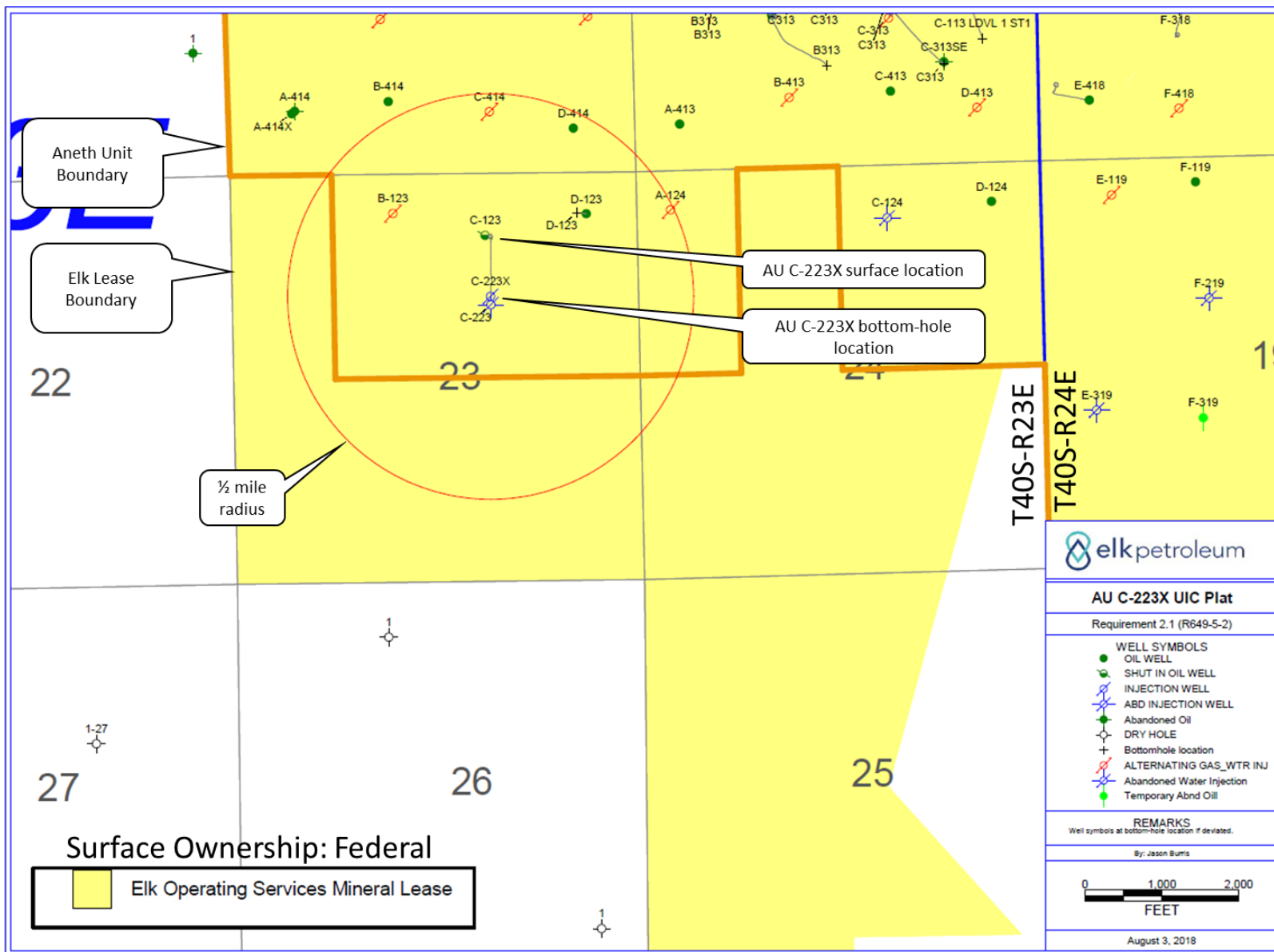
UIC Checklist: AU C-223X

Contents

Highlights
Financial

3

2.1

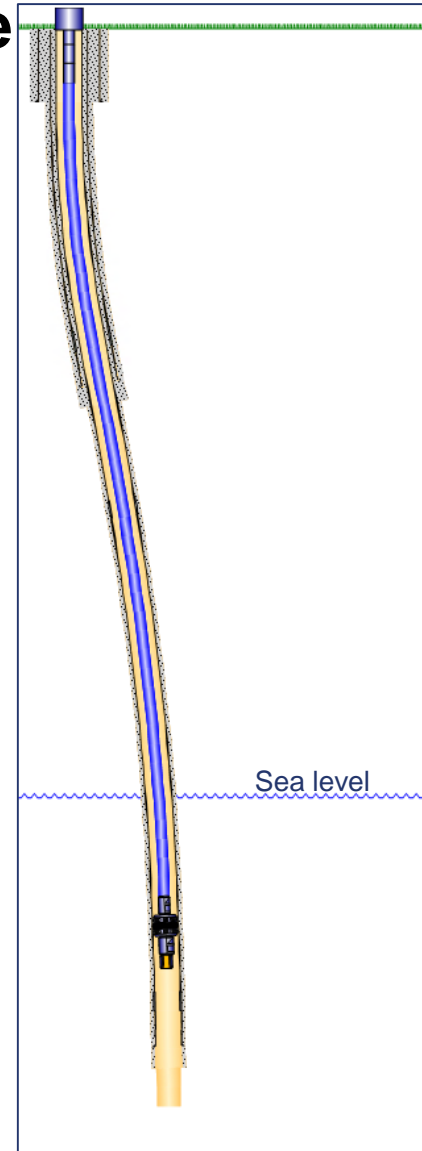


2.2 Logs to be uploaded to UT DOGM website

2.3 CBL to be uploaded to UT DOGM Website

Cement Info around open hole injection interval (5,630'-5,905')

- Set 7" casing at 5,626' in 8.75" hole with TD of 5,630'
- Stage 1 (shoe at 5,626')
 - 115.8bbl from 330 sks of 12.3 ppg lead cement w/ 1.97 yield
 - 20.5bbl from 100 sks of 15.8 ppg tail cement w/ 1.16 yield
 - Pumped cement and bumped plug at 14:50 on 9/15/2013
- Stage 2 (DV Tool at 2,502')
 - 82.7bbl from 230 sks of 12.3 ppg lead cement w/ 2.02 yield
 - 20.7bbl from 100 sks of 15.8 ppg tail cement w/ 1.15 yield
 - Pumped cement and landed 2nd plug at 20:11 on 9/15/2013
 - Circulated 17 bbl cement to surface
- Tagged up on cement at 2,496' and again at 5,584'



2.4 N/A

2.5 Casing Program (already received at UT DOGM)

Sundry Number: 40622 API Well Number: 43037500370000

AU C223X Casing Change Sundry Information

Depth	Hole Diameter	Casing Diameter	Casing Weight, Grade, Condition	◆ Safety Factor (S _f , S _f c, S _f)	Cement
Conductor Pipe 0' - 90' TVD	20"	16"	65 ppf H-40 (drift: 15.06") Properties: Collapse: 670 psi Burst: 1,640 psi Body Yield: 736,000 lbs		Ready Mix Cement Back to Surface
Surface Casing 0' - 1,650' TVD	12-1/4"	9-5/8"	36 ppf J-55 STC R3 New (drift: 8.765") Properties: Collapse: 2,020 psi Burst: 3,520 psi Jt. Strength: 639,000 lbs Body Yield: 564,000 lbs	S _f c - 2.8 S _f b - 2.2 S _f - 11.0	(Cement back to Surface)* Lead: ~ 400 sx Halliburton Light Premium yield: 1.97 ft ³ /sx wt: 12.3-ppg Tail: ~100 sx Premium Class G Cement yield: 1.15 ft ³ /sx wt: 15.8-ppg
Production Casing 0' - 5,540' TVD	8-3/4"	7.0"	26 ppf J-55 LTC R3 New (drift: 6.151") Properties Collapse: 4,320 psi Burst: 4,980 psi Jt. Strength: 490,000 lbs Body Yield: 415,000 lbs	S _f c - 1.6 S _f b - 1.78 S _f - 3.0	(Cement back to Surface)* First Stage Lead: ~ 260 sx Halliburton Light Class G Premium yield: 1.95 ft ³ /sx mix fluid: 10.04 gal/sx wt: 12.3-ppg Second Stage Tail: ~100sx Halliburton Light Premium Class G yield: 1.15 ft ³ /sx mix fluid: 4.96 gal/sx wt: 15.80 ppg DV Tool @ 6,500' TVD
OH Section 5,540' - 5,779'	6-1/8"				

RECEIVED: Jul. 31, 2013

2.6

Injection Fluids for the C-223X will be:

- Water:
 - Produced water from the Desert Creek formation mixed with small amounts of fresh water.
 - Source will be the Desert Creek formation.
 - Estimated amount will be 1,000 bbl per day
- CO₂:
 - CO₂ injection sourced from Kinder Morgan's McElmo Creek Unit
 - Estimated amount will be 1,000 reservoir bbl per day

2.7



dzufefh@greenganalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303
 www.GreenAnalytical.com

Baker Hughes
 1215 Basin Rd
 Farmington, NM, 87401

Project: ADT+
 Project Name / Number: Resolute
 Project Manager: Brian Booth

Reported:
 12/21/16 13:25

AU WIP

1612038-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyt
General Chemistry									
Alkalinity, Bicarbonate*	1140	10.0		mg-CO3/L	10	12/16/16	2320 B		JDA
Alkalinity, Carbonate*	<10.0	10.0		mg-CO3/L	10	12/16/16	2320 B		JDA
Alkalinity, Hydroxide*	<10.0	10.0		mg-CO3/L	10	12/16/16	2320 B		JDA
Alkalinity, Total*	1140	10.0		mg-CO3/L	10	12/16/16	2320 B		JDA
Chloride	64300	5000	1000	mg/L	5000	12/14/16	EPA300.0		JDA
Conductivity*	157000	10.0		uS/cm	1	12/06/16	2510 B		BDV
pH*	5.92			pH Units	1	12/06/16	EPA150.1		BDV
Resistivity	6.40			ohm/cm	1	12/07/16	2510 B		BDV
Total Dissolved Solids	112000	10.0		mg/L	1	12/13/16	EPA160.1		JDA
Specific Gravity	1.093	0.9300		N/A	1	12/07/16	Hydromaster		BDV
Sulfate	1910	5000	994	mg/L	5000	12/14/16	EPA300.0		J JDA
Potentially Dissolved Metals by ICP									
Hardness	30300	268	70.1	mg/L	500	12/13/16	2340 B		LLG
Silica Potentially Dissolved	<267	535	267	mg/L	500	12/13/16	2340 B		LLG
Barium*	<5.00	5.00	1.32	mg/L	500	12/13/16	EPA200.7		LLG
Calcium*	8870	25.0	1.38	mg/L	500	12/13/16	EPA200.7		LLG
Iron*	<25.0	25.0	1.75	mg/L	500	12/13/16	EPA200.7		LLG
Lead*	<50.0	50.0	12.3	mg/L	500	12/13/16	EPA200.7		LLG
Magnesium*	19800	50.0	16.2	mg/L	500	12/13/16	EPA200.7		LLG
Manganese*	<2.50	2.50	0.365	mg/L	500	12/13/16	EPA200.7		LLG
Potassium*	608	500	167	mg/L	500	12/13/16	EPA200.7		LLG
Silicon	<350	250	125	mg/L	500	12/13/16	EPA200.7		LLG
Sodium*	32200	500	153	mg/L	500	12/13/16	EPA200.7		LLG
Strontium*	246	50.0	0.180	mg/L	500	12/13/16	EPA200.7		LLG
Zinc*	<25.0	25.0	1.09	mg/L	500	12/13/16	EPA200.7		LLG
Cations/Anion Balance	3.72								

Green Analytical Laboratories

Debbie Zufelt

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety, in no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALT liability, and claims exclusive remedy for any chain arising, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 3 of 8

- Desert Creek Produced Water with small amount of Fresh Water

2.8

Average surface injection pressure will be 2,600 psi

Estimated bottom hole pressure will be 5,180 psi

Maximum surface injection pressure will be 3,000 psi as dictated by injection permit.

2.9 Mechanical Properties

Estimation of Desert Creek Formation Fracture Pressure

We have recently estimated the fracture pressure of the Desert Creek Formation to be 1.3 psi/ft. Although we have not conducted a step rate test in the Desert Creek Formation, we have done some well work that provides information about the formation fracture pressure. Resolute completed eight wells into the Desert Creek III Formation ("DC III") during 2005 and 2006. The DC III is the lower most interval of the Desert Creek Formation and is found to be very continuous across the field and throughout the region. Surface pressures measured during the acid job following the DC III perforation provided information about the fracture gradient.

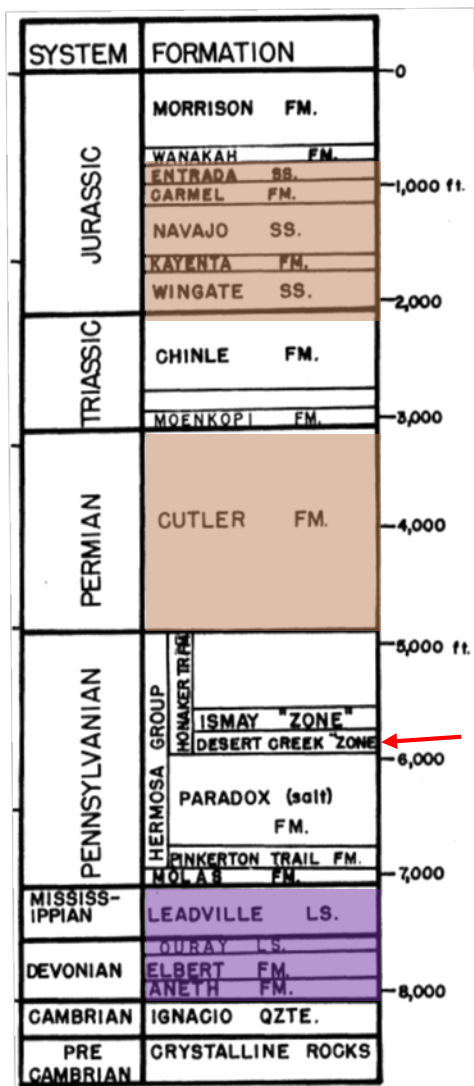
Formation breakdown, as indicated by a sharp drop in pressure corresponding to a rate increase, was only observed in two of these wells. The following table provides details of the jobs and the resulting calculated fracture pressure.

Well	Desert Creek III Perforation Interval (ft kb)	Acid Job Date	Surface Breakdown Pressure (psi)	Estimated Bottomhole Breakdown Pressure (psi)	Calculated Formation Fracture Pressure (psi/ft)
E-217	5560-66	6-Jan-2006	4800	7207	1.3
G-221X	5565-86	10-Jan-2006	4700	7110	1.3

Although two wells provided no pressure information, the remaining four wells recompleted in the DC III provided information about the fracture pressure. In these four wells, no formation breakdown was observed so the maximum surface pressure measured during these acid jobs is below the fracture pressure. The following table provides details about these jobs and calculations showing that the fracture gradient is greater than 1.2 psi/ft.

Well	Desert Creek III Perforation Interval (ft kb)	Acid Job Date	Maximum Surface Treatment Pressure (psi)	Estimated Bottomhole Treatment Pressure (psi)	Formation Fracture Pressure is Greater Than (psi/ft)
F-120	5474-92	13-Aug-2005	4000	6370	1.2
G-225	5560-66	12-Apr-2006	4200	6607	1.2
E-423	5853-64	15-May-2006	4400	6934	1.2
E-425	5699-712	23-May-2006	4200	6668	1.2

2.10 USDW



System	Aquifer	Total Dissolved Solids (mg/L)
Upper	Mesozoic sandstone (Wingate, Navajo, Bluff, and Dakota Sandstones)—aka “Navajo Aquifer”	210 – 7,250
	Cutler sandstone	17,262 – 52,187
Lower Paleozoic (Leadville Limestone and some Devonian units)		5,560 – 239,459

- The “Navajo Aquifer” is dominated with by eolian sandstones, with interbedded siltstone and shale.
- The Chinle (base of “Navajo aquifer”) was encountered at depth of 1,515’ in the AU C-223X
- The top of this aquifer is estimated at depth of 657’

2.10 USDW

Zone	Number of samples	Ca (mg/L)	Mg (mg/L)	Na + K (mg/L)	HCO ₃ (mg/L)	CO ₃ (mg/L)	SO ₄ (mg/L)	Cl (mg/L)	TDS (mg/L)
<i>Data from Avery, 1986</i>									
Navajo aquifer (N aquifer)	7	35 – 112	5.8 – 74	15 – 2,976	546 – 1,349	n.d.	675 – 1,640	581 – 3,510	3,090 – 8,640
<i>Data from Spangler et al, 1996</i>									
Navajo aquifer (N aquifer)	56								145 – 17,300

2.10 References

Avery, C., 1986, Bedrock aquifers of Eastern San Juan County, Utah, Utah Department of Natural Resources Technical Publication No. 86.

Spangler, L.E, Naftz, D.L and Z.E. Peterman, 1996, Hydrology, chemical quality, and characterization of salinity in the Navajo aquifer in and near the Greater Aneth oil field, San Juan County, Utah, USGS Water-Resources Investigations Report 96-4155.

