

SYSTEMS ENGINEERING BY  
INTERNATIONAL GEOSYSTEMS CORP.

PAN OCEAN OIL LTD.

JASDA PB-7N-AG-BA STF DEPOSIT, Y.T.

FORMAT VERSION : 6802

GEOLOGGED BY : BHO +  
DATE (YY/MM/DD): 810926  
PROJECT NUMBER : J-MAIN

F - I N T E R V A L - CORE T- % TYPI- VAL TFX- GRAIN										PGI	STRUCTUR-1		ALTERATION				MINS		ORE-TYPE				MINS		SUMMARY			
L (UNITS = DEC.PLACE) RECV- M H ROCK FLYING MIN TURES CHARACS													H H H H H ANY H H H ANY						ALT ORE									
E L (H=METRIC F=FOOTRIC) FRY 0 1 TR TR MAT TX TX F C % M ARG /RI										T	ID	STK	DIP	A	A	A	A	A	MIN	A	A	A	MIN	-	-	-		
Y G F X Q R - I D - I N I ( . ) 0 X TYPE 1 2 QM1 1 2 F F C A										1		AZM	RT	QZ	FL	CY	CA	BA	XX	PY	CP	GL	YY	A	1	A	2	
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K F ROCR FR RT 1X QM2 1X TX S C O O CHT										T	ID	STK	DIP	MG	MU	CL	SD	QS	HA	PR	MT	SL	HA					
E L NOAL AGE FR- N LC- 3 3 4 0 /										2		AZM	RT	H	H	H	H	H	H	H	H	H	H	H	1	1		
Y G DESIG VIR COL R C											STRUCTUR-2		A	A	A	A	A	A	A	A	A	A	A	A	2	2		

p

MP8 P

MR+ P

LN2

1 SHR 30.25 31.15 30.92 X HHT GA CR GG= F\* MR+ R FU U80 71 <)

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L					X BEH4 GR PY S11 SS SC	NR8	R	L+
/	81.00	82.20	0.40					
L								

R	125.00	151.70	SAND CONTENT INCREASES TOWARDS THE BOTTOM OF THE INTERVAL.
R	125.00	151.70	SPHALERITE APPEARS TO BE A REPLACEMENT FEATURE OF THE CHART,
R	125.00	151.70	129.33 M. IT ALSO SEEM TO BE ASSOCIATED WITH FRACTURE AND

Z	185.28	216.99	31.71	RRHT SF	*C= SS SC	MT7	P	V)	D)
L				3A PY SM1 F*	H* 1	+ C K01		V)	B-
R	185.28	216.99		PITRIN THIS INTERVAL SANDSTONE FRAGMENTS RANGE UP TO 0.4 M					

