Enclosure 6

DEPT. NAT. RES & ENV
PE904563

61187

CRUSADER RESOURCES NL

Digital out 7/8/17

LINE GCR-87A-13

SEG REVERSE POLARITY

MMG

AREA: PEP - 120 VICTORIA

GCR-87A MONKEY CREEK SEISMIC SURVEY
LINE GCR-87A-13 VPS. 1000 TO 1276

MIGRATION STACK

GEOSOURCE

RECORDING PARAMETERS		RECORDING GEOMETRY	
CODED BY	MARPAC INT. INC. CREW 489	SOURCE	VIBROSEIS
SHOT	4TH TO 5TH APRIL 1987	NO. OF VIBRATORS	3 IN LINE
UMENT	SUS 1000	SWEEP	8 SECOND LINEAR 10-110 HZ.
HANNELS	MARK L10/A 10 HZ.	VIB PATTERN	PAD SPACING 12 M.
FORMATS	UNCORRELATED:		2 & 3 STANDING SWEEPS/V.P.
	ZERO PHASE CORRELATED: SEGD 6250 BPI	PATCH	12 PHONES - 1.8 M. SPACING IN LINE
D LENGTH	11 SECONDS		PATCH BETWEEN STATIONS
LE RATE	2 MILLISECONDS	SPREAD	SYMMETRICAL SPLIT
ERS LO-CUT	10 HZ. SLOPE 24 DB/OCTAVE		1----60--+--61----120
HI-CUT	160 HZ. SLOPE 62 DB/OCTAVE	OFFSETS	NEAR TRACES 50 M.
NOTCH	OUT		FAR TRACES 1230 M.
SPACING	20 M.	GROUP SPACING	20 M.
		COVERAGE	6000%

PROCESSING SEQUENCE

- DATUM : 0 METRES A.S.L.-

FORMAT	SEGD TO SEGY.
IN-RECOVERY	TO 3.0 SECONDS USING THE GRIN FUNCTION:
	GRIN (DB) = 2 * (T) - 3D LOG (T) , WHERE T IS THE TWO WAY TRAVEL TIME.
PHASE	FOR 10 HZ. GEOPHONES - 70% DAMPING.
IMUM PHASE	WAVELET CONVERSION.
THER	SHOT RECORDS SORTED INTO COMMON REFLECTION POINT GATHERS.
	DATUM STATICS CALCULATED USING FIRST BREAK METHOD TIED TO UPHOLES.
	COMPUTED DISTANCES AND DATUM STATICS PLACED IN HEADERS.
CONVOLUTION	SURFACE CONSISTENT ANALYSIS USING A 120 MS. OPERATOR WITH A UNIT GAP.
	LOG-SPECTRAL SUMMATION OF AUTOCORRELOGRAMS DERIVED FROM ONE ANALYSIS WINDOW:
	NEAR OFFSET DESIGN WINDOW - 0.22 TO 1.80 MS.
	FAR OFFSET DESIGN WINDOW - 0.90 TO 1.56 MS.
LANCE	WITH A RAMPED SCALAR FUNCTION BASED ON THE MEAN LEVEL WITHIN 1500 MS. WINDOWS.
VIATION STATIC	FROM MEAN FOR EACH CDP APPLIED WITH A (SIN(X)/X REMOVALITION FUNCTION.
O	CORRECTIONS DERIVED FROM CONSTANT VELOCITY STACKS PERFORMED EVERY 2 KILOMETRES.
	VELOCITIES REFERENCED TO SURFACE.
AN STATIC	APPLIED USING A (SIN(X)/X REMOVALITION FUNCTION.
TE	DERIVED FROM COMMON OFFSET STACKS PRODUCED AT CVS LOCATIONS.
SIDUAL STATIC	CORRECTIONS USING A CDP REFERENCE TRACE MODEL.
	REFERENCE TRACE : 7 TRACE WEIGHTING.
	MAXIMUM SHIFT ALLOWED : +/-6 MS.
ACK	OF FINAL CORRECTED GATHERS TO 6000%.
CONVOLUTION	USING A PREDICTIVE DECONVOLUTION OPERATOR WITH INCLUSIVE LAG.
	SINGLE DESIGN WINDOW -
	OPERATOR/LAG TIME
	WINDOW = 100/13 100 - 1500 MS.
LTER	RANDOM NOISE ATTENUATION BY COMPLEX WIENER FILTERING IN THE FREQUENCY-OFFSET DOMAIN.
GRATION	IN THE F-K DOMAIN.
LTER	USING A TIME VARIANT BANDPASS FILTER. (SEE BOX BELOW).