2.11

Review of offset wells from 2.1 Plat

AU B-123

- Pressure Test or MIT: 7/24/2014

AU C-414

- Pressure Test or MIT: 7/24/2014

AU C-123

- Pressure Test or MIT: 10/22/2014

AU C-223

- P&A: 3/9/2003

AU D-414

- Pressure Test or MIT: 5/11/2017

AU D-123

- Pressure Test or MIT: 12/9/2016

2.12

Elk Petroleum is the only operator within 0.5 miles

2.13 No Additional Data

A West

A-414X

RESOLUTE
T40S R23E S14

ELEV_KB : 4,770
TD : 5,840
8/27/2013

B-414

RESOLUTE NATURAL RES
T40S R23E S14

ELEV_KB : 4,741
TD : 5,695
2/9/2012

C-414

RESOLUTE
T40S R23E S14

ELEV_KB : 4,722
TD : 5,743
7/31/1957

D-414

RESOLUTE
T40S R23E S14

ELEV_KB : 4,727
TD : 5,787
4/6/1981

C-123

RESOLUTE
T40S R23E S23

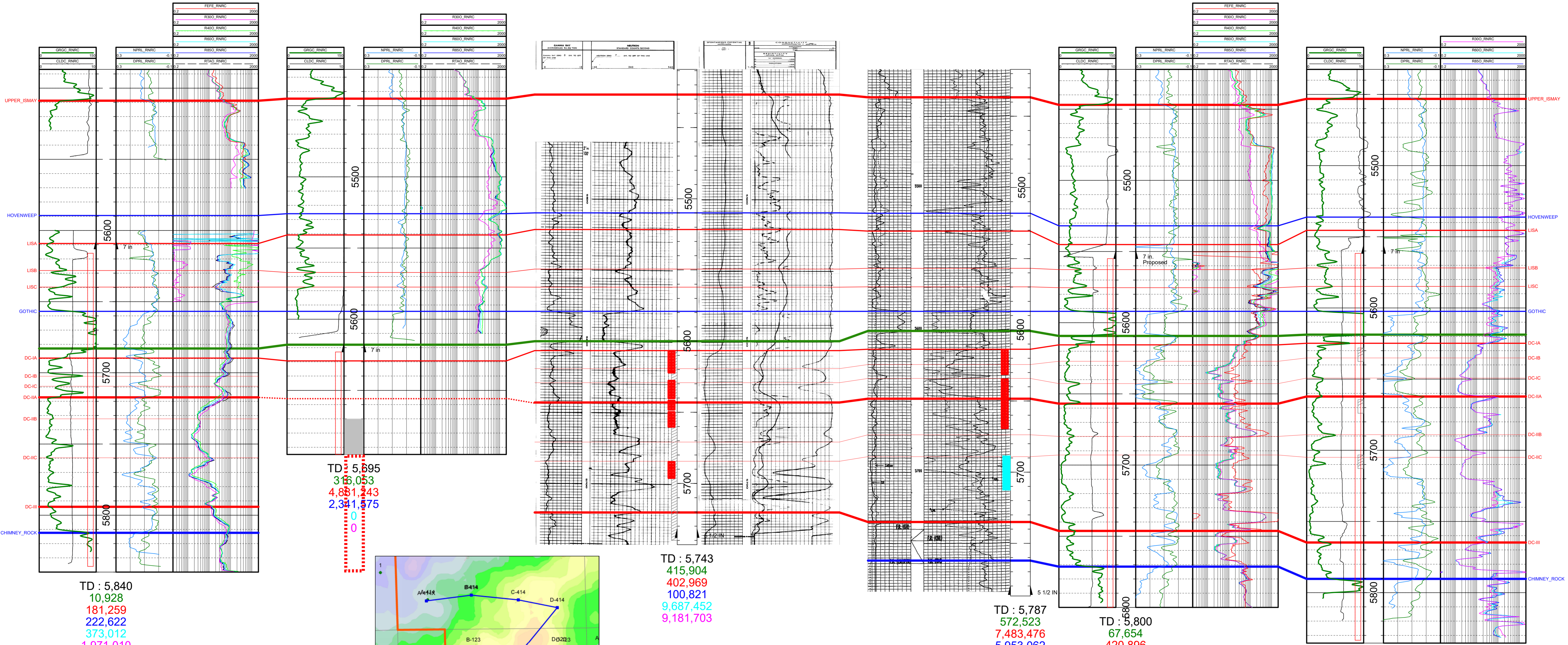
ELEV_KB : 4,704
TD : 5,800
8/23/2013

C-223X

RESOLUTE
T40S R23E S23

ELEV_KB : 4,704
TD : 5,905
9/1/2013

A' South



TD : 5,695
316,053
4,831,243
2,341,575
0
0

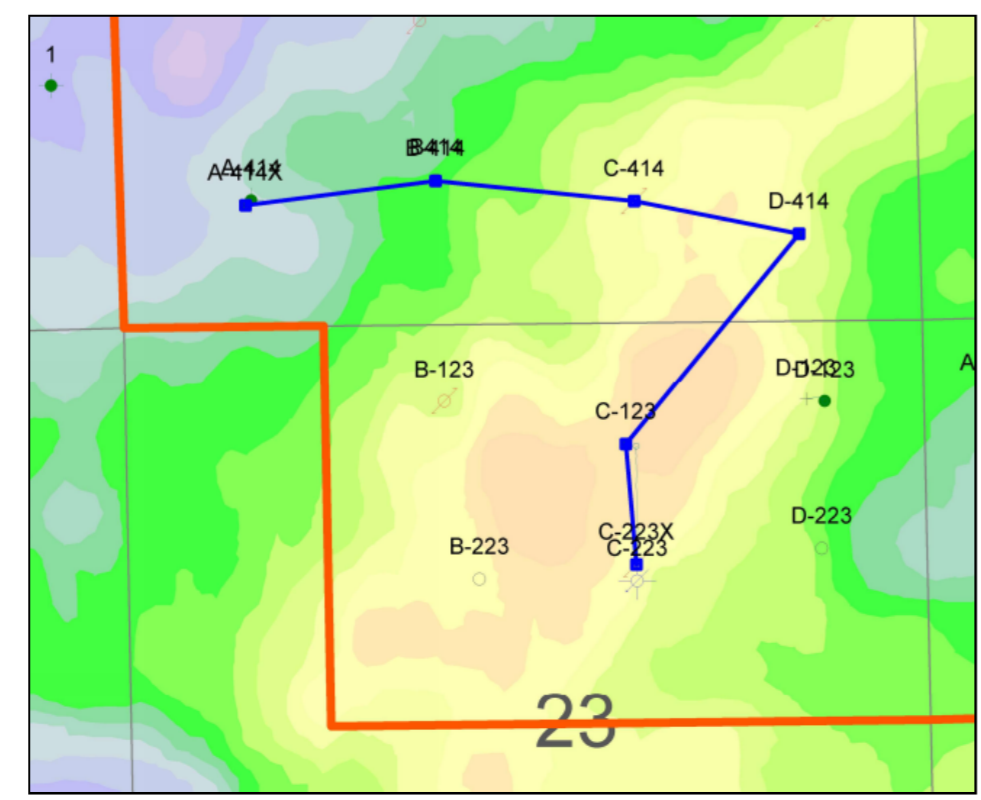
TD : 5,840
10,928
181,259
222,622
373,012
1,971,010

TD : 5,743
415,904
402,969
100,821
9,687,452
9,181,703

TD : 5,787
572,523
7,483,476
5,953,062
0
0

TD : 5,800
67,654
420,896
1,319,902
0
0

TD : 5,905
0
0
0
424,629
1,914,320



BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH
NOTICE OF AGENCY ACTION
CAUSE NO. UIC – 602

IN THE MATTER OF THE APPLICATION OF ELK OPERATING SERVICES, LLC FOR ADMINISTRATIVE APPROVAL OF THE ANETH C-223X (API# 43-037-50037) WELL LOCATED IN SECTION 23, TOWNSHIP 40S, RANGE 23E, SAN JUAN COUNTY, UTAH, AS A CLASS II INJECTION WELL.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

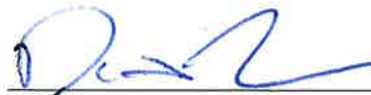
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Elk Operating Services, LLC, for administrative approval of a permit for the Aneth C-223X (API# 43-037-50037) well, located in SW/4 NE/4, Section 23, Township 40S, Range 23E, Salt Lake Meridian, San Juan County, Utah, as a water injection well, for the purpose of enhanced oil recovery. The adjudicative proceedings will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures. Elk Operating Services, LLC can be contacted at 1700 Lincoln, Suite 2950, Denver, CO 80203, phone (303)861-6255.

Selected zones in the Paradox Formation will be used for water injection.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Dayne Doucet, Permitting Manager, at P.O. Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5303. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 12th day of July, 2018.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



Dayne Doucet
Permitting Manager

Elk Operating Services, LLC
Aneth C-223X
Cause No. UIC – 602

Publication Notices were sent to the following:

Elk Operating Services, LLC
1700 Lincoln, Suite 2950
Denver, CO 80203

San Juan Record
49 South Main Street
Monticello, UT 84535
Via e-mail sjrnews@frontiernet.net

Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145
Via e-mail naclegal@utahmediagroup.com

Farmington Field Office
Bureau of Land Management
6251 Coleege Blvd., Suite A
Farmington, NM 87402

David Albright
US EPA Region IX
WTR-3-2
75 Hawthorne Street
San Francisco, CA 94105

San Juan County Planning & Zoning
P.O. Box 787
Monticello, UT 84535





GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 12, 2018

San Juan Record
49 South Main Street
Monticello, UT 84535
Via e-mail sjrnews@frontiernet.net

Subject: Notice of Agency Action for Elk Operating Services, LLC - Cause No. UIC 602

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing to:

Division of Oil, Gas and Mining
Suite 1210
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure





GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 12, 2018

Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145
Via e-mail naclegal@utahmediagroup.com

Subject: Notice of Agency Action for Elk Operating Services, LLC - Cause No. UIC 602

To Whom It May Concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: jsweet@utah.gov.

Please send proof of publication and billing **account #9001402352** to:

Division of Oil, Gas and Mining
Suite 1210
PO Box 145801
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet
Executive Secretary

Enclosure



DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: Elk Operating Services, LLC**Well:** Aneth C-223X**Location:** S23, T40S, R23E, San Juan County, Utah**API:** 43-037-50037**Ownership Issues:**

The well is located on federal surface and mineral lands leased by the operator. The operator's agent has provided the Division an Affidavit of Mailing specifying that a copy of the application for a Class II Injection Well permit was sent to all operators, mineral owners, and surface owners within a half-mile radius of the proposed injection well.

Well Integrity:

Descriptions of the Casing & Cement:

CASING PROGRAM

<u>String Type</u>	<u>Hole Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Casing Diameter</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection Type</u>
Conductor	20"	90'	90'	16"	65#	H-40	-
Surface	12 1/4"	1,650'	1,650'	9 5/8"	36#	J-55	STC R3
Production	8 3/4"	5,540'	5,540'	7"	26#	J-55	LTC R3
Open-Hole	6 1/8"	5,779'	239'	-	-	-	-

CEMENT PROGRAM

<u>String Type</u>	<u>DV Depth</u>	<u>Stage Lead/Tail</u>	<u>Cement Bottom</u>	<u>Cement Top</u>	<u>Number Sacks</u>	<u>Cement Type</u>	<u>Cement Yield</u>	<u>Cement Weight PPG</u>
Conductor	90'	-	90'	Surface	-	Ready Mix	-	-
Surface	1,650'	Tail	1,650'	Surface	100	Class G	1.15	15.8
Production	5,540'	Tail	5,540'	Surface	100	Premium G	1.15	15.8
Open-Hole	5,779'	-	-	-	-	-	-	-

Ground Water Protection:

The operator, Elk Operating Services, proposes to inject a regional composite produced water, fresh water, and carbon dioxide mixture through an open-hole completion into the Desert Creek Member, of the Paradox Formation, for the purpose of enhanced oil recovery. The open-hole completion spans an interval between 5,626 feet and 5,905 feet, below the ground surface. The Division of Oil, Gas & Mining (DOGGM) has elected to accept analyses of produced waters from sundry regional field wells as representative of the waters to be injected into this well. Aneth Unit produced water is obtained from the Desert Creek Member of the Paradox Formation. A representative produced water sample, taken from the Aneth Unit Water Injection Plant (12/21/2016), was tested for Total Dissolved Solids (TDS) and found to have a value of approximately 113,000 mg/L, a value which is much greater than what is considered to be moderately saline (10,000 mg/L). One historical Water Plant water sample was taken on May 12th, 2005, and tested. The TDS value of the proxy connate water sample was 91,010 mg/L. The connate waters are expected to be of very poor quality, a circumstance that is not uncommon in the Paradox Formation. It is unlikely that a good quality, or useable, ground water resource will be found within the Desert Creek Zone, in this area.

The operator asks permission to inject at a UIC Form 1 **Maximum Allowable Surface Injection Pressure of 3,000 psig**. The Division has determined, based on the EPA Aneth Unit Area Permit, to accept 3,000 psig as the Maximum Allowable Injection Pressure. The EPA set the initial maximum allowable injection pressure based on step-rate test results from eight injection wells in the McElmo Creek Unit, which are also completed in the Paradox Formation. Data provided by Elk Petroleum supports the continued accepted maximum allowable injection pressure of 3,000 psig, for the Aneth Unit C-223X well, as part of the enhanced oil recovery project.

The upper primary confining layer, between the injection zone and surface, is the Pennsylvanian-age Gothic Shale. The lower confining layer is the Pennsylvanian-age Chimney Rock Shale.

An analysis of the original Cement Bond Log for this well was undertaken to evaluate the quality of the bond over the confining interval in the well. The results of the review indicated that there is a sufficient interval of well-bonded cement (80% bond index) that will properly isolate the injection interval.

In this area, the interbedded carbonates of the Paradox Formation are not considered Underground Sources of Drinking Water (USDW; a water source containing less than 10,000 mg/L, total dissolved solids).

A search of the Division of Water Rights database reveals that there are **no subsurface water rights** filed within one-mile of the Aneth C-223X.

Oil/Gas & Other Mineral Resources Protection:

A review of the well records of the Division of Oil, Gas and Mining revealed that there are eleven oil wells within the one-half mile regulatory area of review (AOR). Analysis of the original well records and the available cement bond logs for the wells within the one-half mile regulatory area of review revealed that there is sufficient zonal isolation over the corresponding proposed injection interval of the subject well; however, two wells are to be drilled within the one-half mile AOR, which are approved APDs (Aneth Unit B-223 & Aneth Unit D-223). Elk Petroleum has been advised that upon completion of these wells analysis of the cement bond logs will be done to determine that adequate amounts of well-bonded cement are present over the correlative injection interval; otherwise, remedial cement work will be required to ensure the continued use of the permitted injection well.

The Board of Oil, Gas & Mining established the Aneth Unit EOR Project (Docket No. 98-004; Cause No. 152-07), May 18, 1998. Correlative rights issues were addressed at that time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

The review of the well bores within the AOR concludes that **none are likely to be conduits** for the vertical migration of the injected fluids. The 11 wells within the one-half mile regulatory AOR, originating from the surface location of the subject well, are listed below:

- Aneth C-414 (43-037-16035) – The Operator lists this well as a water injection well. The well was originally drilled in 1957. It appears to be in acceptable condition as reflected in the Division well records. A review revealed that cement was not circulated to surface, the top of cement (TOC) appears to be at 2,026 feet bgs, based on cement calculations. In July of 2014 a successful MIT was conducted. The well held 1,000 pounds of pressure for 15 minutes and then returned to injection.
- Aneth D-123 (43-037-16036) – The Operator lists this well as a producing oil well. The well was originally drilled in 1956. According to cementing data filed with the Division, the top of cement of the 5 1/2" production casing is at 2,698 feet and was plugged back to 5,590 feet. The well appears to be in acceptable condition based on information in the Division well-file.
- Aneth A-124 (43-037-16270) – The Operator lists this well as a water injection well. The well was originally drilled in 1958. It appears to be in acceptable condition as reflected in the Division well records. A review revealed that cement was not circulated to surface, TOC appears to be at 4,310 feet bgs, based on a vintage Temperature Survey. In July of 2014 a successful MIT was conducted. The well held 1,000 pounds of pressure for 30 minutes and then returned to injection.
- Aneth B-123 (43-037-16271) – The Operator lists this well as a water injection

well. The well was originally drilled in 1957. It appears to be in acceptable condition as reflected in the Division well records. A review revealed that cement was not circulated to surface, TOC appears to be at 3,660 feet bgs, based on cement calculations. In July of 2014 a successful MIT was conducted. The well held 1,000 pounds of pressure for 30 minutes and then returned to injection.

