

Regional Man

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REPORT ON A RECONNAISSANCE GEOLOGIC MAPPIN

AND

GEOCHEMICAL SURVEY

CONDUCTED ON THE J.K. 1-160 CLAIMS

August 14, 1981 - August 27, 1981

MAYO MINING DIVISION

YUKON TERRITORY

N.T.S. 105 - 0 - 1 NIDDERY LAKE

BETWEEN 63° 08' and 63° 11' North Latitude

130° 20' and 130° 27' West Longitude

OWNED AND OPERATED BY

PAN OCEAN OIL LTD.

Report By: John D. Kapusta

Under Supervision of: G.F. McArthur

Report #39-81

This report has been examined by the Geological Evaluation Unit under Section 5374 Mekea Quartz Million for a section of as representation and section of a representation and section of a 1.2 cm

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forRegional Haussian, Lup ration and Geological Services for Commissioner of Yukon Territory.

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#### INTRODUCTION

The J.K. 1-160 mineral claims were staked adjacent to the Jason property to cover a newly discovered barite occurrance which may be related to massive sulphide mineralization similiar to that found on the Jason property.

The J.K. claims are located on Niddery Lake map sheet 105 0/1 at about 63° 08' N and 130° 23'W, 9 kilometres northwest of the Canol Road at MacMillan Pass, Yukon Territory (Figure 1). Access to the property is via the North Canol Road to MacMillan Pass. There are also regularly scheduled Twin Otter flights onto a gravel runway by Trans North Airlines, then via helicopter to the property.

The property rises from 610 metres elevation along Nidd Creek to 1829 metres elevation at the top of Mount Hoshi. The property runs from about treeline in the Nidd Creek area, with most of the property above treeline. Vegetation on the property is alpine fir in the valley bottom giving way to dwarf birch and stunted alpine fir to cariboo moss, and rapidly into barren talus slopes within 152 metres elevation above the valley floor.



#### I. SUMMARY

During the course of the 1981 regional exploration program a barite horizon was discovered by prospecting northwest of the Jason Property (NTS 105 0/1). This resulted in the staking of the 1-160 J.K. Claims in June of 1981. An airphoto survey was conducted over the property in August of 1981 to produce photos for a topographic base map and to aid in further work on the claims. Line cutting on the property was conducted in June and August to establish base lines for a proposed geophysical grid to be cut in 1982. There were 20.35 Km of line cut during 1981,(Plate 3). Additional prospecting in conjunction with geological mapping was carried out in August by a crew of four geologists. This work resulted in the extension of the prospective barite horizon to over a kilometre of strike length.

It was concluded at the end of the 1981 field season that an extensive program including the following should be carried out:

- 1) linecutting to establish a geophysical grid
- 2) geophysical surveys including gravity, magnetometer, and EM
- 3) soil sampling along the established grid
- prospecting and detailed geological mapping of the entire property
- 5) hand trenching over portion of showing covered by a recent conglomerate.

This work program would be carried out during 1982 to fully access the potential of the property.

#### **II. CLAIMS**

The J.K. property comprises 160 full claims staked and recorded on June 25, 1981, Mayo Mining District, Yukon Territory. J.K. 1-160 Tag No's are YA 62639-YA62798, respectively, (Figure 3,Table 1). The J.K. claims 1-160 are held by Pan Ocean Oil Ltd.



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# TABLE I

# LIST OF MINERAL CLAIMS

	Recording	Mining	
Name	Date	Divsion	Tag No.
J.K. 1	June 13	Мауо	YA 62639
J.K. 2	**	Мауо	YA 62640
J.K. 3	M	Мауо	YA 62641
J.K. 4	*	Мауо	TA 6264 <b>2</b>
J.K. 5	"	Мауо	YA 62643
J.K. 6	**	Мауо	YA 62644
J.K. 7	*	Мауо	YA 62645
J.K. 8	*	Мауо	YA 62646
J.K. 9	•	Мауо	YA 62647
J.K. 10	-	Мауо	YA 62648
J.K. 11		Мауо	YA 62649
J.K. 12	-	Мауо	YA 62650
J.K. 13	•	Мауо	YA 62651
J.K. 14	*	Мауо	YA 62652
J.K. 15	-	Мауо	YA 62653
J.K. 16	•	Мауо	YA 62654
J.K. 17	•	Мауо	YA 62655
J.K. 18	•	Мауо	YA 62656
J.K. 19	-	Мауо	YA 62657
J.K. 20	•	Мауо	YA 62658
J.K. 21	*	Мауо	YA 62659
J.K. 22	-	Мауо	YA 62660
J.K. 23	•	Мауо	YA 62661
J.K. 24	**	Mayo	YA 62662
J.K. 25	-	Мауо	YA 62663
J.K. 26	м	Mayo	YA 62664
J.K. 27	*	Мауо	YA 62665
J.K. 28	-	Мауо	YA 62666
J.K. 29	•	Mayo	YA 62667
J.K. 30	•	Мауо	YA 62668
J.K. 31	*	Мауо	YA 62669