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/	245.54	248.87	3.33	BRHT SF	SN1 SS SC	NS6	P	>+		D)	
L				3A	*S1 (F	1 C KN+			<.		
R	245.54	248.87		SANDSTONE FRAGMENT AT 247.09 M CONTAINS FLUTE CAST.							
R	245.54	248.87		THE INTERVAL BETWEEN 245.67-246.89 M IS MODERATLY FRACTURED							
R	245.54	248.87		AND CONTAINS QUARTZ - SIDERITE VEINS.							
/	248.87	253.00	4.13	BRHT SF CR	*C1 F* R*	LP5	P	>)		R+	
L				4A GR SN=	SS	+ C LP3					
/	252.50	253.00	0.50	X BRHT CR GR GG5			R				
L											
R	252.50	253.00		THIS INTERVAL IS HIGHLY BROKEN UP AND ON BOTH SIDES IT IS							
R	252.50	253.00		MODERATLY BROKEN UP.							
/	253.00	264.57	11.57	ARGL CR	SN= SS LM		P	BD	50 V=	L)	
L				3A GR SI+							
R	253.00	264.57		THE CORE BETWEEN 262.13-264.57 M IS BROKEN UP. THIS APPEARS							
R	253.00	264.57		TO BE A RESULT OF SHEARING. PYRITE APPEARS TO BE CONCENTRATED							
R	253.00	264.57		IN SAND LAYERS, POSSIBLE REPLACEMENT.							
/	264.57	277.26	12.69	ARGL	SN+ SS		P	2 BD	70 <=	C. L)	
L				3A SF SI+					<.		
R	264.57	277.26		THE CORE HAS BEEN BROKEN UP AND ARRANGED IN THE WRONG ORDER.							
R	264.57	277.26		CONTACTS BETWEEN REPEATS INTERVALS ARE NOT CLEAR. PYRITE IS							
R	264.57	277.26		LAMINATED AND APPEARS TO BE A REPLACEMENT OF THE SAND UNITS.							
/	265.57	266.12	0.55	X BRPM SF	SN1 SS	0 2 1 P LP5	R				
L				3A CR SI2		3 0 212				R)	
R	265.57	266.12		CONTACT NOT SEEN BUT APPEARS TO BE A DEPOSITIONAL FEATURE							
R	265.57	266.12		RATHER THAN A FRAGMENT.							
/	273.79	274.49	0.70	X BRHT SF	*C= R* R*	NP6	R			R)	
L				4A	SN1 SS	KM2					
/	277.26	281.33	4.07	BRPM SF	SN4 SS R* 1 5 3	P LP4	P	1 BD	U70 <=	C. D)	
L					SI1 DB FU	0 KM1			<.		
R	277.26	281.33		THE AMOUNT OF SAND INCREASES TOWARDS THE TOP AND BEDDING IS							
R	277.26	281.33		WELL DEFINED. AT THE BASE THE FRAGMENTS ARE COARSER AND BEDDING							
R	277.26	281.33		IS UNDEFINED. CHERT CONTENT DECREASES TOWARDS THE TOP.							
R	277.26	281.33		AGAIN CONTACTS ARE NOT WELL DEFINED.							
/	281.33	287.12	5.79	ARGL	CR SN+ SS SC		P	1 BD	65	C. D)	
L				3A SF SI+							
/	281.33	287.12	5.79	X ARGL CR GR GG=	SS SC		R	1 BD	65	C. D)	
L				3A SF SI+							
R	281.33	287.12		CORE IS BROKEN UP DUE TO SHEARS.							
R	281.33	287.12		THE WHOLE INTERVAL IS SHEARED. SOME PARTS WORSE THAN OTHERS.							
R	281.33	287.12		THERE IS ALSO A SMALL SANDSTONE UNIT AT 284.38 M.							
/	287.12	295.66	8.54	BRPM SF	SN5 SS DB 1 4 4	P KP3	P			C) R)	
L				4A	SI1	5 0 KM=					

R	309.08	309.53	SPHALERITE IS FINE GRAIN AND VARIES IN COLOUR FROM A YELLOW TO
R	309.08	309.53	PINKY-RED. IN PLACES THE BEDDING IS DISLOCATED. NEAR THE END
R	309.08	309.53	OF THE INTERVAL, THE ROCK IS CRUSHED, THEREFORE THE LENGTH OF
R	309.03	309.53	THE INTERVAL IS ESTIMATED. HARITE IS WEATHERED THEREFORE LOW
R	309.08	309.53	S.G.

