ENCLOSURE 2 From W.C.R. AVON-1 10 APR 1991

# TCPL RESOURCES LTD

# LINE GT89-102

PETROLEUM DIVISION

DEPT. NAT. RES & ENV
PE600862

PEP-107 SALE, VICTORIA

DATUM 0.0 METRES (MSL)
FINAL STACK

PROCESSED ON VELSEIS SYSTEM, BRISBANE

VELSEIS

## RECORDING PARAMETERS

| | |
|---|---|
| RECORDED BY | VELSEIS PTY LTD |
| DATE SHOT | 19TH APRIL - 26TH APRIL, 1989 |
| SOURCE | MINI-SOSIE RAMMERS |
| INSTRUMENTS | INPUT OUTPUT DHR 1632 |
| RECEIVERS | GEOSPACE GS40D, 30 & 40HZ NATURAL FREQ. |
| TAPE FORMAT | 9 TRACK, 800BPI, SEG-Y |
| SAMPLE RATE | 2 MILLISECONDS |
| FILTERS LO-CUT | OUT |
| HI-CUT | OUT |
| NOTCH | IN |

## RECORDING GEOMETRY

| | |
|---|---|
| SOURCE ARRAY | RAMMER OPERATED OVER 24.0 METRES |
| | X-108.0M-I----552.0M----24 |
| SHOTS STACKED | 1300 RAMS PER SEGMENT |
| RECEIVER ARRAY | 24.0 METRES - 12 PHONES CENTRED ON STN |
| SPREAD | OFF END |
| | X...I.....24 |
| OFFSETS | NEAR TRACE 108.0 METRES |
| | FAR TRACE 660.0 METRES |
| GROUP SPACING | 24.0 METRES - 24 GROUPS PER RECORD |
| SHOT SPACING | 24.0 METRES |
| COVERAGE | 1200% - 2400% |

## PROCESSING SEQUENCE

| | |
|---|---|
| REFORMAT | INPUT TO VELSEIS FORMAT |
| COORDINATES | SET UP SHOT AND RECEIVER COORDINATES |
| GEOMETRY | SET UP ELEVATIONS AND SHOT HOLE DEPTHS |
| SORT | COMMON DEPTH POINT AND COMMON RECEIVER POINT SORT |
| EDIT | REMOVE ANY BAD/DEAD TRACES FROM SHOT RECORDS |
| STATICS | CALCULATE REFRACTION STATICS TO DATUM OF -25 METRES |
| | USING THREE LAYER REFRACTION MODEL |
| STATICS | CALCULATE A BULK STATIC AS AVERAGE OF ALL SHOT AND |
| | RECEIVER STATICS AND SUBTRACT FROM EACH TRACE |
| DCBIAS | REMOVE DC BIAS FROM ALL RECORDS |
| EQUALISATION | AMPLITUDE EQUALISATION - WINDOW 1200 MSEC |
| DIVERGENCE | APPLY GAIN FUNCTION T**1.0 |
| NOTCH FILTER | APPLY 50HZ NOTCH FILTER |
| FILTER | BANDPASS FILTER 15/25 HZ TO 140/160 HZ |
| DECONVOLUTION | PREDICTIVE SHOT GATHER DECONVOLUTION |
| | OPERATOR 150 MSEC, GAP 6 MSEC |
| VELOCITY | VELOCITY ANALYSIS AND APPLICATION |
| STATICS | RESIDUAL STATICS - MAX SHIFT +/-10 MSEC |
| | WINDOW 0.7 TO 1.0 SECONDS, COHERENCY MATCH > 0.5 |
| | AND APPLICATION BACK TO ORIGINAL DATA |
| VELOCITY | REAPPLY VELOCITY FUNCTIONS |
| STATICS | RESIDUAL STATICS - MAX SHIFT +/-10 MSEC |
| | WINDOW 0.7 TO 1.0 SECONDS, COHERENCY MATCH > 0.5 |
| STATICS | REPLACE BULK STATIC TO CORRECT SECTION TO DATUM |
| STACK | COMMON DEPTH POINT MEAN STACK |
| EQUALISATION | POST STACK AMPLITUDE EQUALISATION - WINDOW 600 MSEC |
| FILTER | POST STACK BANDPASS FILTER 10/20 HZ TO 80/100 HZ |
| DATUM CORRECTION | FROM REFRACTION DATUM TO SEISMIC DATUM : M.S.L. |