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	Recording	Mining	
Name	Date	Divsion	Tag No.
J.K. 32	**	Мауо	YA 62670
J.K. 33	**	Мауо	YA 62671
J.K. 34	**	Мауо	YA 62672
J.K. 35	84	Мауо	YA 62673
J.K. 36	**	Мауо	YA 62674
J.K. 37	**	Мауо	YA 62675
J.K. 38	**	Mayo	YA 62676
J.K. 39	<del>91</del>	Мауо	YA 62677
J.K. 40	**	Мауо	YA 62678
J.K. 41		Мауо	YA 62679
J.K. 42	**	Мауо	YA 62680
J.K. 43		Мауо	YA 62681
J.K. 44	**	Mayo	YA 62682
J.K. 45		Мауо	YA 62683
J.K. 46		Мауо	YA 62684
J.K. 47	90	Mayo	YA 62685
J.K. 48	*	Mayo	YA 62686
J.K. 49	**	Mayo	YA 62687
J.K. 50	**	Mayo	YA 62688
J.K. 51	*	Mayo	YA 62689
J.K. 52	**	Mayo '	YA 62690
J.K. 53	**	Мауо	YA 62691
J.K. 54	•	Mayo	YA 62692
J.K. 55	89	Mayo	YA 62693
J.K. 56		Мауо	YA 62694
J.K. 57	**	Mayo	YA 62695
J.K. 58	**	Мауо	YA 62696
J.K. 59	**	Мауо	YA 62697
J.K. 60		Мауо	YA 62698
J.K. 61	**	Mayo	YA 62699

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	Recording	Mining	
Name	Date	Divsion	Tag No.
J.K. 62	81	Мауо	YA 62700
J.K. 63	**	Мауо	YA 62701
J.K. 64	91	Мауо	YA 62702
J.K. 65		Мауо	YA 6270 <b>3</b>
J.K. 66	91	Мауо	YA 62704
J.K. 67	June 14	Mayo	YA 62705
J.K. 68	•	Mayo	YA 62706
J.K. 69	••	Мауо	YA 62707
J.K. 70	**	Мауо	YA 62708
J.K. 71	89	Мауо	YA 62709
J.K. 72		Mayo	YA 62710
J.K. 73	**	Mayo	YA 62711
J.K. 74	**	Mayo	YA 62712
J.K. 75	**	Мауо	YA 62713
J.K. 76	**	Mayo	YA 62714
J.K. 77	••	Мауо	YA 62715
J.K. 78	**	Mayo	YA 62716
J.K. 79	**	Мауо	YA 62717
J.K. 80		Mayo	YA 62718
J.K. 81	•	Мауо	YA 62719
J.K. 82	**	Мауо	YA 62720
J.K. 83	-	Mayo	YA 62721
J.K. 84	-	Ma <b>yo</b>	YA 62722
J.K. 85	**	Mayo	YA 62723
J.K. 86	June 15	Mayo	YA 62724
J.K. 87		Mayo	YA 62725
J.K. 88	*	Mayo	YA 62726
J.K. 89	**	Mayo	YA 62727
J.K. 90	*	Мауо	YA 62728
J.K. 91	**	Мауо	YA 62729
J.K. 92	••	Mayo	YA 62730
J.K. 93		Mayo	YA 62731
J.K. 94		Mayo	YA 62732

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	Recording	Mining	
Name	Date	Divsion	Tag No.
J.K. 95	June 15	Mayo	YA 62733
J.K. 96	•	Mayo	YA 62734
J.K. 97	-	Mayo	YA 62735
J.K. 98		Mayo	YA 627 <b>36</b>
J.K. 99	*	Mayo	YA 62737
J.K. 100	**	Mayo	YA 62738
J.K. 101	~	Mayo	YA 627 <b>39</b>
J.K. 102	**	Mayo	YA 62740
J.K. 103	•	Mayo	YA 62741
J.K. 104	**	Mayo	YA 62742
J.K. 105		Мауо	YA 62743
J.K. 106	-	Mayo	YA 62744
J.K. 107	-	Mayo	YA 62745
J.K. 108	•	Мауо	YA 62746
J.K. 109	*	Мауо	YA 62747
J.K. 110		Мауо	YA 62748
J.K. 111	-	Mayo	YA 62749
J.K. 112	**	Мауо	YA 62750
J.K. 113	*	Mayo	YA 62751
J.K. 114	-	Мауо	YA 62752
J.K. 115	-	Mayo	YA 62753
J.K. 116		Mayo	YA 62754
J.K. 117	*	Мауо	YA 62755
J.K. 118		Mayo	YA 62756
J.K. 119	**	Мауо	YA 62757
J.K. 120	**	Mayo	YA 62758
J.K. 121	*	Mayo	YA 62759
J.K. 122		Mayo	YA 62760
J.K. 123	-	Mayo	YA 62761
J.K. 124		Mayo	YA 62762
J.K. 125		Mayo	YA 62763
J.K. 126		Mayo	YA 62764
J.K. 127	*	Mayo	YA 62765

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	Recording	Mining	
Name	Date	Divsion	Tag No.
J.K. 128	June 16	Мауо	YA 62766
J.K. 129	-	Мауо	YA 62767
J.K. 130		Mayo	YA 62768
J.K. 131	**	Mayo	YA 62769
J.K. 132	-	Мауо	YA 62770
J.K. 133	-	Mayo	YA 62771
J.K. 134	•	Mayo	YA 62772
J.K. 135	-	Mayo	YA 6277 <b>3</b>
J.K. 136	*	Mayo	YA 62774
J.K. 137	•	Мауо	YA 62775
J.K. 138		Mayo	YA 62776
J.K. 139		Мауо	YA 62777
J.K. 140	**	Мауо	YA 62778
J.K. 141	**	Мауо	YA 62779
J.K. 142	-	Мауо	YA 62780
J.K. 143	-	Mayo	YA 62781
J.K. 144	-	Мауо	YA 62782
J.K. 145		Мауо	YA 62783
J.K. 146	-	Мауо	YA 62784
J.K. 147	-	Мауо	YA 62785
J.K. 148	-	Мауо	YA 62786
J.K. 149	-	Мауо	YA 62787
J.K. 150	-	Мауо	YA 62788
J.K. 151	*	Мауо	YA 62789
J.K. 152	**	Мауо	YA 62790
J.K. 153	67	Мауо	YA 62791
J.K. 154		Мауо	YA 62792
J.K. 155	**	Мауо	YA 62793
J.K. 156	•	Мауо	YA 62794
J.K. 157	**	Мауо	YA 62795
J.K. 158	*	Мауо	YA 62796
J.K. 159	•	Мауо	YA 62797
J.K. 160	**	Mayo	YA 62798

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#### III. PREVIOUS GEOLOGIC WORK AND EXPORATION ACTIVITY

The first recorded work in the MacMillan Pass region was by E.D. Kindle of the Geological Survey of Canada who carried out a reconnaissance survey of the Canol Road between 1944 and 1945. Regional mapping by S.L. Blusson of map sheet 105-0 was released on open file 205 by the Geological Survey of Canada in 1974, (Figure 2, for claim status, within the MacMillan Pass Area).

