

G E O L O G F O I T L I S T I N G

SYSTEMS ENGINEERING BY
INTERNATIONAL GEOSYSTEMS CORP.

PAN OCEAN OIL LTD.

JASON PR-2N-AG-PA STF DEPOSIT, Y.T.

FORMAT VERSION : 6802

DRILLHOLE/TRVERSE : 89-DH059
TOTAL DEPTH/LENGTH : 153.31
CORE/HOLE DIAMETER : NOCOLLAR ELEVATION: 1407.20
NORTHING (- IF S): 7604797.00
EASTING (- IF E): 433273.44AZIMUTH(DEG) : 205.00
VERTICAL ANGLE : -50.00
CO-ORD SYSTEM : UTMGEOLOGGED BY : HDG +
DATE (YY/MM/DD): 810826
PROJECT NUMBER : J-END

SEQ. NO OF SURVEY DATA	LENGTH FROM COLLAR TO SURVEY POINT	AZIMUTH (DEG)	VERT. ANGLE (DEG)
1	91.40	195.00	-51.00
2	121.90	187.00	-52.00
3	152.40	186.00	-49.50

R HED

ORIGINALLY LOGGED BY ANGIE STARIA IN JULY 1980.

F - I N T E R V A L -		CORE T- %		TYPI- QAL		TEX- GRAIN		PGI		STRUCTUR-1		ALTERATION MINS		ORE-TYPE MINS		SUMMARY																	
K	L (UNITS = . DEC. PLACE)	RECOV-	R	ROCK	TY	IM	MAT	TX	TX	F	C	%	M	ARG	/RI	T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN	-	-	-	-
E	A (MT=METRIC FT=FOOTRIC)	ERY	O	I	1	2	UN1	1	2	F	F	C	A	1	AZM	RT	QZ	FL	CY	CA	BA	XX	PY	CP	GL	YY	A	1	A	2	-	-	-
Y	G F R O M - T O - I N T (.)	D	X	TYPE	1	2	UN1	1	2	F	F	C	A	1	AZM	RT	QZ	FL	CY	CA	BA	XX	PY	CP	GL	YY	A	1	A	2	-	-	-
K	F	ROCK	FM	RT	1M	Q2	TX	TX	S	C	O	O	CHT	T	ID	STK	DIP	MG	MU	CL	SD	QS	HA	PR	MT	SL	HA						
E	L	QUAL	AGE	EN- R	LC- 3			3	4	O	/			2	AZM	RT	H	H	H	H	H	H	H	H	H	H	H	1	1				
Y	G	DESIG	VTR	COL						R	C				STRUCTUR-2	A	A	A	A	A	A	A	A	A	A	A	A	2	2				

/ OVR 0.00 15.24 15.24
L

OVER

P

/ 15.24 118.72 103.48

ARGL CR

LM 0 2) 3

P 0 LM 45

B+

L 15.24 118.72

3A

MX 9

<+

R 15.24 118.72

TO GENERAL, THIS CARBONACEOUS ARGILLITE IS FAINTLY LAMINATED

R 15.24 118.72

WITH SILT TO SAND SIZE PARTICLES. EUHEDRAL PYRITE CUBES OCCUR

R 15.24 118.72

AT INTERVALS AVERAGING .4CM IN DIAMETER. QUARTZ-SIDERITE VEINS

R 15.24 118.72

ARE PREVALENT AND ARE PROBABLY RESPONSIBLE FOR MINOR DEFORMATION

R 15.24 118.72

WITHIN THE ARGILLITE INTERVAL. OVERALL, THE ROCK RECOVERY AND

R 15.24 118.72

ROCK QUALITY IS POOR.

/ 19.81 20.02 0.21

X ARGL SF

LM 0 2) 3

R 0 LM 45

D*

L 19.81 20.02

V3

/ 26.17 26.40 0.23

1 BRHM

SS

LM9

R

FO

40

B1

L 26.17 26.40

4T

5

<+

R 26.17 26.40

PYRITE OCCURS AS EUHEDRAL CUBES THAT AVERAGE .5CM IN DIAMETER.

/ 26.28 28.42 0.14

8 SILT

0 2 6 2

R

B=

L 26.28 28.42

ST

LC LM 8

<)

/ 30.57 32.41 1.84

7 BRHM CR

SS

LM9

R

B+

L 30.57 32.41

3A

4

<+

R 30.57 32.41

SOFT SEDIMENT SLUMP WITHIN THE ARGILLITE HAS RESULTED IN MINOR

R 30.57 32.41

BRECCIATION. PYRITE OCCURS MAINLY AS EUHEDRAL CRYSTALS, HOWEVER

[illegible]

[illegible]

G E O L O G

[illegible]