TIME (MS)	FILTER (HZ)
0	12/24-90/130
1500	12/24-90/130
2000	12/24-65/90

LANCE	WITH A RAMPED SCALAR FUNCTION BASED ON THE MEAN LEVEL WITHIN TIME VARIANT WINDOWS.
SPLAY	PRESENTATION ON THE PHOTOBOT SYSTEM.
	FILMED AT POSITIVE POLARITY WITH 5 DB GRIN.

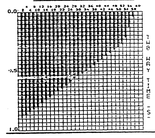
SCALE = 1:7874

0 1 KILOMETRES

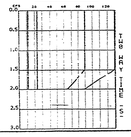
DATA PROCESSED BY Petty-Ray Geophysical

CHECKED	NAME
	DATE
APPROVED	NAME
	DATE

TRACE SUPPRESSION



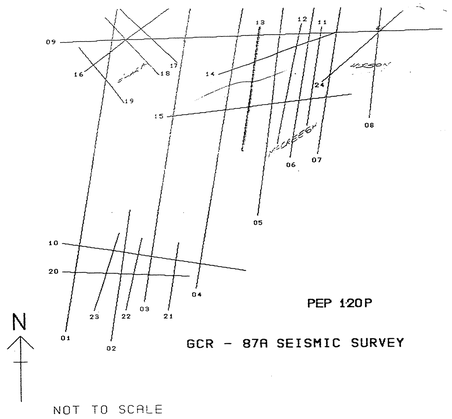
T.V. FILTER



****** FILMING PARAMETERS ******

FILM REEL NUMBER	-
GRIN VALUE	- 100
POLARITY	- BLACK +VE
HORIZONTAL SCALE	- 20.000 TR/IN
VERTICAL SCALE	- 20.000 CM/SEC
FILMING DIRECTION	- L/R
DATE FILMED	- 19/08/87
INPUT REEL NUMBER	- 90859

LINE LOCATION DIAGRAM



PEP 120P

GCR - 87A SEISMIC SURVEY

NOT TO SCALE

LINE GCR-87A-13 VPS. 1000 TO 1276

CRUSADER RESOURCES N.L.

DIRECTION OF SHOOTING

NORTH

VP 1020			
TIME	RMS	INT	DEPTH
0	1600	1700	170
200	1700	2146	267
290	1850	2145	374
395	1930	2413	513
505	2050	2812	660
610	2200	2498	922
820	2280	2606	988
870	2300	2572	1226
1095	2400	2773	1406
1375	2500	3061	1696
3000	3600	4317	5203

VP 1071			
TIME	RMS	INT	DEPTH
0	1650	1700	213
250	1700	2119	287
375	1850	2228	459
565	2100	2760	584
625	2200	3304	650
750	2330	2808	853
865	2350	2476	996
990	2380	2578	1157
1060	2420	2928	1259
1170	2500	3169	1438
3000	3600	4152	5233

VP 1120			
TIME	RMS	INT	DEPTH
0	1650	1900	295
310	1900	2158	370
380	1950	2808	516
505	2050	2824	657
570	2100	2672	726
625	2250	2856	916
805	2310	2665	1044
900	2350	2900	1263
1075	2375	3129	1552
1260	2500	4221	5225
3000	3600		

VP 1171			
TIME	RMS	INT	DEPTH
0	1650	1950	361
370	1950	2539	467
465	2010	2824	643
605	2140	2954	828
730	2300	2765	938
810	2350	2453	1104
940	2360	2695	1246
1050	2430	3111	1401
1150	2470	4150	5240
3000	3600		

VP 1220			
TIME	RMS	INT	DEPTH
0	1650	1750	175
200	1750	2157	288
305	1900	2169	359
370	1975	2402	504
520	2100	2412	661
620	2150	2384	851
780	2200	2445	1084
970	2250	2604	1231
1075	2310	4149	5224
3000	3600		

VP 1260			
TIME	RMS	INT	DEPTH
0	1600	1800	261
290	1800	2225	350
370	1900	2196	481
490	1975	2475	772
725	2150	2587	882
810	2200	2638	1057
905	2250	2699	1185
1030	2325	2929	1379
1165	2400	4187	5221
3000	3600		

PROPOSED LOCATION MC CREESH #1

RECEIVER STATIC: -------
ELEVATION: _____

LINE GCR-87A-15 VP 1206.7
UPHOLE #10B

LINE GCR-87A-14 VP 1203.3
UPHOLE #9B

LINE GCR-87A-09 VP 1481.2
UPHOLE #8B

ELEVATIONS (M)

ONE WAY STATICS (MS)

FOLD

RECV SHOT

RESIDUAL STATICS PROFILE

D.P. V.P. 1002 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1275 V.P.

Top Lower Cretaceous Marker

Lower Upper - Lower Cretaceous Marker

Middle Upper - Lower Cretaceous Marker

Lower Upper - Lower Cretaceous Marker

Near Top Golden Beach Group Seismic Marker