The Tom property located within MacMillan Pass was discovered in 1951 by prospectors for Hudson Bay Exploration and Development and consists of 144 claims and fractions. Between the years 1951-1953 work on the Tom claims consisted of 5436m of diamond drilling in 39 holes with exploration activity centered upon the West Zone. The drilling project outlined estimated reserves of 10,470,000 tons with an average grade of 5% zinc and minor lead. No further work was carried out until 1966 when additional geologic mapping, prospecting, geochemical soil sampling, and a magnetometer survey were undertaken. In 1967, Hudson Bay completed an additional 1,675m of diamond drilling, the results of which encouraged them to drill an additional 3,271m in 1968 which outlined the Tom East Zone. This second zone increased reserves to 5.1 million tons with an average grade of 8% zinc, and 8% lead, and 2.7 ounces per ton silver. These results prompted Hudson Bay to drive an adit downslope and to the west of the two mineralized zones in 1970. During 1970 and 1971,887m of underground development was completed with 2363m of underground diamond drilling also being carried out. By 1972, 11,853m of diamond drilling had been completed with current reserves quoted to be 9,000,000 tons with an average grade of 8.4% zinc, 8.6% lead, and 2.8 ounces of silver per ton. In 1977, additional soil sampling, trenching, and geophysical surveys were carried out. Hudson Bay in 1981, decided to resume underground work with the start of an decline for future mining purposes.

The Pete property is also located within the MacMillan Pass region, and consists of 94 claims. This claim group was staked in 1975 by the Ogilvie Joint Venture, and lies within a section of Devono-Mississipian black shales that are similar to the Tom deposit. In 1978, 589.49m of diamond drilling was completed in 5 holes, and 364.7m of overburden drilling in 55 holes.



The Jason claims, also owned by the Ogilvie Joint Venture were staked in August 1974, and July 1975. In 1975, geologic mapping was carried out in addition to geochemical and gravity surveys. Also completed were seven diamond drill holes totalling 640m. Results from this initial program resulted in the drilling of 2,163m in 14 holes during 1976. The Jason claims are similiar to both the Tom and Pete groups in that they also are located within a section of Devono-Mississippian black shales, and have barite, lead-zinc mineralization.

### B) GEOLOGY

#### I. GENERAL GEOLOGY AND STRATIGRAPHY

The J.K. claims lie within the eastern margin of the Selwyn Basin tectonic province located in the southern Selwyn Mountains, and appear to lie on the western margin of a synsedimentary graben structure. This graben structure formed during early Canol time (Upper Devonian) and is referred to as the MacMillan Pass Graben (Plate 1).

Stratigraphy on the property is comprised of a middle paleozoic succession of clastic sediments (Figure 4). The oldest rocks exposed on the property belonging to the transition facies of the Road River Formation.

The Road River Formation is comprised of a thick sequence of black carbonaceous graphitic shales, black limy shales, black to tan limestones and bedded chert. The black carbonaceous shales host the Howards Pass stratiform lead-zinc deposit. Deposition of this dformation is interpreted to have taken place slowly in a widespread, quiescent, deep marine basin. Within the uppermost part of the Road River Fm. is a sequence of non-calcareous argillites and siltstones. The appearance of these coarser clastics may be the first real evidence of any tectonic instability which may be related to the formation of the MacMillan Pass graben.

Also occuring within the Road River is a hydrothermal event which is represented by a bedded barite deposit occurring at the Canol Unit 1- Road River contact. This barite horizon is visable on the Moose property, MacMillan Pass. The Road River Formation is overlain by Unit 1 of the Canol Formation. Actual contact relationships between these two formations within the MacMillan Pass area have yet to be determined (Carne), but indications are that it is a depositional unconformity within the Jason property.

		ROCK	UNITS	LITHOLOGY	FAULTING	VOLCANISM	MINERAL	IZATION			
ISSIPPIAN	PERIAL FORMATION	U N I T 4		PROXIMAL TO DISTAL, SANDY, CLASSIC TURBIDITES DEPOSITED IN BROAD FAN. (TURBIDITE SYSTEM RE-ESTABLISHED)							
IAN - MISSI	WI	U N I T		BLACK, CARBONACEOUS, SILICEOS SHALES; LOCAL BEDDED CHERT. ARGILLITE CLAST BRECCIA DEPOSITED AS SLUMP BEDS.			MODERATE - L BARITE - HOST { TOM - WES {JASON - MA BEDDED BA ( PETE	OW GRADE TED SULFIDES T ZONE IN ZONE ARITE )			
<b>NON</b>		3B		(SYSTEM RETROGRADES)			BEDDED BAR	ITE J.K. ?			
UPPER	DRMATION	U N I T		DISTAL, SANDY AND SILTY, CLASSIC TURBIDITES , " FINING AND THINNING UPWARDS "	MACMILLAN PASS GRABEN ACTIVE (DEEP BASIN CREATED )		HIGH GRADE TOM-EAS JASON-SC	MASSIVE SULFIE T ZONE DUTH ZONE	)ES		
	VOL FC	3A		(SUDDEN PROGRADATION OF SYSTEM)	WEST BOUNDARY OF GRABEN ACTIVE (POSSIBLY EAST	BASALTIC					
AN	CAN	U N I T 1		DISTAL, SILTY AND SHALEY, CLASSIC TURBIDITES IN MID-FAN. DISTAL, SILTY AND SHALEY, CLASSIC TURBIDITES IN LOWER FAN, "COARSEN- ING AND THICKENING UPWARDS" (TURBIDITE SYSTEM ESTABLISHED)	BOUNDARY ALSO)	VOLCANISM ?	BEDDED				
DEVONIA	ROAD RIVER GROUP			BLACK, CARBONACEOUS, GRAPTOLITIC SHALES . LIMESTONE, CHERT.	MACMILLAN PASS GRABEN ESTAB - LISHED		BEDDED BARITE (MOOSE - CARY )	TO ACCOMPANY PAN CALGARY TABLE GEOLC J DATE SC	OF PR	<u>39-81</u> BY OIL INCIP EVEI IS	J.D.K. LTD ALBERTA AL NTS
JCC	•	• • • •	-		· · · · · · · · · · · · · · · · · · ·			DEC., 1981 —			<b>B-</b> 1481

