ENCLOSURE 13

LINE 20
S.P. 2050 TO 2550

BUREAU OF MINERAL RESOURCES
BASS BASIN
SYDNEY PROCESSING CENTRE

56 DEGREES → DIRECTION SHOT

MIGRATION TVF/TVS

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2093 M.V. LADY VELMA
DATE SHOT	- APRIL - 1982
RECORDING INSTRUMENTS	- SPS 9
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE - 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE - 8 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A NEGATIVE NUMBER ON TAPE AND A DOWNWARD DEFLECTION ON THE FIELD MONITOR RECORD
DIGITAL TAPE FORMAT	- SEG B 1600 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE.
ENERGY SOURCE	- 48.5 LITRE AIRGUN ARRAY OPERATING AT 13.8 MPA
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 6.4 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 63.0 METRES
SHOTPOINT INTERVAL	- 50.0 METRES, 1 POP PER SHOTPOINT.
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP. POSITION
STREAMER LENGTH	- 3200 METRES. 96 GROUPS,33.3 METRE GROUP INTERVAL
STREAMER DEPTH	- 11.5 METRES AVERAGE
HYDROPHONES	- 96 PER GROUP
COVERAGE	- 48 FOLD. 96 TRACE.
PRIMARY NAVIGATION SYSTEM	- MAXIRAN.
BACKUP NAVIGATION SYSTEM	- GEOMAP

SPREAD DIAGRAM



DIGITAL PROCESSING

POLARITY CONVENTION	- THE POLARITY OF THE FIELD RECORDING WAS MAINTAINED THROUGHOUT THE PROCESSING AND DISPLAY
PROCESSING RECORD LENGTH	- 6.0 SECONDS
IRREGULAR SHOT MOVE-UP	- ACCOUNTED FOR IN PROCESSING
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC.
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- SHOT AND STREAMER STATIC - 11 MILLISECONDS AIRGUN DELAY - 51.2 MILLISECONDS
AMPLITUDE RECOVERY(TAR)	- 6.0 DB PER SECOND FROM 0.70 TO 6.0 SECONDS
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 100 MSECS OFFSET(METRES) 329 . 729 . 2327 . 3529 START TIME(MSECS) 0 . 700 . 1950 . 2900
VELOCITY FILTERING	- USING DIPS OF 1/MS + MSEC/TR IN THE SPC DOMAIN
DESIGNATURE - VERSION 4	- STANDARD MARINE SAKVELET
VELOCITY ANALYSIS	- USING 5 DEPTH POINT VELICAN ANALYSES
NORMAL MOVEOUT CORRECTION	- LOCATED ACCORDING TO CLIENT SPECIFICATIONS
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 100 MSECS. OFFDIETSE(METRES) 329 . 729 . 1727 . 3529 START TIME(MSECS) 0 . 800 . 1650 . 3000
COMMON DEPTH POINT STACK	- VARIABLE FOLD STACK OUT TO IRREGULAR MOVE-UP
EQUALISATION	- 6000 MSEC DATE REGULAR SCALARS SURFACE DATUM
MIGRATION -V7	- KIRCHHOFF WAVE EQUATION MIGRATION IN FX DOMAIN WITH DIP LIMIT 90 DEGREES USING ANNOTATED
TIME VARIANT FILTERING	- VELOCITIES WITH DIP CORRECTION AND SMOOTHING FREQ (HZ) TIME (MSEC) FREQ (HZ) TIME (MSEC) 10 - 80 1000 8 - 50 2700 8 - 60 1700 8 - 40 4900 8 - 45 2300 8 - 30 6000
TIME VARIANT SCALING	- USING 1X200. 5X400. NX1000 MSEC SCALARS STARTING AT UP - 100 MSEC (N=NUMBER OF GATES TO TRACE)

DISPLAY

HORIZONTAL SCALE	- 24.0 TR/IN 60.00641 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- VITVR - 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.751130 CM
LAST FRAME	- IN

DISPLAY GAIN

CDP INPUT	FULL
FULL	1X
1/2	1/2X

07 JUN 1985
22:58:36

PARTY 6860

GEOPHYSICAL SERVICE INC
(A DIVISION OF TEXAS INSTRUMENTS LTD)

PROCESSING CHECKED BY -

UB82-43 S.P.12 — UB82-29 S.P.42

X LINES 70 69 68 69 70 71 72 71 71 70 70 70 70 71

SP 2050 2080 2120 2160 2200 2240 2280 WATER LILY LEAD 2320 2360 2400 2440 2480 2520 2550

TOP PALEOCENE — PALEOCENE — TOP UPP. CRETACEOUS — UPP. CRET. SHALE — MID UPP. CRET. UNC. — TOP LOW. CRETACEOUS — BASEMENT

TIME IN SECONDS

CDP LINE 5001 5051 5101 5151 5201 5251 5301 5351 5401 5451 5501 5551 5601 5651 5701 5751 5801 5851 5901 5951 6001 6051 6101 6151 6201

LINE L20

LINE 20
S.P. 2050 TO 2550
MIGRATION TVF/TVS
BUREAU OF MINERAL RESOURCES
SYDNEY PROCESSING CENTRE

LINE 20
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SPREAD DIAGRAM

3167 M
96 GEOPHONE GROUPS

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PRE DECONVOLUTION MUTE - SPHERICAL DIVERGENCE CORRECTIONS APPLIED
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DISPLAY UNIT - 0.751130 CM
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PROCESSING CHECKED BY -

02.0225

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