- Aneth C-223 (43-037-16276) – The Operator lists this well as a plugged & abandoned well. The file for this P&A 1958 well contains documentation that the well was original an injector as part of the Aneth Unit EOR Project. Cement was not circulated to surface, the TOC, for the 5 1/2” production casing, appears to be at 4,205 feet total depth, based on cementing calculations. In May of 1992 a positive MIT, witnessed by the EPA, was performed; the well held a pressure of 1100 psig for 30 minutes. An unsuccessful MIT was conducted in April of 1999; the wellbore failed to show down-hole integrity. A total of five plugs were set from 5,681’ to surface to isolate the wellbore. The approved plugging procedure was completed on March 9th, 2003.
- Aneth Unit D-414 (43-037-30639) – The Operator lists this well as a shut-in oil well. The well was originally drilled in 1981. It appears to be in acceptable condition as reflected in the Division well records. A review of its records revealed that in March of 2010 the well held 550 pounds of pressure for 30 minutes. Based on completion data provided to the Division, cement was not circulated to surface, TOC appears to be at 4,250 feet bgs, with a DV-tool set at 2,970’. Well records also show that a tubing & packer repair was successfully completed on 05-11-2016.
- Aneth Unit B-414 (43-037-30674) – The Operator lists this well as a location abandoned well. According to Division records the APD was rescinded in 1982 and the well was not drilled.
- Aneth Unit C-123 (43-037-30675) – The Operator lists this well as a location abandoned well. According to Division records the APD was rescinded in 1982 and the well was not drilled.
- Aneth Unit B414 (43-037-31915) – The Operator lists this well as a Returned APD location. According to Division records the APD was returned, unapproved, to the operator in 2012 and the well was not drilled.
- Aneth Unit B414 (43-037-50011) – This well is currently listed as a producing oil well. The well was originally drilled in February of 2012. The Operator’s engineering staff places the TOC at 1,850 feet bgs, based on completion data on file with the Division, cement was circulated to surface with a DV-tool set at 2,536’.
- Aneth C-123 (43-037-50036) – The Operator lists this well as a shut-in oil well. The well was originally drilled in August of 2013. It appears to be in acceptable condition as reflected in the Division well records. The Operator’s engineering staff places the TOC at surface, based on the completion report filed with the Division. A review of the CBL, provided to the Division, showed that a more than adequate cement bond is present, and provided the zonal isolation required for the corresponding injection interval.

Bonding:

Elk Operating Services has a statewide plugging bond filed with this Division.

Actions Taken and Further Approvals Needed:

Notice of this application was published in the Salt Lake Tribune and the San Juan Record. In addition, copies of the notice were provided to EPA Region 9, Elk Operating, San Juan County Planning, and the Farmington BLM. The notice stated the proposed interval for injection to be selective zones in the Paradox Formation. Any future injection into strata other than that permitted will require administrative approval after appropriate sampling and testing.

The Noticing period for this EOR well candidate well **DID NOT** attract any protests.

The Division staff **DOES** recommend administrative approval of this application, based on the effectiveness of the conversion procedures proposed in the UIC application.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Ammon McDonald Date: 11/19/2018



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director


UNDERGROUND INJECTION CONTROL PERMIT Cause No. UIC-602

Operator: Elk Operating Services
Well: Aneth C-223X
Location: Section 23, Township 40 South, Range 23 East, SLB&M
County: San Juan
API No.: 43-037-50037
Well Type: Water Injection Well, (Enhanced Oil Recovery)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on July 10, 2018.
2. Maximum Allowable Injection Pressure: 3,000 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Paradox Formation, Desert Creek Member (5,626' – 5,905')
5. A Monthly Injection Report shall be filed as required by R649-8-20.
6. CBLs for all future wells to be drilled within one half-mile of the Aneth C-223X shall show at least 200' of 80% bond or better, above and below the corresponding injection interval in the off-setting well(s).

Approved by:


John Rogers
Associate Director

11/27/2018
Date

JR/DD/AM/js

cc: David Albright, Environmental Protection Agency Region IX, WTR-3-2
San Juan County Planning
Well File

N:\O&G Permits\Injection Permits\Elk Operating\AnethC223X

1594 West North Temple, Suite 1210, Salt Lake City, UT 84116
PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov



Division of Oil, Gas and Mining
 Operator Change/Name Change Worksheet-for State use only

Effective Date: 1/1/2018

FORMER OPERATOR:	NEW OPERATOR:
Resolute Natural Resources 1700 Lincoln, Suite 2800 Denver, CO 80203	Elk Operating Services, LLC 1700 Lincoln, Suite 2950 Denver, CO 80203

Groups: Bev
 Aneth-Enhanced Recovery - Active
 McElmo Creek - Enhanced Recovery - Active
 Ratherford - Enhanced Recovery - Active

WELL INFORMATION:

Well Name	API Number	Town	Dir	Range	Dir	Sec	Entity Number	Type	Status
SEE ATTACHED LISTS									

Pages 7-21

OPERATOR CHANGES DOCUMENTATION:

- Sundry or legal documentation was received from the **FORMER** operator on: 12/21/2018
- Sundry or legal documentation was received from the **NEW** operator on: 12/21/2018
- New operator Division of Corporations Business Number: 10639865-0161

REVIEW:

Receipt of Acceptance of Drilling Procedures for APD on: NA
 Reports current for Production/Disposition & Sundries: 1/9/2018
 OPS/SI/TA well(s) reviewed for full cost bonding: NA
 UIC5 on all disposal/injection/storage well(s) approved on: 12/21/2018
 Surface Facility(s) included in operator change: Aneth Gas Plant and Aneth Compressor Station

NEW OPERATOR BOND VERIFICATION:

State/fee well(s) covered by Bond Number(s): SUR033474

DATA ENTRY:

Well(s) update in the RBDMS on: 1/30/2018
 Group(s) update in RDBMS on: 1/30/2018
 Surface Facilities update in RBDMS on: 1/30/2018
 Entities Updated in RBDMS on: 1/30/2018

COMMENTS:

This Operator Change is an Operator Name Change. All wells and facilities are going to Elk Operating Services, LLC.





1700 LINCOLN, SUITE 2950
DENVER, CO 80203
PHONE: 303-861-6255

December 15, 2017

Ms. Rachel Medina
Bonding Technician
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED
DEC 21 2017
DIV. OF OIL, GAS & MINING

Dear Ms. Medina:

Effective January 1, 2018, Resolute Natural Resources Company will resign as operator of the Greater Aneth Field and Elk Operating Services, LLC (Elk) will become the designated operator. Enclosed are the required change of operator documents, by the three units located within the Greater Aneth Field: Aneth Unit, McElmo Unit, and Ratherford Unit. Each unit change of operator packet includes the following:

- **A letter requesting an operator number** for Elk Operating Services, LLC
- **Form 9 Sundry Notices and Reports on Wells** – one for Resolute Natural Resources Company and one for Elk Operating Services, LLC
- **UIC Form 5 Transfer of Authority to Inject** - signed by representatives of both organizations
- **Form 5 Designation of Agent or Operator**
- A copy of Elk Operating Services, LLC's **Waste Management Plan** - *Placed with the waste management plans*
- The required BIA, BLM, and DOGM bonds are being transferred from Resolute Aneth, LLC to Elk Operating Services, LLC and the bond numbers are as follows:
 - BLM Bond: SUR0033475
 - BIA Bond: SUR0033465
 - DOGM Bond: SUR033474 : *Blanket, plugging, Surety Bond*

Please feel free to contact Sherri Robbins at srobbins@resoluteenergy.com or 303-573-4600 ext. 1195 with any questions. Sherri will be an employee of Elk effective January 1, 2018, but until that time, she may be reached at the above mentioned email and phone number.

Sincerely,

A handwritten signature in blue ink that reads "V. Brian Dolan". The signature is written in a cursive style with a large, stylized "V" at the beginning.

V. Brian Dolan
Chief Operating Officer

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>		7. UNIT or CA AGREEMENT NAME: Rutherford Unit
2. NAME OF OPERATOR: Elk Operating Services, LLC		8. WELL NAME and NUMBER: See attached list
3. ADDRESS OF OPERATOR: 1700 Lincoln, Suite 2950 CITY: Denver STATE: CO ZIP: 80203		9. API NUMBER: Attached
PHONE NUMBER: (303) 861-6255		10. FIELD AND POOL, OR WILDCAT: See attached list
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached list		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>1/1/2018</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2018, Resolute Natural Resources resigns as operator of the Greater Aneth Field, Rutherford Unit and Elk Operating Services, LLC is the designated as successor operator of the Greater Aneth Field, Rutherford Unit.

<p>Current Operator: Resolute Natural Resources 1700 Lincoln, Suite 2800 Denver, CO 80203 303-573-4886</p>	<p>New Operator: Elk Operating Services, LLC 1700 Lincoln, Suite 2950 Denver, CO 80203 303-861-6255</p>
--	---

A list of affected producing and water source wells is attached. A separate list of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, Elk Operating Services, LLC's bond coverage will transfer to the following:
BLM Bond # SUR0033475
BIA Bond # SUR0033465
DOGM Bond # SUR0033474

NAME (PLEASE PRINT) <u>Brian Dolan</u>	TITLE <u>Chief Operating Officer</u>
SIGNATURE <u><i>Brian Dolan</i></u>	DATE <u>12/12/2017</u>

(This space for State use only)

APPROVED

JAN 30 2018

DIV. OF OIL, GAS & MINING

BY: *B. Wilson*

4

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
		7. UNIT or CA AGREEMENT NAME: McElmo Unit
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>	8. WELL NAME and NUMBER: See attached list	
2. NAME OF OPERATOR: Resolute Natural Resources (N2700)		9. API NUMBER: Attached
3. ADDRESS OF OPERATOR: 1700 Lincoln, Suite 2800 <small>CITY</small> Denver <small>STATE</small> CO <small>ZIP</small> 80203	PHONE NUMBER: (303) 573-4600	10. FIELD AND POOL, OR WILDCAT: See attached list
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached list		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 1/1/2018	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective January 1, 2018, Resolute Natural Resources resigns as operator of the Greater Aneth Field, McElmo Unit and Elk Operating Services, LLC is the designated as successor operator of the Greater Aneth Field, McElmo Unit.

Current Operator:
Resolute Natural Resources
1700 Lincoln, Suite 2800
Denver, CO 80203
303-573-4886

New Operator:
Elk Operating Services, LLC
1700 Lincoln, Suite 2950
Denver, CO 80203
303-861-6255

A list of affected producing and water source wells is attached to Elk Operating Services, LLC's Change of Operator sundry notice. A separate list of affected injection wells is being submitted by Elk with the UIC Form 5, Transfer of Authority to Inject.

As of the effective date, Elk Operating Services, LLC's bond coverage will transfer to the following:
BLM Bond # SUR0033475
BIA Bond # SUR0033465
DOGM Bond # SUR0033474

NAME (PLEASE PRINT) <u>Patrick Flynn</u>	TITLE <u>Vice President - Governmental & Corporate Affairs</u>
SIGNATURE	DATE <u>12/12/2017</u>

(This space for State use only)

(5/2000)

(See Instructions on Reverse Side)

APPROVED

JAN 30 2018

BY: B. Wise

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached list
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Tribe
		7. UNIT or CA AGREEMENT NAME: Aneth Unit
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Unit Agreement</u>	8. WELL NAME and NUMBER: See attached list	
2. NAME OF OPERATOR: Elk Operating Services, LLC		9. API NUMBER: Attached
3. ADDRESS OF OPERATOR: 1700 Lincoln, Suite 2950 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80203</u>	PHONE NUMBER: (303) 861-6255	10. FIELD AND POOL, OR WILDCAT: See attached list
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached list		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 1/1/2018	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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<p>Current Operator: Resolute Natural Resources 1700 Lincoln, Suite 2800 Denver, CO 80203 303-573-4886</p>	<p>New Operator: Elk Operating Services, LLC 1700 Lincoln, Suite 2950 Denver, CO 80203 303-861-6255</p>
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A list of affected producing and water source wells is attached. A separate list of affected injection wells is being submitted with UIC Form 5, Transfer of Authority to Inject.

As of the effective date, Elk Operating Services, LLC's bond coverage will transfer to the following:
BLM Bond # SUR0033475
BIA Bond # SUR0033465
DOGM Bond # SUR0033474 ✓

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NAME (PLEASE PRINT) <u>Brian Dolan</u>	TITLE <u>Chief Operating Officer</u>
SIGNATURE <u><i>Brian Dolan</i></u>	DATE <u>12/12/2017</u>

(This space for State use only)

APPROVED

JAN 30 2018

DIV. OF OIL, GAS & MINING
B. Wilson

u

197 ct wells

242 ROOMS

API (10-digit)	Tract	UNIT	WELL NAME	WELL NUMBER	TWP	RNG	SEC	QTR-QTR
4303713754	12	RATHERFORD	NAVAJO A 5	21-23	41S	24E	21	NESW
4303715126	06	RATHERFORD	NAVAJO 12-9	09-12	41S	24E	09	NESWNW
4303715127	08	RATHERFORD	NAVAJO 14A-9	09-14A	41S	24E	09	SWSW
4303715336	15	RATHERFORD	NAVAJO 21	28-12	41S	24E	28	SWSWNW
4303715337	14	RATHERFORD	NAVAJO B 12	29-12	41S	24E	29	SWNW
4303715339	14	RATHERFORD	NAVAJO B 11	29-32	41S	24E	29	NESWNE
4303715340	14	RATHERFORD	NAVAJO B-20	29-34	41S	24E	29	SWSE
4303715342	14	RATHERFORD	NAVAJO B 14	30-32	41S	24E	30	NWSWNE
4303715343	14	RATHERFORD	NAVAJO B 5	30-41	41S	24E	30	CNENE
4303715711	07	RATHERFORD	NAVAJO B 3	09-34	41S	24E	09	CSWSE
4303715712	07	RATHERFORD	NAVAJO B 7	10-12	41S	24E	10	CSWNW
4303715713	07	RATHERFORD	NAVAJO B 1	10-14	41S	24E	10	SESWSW
4303715714	07	RATHERFORD	NAVAJO B 4	10-32	41S	24E	10	SWNE
4303715715	12	RATHERFORD	NAVAJO A 6	15-12	41S	24E	15	NWSWNW
4303715717	12	RATHERFORD	NAVAJO A 17	15-32	41S	24E	15	CSWNE
4303715718	12	RATHERFORD	NAVAJO A 32	15-33	41S	24E	15	NWSE
4303715719	12	RATHERFORD	NAVAJO A 15	15-41	41S	24E	15	CNENE
4303715720	12	RATHERFORD	NAVAJO A 13	16-12	41S	24E	16	N2SWNW
4303715721	12	RATHERFORD	NAVAJO A 14	16-14	41S	24E	16	CSWSW
4303715722	12	RATHERFORD	NAVAJO A 9	16-23	41S	24E	16	CNESW
4303715723	12	RATHERFORD	NAVAJO A 7	16-32	41S	24E	16	CSWNE
4303715725	12	RATHERFORD	NAVAJO A 2	16-41	41S	24E	16	CNENE
4303715726	11	RATHERFORD	DESERT A 5	17-12	41S	24E	17	W2SWNW
4303715727	11	RATHERFORD	DESERT A 28	17-14	41S	24E	17	CSWSW
4303715728	11	RATHERFORD	DESERT A 7	17-23	41S	24E	17	S2NESW
4303715729	11	RATHERFORD	DESERT A 13	17-32	41S	24E	17	NWSWNE
4303715730	11	RATHERFORD	DESERT A 25	17-34	41S	24E	17	SESWSE
4303715731	11	RATHERFORD	DESERT 12	17-41	41S	24E	17	NENENE
4303715732	11	RATHERFORD	DESERT A W-33	17-44	41S	24E	17	CSESE
4303715733	11	RATHERFORD	DESERT A 1	18-11	41S	24E	18	SENWNW
4303715734	11	RATHERFORD	DESERT A 8	18-13	41S	24E	18	W2NWSW
4303715735	11	RATHERFORD	DESERT A 11	18-14	41S	24E	18	NWSWSW
4303715736	11	RATHERFORD	DESERT-A 2	18-32	41S	24E	18	SESWNE
4303715737	11	RATHERFORD	DESERT A 14	18-34	41S	24E	18	NESWSE
4303715738	11	RATHERFORD	DESERT-A 4	18-41	41S	24E	18	CNENE
4303715739	11	RATHERFORD	DESERT A 17	19-12	41S	24E	19	SWNW
4303715741	11	RATHERFORD	DESERT A 15	19-21	41S	24E	19	W2NENW
4303715742	11	RATHERFORD	DESERT A 26	19-23	41S	24E	19	NESW
4303715743	11	RATHERFORD	DESERT A 22	19-32	41S	24E	19	CSWNE
4303715744	11	RATHERFORD	DESERT A 29	19-34	41S	24E	19	CSWSE
4303715746	11	RATHERFORD	DESERT A 21	20-12	41S	24E	20	CSWNW
4303715747	11	RATHERFORD	DESERT A 10	20-14	41S	24E	20	SWSW
4303715748	11	RATHERFORD	DESERT A 18	20-23	41S	24E	20	NESW
4303715749	11	RATHERFORD	DESERT A 30	20-32	41S	24E	20	SWNE
4303715751	11	RATHERFORD	DESERT A 27	20-41	41S	24E	20	NENE
4303715753	12	RATHERFORD	NAVAJO-A 10	21-14	41S	24E	21	W2SWSW
4303715839	01	RATHERFORD	N DESERT CREEK 24-1	01-24	41S	23E	01	S2SESW
4303715841	01	RATHERFORD	N DESERT CREEK 42-11	11-42	41S	23E	11	SWSENE
4303715842	01	RATHERFORD	RATHERFORD 44-11	11-44	41S	23E	11	E2SESE
4303715843	01	RATHERFORD	DESERT CREEK 11-12 N	12-11	41S	23E	12	S2NWNW
4303715845	01	RATHERFORD	DESERT CREEK 22-12 N	12-22	41S	23E	12	SENW
4303715846	01	RATHERFORD	RATHERFORD 23-12	12-23	41S	23E	12	S2NESW
4303715847	01	RATHERFORD	DESERT CREEK 31-12 N	12-31	41S	23E	12	SWNWNNE
4303715848	01	RATHERFORD	N DESERT CREEK 33-12	12-33	41S	23E	12	SWNWSE
4303715850	01	RATHERFORD	N DESERT CREEK 42-12	12-42	41S	23E	12	SWSWNE
4303715851	10	RATHERFORD	DESERT CRK N 13-13	13-13	41S	23E	13	CNWSW
4303715852	10	RATHERFORD	DESERT CRK N 22-13	13-22	41S	23E	13	SENW
4303715853	10	RATHERFORD	DESERT CRK N 24-13	13-24	41S	23E	13	SESW
4303715855	10	RATHERFORD	DESERT CRK N 33-13	13-33	41S	23E	13	SENWSE
4303715856	10	RATHERFORD	DESERT CRK N 41-13	13-41	41S	23E	13	CNENE