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Unit 1 of the Canol Formation is composed of two very distinct facies assembleges. The majority of the unit is represented by a sand banded argillite facies made up of interbedded fine grained sandstones, siltstones and argillites. This is believed to represent a lower fan facies and has been identified on the J.K. claims. The second facies is a complex interbedding of chert pebble conglomerate, coarse massive sandstone and sand banded argillite in fining upwards sequences which represent turbidite channels. Unit 1 rocks found to date on the J.K. are most representative of a lower fan facies, and these have been identified at several locations on the property. The thickness of Unit 1 varies between 100-1000m within the MacMillan Pass graben. Also found within the upper portions of Unit 1 is a hydrothermal - volcanic event which is represented by high grade massive sulfide deposits on both the Tom and Jason properties. It is believed that these deposits represent the activation of the western margin of the MacMillan Pass graben.

The contact between Unit 1 and Unit 2 is a sharp lithologic change resulting from tectonic disruption within the basin. Unit 2 is composed of one facies: massive chert pebble conglomerate. The extent of Unit 2 conglomerate is defined by turbidite channels that are restricted within the confines of the graben structure. Unit 2 has not to date been located within the J.K. claims. Instead, there appears to be a gradational contact between Unit 1 and Unit 3a.

The contact between Unit 3a and Unit 2 is also a sharp lithologic contact believed to have been tectonic in origin. Unit 3a is approximately 200m thick within MacMillan Pass, and is composed predominately of sand banded argillite with graded sandstone, sandstone and argillite clast breccia, and a channel fill facies assemblage of chert-pebble conglomerate, graded sandstone, and banded argillite.

Unit 1 and 3a are identical and unseparable unless separated by Unit 2. Thus on Marmot Ridge (western edge of claims), Unit 1 and Unit 3a are represented by one thin unit of sand banded argillite. Unit 3a is well exposed on the J.K. claims in several areas and is a sand banded argillite which appear to grade into Unit 3b. The fining upward sequence of Unit 3a channel facies indicates either complete a withdrawl, or retrograding of the turbidite system. Unit 3b indicates the complete withdrawl or retrograde of the turbidite system from the garben structure with the graben structure becoming filled by Unit 3b sediments which spread out to form a thin outer basin facies. Unit 3b is variable in thickness between 100 and 1000m within MacMillan Pass area, and is composed almost entirely of massive carbonaceous black argillites with rare intermittant distal turbidites. These turbidites occur in the top 250 metres and consist of detrial pyrite, micrite, shale fragments, quartz grains and organic debris including calcisphere and radiolaria fragments.

The lower 400m of Unit 3b is composed of uniformly fine grained carbonaceous black shales. Thick beds tend to be very carbonaceous and nonsiliceous. Also found within the lower half Unit 3b are four black weathering dark grey feted limestone beds. These feted limestone beds have been identified on both the Pete and Moose claims and as talus at two locations on the J.K. claims. They were also intersected in drill hole DDH 8 on the Jason property.

The main mineralization in the MacMillan Pass area occurs near the 3a-3b contact, represented by the Jason Main Zone and Tom West Zone. The mineralization is in the form of bedded galena-sphalerite-barite, and is of sedimentry origin. The Pete is also reported to be of an equivalent nature, but to date no massive sulphides have been intersected here. The bedded, laminated barite located on the J.K. is believed to lie within Unit 3, but the exact stratigraphic location has yet to be determined.

Rocks of the Canol Formation are overlain by rock which is presently interpreted to be Upper Devonian to Mississipian in age, and represent the Imperial Formation. The Imperial Formation varies in thickness from 300m to 600m in the MacMillan Pass area. The upper 4b Unit of this formation is not exposed on the J.K. claims. Unit 4a, which is located on the J.K. is composed of thin bedded "classic" trubidites which grade upward into what appears to be a more proximal turbidite found in Unit 4b. Contact relationships with the Canol Formation within the J.K. claims appear to be conformable.

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The entire Middle Paleozoic sedimentry succession has been intruded by a mega-crystalline biotite, hornblende, quartz monzonite of Cretaceous age. As a result, the sediments were complexly folded and faulted during the time of intrusive emplacement. Thermal alteration of the sediments near the intrusive contact is minimal, only extending out several hundred feet.

A recent iron rich conglomerate is found to coat most stream bottoms on the J.K. claims and is believed to be post glacial in origin.

#### **II. STRUCTURE**

The MacMillan Pass area is located within a broad belt of northwesterly trending open to isoclinally folded Paleozoic sediments. Folding on the J.K. claims is characteristic of this trend, with the folds plunging 10°-30° to the northwest, and axial trends at approximately 360°. Some of the folds are asymmetrical, and even overturned in a few cases. Faulting on the J.K. tends to be parallel to the axial planes of both anticlines and synclines. To date only one major fault has been found to cut across the axial planes of the folds, so nearly at a right angle. This cross cutting fault has terminated the barite horizon to the northwest. Movement on this fault is as yet undertermined.