Z	130.00	131.00	1.00	MSSX PY	MX BN	P	<+		M5	<2	
L				ST	VG			M3 M)	M(<+	
R	130.00	131.00		GALENA, SPHALERITE SHOW MINOR BANDING (3-5MM. THICK). LARGE							
R	130.00	131.00		OPEN SPACE CUBIC GALENA, HEXAGONAL QUARTZ, AND AN UNKNOWN							
R	130.00	131.00		ORTHOPHOSPHATIC CRYSTAL, LINE VUGS AND CAVITIES.							
R SPC	130.00	131.00		SAMPLE D.G. 167A) TAKEN AT 130.84 METRES (P.T.).							
Z	131.00	132.00	1.00	MSSX	PY5	MX	P	<+		M5	M2
L				ST					M2 M)	M)	X=
Z	132.00	133.00	1.00	MSSX	PY5	MX	P	<+		M5	M2
L				ST					M2 M)	M)	X=
R SPC	132.00	133.00		SAMPLE D.G. 167 B) TAKEN AT 132.54 METRES.							
Z	133.00	134.00	1.00	MSSX PY	CH1 MX BN	P	Q=			M4 B+ M2	
L					LC				M1 M)	M)	X2
R SPC	133.00	134.00		SAMPLE D.G. 166 TAKEN AT 134.7 METRES (P.T.).							
R	133.00	134.00		SULPHIDES ARE PREDOMINANTLY MASSIVE OR MILDLY BANDED, HOWEVER IN							
R	133.00	134.00		REGIONS OF CHERT THEY BECOME THINLY LAMINATED AND HIGHLY							
R	133.00	134.00		CORRUPTED.							
Z	134.00	135.00	1.00	MSSX PY	CH2 MX BN	P	Q=			M4 B+ M2	
L					PY4						
Z	135.00	136.00	1.00	MSSX PY	CH2 MX	P	Q=			M3	M2
L				4T	PY3			Q1 Q)	M+	X=	
Z	136.00	137.00	1.00	MSSX	CH1 MX	P	Q=			M2 B(M4	
L				ST				M1 Q)	M+	X+	
R	136.00	137.00		GALENA OCCURS AS COARSE TO MEDIUM GRAINED CRYSTALS IN 2CM.- 3CM.							
R	136.00	137.00		MASSIVE PATCHES.							
Z	137.00	138.00	1.00	MSSX	CH=	MX	P	V+		M3	M1
L				6T					M2 M=	M+	D+
R	137.00	138.00		A BOXWORK OF SIDERITE AND QUARTZ-SIDERITE SURROUND MASSIVE							
R	137.00	138.00		PYRITE AND GALENA.							
Z	138.00	139.00	1.00	MSSX PY SF	CH=	MX	P	V2		M3	B=
L									M1 M+		
R	138.00	139.00		SPHALERITE PREDOMINATES AS FINE GRAINED PARTICLES IN SILICIFIED							
R	138.00	139.00		REGIONS. IT OCCASIONALLY OCCURS AS 5MM BLEBS SURROUNDED BY							
R	138.00	139.00		MASSIVE PYRITE AND PYRRHOTITE.							
Z	139.00	140.00	1.00	MSSX PY	CH4 MX	P				M3	B1
L									V= V+	M+	B1
R	139.00	140.00		MASSIVE SULPHIDES, 30CMS THICK, ALTERNATE WITH CHERT LAYERS							
R	139.00	140.00		VEINED BY SPHALERITE, SIDERITE AND GALENA.							
R SPC	139.00	140.00		SAMPLE D.G. 164 TAKEN AT 139.60 METRES.							
R	139.00	140.00		SAMPLE D.G. 163 TAKEN AT 139.40 METRES.							
Z	140.00	140.60	0.60	MSSX PY		MX	P	FO	55 B=	M3	M1
L						VG			V+	M=	M=

[illegible]

/	140.00	140.60	0.60		3 CHEP	CHE	BR		R	<=	<=
L								NN9		<=	<=

R	SPC	140.00	140.60	SAMPLE D.G. 165 TAKEN AT 140.3M.
R		140.00	140.60	HYDROTHERMAL CHERT UNDERGOES MINOR BRECCIATION DUE TO SOFT
R		140.00	140.60	SEDIMENT DEFORMATION.

K	SSX	140.60	140.50	0.00
---	-----	--------	--------	------

/	140.60	142.20	1.60	CHER SF	CH7	LM		P	FD	35	<+	8=	
I					BR		MN6					8+	D+

	140.60	142.20	
R SPC	140.60	142.20	SAMPLE D.G. 161 TAKEN AT 141.0 METRES (P.T.).
R	140.60	142.20	CHERT OR SILICIFIED ARGILLITE FRAGMENTS ARE FOUND IN A
R	140.60	142.20	SILICIFIED MATRIX. THIN, CONVOLUTED BEDS OF CARBONACEOUS
R	140.60	142.20	ARGILLITE INCREASE TOWARDS THE BOTTOM OF THIS INTERVAL.

/	142.10	142.20	0.10	9	CGCP	3F		KL2	R	R=
L						4A	5	C	KL4	

Z	142.20	152.70	10.50	PRHM CR	SC SS	K09	P	FD	30	B+	<+
L				PA	3					V+	
R	142.20	152.70	A MINERALIZED VEIN OF GALENA OCCURS BETWEEN 148.48 TO 148.96 M.								