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4303715857	10	RATHERFORD	DESERT CREEK 42-13	13-42	41S	23E	13	SESENE
4303715858	10	RATHERFORD	N DESERT CREEK 32-14	14-32	41S	23E	14	SESWNE
4303715860	10	RATHERFORD	DESERT CRK N 42-14	14-42	41S	23E	14	SENE
4303715862	10	RATHERFORD	RATHERFORD 31-24	24-31	41S	23E	24	NENWNE
4303715863	10	RATHERFORD	DESERT CREEK 42-24N	24-42	41S	23E	24	CSENE
4303715984	02	RATHERFORD	NAVAJO B 8	06-14	41S	24E	06	CSWSW
4303715985	02	RATHERFORD	NAVAJO B-12-7	07-12	41S	24E	07	SWSWNW
4303715986	02	RATHERFORD	NAVAJO B 1	07-14	41S	24E	07	N2SWSW
4303715989	02	RATHERFORD	NAVAJO B 5	07-34	41S	24E	07	NWSWSE
4303715991	02	RATHERFORD	NAVAJO B 12-8	08-12	41S	24E	08	SWNW
4303715992	02	RATHERFORD	NAVAJO 9B	08-14	41S	24E	08	NWSWSW
4303715993	02	RATHERFORD	NAVAJO B 21-8	08-21	41S	24E	08	NENW
4303715994	02	RATHERFORD	NAVAJO B 23-8	08-23	41S	24E	08	SENSW
4303715996	02	RATHERFORD	NAVAJO 34-8	08-34	41S	24E	08	CSWSE
4303716163	03	RATHERFORD	NAVAJO-Y 1	04-14	41S	24E	04	SWSWSW
4303716164	04	RATHERFORD	NAVAJO X 2	04-34	41S	24E	04	SWSE
4303716385	01	RATHERFORD	N DESERT CRK 34-1	01-34	41S	23E	01	SWSE
4303716394	02	RATHERFORD	6 NAVAJO-B 1	07-21	41S	24E	07	SWNENW
4303716398	08	RATHERFORD	NAVAJO-23 9	09-23	41S	24E	09	CNESW
4303716403	09	RATHERFORD	NAVAJO W 2	10-43	41S	24E	10	E2NESE
4303716404	01	RATHERFORD	N DESERT CRK 13-12	12-13	41S	23E	12	CNWSW
4303716407	10	RATHERFORD	RATHERFORD 44-13	13-44	41S	23E	13	SESE
4303716414	12	RATHERFORD	NAVAJO A 12	16-21	41S	24E	16	NENW
4303716415	12	RATHERFORD	NAVAJO A 8	16-43	41S	24E	16	NESE
4303716416	11	RATHERFORD	DESERT A 9	17-21	41S	24E	17	NENW
4303716417	11	RATHERFORD	DESERT A 20	17-43	41S	24E	17	CNESE
4303716418	11	RATHERFORD	DESERT A 3	18-21	41S	24E	18	W2NENW
4303716420	11	RATHERFORD	DESERT A 23	19-43	41S	24E	19	NESE
4303716423	11	RATHERFORD	DESERT A 31	20-21	41S	24E	20	NENW
4303716424	11	RATHERFORD	DESERT A 19	20-43	41S	24E	20	NWNESE
4303716425	12	RATHERFORD	NAVAJO A 20	21-21	41S	24E	21	E2NENW
4303716431	15	RATHERFORD	NAVAJO A 19	28-21	41S	24E	28	E2NENW
4303716432	14	RATHERFORD	NAVAJO B 4	29-21	41S	24E	29	NENW
4303716433	14	RATHERFORD	NAVAJO B 10	29-41	41S	24E	29	NENENE
4303716434	14	RATHERFORD	NAVAJO 13	29-43H	41S	24E	29	CNESE
4303730244	11	RATHERFORD	RATHERFORD UNIT 18-23	18-23	41S	24E	18	NENESW
4303730448	12	RATHERFORD	RATHERFORD UNIT 15-42	15-42	41S	24E	15	SWSENE
4303730449	12	RATHERFORD	RATHERFORD UNIT 15-22	15-22	41S	24E	15	SENE
4303730451	09	RATHERFORD	RATHERFORD UNIT 10-44	10-44	41S	24E	10	NESESE
4303730914	14	RATHERFORD	RATHERFORD 29-31	29-31	41S	24E	29	SWNWNNE
4303730915	11	RATHERFORD	RATHERFORD UNIT 20-44	20-44	41S	24E	20	SWSESE
4303730916	11	RATHERFORD	RATHERFORD 19-42	19-42	41S	24E	19	N2SENE
4303730917	11	RATHERFORD	RATHERFORD 20-13	20-13	41S	24E	20	NWNWSW
4303730918	11	RATHERFORD	RATHERFORD UNIT 20-24	20-24	41S	24E	20	NWSESW
4303730930	11	RATHERFORD	RATHERFORD UNIT 20-22	20-22H	41S	24E	20	SESENW
4303730931	11	RATHERFORD	RATHERFORD UNIT 20-33	20-33	41S	24E	20	SWNWSE
4303730932	14	RATHERFORD	RATHERFORD UNIT 29-33	29-33	41S	24E	29	SENESE
4303730937	14	RATHERFORD	RATHERFORD UNIT 29-42	29-42	41S	24E	29	N2SENE
4303731044	11	RATHERFORD	RATHERFORD UNIT 17-24	17-24	41S	24E	17	N2SESW
4303731045	11	RATHERFORD	RATHERFORD UNIT 18-44	18-44	41S	24E	18	CSESE
4303731046	11	RATHERFORD	RATHERFORD UNIT 19-22	19-22	41S	24E	19	N2SENE
4303731047	11	RATHERFORD	RATHERFORD UNIT 19-31	19-31	41S	24E	19	N2NWNNE
4303731048	11	RATHERFORD	RATHERFORD UNIT 19-33	19-33	41S	24E	19	CNWSW
4303731049	11	RATHERFORD	RATHERFORD UNIT 20-11	20-11	41S	24E	20	N2NWNW
4303731050	11	RATHERFORD	RATHERFORD UNIT 20-31	20-31	41S	24E	20	E2NWNNE
4303731051	11	RATHERFORD	RATHERFORD UNIT 20-42	20-42	41S	24E	20	CSENE
4303731053	14	RATHERFORD	RATHERFORD UNIT 29-11	29-11	41S	24E	29	SWNWNW
4303731079	11	RATHERFORD	RATHERFORD UNIT 18-24	18-24	41S	24E	18	N2SESW
4303731080	11	RATHERFORD	RATHERFORD UNIT 19-11	19-11	41S	24E	19	CNWNW
4303731081	11	RATHERFORD	RATHERFORD UNIT 19-44	19-44	41S	24E	19	CSESE
4303731082	14	RATHERFORD	RATHERFORD UNIT 29-22	29-22	41S	24E	29	SWSENE

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4303731126	01	RATHERFORD	RATHERFORD UNIT 12-34	12-34	41S	23E	12	NESWSE
4303731127	10	RATHERFORD	RATHERFORD UNIT 13-12	13-12	41S	23E	13	NWSWNW
4303731129	10	RATHERFORD	RATHERFORD UNIT 13-23	13-23	41S	23E	13	W2NESW
4303731130	10	RATHERFORD	RATHERFORD UNIT 13-34	13-34	41S	23E	13	CSWSE
4303731131	10	RATHERFORD	RATHERFORD UNIT 13-43	13-43	41S	23E	13	SWNESE
4303731132	10	RATHERFORD	RATHERFORD UNIT 24-41	24-41	41S	23E	24	W2NENE
4303731133	11	RATHERFORD	RATHERFORD UNIT 17-13	17-13	41S	24E	17	N2NWSW
4303731134	11	RATHERFORD	RATHERFORD UNIT 17-33	17-33	41S	24E	17	E2NWSE
4303731135	11	RATHERFORD	RATHERFORD UNIT 18-33	18-33	41S	24E	18	S2NWSE
4303731151	01	RATHERFORD	RATHERFORD UNIT 12-24	12-24	41S	23E	12	N2SESW
4303731152	10	RATHERFORD	RATHERFORD U 13-W-11	13-11	41S	23E	13	N2NWNW
4303731153	11	RATHERFORD	RATHERFORD UNIT 18-12	18-12	41S	24E	18	W2SWNW
4303731162	01	RATHERFORD	RATHERFORD UNIT 1-14	01-14	41S	23E	01	CSWSW
4303731163	02	RATHERFORD	RATHERFORD UNIT 7-11	07-11	41S	24E	07	E2NWNW
4303731164	02	RATHERFORD	RATHERFORD UNIT 7-13	07-13	41S	24E	07	NENWSW
4303731165	02	RATHERFORD	RATHERFORD UNIT 7-22	07-22	41S	24E	07	CSENW
4303731166	02	RATHERFORD	RATHERFORD UNIT 7-24	07-24	41S	24E	07	NESESW
4303731169	11	RATHERFORD	RATHERFORD UNIT 17-11	17-11	41S	24E	17	SENWNW
4303731170	11	RATHERFORD	RATHERFORD UNIT 17-22	17-22	41S	24E	17	NWSENW
4303731177	11	RATHERFORD	RATHERFORD UNIT 17-42	17-42	41S	24E	17	CSENE
4303731178	11	RATHERFORD	RATHERFORD UNIT 17-31	17-31	41S	24E	17	N2NWNE
4303731181	11	RATHERFORD	RATHERFORD UNIT 18-31	18-31	41S	24E	18	SWNWNE
4303731182	11	RATHERFORD	RATHERFORD UNIT 18-42	18-42	41S	24E	18	SWSENE
4303731189	02	RATHERFORD	RATHERFORD UNIT 7-44	07-44	41S	24E	07	NESESE
4303731190	01	RATHERFORD	RATHERFORD UNIT 12-12	12-12	41S	23E	12	N2SWNW
4303731201	01	RATHERFORD	RATHERFORD UNIT 12-21	12-21	41S	23E	12	CNENW
4303731202	01	RATHERFORD	RATHERFORD UNIT 12-43	12-43	41S	23E	12	N2NESE
4303731203	01	RATHERFORD	RATHERFORD UNIT 12-32	12-32	41S	23E	12	NESWNE
4303731236	11	RATHERFORD	RATHERFORD UNIT 18-22	18-22	41S	24E	18	SESENW
4303731543	01	RATHERFORD	RATHERFORD UNIT 12W-44A	12-44A	41S	23E	12	NWSESE
4303731544	01	RATHERFORD	RATHERFORD UNIT 11-41	11-41	41S	23E	11	SESENE
4303731589	10	RATHERFORD	RATHERFORD UNIT 13-14	13-14	41S	23E	13	CSWSW
4303731590	11	RATHERFORD	RATHERFORD UNIT 20-67	20-67	41S	24E	20	NWNESW
4303731591	11	RATHERFORD	RATHERFORD UNIT 20-68	20-68	41S	24E	20	SENWSW
4303731592	11	RATHERFORD	RATHERFORD UNIT 20-66	20-66	41S	24E	20	NESWNW
4303731593	10	RATHERFORD	RATHERFORD UNIT 24-32	24-32	41S	23E	24	SESWNE
4303731596	11	RATHERFORD	RATHERFORD UNIT 19-97	19-97	41S	24E	19	SESENE
4303731622	01	RATHERFORD	RATHERFORD UNIT 11-43	11-43	41S	23E	11	NESE
4303731623	10	RATHERFORD	RATHERFORD UNIT 14-41	14-41	41S	23E	14	NENE
4303731717	10	RATHERFORD	RATHERFORD UNIT 14-31	14-31	41S	23E	14	SENWNE
4303731718	11	RATHERFORD	RATHERFORD UNIT 18-43B	18-43B	41S	24E	18	NENESE
4303731719	11	RATHERFORD	RATHERFORD UNIT 19-13H	19-13H	41S	24E	19	CNWSW
4303731720	12	RATHERFORD	RATHERFORD UNIT 21-24	21-24	41S	24E	21	SESESW
4303731753	12	RATHERFORD	RATHERFORD 21-67	21-67	41S	24E	21	NESW
4303731754	11	RATHERFORD	RATHERFORD UNIT 19-24	19-24	41S	24E	19	SESW
4303731758	12	RATHERFORD	RATHERFORD 21-77	21-77	41S	24E	21	NWSE
4303731768	12	RATHERFORD	RATHERFORD UNIT 16-77	16-77	41S	24E	16	NESW
4303750025	02	RATHERFORD	RATHERFORD UNIT 08-32R	08-32R	41S	24E	08	SWNE
4303715620	18	RATHERFORD	NAVAJO-B 1	03-12	41S	24E	03	SWNW
4303715745	11	RATHERFORD	DESERT A 24	19-41	41S	24E	19	CNENE
4303715750	11	RATHERFORD	DESERT A 16	20-34	41S	24E	20	SWSE
4303715755	12	RATHERFORD	NAVAJO-A 22	21-32	41S	24E	21	SWNE
4303715756	12	RATHERFORD	NAVAJO-A 23	21-34	41S	24E	21	SWSE
4303715844	01	RATHERFORD	N DESERT CREEK 14-12	12-14	41S	23E	12	CSWSW
4303715854	10	RATHERFORD	DESERT CRK N 31-13	13-31	41S	23E	13	CNWNE
4303715983	02	RATHERFORD	NAVAJO B 34-5	05-34	41S	24E	05	SWSE
4303715990	02	RATHERFORD	NAVAJO B 41-7	07-41	41S	24E	07	NENE
4303715995	02	RATHERFORD	NAVAJO B 32-8	08-32	41S	24E	08	CSWNE
4303715997	02	RATHERFORD	NAVAJO 41-8B	08-41	41S	24E	08	CNENE
4303715998	13	RATHERFORD	NAVAJO-E 12-14	14-12	41S	24E	14	SWSWNW
4303716167	09	RATHERFORD	NAVAJO TRIBE W 3	11-14	41S	24E	11	SWSW

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4303716386	01	RATHERFORD	N DESERT CRK 44-2	02-44	41S	23E	02	SESE
4303716395	02	RATHERFORD	NAVAJO B 43-7	07-43	41S	24E	07	N2NESE
4303716396	02	RATHERFORD	NAVAJO 43-8 B	08-43B	41S	24E	08	CNESE
4303716400	07	RATHERFORD	NAVAJO B 5	09-43	41S	24E	09	CNESE
4303716401	07	RATHERFORD	NAVAJO B 6	10-21	41S	24E	10	NENW
4303716402	07	RATHERFORD	NAVAJO B 2	10-23	41S	24E	10	CNESW
4303716406	10	RATHERFORD	N DESERT CRK 32-13	13-32	41S	23E	13	SWNE
4303716411	12	RATHERFORD	NAVAJO-A 11	15-21	41S	24E	15	NENW
4303716412	12	RATHERFORD	NAVAJO A 19	15-23	41S	24E	15	NESW
4303716413	12	RATHERFORD	NAVAJO A 24	15-43	41S	24E	15	SWNESE
4303716435	14	RATHERFORD	NAVAJO B 16	30-21	41S	24E	30	NENW
4303730446	15	RATHERFORD	RATHERFORD UNIT 28-11	28-11	41S	24E	28	NWNWNW
4303731052	12	RATHERFORD	RATHERFORD UNIT 21-11	21-11	41S	24E	21	CNWNW
4303731128	10	RATHERFORD	RATHERFORD UNIT 13-21	13-21	41S	23E	13	W2NENW
4303731168	12	RATHERFORD	RATHERFORD UNIT 16-13	16-13	41S	24E	16	CNWSW