It is believed that deformation in this region, including the J.K. claims, was produced during the Laramide orogeny with possible deformation also occurring during the Antler orogeny.

Centrally located on the claim group is a large anticlinal structure which has produced secondary parasitic folds on each limb, some of which are overturned. It is within the core of this anticline that the barite horizon occurs within the Canol Formation. A quartz monzonite pluton to the southwest side of the claim group is responsible for isoclinal folding close to the contact with the sedimentry package. III. MINERALIZATION

Mineralization on the J.K. claims consists of laminated and nodular baritic sediments located stratigraphically within Unit 3 of the Canol Formation, and is the result of hydrothermal activity. To date barite has been found in one location on the property with a strike length of over one kilometre, and thickness varying from of 3 to 10 metres. - 17 -

#### C) GEOCHEMISTRY

#### I. Heavy Mineral Sampling

Several heavy mineral stream sediment samples were collected from creeks draining the J.K. claims (Plate 2).

Heavy mineral stream sediment sampling is a technique whereby a bulk (20kg) stream sedimen sample is collected from an active drainage. Material is collected from a site where stream sediment material is being deposited at the first break in slope. Stream sediment is screened in the field to -20 mesh or -35 mesh with 20kg of -20 mesh or 10kg of -35 mesh being collected. This material is then shipped to a commercial lab for preparation and analysis. At the lab the sample is dried and screened to various size fractions, -35 to +80 mesh and -80 mesh. This material is then separated into various specific gravity fractions utilizing a heavy liquid separation technique. The heavy liquid separation gives three specific gravity fractions for each size fraction: light, intermediate and heavy. These fractions are then passed through an electromagnetic and magnetic separation resulting in three fractions: non-magnetic, paramagnetic and magnetic.

The resulting mineral concentrations are then analyzed for eleven elements: copper, lead, zinc, silver, molybdenum and cobalt by atomic absorption, and tungsten, gold, arsenic, antimony and barite by neutron activation.

Only heavy non-magnetic and paramagnetic fractions are anlayzed for this program. The heavy non-magnetic fraction contains predominately unweathered monomineralic mineral species having a specific gravity greater than 3.3/2.8 sg. (gold, tungsten minerals, barite). The heavy paramagnetic fraction contains complex sulphide grains and weathered sulphides.

This technique is orientated to find stratiform synsedimentary massive sulphides of the Tom-Jason type and tungsten skarn mineralization of the MacTung-Cantung type.

# **II. HEAVY MINERAL SAMPLING RESULTS**

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Heavy	Mineral	Samples	from	the	J.K.	claims	include:	Н <b>SO</b>	195
								HSO	18 <b>3</b>

SJA	19
SJA	18

		PPM	PPM	PPM	PPM	PPM	PPM	PPB_	PPM	PPM	PPM		
		Cu	РЪ	Zn	Мо	Ag	Со	Au	As	SЪ	W	Ba <b>%</b>	
HSO	195												
	35нр	144	33	2700	44	1.3	22	80	680	130	2	•6%	
4	3 5HN	460	118	1720	29	2.6	26	200	1300	89	65	1.0	
HSO	183												
	35HP	156	94	810	47	0.0	19						
i.	3 5 HN	55	16	760	138	•6	9	40	89	12	100	54.7	
	80HN	63	46	60	8	1.1	17	200	8	1	20	1.0	
SJA	19												
	35HP	101	23	610	20	.4	19	120	880	48	20	•8	
	3 5HN	82	10	370	18	•5	55	80 <sup>°</sup>	520	32	224	-8	
	80HP	68	25	300	10	1.0	22			-		-	
	80HN	69	38	127	16	•6	60	80	336	28	1160	3.2	
SJA	18												
	35HN	46	13	92	9	0.0	2	40	126	10	36	49.6	
	80HN	11	27	50	5	•6	3	40	68	6	400	50.8	
	35HP	158	58	920	74	1.0	17						

- 18 -

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# III. Rock Sample Analysis

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	Au oz	Ag oz	РЪ%	Zn <b>%</b>	Ba%	Sr%	
4854 <b>9</b>	.002	•05	.01				
485501		•02	•01	.01	49 <b>.69</b>		
48551					•77	•007	
4855 <b>2</b>		•02	.01	.01	45.93		
485 <b>26</b>		•07	.01	.01	19.8	<u> </u>	
4852 <b>7</b>		•02	.01	.01	42.6		
485 <b>28</b>		•02	•01	•04	36.3		
4852 <b>9</b>		.11	.01	.01	9.7		
48530		•10	.01	.02	•72		
48531		.09	.01	.01	•31		

## D) CONCLUSIONS:

The majority of work on the J.K. claims was carried out over a two week period, and consisted of a limited mapping and prospecting program. In order to truely evaluate this claim group, much more time will have to be spent carrying out detailed geologic mapping, and geochemical sampling of the entire claim group. This must be done before any definite conclusions can be drawn as to the economic significance of this barite horizon. To date the results of the heavy mineral sampling program are encouraging in that they may help us to decide whether this horizon could be related to massive sulphides (similar to Jason and the Tom Deposit), and where exploration should be directed in order to locate hydrothermal venting which created the barite horizon.

#### E) RECOMMENDATIONS:

In order to better define the economic potential of this property the following program is proposed to be carried out during the 1982 field season:

- 1) linecutting to establish a geophysical grid
- 2) geophysical surveys including gravity, magnetometer and E.M.
- 3) soil sampling along the established grid
- prospecting and detailed geological mapping of the entire property
- 5) hand trenching over portion of the showing the covered by recent conglomerate

## - 21 -

#### References

Blusson, S.L.