7	151.18	151.60	0.42	X BRHB CR	BP LC	K09	R	FD	30	B+	<+
---	--------	--------	------	-----------	-------	-----	---	----	----	----	----

152.70	153.31	0.61	ARSI	LC	P	V=
--------	--------	------	------	----	---	----

A UMH	SAMPLE				% PB	% ZN	% BR	OZ AG	% CU	% FE	OZ AU	% CD	HASH
A LAB	SERIAL				B.CLG	B.CLG	B.CLG	B.CLG	B.CLG	B.CLG	B.CLG	B.CLG	
A TYP					H-CORE	H-CORE	H-CORE	H-CORE	H-CORE	H-CORE	H-CORE	H-CORE	
A MTH					WA	WA	WA	WA	WA	WA	WA	WA	
R ASY	0.00	0.00	B.CLG = BUNDAK CLEGG, VANCOUVER; H-CORE = HALF CORE.										
R ASY	0.00	0.00	WA = WET ANALYSIS.										
R ASY	0.00	0.00	LESS THAN DETECTION LIMIT ENTERED AS -0.1. E.G. -0.01										
R ASY	0.00	0.00	NO ASSAY INFORMATION ENTERED AS -0.1										
A 001	120.40	122.53	166	8460	0.04	0.03	-0.01	0.05	0.03	8.27	-0.01	-0.1	8.30
A 001	122.63	123.50	056	8461	5.55	5.50	0.01	1.54	0.02	12.70	-0.01	-0.1	25.21
A 001	123.50	124.00	050	8462	7.97	5.45	-0.01	1.60	-0.01	6.50	-0.01	-0.1	21.39
A 001	124.00	125.00	100	8463	8.55	5.10	0.02	2.07	0.02	19.18	-0.01	-0.1	34.83
A 001	125.00	126.00	100	8464	9.35	4.00	-0.01	2.50	0.03	34.32	-0.01	-0.1	50.08
A 001	126.00	127.00	100	8465	8.13	4.65	-0.01	2.53	0.02	25.91	-0.01	-0.1	41.12
A 001	127.00	128.00	100	8466	7.05	5.30	-0.01	2.16	0.02	28.22	-0.01	-0.1	42.63
A 001	128.00	129.00	100	8467	13.50	3.00	-0.01	3.18	0.03	33.01	-0.01	-0.1	52.60
A 001	129.00	130.00	100	8468	16.65	4.65	-0.01	3.95	-0.01	27.17	-0.01	-0.1	52.29
A 001	130.00	131.00	100	8469	8.40	1.58	-0.01	2.10	0.03	33.67	-0.01	-0.1	45.66
A 001	131.00	132.00	100	8470	11.76	3.00	-0.01	2.82	0.03	32.10	-0.01	-0.1	49.59
A 001	132.00	133.00	100	8471	11.31	3.73	-0.01	2.64	0.01	34.27	-0.01	-0.1	51.84
A 001	133.00	134.00	100	8472	12.99	9.35	-0.01	2.97	0.01	24.80	-0.01	-0.1	50.00
A 001	134.00	135.00	100	8473	12.79	3.50	-0.01	2.78	0.02	29.84	-0.01	-0.1	48.81
A 001	135.00	136.00	100	8474	9.18	2.62	-0.01	1.87	0.01	31.40	-0.01	-0.1	44.96
A 001	136.00	137.00	099	8475	26.51	1.27	-0.01	5.21	0.01	26.04	-0.01	-0.1	59.02
A 001	137.00	138.00	099	8476	6.50	1.67	-0.01	1.54	0.01	33.16	-0.01	-0.1	42.76
A 001	138.00	139.00	097	8477	2.97	1.61	-0.01	0.93	0.01	35.63	-0.01	-0.1	41.03
A 001	139.00	140.00	093	8478	4.40	4.10	-0.01	1.23	0.02	26.07	-0.01	-0.1	35.70
A 001	140.00	140.60	056	8479	13.97	3.15	0.01	3.15	0.03	20.49	-0.01	-0.1	40.69
A 001	140.60	142.10	141	8480	6.91	1.26	-0.01	1.78	0.01	11.09	-0.01	-0.1	20.93
A 001	142.10	143.00	087	8481	0.28	0.10	-0.01	0.07	-0.01	5.24	-0.01	-0.1	5.56
A 001	143.48	148.96	037	8482	3.12	0.13	-0.01	0.76	0.03	10.24	-0.01	-0.1	14.16
A MAX	120.40	148.96			26.61	9.35	0.02	5.21	0.03	35.63	-0.01	-0.1	76.74

A MIN				0.04	0.03	-0.01	0.05	-0.01	5.24	-0.01	-0.1	5.23
A CMP	122.68	137.00	1413	11.51	4.12	-0.1	2.71	-0.1	27.40	-0.1	-0.1	45.34
A CMP	122.68	142.10	1900	10.16	3.61	-0.01	2.43	0.02	26.64	-0.1	-0.1	42.65