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261 ct wells
314 ct R0003

API (10-digit)	Tract	UNIT	WELL NAME	WELL NUMBER	TWP	RNG	SEC	QTR-QTR
4303715493	06	MCELMO CREEK	NAVAJO TRACT 13 4	F-17	41S	24E	12	NW
4303715494	06	MCELMO CREEK	NAVAJO 13 5	G-18	41S	24E	12	CSENW
4303715495	06	MCELMO CREEK	NAVAJO 13-2	H-15	41S	24E	01	CNWSE
4303715496	06	MCELMO CREEK	NAVAJO-29 2	H-17	41S	24E	12	NWNE
4303715498	12	MCELMO CREEK	NAVAJO TRACT 114 6	J-17	41S	25E	07	SWNWNW
4303715499	12	MCELMO CREEK	NAVAJO TRACT 114 27	J-21	41S	25E	18	NWNWNW
4303715500	12	MCELMO CREEK	NAVAJO TRACT 114 30	J-23	41S	25E	18	NWSW
4303715501	16	MCELMO CREEK	NAVAJO 115 2	J-25	41S	25E	19	NWNW
4303715503	12	MCELMO CREEK	NAVAJO-114 24	K-20	41S	25E	07	W2SESW
4303715505	12	MCELMO CREEK	NAVAJO 114 21	L-19	41S	25E	07	NWSE
4303715506	12	MCELMO CREEK	NAVAJO 114 22	L-21	41S	25E	18	S2NWNE
4303715507	12	MCELMO CREEK	NAVAJO 114 29	L-23	41S	25E	18	CNWSE
4303715508	16	MCELMO CREEK	NAVAJO 115 6	L-25	41S	25E	19	CNWNNE
4303715510	12	MCELMO CREEK	NAVAJO 114 17	M-18	41S	25E	07	SENE
4303715511	12	MCELMO CREEK	NAVAJO 114 23	M-20	41S	25E	07	SESE
4303715512	12	MCELMO CREEK	NAVAJO 114 26	M-22	41S	25E	18	NESENE
4303715513	12	MCELMO CREEK	NAVAJO 114 31	M-24	41S	25E	18	SESE
4303715514	12	MCELMO CREEK	NAVAJO TRACT 114 1	N-17	41S	25E	08	SENWNW
4303715515	12	MCELMO CREEK	NAVAJO 114 2	N-19	41S	25E	08	SWNWSW
4303715516	12	MCELMO CREEK	NAVAJO 114 3	N-21	41S	25E	17	CNWNW
4303715517	12	MCELMO CREEK	NAVAJO 114 11	O-18	41S	25E	08	NWSENW
4303715518	12	MCELMO CREEK	NAVAJO 114 14	O-20	41S	25E	08	SESW
4303715519	12	MCELMO CREEK	NAVAJO 114 10	P-17	41S	25E	08	CNWNE
4303715520	12	MCELMO CREEK	NAVAJO 114 4	P-19	41S	25E	08	NWSE
4303715521	12	MCELMO CREEK	NAVAJO 114 13	Q-18	41S	25E	08	CSENE
4303715522	12	MCELMO CREEK	NAVAJO 114 12	Q-20	41S	25E	08	SWSESE
4303715617	18	MCELMO CREEK	NAVAJO B-2	F-11	40S	24E	36	NWSW
4303715618	18	MCELMO CREEK	NAVAJO-B 1	G-12	40S	24E	36	SESW
4303715619	17	MCELMO CREEK	NAVAJO-A 1	I-12	40S	24E	36	SESESE
4303715703	21	MCELMO CREEK	NAVAJO E 1	C-19	41S	24E	11	N2NESW
4303715706	07	MCELMO CREEK	NAVAJO-H 1	E-18	41S	24E	11	SENE
4303715707	09	MCELMO CREEK	NAVAJO-J- 1	F-20	41S	24E	12	SWSWSW
4303715708	11A	MCELMO CREEK	NAVAJO-F 1	H-20	41S	24E	12	SWSE
4303715709	10	MCELMO CREEK	NAVAJO C 1	I-18	41S	24E	12	NESENE
4303715710	11	MCELMO CREEK	NAVAJO C 2	I-20	41S	24E	12	NESESE
4303715947	14	MCELMO CREEK	NAVAJO E 12-13	F-22	41S	24E	13	NESWNW
4303715950	14	MCELMO CREEK	NAVAJO E 32-13	H-22	41S	24E	13	CSWNE
4303715951	14	MCELMO CREEK	NAVAJO E 34-13	H-24	41S	24E	13	SESWSE
4303715952	14	MCELMO CREEK	NAVAJO E 32-24	H-26	41S	24E	24	SWSWNE
4303715953	14	MCELMO CREEK	NAVAJO E 41-13	I-21	41S	24E	13	S2NENE
4303715954	03A	MCELMO CREEK	NAVAJO C-13-6	J-15	41S	25E	06	SWNWSW
4303715955	03A	MCELMO CREEK	NAVAJO-C 24-31	K-12	40S	25E	31	NWSESW
4303715956	03A	MCELMO CREEK	NAVAJO C 22-6	K-14	41S	25E	06	NWSENW
4303715957	03A	MCELMO CREEK	NAVAJO C 9	K-16	41S	25E	06	SESW
4303715959	03A	MCELMO CREEK	NAVAJO C 31-6	L-13	41S	25E	06	NWNE
4303715960	03A	MCELMO CREEK	NAVAJO C 33-6	L-15	41S	25E	06	SENWSE
4303715961	03A	MCELMO CREEK	NAVAJO-C 42-31	M-10	40S	25E	31	SENE
4303715962	03A	MCELMO CREEK	NAVAJO-C 1	M-12	40S	25E	31	SESESE
4303715963	03A	MCELMO CREEK	NAVAJO C 42-6	M-14	41S	25E	06	SWSENE
4303715964	03A	MCELMO CREEK	NAVAJO-C 11-32	N-09	40S	25E	32	NWNW
4303715965	03A	MCELMO CREEK	NAVAJO-C 13-32	N-11	40S	25E	32	NWNWSW
4303715966	03A	MCELMO CREEK	NAVAJO C 11-5	N-13	41S	25E	05	NWNW
4303715967	03C	MCELMO CREEK	MCELMO CREEK UNIT 0-10	O-10	40S	25E	32	SENW
4303715968	03A	MCELMO CREEK	NAVAJO-C 24-32	O-12	40S	25E	32	SESW
4303715969	03A	MCELMO CREEK	NAVAJO C 3	O-16	41S	25E	05	CSSEW
4303715970	12	MCELMO CREEK	MCELMO CREEK UNIT O-22A	O-22A	41S	25E	17	SENW
4303715971	03A	MCELMO CREEK	NAVAJO-C 33-32	P-11	40S	25E	32	NWSE
4303715972	03A	MCELMO CREEK	NAVAJO C 8	P-15	41S	25E	05	CNWSE
4303715973	03A	MCELMO CREEK	NAVAJO-C 42-32	Q-10	40S	25E	32	SENE
4303715975	03A	MCELMO CREEK	NAVAJO C 5	Q-16	41S	25E	05	SESE

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4303715976	13	MCELMO CREEK	NAVAJO J 1	R-17	41S	25E	09	SWNWNW
4303715978	13	MCELMO CREEK	NAVAJO J 22-9	S-18	41S	25E	09	NWSENW
4303715980	13	MCELMO CREEK	NAVAJO-J 22-16	S-22	41S	25E	16	CSENNW
4303715982	13	MCELMO CREEK	NAVAJO-J 42-9	U-18	41S	25E	09	SWSENE
4303716143	19	MCELMO CREEK	NAVAJO R 3	G-14	41S	24E	01	CSENNW
4303716144	05	MCELMO CREEK	NAVAJO-R 5	G-16	41S	24E	01	NWSESW
4303716145	05	MCELMO CREEK	NAVAJO R 1	I-14	41S	24E	01	CSENE
4303716146	02	MCELMO CREEK	NAVAJO F 13	O-08	40S	25E	29	SESW
4303716147	04	MCELMO CREEK	NAVAJO P 20	R-09	40S	25E	33	NWNW
4303716148	04	MCELMO CREEK	NAVAJO P 4	R-13	41S	25E	04	CNWNW
4303716149	04	MCELMO CREEK	NAVAJO P 1	R-15	41S	25E	04	NWNWSW
4303716150	04	MCELMO CREEK	NAVAJO P 9	S-12	40S	25E	33	SESESW
4303716151	04	MCELMO CREEK	NAVAJO P 3	S-14	41S	25E	04	SWSENW
4303716152	04	MCELMO CREEK	NAVAJO P 2	S-16	41S	25E	04	W2SESW
4303716155	04	MCELMO CREEK	NAVAJO-P 13	U-12	40S	25E	33	SESE
4303716156	04	MCELMO CREEK	NAVAJO P 8	U-14	41S	25E	04	CSENE
4303716157	04	MCELMO CREEK	NAVAJO P 7	U-16	41S	25E	04	SESE
4303716265	24	MCELMO CREEK	NAVAJO-C 1	C-14	41S	24E	02	SENNW
4303716267	25	MCELMO CREEK	NAVAJO-B 2	D-13	41S	24E	02	NWNE
4303716268	25	MCELMO CREEK	NAVAJO-B 1	E-14	41S	24E	02	SESENE
4303716338	22	MCELMO CREEK	NAVAJO D 2	A-17	41S	24E	10	NENE
4303716341	20	MCELMO CREEK	NAVAJO-C 2	D-15	41S	24E	02	NWSE
4303716342	08	MCELMO CREEK	NAVAJO-D 2	E-19	41S	24E	11	CNESE
4303716343	14	MCELMO CREEK	NAVAJO E 41-14	E-21	41S	24E	14	NENE
4303716344	14	MCELMO CREEK	NAVAJO 43-14	E-23	41S	24E	14	NESE
4303716345	19	MCELMO CREEK	NAVAJO-R 4	F-13	41S	24E	01	SWNWNW
4303716346	09	MCELMO CREEK	NAVAJO J 2	G-19	41S	24E	12	NESW
4303716348	14	MCELMO CREEK	NAVAJO E 23-13	G-23	41S	24E	13	NWNESW
4303716349	14	MCELMO CREEK	NAVAJO E 21-24	G-25	41S	24E	24	CNENW
4303716350	17	MCELMO CREEK	NAVAJO-A 2	H-11	40S	24E	36	NWSE
4303716351	05	MCELMO CREEK	NAVAJO-R 2	H-13	41S	24E	01	NWNWNE
4303716352	14	MCELMO CREEK	NAVAJO-E 43-13	I-23	41S	24E	13	CNESE
4303716353	14	MCELMO CREEK	NAVAJO E 3	I-25	41S	24E	24	NENE
4303716354	03A	MCELMO CREEK	NAVAJO-C 13-31	J-11	40S	25E	31	CNWSW
4303716355	03A	MCELMO CREEK	NAVAJO C 11-6	J-13	41S	25E	06	NWNWNW
4303716356	12	MCELMO CREEK	NAVAJO 114 20	J-19	41S	25E	07	NWSW
4303716357	12	MCELMO CREEK	NAVAJO 114 18	K-18	41S	25E	07	SENNW
4303716358	12	MCELMO CREEK	NAVAJO 114 25	K-24	41S	25E	18	SESW
4303716359	03A	MCELMO CREEK	NAVAJO C 31-31	L-09	40S	25E	31	CNWNW
4303716360	12	MCELMO CREEK	NAVAJO 9	L-17	41S	25E	07	NWNE
4303716361	03A	MCELMO CREEK	NAVAJO C 2	M-16	41S	25E	06	SESE
4303716362	02	MCELMO CREEK	NAVAJO F 3	N-07	40S	25E	29	NWSW
4303716363	03A	MCELMO CREEK	NAVAJO C 6	N-15	41S	25E	05	NENWSW
4303716365	03A	MCELMO CREEK	NAVAJO C 22-5	O-14	41S	25E	05	SENNW
4303716367	03A	MCELMO CREEK	NAVAJO-C 31-32	P-09	40S	25E	32	NWNE
4303716368	03A	MCELMO CREEK	NAVAJO C 31-5	P-13	41S	25E	05	NWNE
4303716369	12	MCELMO CREEK	NAVAJO 114 8	P-21	41S	25E	17	CNWNW
4303716373	13	MCELMO CREEK	NAVAJO 2	R-19	41S	25E	09	CNWSW
4303716374	13	MCELMO CREEK	NAVAJO-J 11-16	R-21	41S	25E	16	NWNW
4303716375	04	MCELMO CREEK	NAVAJO P 15	S-10	40S	25E	33	CSENNW
4303716377	01	MCELMO CREEK	NAVAJO 7	T-08	40S	25E	28	CSWSE
4303716378	04	MCELMO CREEK	NAVAJO P 6	T-13	41S	25E	04	NWNWNE
4303716379	04	MCELMO CREEK	NAVAJO P 5	T-15	41S	25E	04	NWSE
4303716380	13	MCELMO CREEK	NAVAJO 31-9	T-17	41S	25E	09	SENNW
4303716381	04	MCELMO CREEK	NAVAJO P 16	U-10	40S	25E	33	SENNW
4303716383	04	MCELMO CREEK	NAVAJO P 12	V-13	41S	25E	03	CNWNW
4303716384	04	MCELMO CREEK	NAVAJO P 10	V-15	41S	25E	03	W2NWSW
4303720184	07	MCELMO CREEK	MCELMO CREEK UNIT F-18	F-18	41S	24E	12	S2SWNW
4303720304	11A	MCELMO CREEK	MCELMO CREEK UNIT H-19	H-19	41S	24E	12	NWSE
4303730040	03A	MCELMO CREEK	MCELMO CREEK L-12	L-12	40S	25E	31	SESWSE
4303730074	04	MCELMO CREEK	MCELMO CREEK UNIT T-12	T-12	40S	25E	31	SENNW

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4303730080	04	MCELMO CREEK	MCELMO CREEK T-09A	T-09A	40S	25E	33	SWNWNE
4303730179	04	MCELMO CREEK	MCELMO CREEK UNIT R-11A	R-11A	40S	25E	33	NENWSW
4303730180	14	MCELMO CREEK	MCELMO CREEK UNIT I-24	I-24	41S	24E	13	E2SESE
4303730202	04	MCELMO CREEK	MCU R-14	R-14	41S	25E	04	SWSWNW
4303730255	19	MCELMO CREEK	MCU F-14	F-14	41S	24E	01	SESWNW
4303730256	07	MCELMO CREEK	MCU D-18	D-18	41S	24E	11	SWSWNE
4303730257	05	MCELMO CREEK	MCU I-13	I-13	41S	24E	01	NENENE
4303730267	12	MCELMO CREEK	MCELMO CREEK P-18	P-18	41S	25E	08	NESWNE
4303730269	12	MCELMO CREEK	MCELMO CREEK UNIT N-20	N-20	41S	25E	08	NESWSW
4303730270	12	MCELMO CREEK	MCELMO CREEK UNIT O-19	O-19	41S	25E	08	SENESE
4303730271	12	MCELMO CREEK	MCELMO CREEK UNIT Q-17	Q-17	41S	25E	08	SENESE
4303730272	04	MCELMO CREEK	MCELMO CREEK UNIT R-16	R-16	41S	25E	04	SWSWSW
4303730275	03A	MCELMO CREEK	MCELMO CREEK UNIT O-15	O-15	41S	25E	05	NENESW
4303730276	03A	MCELMO CREEK	MCELMO CREEK UNIT P-14	P-14	41S	25E	05	NESWNE
4303730277	03A	MCELMO CREEK	MCELMO CREEK UNIT N-16	N-16	41S	25E	05	NESWSW
4303730278	03B	MCELMO CREEK	MCELMO CREEK UNIT P-12	P-12	40S	25E	32	NWSWSE
4303730280	03A	MCELMO CREEK	MCELMO CREEK UNIT O-13	O-13	41S	25E	05	NENENW
4303730281	03A	MCELMO CREEK	MCELMO CREEK UNIT N-14	N-14	41S	25E	05	SESWNW
4303730282	03A	MCELMO CREEK	MCELMO CRK UNIT O-11	O-11	40S	25E	32	NWNESW
4303730283	03A	MCELMO CREEK	MCELMO CRK UNIT Q-11	Q-11	40S	25E	32	NWNESE
4303730284	03A	MCELMO CREEK	MCELMO CREEK UNIT P-10	P-10	40S	25E	32	SWNE
4303730286	12	MCELMO CREEK	MCU N-18	N-18	41S	25E	08	NWSWNW
4303730287	03A	MCELMO CREEK	MCU P-16	P-16	41S	25E	05	NESWSE
4303730288	03A	MCELMO CREEK	MCU Q-13	Q-13	41S	25E	05	SWNENE
4303730289	12	MCELMO CREEK	MCELMO CREEK O-17	O-17	41S	25E	08	SWNENW
4303730290	03A	MCELMO CREEK	MCU MCELMO CREEK Q-15	Q-15	41S	25E	05	NENESE
4303730291	03A	MCELMO CREEK	MCELMO CREEK N-12	N-12	40S	25E	32	NESWSW
4303730302	12	MCELMO CREEK	MCU K-21	K-21	41S	25E	18	SWNENW
4303730303	12	MCELMO CREEK	MCU M-21	M-21	41S	25E	18	SENESE
4303730304	03A	MCELMO CREEK	MCU N-10	N-10	40S	25E	32	SWSWNW
4303730306	12	MCELMO CREEK	MCU J-20	J-20	41S	25E	07	NWSWSW
4303730307	12	MCELMO CREEK	MCU M-19	M-19	41S	25E	07	NWNESE
4303730313	12	MCELMO CREEK	MCU L-20	L-20	41S	25E	07	SESWSE
4303730314	12	MCELMO CREEK	MCU M-17	M-17	41S	25E	07	NWNENE
4303730315	03A	MCELMO CREEK	MCU M-15	M-15	41S	25E	06	SENESE
4303730318	12	MCELMO CREEK	MCELMO CREEK UNIT J-18	J-18	41S	25E	07	NESWNW
4303730319	12	MCELMO CREEK	MCELMO CREEK L-18	L-18	41S	25E	07	NESWNE
4303730320	03A	MCELMO CREEK	MCELMO CREEK UNIT M-13	M-13	41S	25E	06	SENESE
4303730321	03A	MCELMO CREEK	MCU J-14	J-14	41S	25E	06	NWSWNW
4303730323	03A	MCELMO CREEK	MCELMO CREEK L-14	L-14	41S	25E	06	NESWNE
4303730324	03A	MCELMO CREEK	MCU L-16	L-16	41S	25E	06	SESWSE
4303730326	03A	MCELMO CREEK	MCU K-15	K-15	41S	25E	06	SWNESW
4303730327	12	MCELMO CREEK	MCU K-19	K-19	41S	25E	07	NWNESW
4303730328	12	MCELMO CREEK	MCELMO CREEK K-17	K-17	41S	25E	07	SWNENW
4303730336	12	MCELMO CREEK	MCU K-23	K-23	41S	25E	18	SWNESW
4303730337	03A	MCELMO CREEK	MCU K-13	K-13	41S	25E	06	SENESE
4303730338	12	MCELMO CREEK	MCU M-23	M-23	41S	25E	18	SWNESE
4303730339	12	MCELMO CREEK	MCU L-24	L-24	41S	25E	18	SWSWSE
4303730341	12	MCELMO CREEK	MCU J-22	J-22	41S	25E	18	NWSWNW
4303730342	03A	MCELMO CREEK	MCU J-12	J-12	40S	25E	31	SWSWSW
4303730347	12	MCELMO CREEK	MCU L-22	L-22	41S	25E	18	NWNWSE
4303730354	03A	MCELMO CREEK	MCU M-11	M-11	40S	25E	31	NENESE
4303730355	02	MCELMO CREEK	MCU P-08	P-08	40S	25E	29	NWSWSE
4303730356	03A	MCELMO CREEK	MCU O-09	O-09	40S	25E	32	N2NENW
4303730358	17	MCELMO CREEK	MCU I-11	I-11	40S	24E	36	SENESE
4303730359	03A	MCELMO CREEK	MCU K-11	K-11	40S	25E	31	SWNESW
4303730360	17	MCELMO CREEK	MCU H-12	H-12	40S	24E	36	SWSWSE
4303730361	06	MCELMO CREEK	MCU I-15	I-15	41S	24E	01	SENESE
4303730362	05	MCELMO CREEK	MCU H-14	H-14	41S	24E	01	NWSWNE
4303730363	19	MCELMO CREEK	MCU G-13	G-13	41S	24E	01	NENENW
4303730364	10	MCELMO CREEK	MCU H-18	H-18	41S	24E	02	NESWNE