Regional Geologic Setting of Lead-Zinc Deposits in Selwyn Basin, Yukon, Geol. Survey of Canada Paper, 1978 - 1A.

Carne, R.C.

Stratabound barite and lead-zinc barite deposits in the Eastern Selwyn Basin, Yukon Territory: Dept of Indian and Northern Affairs, Open File Report, EGS 1976 - 16, 41p.

Geological Setting and Stratiform Mineralization Tom Claims, Yukon Territory: Dept. of Indian and Northern Affairs, EGS 1979-4.

#### Dawson, K.M.

1977: Regional Metallogeny of the Northern Cordillera: Geol. Survey of Canada, Paper 1977 - 1A.

Gabrielse, H.; Blusson, S.L.; Roddick, J.A. Geology of Flat River, Glacier Lake, and Wrigley Lake Map Areas, District of MacKenzie and Yukon Territory; Partl: General Geology, Structural Geology and Economic Geology; G.S.C. Memoir 366, 1977.

Gordey, S.P.; Wood, D.; Anderson, R.G. Stratigraphic Framework of Southeastern Selwyn Baisn, Nahanni Map Area, Yukon Territory and District of MacKenzie, Geology Survey of Canada, Paper 1981 - 1A.

Lydon, J.W.; Lancaster, R.D.; Karkkainen, P. Genetic Controls of Selwyn Basin Stratiform Barite/Sphalerite/ Galena Deposits: An Investigation of the Dominant Barium Mineralogy of the Tea Deposit, Yukon; Yukon Geology Survey of Can., Paper 1979-18.

Morganti, J.M. Ore Deposit Models - 4. Sedimentry Type Stratiform Ore Deposits, Some Models and a New Classification; Geoscience Canada; Volume 8 Number 2.

Ogilvie Joint Venture Jason Property, 1980 Results for Pan Ocean Oil Ltd. unpublished report.

Winn, R.D. Jr. Bailes, R.J.; Lu, K.I Debris flows, Turbidites and Lead-Zinc Sulphides along a Devonian Submarine Fault SCARP, Jason Prospect Yukon Territory; 1979 Exploration results for Pan Ocean Oil Ltd, unpublished report.

# APPENDIX "A"

# STATEMENT OF EXPENDITURES

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## A) Wages:

J. Ka	ipusta	Winnipeg, Man	- 12	days	at	72.40/day,	Aug.	15	-	Aug.	27	\$868.80
D. Hu	me	Edmonton, Alta	- 12	days	at	68.00/day,	Aug.	14	-	Aug.	27	816.00
P. Po	scenti	Toronto, Ont.	- 12	days	at	68.00/day,	Aug.	14	-	Aug.	27	816.00
P. Ja	ckson	Toronto, Ont.	- 1	day	at	64.00/day,	Aug.	20				
G. Fj	etland	Vancouver, B.C.	- 1	day	at	65.26/day,	Aug.	16				

SubTotal	\$2.630.06	

# B) Transportation

# 1) Helicopter - Hughes 500D- August 14-August 27 11.1 hrs at \$375.00 an hour \$4,162.50 - Fuel at 26 gal. an hour is 290.33 gal. at \$2.16 a gal, less deposit on barrels (\$50.00 per barrel) 277.11 \$627.11 - \$350.00

Subtotal \$4,439.61

# C) Heavy Mineral Seperation and Analysis Cost:

<b>i)</b>	Analysis and seperation cost 50.75/per sample x 4\$	203.00
2)	Analysis of rock samples (10 samples in total)	273.50

Subtotal 476.50

## D) Linecutting:

E) Man Day Support Costs

June Ketza Enterprises Ltd. 2.1km at \$300.00 a kilometre	630.00
September Ketza Enterprises Ltd. 18.25km at \$340.00 a kilometre	\$ 6,205.00
Mobilization and demobilization	

- Subtotal \$ 7,115.00
- TOTAL \$14,661.17

## 11 314,001.17

\$53.25 x 38	\$ 2,203.50
Subtotal	2,203.50

## F) Other

Administrative Overhead	\$ 1,432.63
Technical Information	130.80
Subtotal	\$ 1,56 <b>3.43</b>
Total Expenditures	\$18,248 <b>.10</b>

## BREAKDOWN OF SUPPORT COSTS

The work on the JK claims was carried out in conjunction with a regional project centered in the MacMillan Pass area. As a result, man days support costs are calculated with respect to this regional project since all camp facilities and personal were used, this figure will be calculated for 12 people who worked on the regional program.

# A) Food and Accommodations:

Food		- Ma	v 20-September	1, 19	81	 -\$12,818.83
Camp	Shelter	- Maj	20-September	1, 19	81	 8,988.18
Camp	Equipment &	shelter Ma	7 20-September	1, 19	81	 6,230.00
Camp	Fuel	- Maj	20-September	1, 19	81	 891.10
Camp	Misc.	- Ma	v 20-September	1, 19	81	 761.25
Geolo	gic Material	& Supplies	- May 20-Sepe	ember	1, 1981	 13,007.07

Subtotal \$42,696.43

#### B) Other:

Fixed Wing Aviation - May 20 - August 1	·\$10,299.67
Equipment Rental - May 20 - August 1	1,398.76
Freight - May 20 - August 1	12,704.41
Technical Information - September (Direct Charge J.K.)	130.80
Administration - August (Direct charge J.K.)	1,432.63

Subtotal -\$25,966.27

Subtotal \$68,662.70

Subtract Direct Charges to J.K. \$1,563.43

TOTAL \$67,099.27

## BREAKDOWN OF MAN DAYS SUPPORT COSTS

#### Camp Shelter:

## Camp Equipment and supplies:

May 20 - September 1 - Applicances, freezer, griddle misc. tools, plumbing and electrial equipment, generator rental, equipment, misc. camp equipment etc.....\$ 8,390.01