SCALE = 1:6000

0 KILOMETRES 1

DATA PROCESSED BY VELSEIS

| | |
|---|---|
| CHECKED | NAME |
| | DATE |
| APPROVED | NAME |
| | DATE |

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

| | |
|---|---|
| FILM REEL NUMBER | - |
| GRIN VALUE | - 100 |
| POLARITY | - BLACK +VE |
| HORIZONTAL SCALE | - 5.000 TR/CM |
| VERTICAL SCALE | - 7.500 IN/SEC |
| FILMING DIRECTION | - L/R |
| DATE FILMED | - 07/09/89 |
| INPUT REEL NUMBER | - 93842 |

TCPL RESOURCES LTD

LINE GT89-102
DIRECTION OF SHOOTING

SIN 121
TIME RMS INT
0 1500 1500
100 1500 1567
230 1710 2129
290 1800 2350
340 1950 2572
580 2375 2272
630 2150 2036
725 2175 2142
775 2250 2529
950 2300 3514
1200 2600

SIN 146
TIME RMS INT
0 1500 1500
100 1500 1539
290 1800 2328
340 1950 2301
435 2025 2441
580 2375 2642
750 2250 2950
800 2300 3114
1200 2600

SIN 171
TIME RMS INT
0 1500 1500
100 1500 1890
240 1750 2154
420 1929 2150
680 2025 2221
900 2100 2387
1200 2400 3192

SIN 182
TIME RMS INT
0 1200 1200
100 1200 1206
250 1750 2044
400 1825 2242
600 1900 2358
900 2150 2781
1200 2400 3029

SIN 199
TIME RMS INT
0 1500 1500
100 1500 1592
250 1675 1782
330 1775 2744
360 1875 1949
500 2000 2666
700 2100 2784
750 2150 2756
925 2250 4675
960 2550 3231
1200 2700

SIN 224
TIME RMS INT
0 1500 1500
100 1500 1562
250 1600 1643
375 1800 2173
500 1900 2070
700 2100 2957
975 2400 4686
1200 2600 2894

SIN 237
TIME RMS INT
0 1400 1400
100 1400 1822
265 1675 2088
315 1750 2438
360 1850 2152
415 1950 2029
720 2050 2558
960 2100 2243
1200 2600 4020

SIN 257
TIME RMS INT
0 1400 1400
100 1400 1400
250 1650 1797
350 1850 2241
400 1875 2300
540 2000 2364
740 2100 2319
980 2150 3526
1200 2600

SIN 277
TIME RMS INT
0 1400 1400
100 1400 1400
360 1775 1974
395 1825 2315
500 2000 2393
540 2025 2285
740 2100 2482
975 2400 4891
1200 2600

SIN 297
TIME RMS INT
0 1400 1400
100 1400 1400
288 1750 1917
325 1800 2064
378 1850 2146
530 1975 2247
955 2050 3102
1200 2400

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N

LINE TR88-01 PEG 1556

LINE GT89-104 PEG 190

DASHED LINE --- FIELD STATIC
SOLID LINE ____ ELEVATION

ONE WAY STATICS (MS)

FIELD STATICS (M)

AVON #1

RESIDUAL STATICS PROFILE

RMSV

SHOT PEG

120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300

LAKES ENTRANCE FORMATION

TOP SHORELINE-SHOREFACE SYSTEM TOP LWR.COASTAL PLAIN (NEAR TOP TARALGON Fm.)

NEAR BASE TARALGON Fm.