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4303730365	11	MCELMO CREEK	MCU I-19	I-19	41S	24E	12	NENESE
4303730366	06	MCELMO CREEK	MCU H-16	H-16	41S	24E	01	NESWSE
4303730367	06	MCELMO CREEK	MCU I-17	I-17	41S	24E	12	NENENE
4303730376	18	MCELMO CREEK	MCU G-11	G-11	40S	24E	36	SENESE
4303730378	06	MCELMO CREEK	MCU G-17	G-17	41S	24E	12	NWNENW
4303730379	24	MCELMO CREEK	MCU C-13	C-13	41S	24E	02	SENESE
4303730380	18	MCELMO CREEK	MCU F-12	F-12	40S	24E	36	SWSWSW
4303730381	05	MCELMO CREEK	MCU F-16	F-16	41S	24E	01	NWSWSW
4303730384	23	MCELMO CREEK	MCU C-15	C-15	41S	24E	02	SENESE
4303730385	21	MCELMO CREEK	MCU C-17	C-17	41S	24E	11	NENENW
4303730386	25	MCELMO CREEK	MCU D-14	D-14	41S	24E	02	NESWNE
4303730387	20	MCELMO CREEK	MCU D-16	D-16	41S	24E	02	SESWSE
4303730388	25	MCELMO CREEK	MCU E-13	E-13	41S	24E	02	SENESE
4303730389	20	MCELMO CREEK	MCU E-15	E-15	41S	24E	02	SENESE
4303730390	06	MCELMO CREEK	MCU E-17	E-17	41S	24E	11	NWNENE
4303730399	11A	MCELMO CREEK	MCELMO CREEK G-18B	G-18B	41S	24E	12	NWSWNE
4303730400	12	MCELMO CREEK	MCU K-22X	K-22X	41S	25E	18	SWNENW
4303730401	04	MCELMO CREEK	MCU T-12A	T-12A	40S	25E	33	SWSWSE
4303730414	03A	MCELMO CREEK	MCELMO CREEK J-15B	J-15B	41S	25E	06	NENWSW
4303730415	06	MCELMO CREEK	MCU H-17B	H-17B	41S	24E	01	SWSESE
4303730416	03A	MCELMO CREEK	MCU M-12B	M-12B	40S	25E	31	NESESE
4303730417	03A	MCELMO CREEK	MCU I-16B	I-16B	41S	25E	06	SWNWSW
4303730452	04	MCELMO CREEK	MCU S-11	S-11	40S	25E	33	NESW
4303730453	04	MCELMO CREEK	MCU S-13	S-13	41S	25E	04	SENESE
4303730454	01	MCELMO CREEK	MCU U-08	U-08	40S	25E	28	SESESE
4303730456	04	MCELMO CREEK	MCU U-13	U-13	41S	25E	04	SWNENE
4303730459	04	MCELMO CREEK	MCU T-14	T-14	41S	25E	04	NESWNE
4303730460	04	MCELMO CREEK	MCU T-10	T-10	40S	25E	33	NESWNE
4303730463	12	MCELMO CREEK	MCU Q-21	Q-21	41S	25E	17	SWNENE
4303730506	12	MCELMO CREEK	MCU P-22	P-22	41S	25E	17	SWSWNE
4303730632	04	MCELMO CREEK	MCELMO CREEK UNIT S-15	S-15	41S	25E	04	SWNESW
4303730633	04	MCELMO CREEK	MCELMO CREEK UT U-15	U-15	41S	25E	04	NWNENE
4303730651	04	MCELMO CREEK	MCELMO CREEK UNIT R-12	R-12	40S	25E	33	NWSWSW
4303730652	12	MCELMO CREEK	MCELMO CREEK UNIT Q-19	Q-19	41S	25E	08	SWNESE
4303730653	04	MCELMO CREEK	MCELMO CREEK UNIT V-14	V-14	41S	25E	03	SWSWNW
4303730654	04	MCELMO CREEK	MCELMO CREEK UNIT T-16	T-16	41S	25E	04	SWSWSE
4303730661	12	MCELMO CREEK	MCELMO CREEK UNIT N-22	N-22	41S	25E	17	NESWNW
4303730662	12	MCELMO CREEK	MCELMO CREEK UNIT O-21	O-21	41S	25E	17	SWNENW
4303730778	13	MCELMO CREEK	MCELMO CREEK R-18	R-18	41S	25E	09	NWSWNW
4303730779	13	MCELMO CREEK	MCELMO CREEK S-17	S-17	41S	25E	09	SWNENW
4303730780	13	MCELMO CREEK	MCELMO CREEK S-19	S-19	41S	25E	09	SENESE
4303730781	13	MCELMO CREEK	MCELMO CREEK T-18	T-18	41S	25E	09	NESWNE
4303730782	13	MCELMO CREEK	MCELMO CREEK U-17	U-17	41S	25E	09	NWNENE
4303730974	14	MCELMO CREEK	MCELMO CREEK UNIT G-21A	G-21A	41S	24E	13	SWNENW
4303731008	14	MCELMO CREEK	MCELMO CREEK G-24	G-24	41S	24E	13	SESESE
4303731011	03A	MCELMO CREEK	MCELMO CREEK J-16-A	J-16A	41S	25E	06	SWSWSW
4303731012	02	MCELMO CREEK	MCELMO CREEK N-08	N-08	40S	25E	29	NESWSW
4303731013	03A	MCELMO CREEK	MCELMO CREEK Q-09	Q-09	40S	25E	32	SENESE
4303731121	04	MCELMO CREEK	MCELMO CREEK UNIT R-10	R-10	40S	25E	33	SWSWNW
4303731122	04	MCELMO CREEK	MCELMO CREEK UNIT U-09	U-09	40S	25E	33	SENESE
4303731123	12	MCELMO CREEK	MCELMO CREEK UNIT O-23	O-23	41S	25E	17	NWNESW
4303731124	12	MCELMO CREEK	MCELMO CREEK UNIT Q-23	Q-23	41S	25E	17	SESESE
4303731149	05	MCELMO CREEK	MCELMO CREEK UNIT F-15A	F-15A	41S	24E	01	SWNWSW
4303731186	16	MCELMO CREEK	MCELMO CREEK K-25	K-25	41S	25E	19	NWNENW
4303731187	14	MCELMO CREEK	MCELMO CREEK I-22	I-22	41S	24E	13	NWSENE
4303731188	09	MCELMO CREEK	MCELMO CREEK G-20	G-20	41S	24E	12	SWSESE
4303731192	14	MCELMO CREEK	MCELMO CREEK H-21	H-21	41S	24E	13	SWNWNW
4303731193	14	MCELMO CREEK	MCELMO CREEK UNIT H-23	H-23	41S	24E	13	NENWSE
4303731204	14	MCELMO CREEK	MCELMO CREEK UNIT G-22	G-22	41S	24E	13	SENESE
4303731205	12	MCELMO CREEK	MCELMO CREEK J-24	J-24	41S	25E	18	NWSWSW
4303731439	12	MCELMO CREEK	MCELMO CREEK UNIT P-23A	P-23A	41S	25E	17	SWNENW

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4303715330	01	MCELMO CREEK	INDIAN 2	S-05	40S	25E	28	CNENW
4303715331	01	MCELMO CREEK	NAVAJO 3	S-07	40S	25E	28	CNESW
4303715523	12	MCELMO CREEK	NAVAJO 114 15	Q-22	41S	25E	17	CSENE
4303715616	20	MCELMO CREEK	NAVAJO-C 1	E-16	41S	24E	02	SESE
4303715702	21	MCELMO CREEK	NAVAJO E 2	C-18	41S	24E	11	SENW
4303715704	07	MCELMO CREEK	NAVAJO-H 2	D-17	41S	24E	11	E2NWNW
4303715958	03A	MCELMO CREEK	NAVAJO 33-31-C	L-11	40S	25E	31	NWSE
4303715974	03A	MCELMO CREEK	NAVAJO-C 42-5	Q-14	41S	25E	05	E2SENE
4303716364	12	MCELMO CREEK	NAVAJO 14 7	N-23	41S	25E	17	N2NWSW
4303716366	02	MCELMO CREEK	NAVAJO TRIBE-F 18	P-07	40S	25E	29	NWSE
4303716515	12	MCELMO CREEK	NAVAJO-114 32	O-24	41S	25E	17	SESW
4303730353	02	MCELMO CREEK	MCU O-07	O-07	40S	25E	29	NENESW
4303730383	24	MCELMO CREEK	MCU B-14	B-14	41S	24E	02	SWSWNW
4303730455	04	MCELMO CREEK	MCU U-11	U-11	40S	25E	33	SENESE
4303730457	04	MCELMO CREEK	MCU S-08	S-08	40S	25E	33	NESENW
4303730462	13	MCELMO CREEK	M C U R-20	R-20	41S	25E	09	NWSWSW
4303730505	12	MCELMO CREEK	MCU P-20	P-20	41S	25E	08	NESWSE
4303731677	03A	MCELMO CREEK	MCELMO CREEK UNIT Q-12A	Q-12A	40S	25E	32	SWSESE

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354 ct wells -
358 RBOMS

API (10-digit)	Tract	UNIT	WELL NAME	WELL NUMBER	TWP	RNG	SEC	QTR-QTR
4303715083	15A	ANETH	NAVAJO FEDERAL 3 1	F-418	40S	24E	18	SESW
4303715412	08	ANETH	WEST-ISMAY-FEDERAL 3	E-307	40S	24E	07	CNWSW
4303715413	08	ANETH	WEST ISMAY-FED 1	E-118	40S	24E	18	CNWNW
4303715415	08	ANETH	W ISMAY-FEDERAL 2	F-407	40S	24E	07	CSESW
4303715485	30	ANETH	NAVAJO 4	E-136	40S	24E	36	CNWNW
4303715486	31	ANETH	NAVAJO 2-A	G-136	40S	24E	36	NWNE
4303715701	35B	ANETH	FEDERAL B 1	D-124	40S	23E	24	NENE
4303715821	05	ANETH	BURTON 12-13	A-213	40S	23E	13	SWSWNW
4303715822	05	ANETH	BURTON 14-12	A-412	40S	23E	12	SESWSW
4303715823	05	ANETH	BURTON 14-13	A-413	40S	23E	13	SWSW
4303715824	05	ANETH	BURTON 21-13	B-113	40S	23E	13	NENW
4303715825	05	ANETH	BURTON 22-13	B-213	40S	23E	13	CSENW
4303715826	05	ANETH	BURTON 23-13	B-313	40S	23E	13	NESW
4303715827	05	ANETH	BURTON 31-13	C-113	40S	23E	13	NWNE
4303715828	05	ANETH	BURTON 33-13	C-313	40S	23E	13	NWSE
4303715829	05	ANETH	BURTON 34-12	C-412	40S	23E	12	N2SWSE
4303715830	05	ANETH	BURTON 42-13	D-213	40S	23E	13	SENE
4303715831	05	ANETH	BURTON 43-12	D-312	40S	23E	12	NESE
4303715832	25	ANETH	STATE 3 11-16	E-116	40S	24E	16	NWNWNW
4303715833	25	ANETH	STATE-3 12-16	E-216	40S	24E	16	SESWNW
4303715834	25	ANETH	STATE 3 14-16	E-416	40S	24E	16	SESWSW
4303715835	25	ANETH	STATE 32-16	G-216	40S	24E	16	SWNE
4303715836	25	ANETH	STATE 3 34-16	G-416	40S	24E	16	CSWSE
4303715837	25	ANETH	STATE 3 43-16	H-316	40S	24E	16	CNESE
4303715938	27	ANETH	NAVAJO A 13	E-213	40S	24E	13	CSWNW
4303715939	27	ANETH	NAVAJO A 6	E-214	40S	24E	14	NWSWNW
4303715940	27	ANETH	NAVAJO-A 14-11	E-411	40S	24E	11	SESWSW
4303715941	27	ANETH	NAVAJO A 4	E-413	40S	24E	13	CSWSW
4303715942	27	ANETH	NAVAJO A 5	F-314	40S	24E	14	CNESW
4303715944	27	ANETH	NAVAJO-A 10	G-411	40S	24E	11	SWSE
4303715945	27	ANETH	NAVAJO A 34-14	G-414	40S	24E	14	CSWSE
4303715946	33	ANETH	NAVAJO C 11-31	J-131	40S	25E	31	W2NWNW
4303716030	02	ANETH	ARROWHEAD 7	A-214	40S	23E	14	SWNW
4303716032	02	ANETH	ARROWHEAD 6	B-114	40S	23E	14	CNENW
4303716033	02	ANETH	ARROWHEAD 3	C-214	40S	23E	14	SWNE
4303716035	02	ANETH	ARROWHEAD 5	C-414	40S	23E	14	NWSWSE
4303716036	03	ANETH	RICE 1	D-123	40S	23E	23	NWNENE
4303716038	02	ANETH	ARROWHEAD 4	D-314	40S	23E	14	CNESE
4303716049	16	ANETH	NAVAJO G 9	E-117	40S	24E	17	NWNWNW
4303716050	18	ANETH	NAVAJO D 10	E-120	40S	24E	20	CNWNW
4303716051	18	ANETH	NAVAJO D 4	E-121	40S	24E	21	NWNW
4303716052	28	ANETH	NAVAJO 2	E-123	40S	24E	23	CNWNW
4303716054	28	ANETH	NAVAJO C 29	E-126	40S	24E	26	SWNWNW
4303716055	23	ANETH	NAVAJO S 2	E-129	40S	24E	29	CNWNW
4303716057	21	ANETH	NAVAJO E 18	E-209	40S	24E	09	SWNW
4303716058	21	ANETH	NAVAJO E 2	E-215	40S	24E	15	SWSWNW
4303716059	18	ANETH	NAVAJO D 9	E-222	40S	24E	22	SWNW
4303716063	14B	ANETH	NAVAJO FED UNIT 4 1	E-318	40S	24E	18	CNWSW
4303716065	18	ANETH	NAVAJO D 17	E-320	40S	24E	20	NENWSW
4303716066	18	ANETH	NAVAJO D 14	E-321	40S	24E	21	NWSW
4303716067	18	ANETH	NAVAJO D 19	E-322	40S	24E	22	CNWSW
4303716068	28	ANETH	NAVAJO C 12	E-323	40S	24E	23	W2NWSW
4303716069	28	ANETH	NAVAJO C 10	E-324	40S	24E	24	CNWSW
4303716070	28	ANETH	NAVAJO C 21	E-325	40S	24E	25	CNWSW
4303716071	28	ANETH	NAVAJO C 30	E-326	40S	24E	26	CNWSW
4303716072	29	ANETH	NAVAJO Q 2	E-335	40S	24E	35	SENWSW
4303716073	21	ANETH	NAVAJO E 6	E-415	40S	24E	15	CSWSW
4303716074	21	ANETH	NAVAJO E 12	F-115	40S	24E	15	SENENW
4303716075	18	ANETH	NAVAJO D 11	F-122	40S	24E	22	CNENW
4303716076	20A	ANETH	NAVAJO-FEDERAL-UNIT 1	F-208	40S	24E	08	SENW
4303716077	18	ANETH	NAVAJO D 26	F-219	40S	24E	19	NESENW
4303716078	18	ANETH	NAVAJO D 6	F-221	40S	24E	21	CSENW
4303716079	28	ANETH	NAVAJO C 7	F-223	40S	24E	23	SENW
4303716080	28	ANETH	NAVAJO C 20	F-225	40S	24E	25	SSENW