## Camp Food:

May	20	-	September	1	•\$1	2,	818	Β.	8:	3
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## Camp Fuel:

May	20	-	September	1		891.	.01
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# Geologic Materials & Supplies

Back packs, hammers,	altimeters,	rainsuits	
drafting equipment, c	lipboards,	etc\$	13,007.07

## Freight:

May	20	-	September	1	•••••	12,704.41
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## Fixed Wing Aviation:

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May 20 - September 1 .....$ 10,299.67
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## Technical Information

August - Air	photos	\$	130.80
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Man days:

The regional program contained 12 people for a period of 105 days. Total Man days 105 x 12 = 1260 Total Support Costs \$67,099.27 Man day Support Costs <u>Total Support Costs=\$67,099.27</u> = \$53.25 Total Man days 1260

Man day support cost with respect to persons working on JK Claims

J. Kapusta	August	15	to	August	27,	1981	-	12	man			
D. Hume	August	14	to	August	27,	1981	-	12	man			
P. Posenti	August	14	to	August	27,	1981	-	12	man	38	man	da <b>ys</b>
P Jackson	August	20					-	1	man			
G. Fjetland	August	16					-	1	man			

Direct charge to JK claims, is Administrative Overhead at \$ 1,432.63 and Technical Information at \$130.80 Total Support Costs Total = \$1,563.43 Man Day Support Cost \$53.25 x 38 = \$2,023.50 Total = \$2,023.50

ANALYTICAL COSTS

# Heavy Mineral Analysis Costs:

Magnetic Seperations	-\$12.00
Samples to N.A.S.	•50
Cu, Pb, Zn, Mo, Ag, Co analysis	4.00
Preperation	24.00
Ba Preparation	2.50
Au, As, Sb, W, analysis	7.75
	\$50.75

#### Analysis Cost for Rock Samples by element:

Ag	\$ 8.00
Au	8.00
Ag + Au	11.00
РЪ	6.00
Zn	6.50
Ba	9.50
Sr	10.00
As	10.00

BUNDAR-CLEGG & COMPANY LTD. 764 BELFAST ROAD, OTTAWA, ONTARIO, KIG UZ5 PHONE: 237-3110 TELEX: 053-4455 INVOICE: E 4464 Pan Ocean 011 Ltd. DATE: June 17, 1931

Pen Ocean Oil Ltd. P.O. Gag 2533 Station "N" Calgary, Alberts T2P 2M7 INVOICE: E 4464 DATE: June 17, 1931 REPORT NO: A21 - 610 PROJECT: LANSING 5

H.O. No. D 9901

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\$ 45.00
36.00
39.00
54.00

\$ 117.00

DUPLICATE

Approved June 23/81

dda

BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Pro Ocean Oil Ltd. 300 - 5th Avenus SW Calgary, Alberta T2P 304

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INVOICE: G 71294 DATE: Roverbar 6, 1931 REPORT NO: A21 - 1613 PROJECT: EANSING

H.O. Ko. E 7965

J.K. → 1	Gold, Silver	Assey	@\$11.00	\$ 11.00
2	Gold	Asseys	@ \$ 8.00	16.00
J.K -> 2	Silver	Assays	@ \$ 8,00	16.00
- 1	Copper	Assay	@ \$ 6.00	6.00
J.K>3	Lead	Asseys	@ \$ 6.00	18.00
J.K -> 2	Zinc	Assays	@ \$ 6.59	13.00
2	Kicks1	Asseys	@ \$ 7.50	15.00
2	Cobalt	Assays	@ \$ 6.50	13.00
2	10 1	Assays	€\$ 9.00	18.00
J.K>=	Borium	Assays	@ \$ 9.50	23.50
J.K. ~71	Strentius	Assey	@ \$ 10.00	10.00

\$ 164.50

496.50

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# **KETZA ENTERPRISES LTD.**

ROSS RIVER Yukon, Yob 1so

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BLAKE S. MACDONALD, Pres.

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PHONE [403] 969-223

September 14th, 1981

# INVOICE

TO: Pan Ocean Oil Ltd., P.O. Bag 2533, Stn. M, Calgary, Alberta T2P 2M7

Attention: Gerry McArthur, Mineral Exploration

RE:

JK linecutting, Yukon. August/September 1981

Linecutting	,	
18.25 km @	\$340/km	\$6,205.00
Mob/demob	•••••	280.00

TOTAL ... \$6,485.00

# KETZA ENTERPRISES LTD.

ROSS RIVER Yukon, yob 1**so** 

1\_4KE S. MACDONALD, Pres.

Phone (403) 969-223 Telex 036-8-317

June 27th, 1981

# INVOICE

TO: Pan Ocean Oil Ltd., 1050 - 355 - 4th Ave. S.W. Calgary, Alberta

Attention: Gerry McArthur

:

RE: JK linecutting, Macmillan Pass area, Y.T.