G E O L O G

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Z	LSX	309.53	310.47	0.94	LMSX SF PY SI1 LM LC	P 1 BD	80	L4	L3	L+ L1	
L					BA BA SS						
R		309.53	310.47		THE YY MINERAL IS WITHERITE WHICH IS YELLISH-RED IN COLOUR.						
R		309.53	310.47		THERE IS APPROX. 5% LAMINATED, CHERT AND 10% SILIFIED SILT. THE						
R		309.53	310.47		WITHERITE OCCURS IN BANDS AND REPRESENTS 1% OF THE UNIT. PYRITE						
R		309.53	310.47		MARCASITE IS ASSOCIATED WITH FRACTURE FILLING.						
Z	LSX	310.47	310.85	0.38	LMSX SF PY	SS SC	P 0 LM	70	L4	L2	L+ WI L= L-
L					BA BA TA LM						
R		310.47	310.85		THIS INTERVAL CONTAINS APPROX 30% ARSI AND HAS INTERSTITIAL BARITE						
R		310.47	310.85		RANGING UP TO 40% OF THE TOTAL COMPOSITION. THE SPHALERITE AND						
R		310.47	310.85		GALENA IS FINE GRAINED AND IS THINLY LAMINATED. THERE IS ALSO A						
R		310.47	310.85		MINOR SHEAR ZONE WITHIN THIS UNIT.						
Z	LSX	310.85	311.74	0.89	LMSX BA PY	LM LC	P		L5	L4	L+ L=
L					BA						
R		310.85	311.74		THE LENGTH OF THIS INTERVAL IS ESTIMATED DUE TO LOST AND						
R		310.85	311.74		GRINDING OF CORE. PERCENTAGES DIFFICULT TO ESTIMATE. THE						
R		310.85	311.74		BARITE IS HIGHLY WEATHERED AND HAS A LOW S.G.I+ ALSO HAS A						
R		310.85	311.74		SUGARY TEXTURE.						
Z	LSX	311.74	312.08	0.34	LMSX SF PY	LM LC	P 2 BD	70	L3	L3	L) L+
L					BA BA SS SC						
R		311.74	312.08		THERE IS APPROX. 35% ARSI WITHIN THIS UNIT AND CONTAINS 40%						
R		311.74	312.08		BARITE. BARITE OCCURS AS MICROVEINS. MINOR BRECCIATION WITHIN						
R		311.74	312.08		THE ARSI.						
Z	LSX	312.08	314.15	2.07	LMSX SF BA	LM LC	P 2 BD	70	L4	L3	L+ L1
L					TA PX SS SC						
R		312.08	314.15		THERE IS APPROX. 10% ARSI, WHICH IS LAMINATED AND BEDDED.						
R		312.08	314.15		GALENA IS FINE GRAINED AND OCCURS IN THIN LAMINATIONS.						
R		312.08	314.15		SPHALERITE VARIES FROM A PINK TO AN ORANGE - RED.						
Z	LSX	314.15	315.53	1.38	LMSX SF PY	LM LS	P 1 LM	80	L2	L4	L) L+
L					BA SS SC						
R		314.15	315.53		THIS UNIT CONTAINS 35% SILIFIED ARSI. THERE IS A SHEAR ZONE						
R		314.15	315.53		WITHIN THE INTERVAL. THESE SHEARING SURFACES ARE GRAPHIC. NEAR						
R		314.15	315.53		THE END OF THE INTERVAL, PYRITE INCREASES TO 60% OF THE ROCK.						
R		314.15	315.53		THE ARSI IS LAMINATED.						
Z		315.53	320.77	5.24	ARSI SF PY SI2 LM CC 1 2 = M	P 1 LM	70	C=	L+	< --	
L					BA BA SN= SS 7						
R		315.53	320.77		THERE HAS BEEN MOVEMENT ALONG BEDDING PLANES. ALONG THESE						
R		315.53	320.77		SHEARED SURFACES, BARITE AND MINOR GRAPHITE HAS FORMED.						
R		315.53	320.77		SPHALERITE AND GALENA OCCURS WITH BARITE IN MICROVEINS. THE						
R		315.53	320.77		LAST 3 METERS IN THIS INTERVAL IS HIGHLY FRAGMENTED.						
Z	LSX	320.77	321.81	1.04	LMSX PY BA	LM LC	P 3 BD	80 <-	L1	L7	L+ L1
L					PX						
R		320.77	321.81		THIS UNIT IS COMPOSED OF MAINLY BEDDED PYRITE. THERE IS ALSO						



G E O L O G

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R 320.77 321.61      APPROX. 2% ARG1 WHICH INCREASES TOWARDS THE BASE.

K LM1	321.81	321.81	0.00
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7	521.81	330.71	8.00	SILI	SF	PY	S91	LM	SS	0	2	1	K		P	1	LM	80	<)		<)	L)	<.
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L	3A	CA	SC	7	C.	<C
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R	321.81	330.71	THE WHOLE INTERVAL IS HIGHLY SHEARED. BARITE OCCURS AS MICRO
R	321.81	330.71	VEIN AND ON SHEAR SURFACES. SPHALERITE OCCURS WITH THE QUARTZ
R	321.81	330.71	VEINS.

/ FLT	327.54	327.86	0.32	X	SIL1	GR	GR	GG9		R	D)	D+
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/	330.71	332.23	1.52	RRPP	SF	PY	*C2	R*	F*	1	4	3	P	MP4	P	>)	C-	D+
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L	R	LA	SN3	2	0 KM2
	330.71	332.23	THIS UNIT IS MODERATELY FRAGMENTED DUE TO FAULTING AND SHEARING		
	330.71	332.23	WITHIN THE ZONE. T.D. AT 332.23M.		

R 330.71 332.23 WITHIN THE ZONE. T.D. AT 332.23M.