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4303716081	18	ANETH	NAVAJO-D 29	F-319	40S	24E	19	NESW
4303716082	21	ANETH	NAVAJO E 4	F-409	40S	24E	09	CSESW
4303716084	18	ANETH	NAVAJO D 21	F-421	40S	24E	21	SESESW
4303716085	18	ANETH	NAVAJO D 23	F-422	40S	24E	22	SESW
4303716086	28	ANETH	NAVAJO C 17	F-423	40S	24E	23	NWSESW
4303716087	28	ANETH	NAVAJO C 13	F-424	40S	24E	24	SESW
4303716088	21	ANETH	NAVAJO E 9	G-115	40S	24E	15	CNWNE
4303716089	16	ANETH	NAVAJO G 3	G-117	40S	24E	17	CNWNE
4303716090	13A	ANETH	NAVAJO FEDERAL 2 1	G-118	40S	24E	18	NENE
4303716091	18	ANETH	NAVAJO D 16	G-119	40S	24E	19	NWNE
4303716092	22	ANETH	NAVAJO L 5	G-120	40S	24E	20	NWNE
4303716095	28	ANETH	NAVAJO C 6	G-125	40S	24E	25	NWNE
4303716097	23	ANETH	NAVAJO S 1	G-129	40S	24E	29	NENWNE
4303716099	18	ANETH	NAVAJO D 1	G-222	40S	24E	22	NWSWNE
4303716101	22	ANETH	NAVAJO ALLOTTEES L 6	G-308	40S	24E	08	SENWSE
4303716102	21	ANETH	NAVAJO E 3	G-309	40S	24E	09	CNWSE
4303716103	16	ANETH	NAVAJO G-X 1	G-317	40S	24E	17	SENWSE
4303716104	16	ANETH	NAVAJO G 4	G-318	40S	24E	18	N2NWSE
4303716105	18	ANETH	NAVAJO D 12	G-320	40S	24E	20	CNWSE
4303716111	28	ANETH	NAVAJO C 15	G-324	40S	24E	24	CNWSE
4303716113	28	ANETH	NAVAJO C 27	G-326	40S	24E	26	CNWSE
4303716114	24	ANETH	NAVAJO A 1	G-329	40S	24E	29	NWSE
4303716115	29	ANETH	NAVAJO Q 6	G-335	40S	24E	35	NWSE
4303716116	21	ANETH	ANETH UNIT G-415	G-415	40S	24E	15	SWSE
4303716117	18	ANETH	NAV IND TRIB LNDS D 2	H-122	40S	24E	22	CNENE
4303716119	21	ANETH	NAVAJO E 16	H-208	40S	24E	08	S2SENE
4303716120	16	ANETH	NAVAJO G 5	H-218	40S	24E	18	CSENE
4303716121	18	ANETH	NAVAJO D 3	H-219	40S	24E	19	NESENE
4303716122	18	ANETH	NAVAJO INDIAN LANDS 7	H-221	40S	24E	21	NE
4303716123	28	ANETH	NAVAJO C 8	H-223	40S	24E	23	NWSENE
4303716124	28	ANETH	NAVAJO C 11	H-225	40S	24E	25	CSENE
4303716126	21	ANETH	NAVAJO E 1	H-415	40S	24E	15	NWSESE
4303716128	28	ANETH	NAVAJO C 3	H-423	40S	24E	23	NESESE
4303716129	28	ANETH	NAVAJO C 24	H-425	40S	24E	25	CSESE
4303716130	29	ANETH	NAVAJO Q 7	H-435	40S	24E	35	SWSESE
4303716132	32	ANETH	NAVAJO 9-F	J-130	40S	25E	30	NWNW
4303716134	32	ANETH	NAVAJO 5-F	J-330	40S	25E	30	NENWSW
4303716135	32	ANETH	NAVAJO F 2	K-230	40S	25E	30	SESENW
4303716137	32	ANETH	NAVAJO 7-F	K-430	40S	25E	30	SESW
4303716138	32	ANETH	NAVAJO 12-F	L-130	40S	25E	30	SENWNE
4303716139	32	ANETH	NAVAJO 6-F	L-330	40S	25E	30	NWSE
4303716140	32	ANETH	ANETH UNIT L-419	L-419	40S	25E	19	SWSE
4303716141	32	ANETH	NAVAJO 10-F	M-230	40S	25E	30	N2SENE
4303716222	26	ANETH	ANETH A-1 28	E-128	40S	24E	28	CNWNW
4303716224	26	ANETH	ANETH C-1 28	G-128	40S	24E	28	CNWNE
4303716225	26	ANETH	ANETH 34-C-1	G-134	40S	24E	34	NWNWNE
4303716226	26	ANETH	ANETH UNIT A-27-C-3	G-327	40S	24E	27	NWSE
4303716227	26	ANETH	ANETH 34-C-3	G-334	40S	24E	34	W2NWSE
4303716229	26	ANETH	ANETH 33-D4	H-433	40S	24E	33	NESESE
4303716270	06	ANETH	FEDERAL A 1	A-124	40S	23E	24	NWNW
4303716271	03	ANETH	RICE 2	B-123	40S	23E	23	NENW
4303716272	05	ANETH	BURTON 23-12	B-312	40S	23E	12	NESW
4303716273	02	ANETH	ARROWHEAD 2	B-314	40S	23E	14	NENESW
4303716277	02	ANETH	ARROWHEAD 1	D-114	40S	23E	14	NENE
4303716278	05	ANETH	ANETH D-212	D-212	40S	23E	12	NESENE
4303716279	05	ANETH	BURTON 44-13	D-413	40S	23E	13	SESE
4303716280	17B	ANETH	NAVAJO FED B 1	E-119	40S	24E	19	NWNW
4303716285	25	ANETH	STATE 3 21-16	F-116	40S	24E	16	CNENW
4303716286	16	ANETH	NAVAJO G 8	F-217	40S	24E	17	SENW
4303716287	12A	ANETH	NAVAJO-FED UNIT 1	F-218	40S	24E	18	NESENW
4303716288	18	ANETH	NAVAJO D 8	F-220	40S	24E	20	CSENW
4303716289	28	ANETH	NAVAJO 16	F-224	40S	24E	24	CSENW
4303716290	28	ANETH	NAVAJO C 23	F-226	40S	24E	26	SENW
4303716292	23	ANETH	NAVAJO S 4	F-229	40S	24E	29	SENW
4303716293	29	ANETH	NAVAJO Q 5	F-235	40S	24E	35	SENW

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4303716294	30	ANETH	NAVAJO 3	F-236	40S	24E	36	CSENW
4303716296	21	ANETH	NAVAJO E 8	F-315	40S	24E	15	SENESE
4303716297	25	ANETH	STATE B 23-16	F-316	40S	24E	16	NENESW
4303716298	21	ANETH	NAVAJO E 13	F-408	40S	24E	08	CSESW
4303716299	16	ANETH	NAVAJO G 6	F-417	40S	24E	17	SESW
4303716300	18	ANETH	NAVAJO D 20	F-420	40S	24E	20	CSESW
4303716301	28	ANETH	NAVAJO C 32	F-425	40S	24E	25	SESW
4303716306	28	ANETH	NAV IND TRIB LND C 1	G-123	40S	24E	23	CNWNE
4303716307	26	ANETH	ANETH 27-C-1	G-127	40S	24E	27	CNWNE
4303716309	18	ANETH	NAVAJO D 25	G-319	40S	24E	19	SWNWSE
4303716310	27	ANETH	NAVAJO A 9	H-114	40S	24E	14	NENE
4303716312	25	ANETH	STATE 3 42-16	H-216	40S	24E	16	SENE
4303716313	22	ANETH	NAVAJO L 4	H-217	40S	24E	17	SWSENE
4303716314	22	ANETH	NAVAJO L 2	H-220	40S	24E	20	SENE
4303716316	28	ANETH	NAVAJO C 19	H-226	40S	24E	26	SENE
4303716317	26	ANETH	ANETH D-2 27	H-227	40S	24E	27	E2SENE
4303716318	23	ANETH	NAVAJO S 3	H-229	40S	24E	29	SENE
4303716319	26	ANETH	ANETH 34-D-2	H-234	40S	24E	34	CSENE
4303716320	29	ANETH	NAVAJO Q 4	H-235	40S	24E	35	SWSENE
4303716322	11A	ANETH	NAVAJO-FEDERAL 5 1	H-407	40S	24E	07	SESE
4303716323	22	ANETH	NAVAJO L 3	H-408	40S	24E	08	SESE
4303716324	21	ANETH	NAVAJO E 10	H-409	40S	24E	09	CSESE
4303716326	22	ANETH	NAVAJO L 1	H-417	40S	24E	17	SESE
4303716327	16	ANETH	NAVAJO G 2	H-418	40S	24E	18	CSESE
4303716329	18	ANETH	NAVAJO D 13	H-420	40S	24E	20	CSESE
4303716330	18	ANETH	NAVAJO D 24	H-421	40S	24E	21	SESE
4303716331	28	ANETH	NAVAJO C 28	H-424	40S	24E	24	SESE
4303716332	28	ANETH	NAVAJO C 31	H-426	40S	24E	26	SESE
4303716333	26	ANETH	INDIAN 27-D-4	H-427	40S	24E	27	CSESE
4303716335	33	ANETH	NAVAJO C 22-31	K-231	40S	25E	31	SESENW
4303716337	32	ANETH	NAVAJO 11-F	M-430	40S	25E	30	SESE
4303716421	27	ANETH	NAVAJO 14-14	E-414	40S	24E	14	NWSWSW
4303716422	27	ANETH	NAVAJO A 8	F-114	40S	24E	14	SWNENW
4303720230	25	ANETH	ANETH UNIT H-416	H-416	40S	24E	16	SESE
4303720231	18	ANETH	ANETH UNIT G-322X	G-322X	40S	24E	22	NWSE
4303730049	05	ANETH	UNIT D-412	D-412	40S	23E	12	SESESE
4303730066	21	ANETH	ANETH UNIT G-215	G-215	40S	24E	15	SESWNE
4303730093	27	ANETH	ANETH UNIT E-114	E-114	40S	24E	14	NWNWNW
4303730094	25	ANETH	ANETH UNIT E-316	E-316	40S	24E	16	NWNWSW
4303730095	18	ANETH	ANETH UNIT G-321X	G-321X	40S	24E	21	SESWSE
4303730107	25	ANETH	ANETH UNIT G-316	G-316	40S	24E	16	NENWSE
4303730112	05	ANETH	ANETH UNIT C-312	C-312	40S	23E	12	SESWSE
4303730115	08	ANETH	ANETH UNIT F-307	F-307	40S	24E	07	NWNESW
4303730117	18	ANETH	ANETH UNIT F-121	F-121	40S	24E	21	NENENW
4303730119	05	ANETH	ANETH UNIT A-113	A-113	40S	23E	13	SWNWNW
4303730122	11A	ANETH	ANETH UNIT H-307	H-307	40S	24E	07	NWNESE
4303730123	27	ANETH	ANETH UNIT H-414	H-414	40S	24E	14	SESESE
4303730131	13A	ANETH	ANETH UNIT G-218	G-218	40S	24E	18	NWSWNE
4303730132	16	ANETH	ANETH UNIT G-418	G-418	40S	24E	18	NESWSE
4303730133	18	ANETH	ANETH UNIT H-119	H-119	40S	24E	19	SENESE
4303730134	16	ANETH	ANETH UNIT E-417	E-417	40S	24E	17	NWSWSW
4303730135	18	ANETH	ANETH UNIT F-120	F-120	40S	24E	20	S2NENW
4303730136	16	ANETH	ANETH UNIT H-318	H-318	40S	24E	18	E2NESE
4303730137	08	ANETH	ANETH UNIT E-218	E-218	40S	24E	18	N2SWNW
4303730139	16	ANETH	ANETH UNIT F-317	F-317	40S	24E	17	E2NESW
4303730142	16	ANETH	ANETH UNIT E-217	E-217	40S	24E	17	W2SWNW
4303730144	16	ANETH	ANETH UNIT G-417	G-417	40S	24E	17	CSWSE
4303730150	18	ANETH	ANETH UNIT E-220	E-220	40S	24E	20	NWSWNW
4303730151	10A	ANETH	ANETH UNIT G-407	G-407	40S	24E	07	SESWSE
4303730152	22	ANETH	ANETH UNIT G-408	G-408	40S	24E	08	NWSWSE
4303730153	22	ANETH	ANETH UNIT H-117	H-117	40S	24E	17	SWNENE
4303730154	18	ANETH	ANETH UNIT H-320	H-320	40S	24E	20	NENESE
4303730155	12B	ANETH	ANETH UNIT F-118	F-118	40S	24E	18	NENENW
4303730156	22	ANETH	ANETH UNIT G-220	G-220	40S	24E	20	NWSWNE
4303730157	16	ANETH	ANETH UNIT H-118	H-118	40S	24E	18	NENENW