2.1 km @ \$300/km ..... \$630.00

invoice no: K181-81

APPENDIX "B"

GEOCHEMICAL ANALYTICAL RESULTS

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	SAMPLE NUMBER	LAD	REPORT	Cu	Pb	2.	Mo	Ag	Ma	P.0	U	UI	101	П	
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ĺ			SAMPLE NUMBER	LAB	Au	As	Sb	w	Be	Bo	Sn	Ni	Co	Bi	Hg
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DATE:	LAB TML	REPORT NO.81165	EXTRACTION	-
PROJECT: LANSG		WT. USED:	METHOD:	

PROJECT	YR.	SAMPLE NUMBER	LAB.	REPORT	Cu	Pb	2.	Mo	Ag	Mn	Fe •/	U.,	UI	101 */-		
		FRAC INL 35	<del></del>		ppm 30	Ppm V4	90 m	90 <b>m</b>	90 90	65			70	7	Н	
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		35HPSJA0014	2054	1	- m	1000		S. Startes		-		60.58				
		80HNSJA0014	,2055	1	-	229752	AT 15-20	1446		BABBE	11891	APPENDIX	11850	8-3¥	0	
		80HPSJA0014	2956	1111	1.1.1.1	A STA	1.00	1.00	- STAT	PINTS	Yey. 4				Z	
		35HNSJAQQ15	2957	1	AND.	de l'an	Teriss.	A. Th	1944	15.55	7 ×8 ± %	200	\$-76 GR		Ł.	**
		35HPSJAQQ15	2958	1	GARA.		24520	1.44	STO 4	S. 5. 6 9 1				6120		
1		80HNSJA0015	,2959	1111	Paste.	4.400	1125	1172	dia a	St. 6 .	\$ 40.0	Sen 2	12.59	12.2		
		80HPSJA0015	12960	1111	1915-19-6	425	29,520.0	11.16	TAPL	North Le	a what	ESSE.		新生きる		
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Luu	1	,35HPSJAQQL6	12962	1111	GAT	See	19 <sup>21</sup> 2	2.6	AL H	1.1		10		No. of Concession, Name		
	1	80HN2JY007e	1296	1111	ist.		面出论		10 P	O.S.				1289		
IIII		80Hb21Y001e	12964	Inn	1000	1.6		<b>M</b>	<b>H</b> A	ATE:	arro:					
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PANOCEAN OIL LTD. MINERALS DIVISION

	PROJECT:	LANSG	L WI	USED:	-i NJ.	<u>. 5110</u>	55 EX M	ETHOD	_ N.			- 1 -				
	PROJECT YR.	SAMPLE NUMBER	LAB #	Au ppb	As ppm	Sb ppm	W	Be ppm	B.a. %	Sn ppm	Ni	C. ppm	Bi ppm	Hg ppb	e	
	LANSCA1	80HNSJA0013	.2051	28. Revelation	30	34	40	40	80	63	\$0	<b>4</b> 6	70	78	Ħ	
		HOHPSJADDIJ	12052	1.143		1000 C			2007 - 200 2003 - 200			Strain C	See and			
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		SQHESJA0014	1777	A SHALL		2.49 A.A. A.A. 49 A.A.	2 4 2 4 6 7 4 4 4 6		50. C.		19 28 42 9 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	58 x 34 8	<u>:</u> :•>>>	<u>- 255.</u> - 27.	17	
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	<u>'</u>	35HPSJA0015	12028	San A	79. S. P	171	A at by	NEST		a ga a se	artes	74°2''2	19786	1		*
		80HPSJA0015	14433		in fails	<u>Trains</u>	a 25% est	it en	22.152	42.522	8245 A	## 5 ×			R	
		JSHNSJAQQLG	2061		1775	8.8.9,62 97,81,42			2.571	83574 9459	<u>20192</u> Jaco (	58-24-59 1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	10 3 8 6 2 4 6 4 5	<u>2889</u> 288840	載	
	lun	135HPSJA0016	13963	Car		行在.		1015	6	15.45	54.a.	- <u>1</u>	Nex 2			
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	┝┸┸┚╶┸╶	80HNSJA0019	2075	1120	1.634	1143	aurts TTKD		(49·)	<u></u>	1111	1111		ш	<b>[]  </b>	
£ (		180HRSJA0019	2076												۶IJ	
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MARKED	G	DLD	SIL	VER	86	Za	Ba				
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
48526			0.07		<0.01	<0.01	19.80				
48527			<0.02		<0.01	0.01	42.60				
48528			0.02		<0.01	0.04	36.30				
48529			0.11		<0.01	<0.01	9.70	-			4
48530			0.10		<0.01	0.02	0.72				
48531			0.09		<0.01	<0.01	0.31				
cc Mr. G. Hearthur											
<i>,</i>											
Rejects retained three weeks Pulps retained three months unless otherwise arranged.			-				z Registered	Audyor, fro	vince of Britis	h Columbia	
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MARKED	GO	LD	SIL	VER	Cu	Pb	Zn	RL	Co	WO,	Ba	S
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# AUTHOR'S QUALIFICATIONS

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#### STATEMENT OF QUALIFICATIONS

#### J.D. Kapusta

- I, John D. kapusta of Calgary, Alberta Hereby certify that:
- 1) I am a geologist presently residing at 302, 1902 11th Ave., S.W. Calgary Alberta, and am currently employed by Pan Ocean Oil Ltd., of 300 Fifth Ave., S.E. Calgary, Alberta.
- 2) I graduated from the University of Manitoba in 1981 with a BSc Degree in Geology
- 3) The entire program was conducted under the supervision of G.F. McArthur, senior geologist for Pan Ocean Oil Ltd.

John D. Kapusta

## STATEMENT OF QUALIFICATIONS

#### G.F. McArthur

I, Gerald F. McArthur of Calgary, Alberta, hereby certify that:

- I am a geologist residing at 111 Chelsea St., N.W., Calgary, Alberta and 1) am currently employed by Pan Ocean Oil Ltd. of 300 Fifth Ave., S.W. Calgary, Albarta.
- 2) I graduated from the University of British Columbia, in 1973 with a BSc. in Geology and have practiced my profession since that time.
- 3) I am a professional geologist registered in the province of Alberta.
- 4) I supervised the 1981 field work carried out by John D. Kapusta for Pan Ocean Oil Ltd., which forms the basis of this report.

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# LEGEND



GEOLOGYJK CLAIMSLANSING PROJECT, 1981DATESCALEDEC., 19811" = 1/4 MILE105 0/1D-1482





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