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4303730159	21	ANETH	ANETH UNIT E-408	E-408	40S	24E	08	SWSWSW
4303730160	16	ANETH	ANETH UNIT F-117	F-117	40S	24E	17	NWNENW
4303730162	05	ANETH	ANETH UNIT D-313	D-313	40S	23E	13	NWNESE
4303730164	18	ANETH	ANETH UNIT F-320	F-320	40S	24E	20	NWNESW
4303730165	14B	ANETH	ANETH UNIT E-418	E-418	40S	24E	18	NWSWSW
4303730166	16	ANETH	ANETH UNIT G-217	G-217	40S	24E	17	SESWNE
4303730167	18	ANETH	ANETH UNIT G-219	G-219	40S	24E	19	SESWNE
4303730168	18	ANETH	ANETH UNIT H-319	H-319	40S	24E	19	NESESE
4303730169	15A	ANETH	ANETH UNIT F-318	F-318	40S	24E	18	SWNESW
4303730173	05	ANETH	ANETH UNIT C-213	C-213	40S	23E	13	NESWNE
4303730174	05	ANETH	ANETH UNIT D-113	D-113	40S	23E	13	NENENE
4303730175	08	ANETH	ANETH UNIT E-407	E-407	40S	24E	07	SWSWSW
4303730176	21	ANETH	ANETH UNIT F-308	F-308	40S	24E	08	S2NESW
4303730177	22	ANETH	ANETH UNIT H-308	H-308	40S	24E	08	S2NESE
4303730178	21	ANETH	ANETH UNIT G-208	G-208	40S	24E	08	NESWNE
4303730181	18	ANETH	ANETH UNIT E-221	E-221	40S	24E	21	NWSWNW
4303730183	18	ANETH	ANETH UNIT H-121	H-121	40S	24E	21	NENE
4303730185	18	ANETH	ANETH UNIT F-321	F-321	40S	24E	21	W2NESW
4303730187	23	ANETH	ANETH UNIT F-129	F-129	40S	24E	29	NWNENW
4303730188	18	ANETH	ANETH UNIT E-421	E-421	40S	24E	21	CSWSW
4303730189	21	ANETH	ANETH UNIT E-409	E-409	40S	24E	09	CSWSW
4303730196	22	ANETH	ANETH UNIT H-317	H-317	40S	24E	17	NWNESE
4303730197	18	ANETH	ANETH UNIT F-119	F-119	40S	24E	19	NWNENW
4303730200	27	ANETH	ANETH UNIT E-313	E-313	40S	24E	13	SENWSW
4303730212	25	ANETH	ANETH UNIT F-216	F-216	40S	24E	16	NESENW
4303730213	21	ANETH	ANETH UNIT E-315	E-315	40S	24E	15	NWNWSW
4303730214	18	ANETH	ANETH UNIT G-421	G-421	40S	24E	21	SWSE
4303730215	18	ANETH	ANETH UNIT E-122	E-122	40S	24E	22	NWNW
4303730216	18	ANETH	ANETH UNIT H-321	H-321	40S	24E	21	NESESE
4303730217	27	ANETH	ANETH UNIT F-411	F-411	40S	24E	11	SWSESW
4303730218	27	ANETH	ANETH UNIT G-114	G-114	40S	24E	14	NWNE
4303730219	28	ANETH	ANETH UNIT E-223	E-223	40S	24E	23	S2SWNW
4303730220	28	ANETH	ANETH UNIT E-426	E-426	40S	24E	26	CSWSW
4303730221	28	ANETH	ANETH UNIT F-125	F-125	40S	24E	25	N2NENW
4303730222	28	ANETH	ANETH UNIT G-225	G-225	40S	24E	25	NWNESWNE
4303730223	28	ANETH	ANETH UNIT H-123	H-123	40S	24E	23	CNENE
4303730224	32	ANETH	ANETH UNIT K-330	K-330	40S	25E	30	NENESW
4303730225	32	ANETH	ANETH UNIT M-330	M-330	40S	25E	30	NWNESE
4303730226	28	ANETH	ANETH UNIT G-223	G-223	40S	24E	23	SESWNE
4303730227	31	ANETH	ANETH UNIT H-136	H-136	40S	24E	36	E2NENE
4303730228	18	ANETH	ANETH UNIT G-420	G-420	40S	24E	20	NESWSE
4303730230	27	ANETH	ANETH UNIT G-314	G-314	40S	24E	14	SWNWSE
4303730231	28	ANETH	ANETH UNIT E-224	E-224	40S	24E	24	N2SWNW
4303730232	28	ANETH	ANETH UNIT F-326	F-326	40S	24E	26	SWNESW
4303730233	28	ANETH	ANETH UNIT E-225	E-225	40S	24E	25	SESWNW
4303730234	28	ANETH	ANETH UNIT F-323	F-323	40S	24E	23	NESW
4303730235	28	ANETH	ANETH UNIT F-123	F-123	40S	24E	23	NENW
4303730237	28	ANETH	ANETH UNIT F-325	F-325	40S	24E	25	SWNESW
4303730239	28	ANETH	ANETH UNIT H-325	H-325	40S	24E	25	NESE
4303730240	32	ANETH	ANETH UNIT J-230	J-230	40S	25E	30	CSWNW
4303730241	32	ANETH	ANETH UNIT L-230	L-230	40S	25E	30	NESWNE
4303730242	18	ANETH	ANETH UNIT H-222	H-222	40S	24E	22	SWSENE
4303730243	32	ANETH	ANETH UNIT J-430	J-430	40S	25E	30	CSWSW
4303730250	27	ANETH	ANETH UNIT F-214	F-214	40S	24E	14	SWSENW
4303730266	27	ANETH	ANETH UNIT E-314	E-314	40S	24E	14	NWSW
4303730274	27	ANETH	ANETH UNIT F-414	F-414	40S	24E	14	SWSESW
4303730297	05	ANETH	ANETH UNIT B-413	B-413	40S	23E	13	CSESW
4303730298	05	ANETH	ANETH UNIT C-413	C-413	40S	23E	13	SWSE
4303730299	05	ANETH	ANETH UNIT A-313	A-313	40S	23E	13	SWNWSW
4303730308	28	ANETH	ANETH UNIT H-125	H-125	40S	24E	25	NENE
4303730310	28	ANETH	ANETH UNIT F-126	F-126	40S	24E	26	NWNENW
4303730311	28	ANETH	ANETH UNIT G-423	G-423	40S	24E	23	CSWSE
4303730312	21	ANETH	ANETH UNIT H-315	H-315	40S	24E	15	CNESE
4303730316	28	ANETH	ANETH UNIT H-323	H-323	40S	24E	23	SESESE
4303730334	28	ANETH	ANETH UNIT G-424	G-424	40S	24E	24	CSWSE

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4303730335	18	ANETH	ANETH UNIT G-121X	G-121X	40S	24E	21	SENWNE
4303730343	28	ANETH	ANETH UNIT E-425	E-425	40S	24E	25	NESWSW
4303730344	25	ANETH	ANETH UNIT G-116	G-116	40S	24E	16	CNWNE
4303730345	18	ANETH	ANETH UNIT F-322	F-322	40S	24E	22	N2NESW
4303730346	18	ANETH	ANETH UNIT E-422	E-422	40S	24E	22	NWSWSW
4303730348	28	ANETH	ANETH UNIT H-126	H-126	40S	24E	26	W2NENE
4303730349	28	ANETH	ANETH UNIT F-324	F-324	40S	24E	24	E2NESW
4303730350	28	ANETH	ANETH UNIT E-424	E-424	40S	24E	24	SWSWSW
4303730368	28	ANETH	ANETH UNIT H-326	H-326	40S	24E	26	SENESE
4303730370	28	ANETH	ANETH UNIT E-423	E-423	40S	24E	23	SWSWSW
4303730372	28	ANETH	ANETH UNIT G-126X	G-126X	40S	24E	26	SENWNE
4303730373	18	ANETH	ANETH UNIT F-222	F-222	40S	24E	22	N2SENW
4303730374	28	ANETH	ANETH UNIT G-325X	G-325X	40S	24E	25	SENWSE
4303730375	18	ANETH	ANETH UNIT G-422	G-422	40S	24E	22	SESWSE
4303730404	22	ANETH	ANETH UNIT H-120X	H-120X	40S	24E	20	NWNENE
4303730407	18	ANETH	ANETH UNIT H-322	H-322	40S	24E	22	NWNESE
4303730409	30	ANETH	ANETH UNIT F-136	F-136	40S	24E	36	SENENW
4303730410	31	ANETH	ANETH UNIT G-236	G-236	40S	24E	36	N2SWNE
4303730412	29	ANETH	ANETH UNIT H-335	H-335	40S	24E	35	NESE
4303730413	33	ANETH	ANETH UNIT J-231	J-231	40S	25E	31	N2SWNW
4303730425	18	ANETH	ANETH UNIT G-122	G-122	40S	24E	22	NENWNE
4303730516	18	ANETH	ANETH UNIT G-221X	G-221X	40S	24E	21	NESWNE
4303730635	02	ANETH	ANETH UNIT B-214	B-214	40S	23E	14	SENENW
4303730636	02	ANETH	ANETH UNIT C-114	C-114	40S	23E	14	NENWNE
4303730637	02	ANETH	ANETH UNIT C-314	C-314	40S	23E	14	NENWSE
4303730638	02	ANETH	ANETH UNIT D-214	D-214	40S	23E	14	SWSENE
4303730639	02	ANETH	ANETH UT D-414	D-414	40S	23E	14	CSESE
4303730643	26	ANETH	ANETH UNIT H-127	H-127	40S	24E	27	E2NENE
4303730646	32	ANETH	ANETH UNIT K-130	K-130	40S	25E	30	NENW
4303730647	33	ANETH	ANETH UNIT K-131	K-131	40S	25E	31	CNENW
4303730648	32	ANETH	ANETH UNIT L-430	L-430	40S	25E	30	CSWSE
4303730649	32	ANETH	ANETH UNIT M-130	M-130	40S	25E	30	NWNENE
4303730716	30	ANETH	ANETH UNIT E-236	E-236	40S	24E	36	NWSWNW
4303730718	26	ANETH	ANETH UNIT F-127	F-127	40S	24E	27	NWNENW
4303730728	26	ANETH	ANETH UNIT F-128	F-128	40S	24E	28	W2NENW
4303731077	12B	ANETH	ANETH UNIT E-118I	E-118SE	40S	24E	18	NESWNW
4303731381	27	ANETH	ANETH UNIT H-314X	H-314X	40S	24E	14	SENESE
4303731382	05	ANETH	ANETH UNIT D-113SE	D-113SE	40S	23E	13	NESENE
4303731383	05	ANETH	ANETH UNIT D-213I	D-213SE	40S	23E	13	NENESE
4303731385	14B	ANETH	ANETH UNIT E-218I	E-218SE	40S	24E	18	NENWSW
4303731386	08	ANETH	ANETH UNIT E-407SW	E-407SW	40S	24E	07	SWSW
4303731396	21	ANETH	ANETH UNIT E-115	E-115	40S	24E	15	N2NWNW
4303731397	21	ANETH	ANETH UNIT F-215	F-215	40S	24E	15	NESENW
4303731398	21	ANETH	ANETH UNIT F-415	F-415	40S	24E	15	NWSESW
4303731408	21	ANETH	ANETH UNIT G-315X	G-315X	40S	24E	15	S2NWSE
4303731409	25	ANETH	ANETH UNIT H-116	H-116	40S	24E	16	W2NENE
4303731529	23	ANETH	ANETH UNIT H-129	H-129	40S	24E	29	SWNENE
4303731531	29	ANETH	ANETH UNIT H-135	H-135	40S	24E	35	NWNENE
4303731537	05	ANETH	UNIT B-412	B-412	40S	23E	12	NWSESW
4303731684	27	ANETH	ANETH UNIT F-214SE	F-214SE	40S	24E	14	SESENW
4303731852	05	ANETH	AU SWD WELL	C-113 LDVL SWD	40S	23E	13	NWNE
4303750011	02	ANETH	NEW DRILL B-414	B-414	40S	23E	14	SESW
4303750036	03	ANETH	NEW DRILL C-123	C-123	40S	23E	23	NWNE
4303750037	03	ANETH	ANETH UNIT	C-223X	40S	23E	23	SWNE
4303750038	02	ANETH	ANETH UNIT A-414X	A-414X	40S	23E	14	SWSW
4303750052	31	ANETH	ANETH UNIT H-236A	H-236A (aka H-236X)	40S	24E	36	SENE
4303750054	16	ANETH	ANETH UNIT E-317X	E-317X	40S	24E	17	NWSW
4303715487	31	ANETH	NAVAJO 1	H-236	40S	24E	36	CSENE
4303715943	27	ANETH	NAVAJO A 7	G-214	40S	24E	14	SWSWNE
4303716031	02	ANETH	ARROWHEAD 8	A-414	40S	23E	14	SWSW
4303716034	01	ANETH	MESA 1	C-411	40S	23E	11	W2SWSE
4303716037	01	ANETH	MESA 2	D-311	40S	23E	11	CNESE
4303716056	29	ANETH	NAVAJO Q 3	E-135	40S	24E	35	SENWNW
4303716060	21	ANETH	NAVAJO E 15	E-308	40S	24E	08	SWNWSW
4303716061	21	ANETH	NAVAJO E 14	E-309	40S	24E	09	SWNWSW

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On Thu, Feb 15, 2024 at 10:47 AM Charles "Vince" Dalton

< CDalton@elkpetroleum.com > wrote:

Good morning Jones,

Thank you for looking into this and we look forward to getting even more clarity here.

As we seem to be deficient for some MIT's, I looked thru our MIT records to see if we may have performed MIT's during the last 5 years and found the following:

API	Wellname	Label	Last MIT Date
43037162700000	FEDERAL-A	A-124	8/6/2019
43037160320000	ARROWHEAD	B-114	8/7/2019
43037162710000	RICE	B-123	8/7/2019
43037158250000	BURTON	B-213	8/5/2019
43037162730000	ARROWHEAD	B-314	8/7/2019
43037158270000	BURTON	C-113	8/5/2019
43037318520000	Aneth U C-113 LDVL	C-113 SWD	12/1/2022
43037500360000	AU C-123	C-123	11/14/2018
43037160330000	ARROWHEAD	C-214	12/23/2019
43037500370000	AU C-223X	C-223X	6/7/2018
43037158280000	BURTON	C-313	8/5/2019
43037160350000	ARROWHEAD	C-414	8/7/2019
43037301740000	ANETH UNIT	D-113	8/6/2019
43037158300000	BURTON	D-213	8/5/2019
43037160380000	ARROWHEAD	D-314	8/6/2019
43037159640000	NAVAJO C-11-32	MCU N-09	5/16/2023
43037315900000	RATHERFORD 20-67	RU 20-67	2/2/2021
43037317530000	RATHERFORD UNIT 21-67	RU 21-67	1/20/2022

For the 4 wells highlighted in yellow, I have a more recent MIT that witnessed by NN-EPA (attached here for convenience). I suppose there is still some confusion around primacy over these wells.

Also, can you look into the 43-037-31852-00-00, as that is a disposal well which is injecting into the Leadville formation (deeper than the Desert Creek formation) and I found a NNEPA Injection permit for it (also attached). Could a different active injection zone be why this well may fall under NN-EPA primacy? Or perhaps it was transferred after the permit was issued?

Thanks for all your help in advance!

Kind regards,
Vince Dalton

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4303716062	16	ANETH	NAVAJO G 7	E-317	40S	24E	17	CNWSW
4303716100	10B	ANETH	NAVAJO-FEDERAL 6 1	G-307	40S	24E	07	NWSE
4303716118	09B	ANETH	NAVAJO FEDERAL 7 1	H-207	40S	24E	07	SENE
4303716125	21	ANETH	NAVAJO E 7	H-410	40S	24E	10	SESESE
4303716127	18	ANETH	NAVAJO D 22	H-422	40S	24E	22	CSESE
4303716131	32	ANETH	NAVAJO F 8	J-129	40S	25E	29	NWNW
4303716223	26	ANETH	ANETH B-2 27	F-227	40S	24E	27	CSENW
4303716228	26	ANETH	ANETH D-2-28	H-228	40S	24E	28	SESENE
4303716230	26	ANETH	ANETH 34-D-4	H-434	40S	24E	34	NESESE
4303716274	05	ANETH	BURTON 31-12	C-112	40S	23E	12	NWNE
4303716275	06	ANETH	FEDERAL 1	C-124	40S	23E	24	CNWNW
4303716276	03	ANETH	A W RICE 3	C-223	40S	23E	23	SWNE
4303716283	08	ANETH	AZTEC-ISMAY-FED 7	E-207	40S	24E	07	SWNW
4303716284	19A	ANETH	NAVAJO FED UNIT 9 1	E-208	40S	24E	08	SWNW
4303716295	27	ANETH	NAVAJO-A 12	F-311	40S	24E	11	S2NESW
4303716302	28	ANETH	NAVAJO C 4	F-426	40S	24E	26	SESW
4303716303	26	ANETH	ANETH 34-B-4	F-434	40S	24E	34	SESW
4303716304	29	ANETH	NAVAJO Q 8	F-435	40S	24E	35	SESW
4303716328	18	ANETH	NAVAJO D 27	H-419	40S	24E	19	SESE
4303716782	26	ANETH	ANETH 27-A-1	E-127	40S	24E	27	CNWNW
4303730236	28	ANETH	ANETH UNIT G-426	G-426	40S	24E	26	SWSE
4303730238	28	ANETH	ANETH UNIT G-425	G-425	40S	24E	25	SESWSE
4303730333	25	ANETH	ANETH UNIT F-416	F-416	40S	24E	16	SESW
4303730369	28	ANETH	ANETH UNIT G-226	G-226	40S	24E	26	SESWNE
4303730371	28	ANETH	ANETH UNIT E-226	E-226	40S	24E	26	CSWNW
4303730634	02	ANETH	ANETH UNIT A-114	A-114	40S	23E	14	SENWNW
4303730644	26	ANETH	ANETH UNIT H-128 REDRILL+E-127X PAIR	H-128X (fka H-128)	40S	24E	28	CNENE
4303730645	32	ANETH	ANETH UNIT J-229	J-229	40S	25E	29	W2SWNW
4303731076	05	ANETH	ANETH UNIT C-313I	C-313SE	40S	23E	13	CSE
4303731078	18	ANETH	UNIT E-121I	E-121SE	40S	24E	21	N2S2NW

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DIV OF OIL, GAS & MINING



State of Utah

SPENCER J. COX
Governor

DEIDRE M. HENDERSON
Lieutenant Governor

Department of Natural Resources
Division of Oil, Gas and Mining

JOEL FERRY
Executive Director

MICK THOMAS
Division Director

March 4, 2024

Elk Operating Services, LLC
1700 Lincoln Street, Suite 2550
Denver, CO 80203

SUBJECT: Pressure Test for Mechanical Integrity on Multiple Wells, San Juan County, Utah:

Gentlemen:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is less, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning in October 1982. The first two wells on this list are past due and the others are due later this year. However, many of these wells are either directly or indirectly involved in the application review process for the Major Permit Modification requests recently submitted by Elk Operating, therefore we request all these MIT's be performed at this time. The following wells now require a current test:

Aneth C-223X	API 43-037-50037
Aneth C-123	API 43-037-50036
Burton 22-13 (ANETH B-213)	API 43-037-15825
Burton 31-13 (ANETH C-113)	API 43-037-15827
Burton 33-13 (ANETH C-313)	API 43-037-15828
Burton 42-13 (D213)	API 43-037-15830
Arrowhead 4 (ANETH D-314)	API 43-037-16038
Federal A-1 (ANETH A-124)	API 43-037-16270
Aneth Unit D113	API 43-037-30174
Arrowhead 6 (ANETH B-114)	API 43-037-16032
Arrowhead 5 (ANETH C-414)	API 43-037-16035
A W Rice 2 (ANETH B-123)	API 43-037-16271
Arrowhead 2 (ANETH B-314)	API 43-037-16273



Arrowhead 3 (ANETH C-214)
Aneth U C-113 LDVL

API 43-037-16033
API 43-037-31852

Please make arrangements and ready wells for testing **as soon as possible**, as outlined below:

1. Operators must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.
5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-8504 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified above is unacceptable.

Sincerely,



Mark L Jones
Environmental Scientist

mlj/rp/dg

cc: Richard Powell, UIC Manager
Dal Gray, Operations Manager
Well File