ENCLOSURE 2

PR87/052

LINE P81-GE11
VP. 753-193

MAGELLAN PETROLEUM AUSTRALIA LTD
TARAWARRA SURVEY
OP 178, AMADEUS BASIN, N.T.

NNE ——— DIRECTION SHOT

PRE-STK MIGRATION/DMO STK

FIELD DATA

	DATA COLLECTED BY	G.S.I. PARTY 1858
	INSTRUMENTS	DFS V
	FILTERS	8 - 90 HZ (18/72 DB/OCT)
	RECORDING POLARITY	S.E.G. NORMAL (UPWARD GEOPHONE CASE MOTION RECORDED AS NEG. NUMBERS)
	DIGITAL TAPE FORMAT	1600 BPI SEG B P/E 9TRK
	RECORD LENGTH	6 SEC SWEEP, 4 SEC LISTEN
	(EXT)	24 SEC SWEEP, 4 SEC LISTEN
	SAMPLE RATE	4 MSEC
	SPREAD CONFIGURATION	1325 - 175 - 175 - 1325
	NUMBER OF TRACES	48
	DATE RECORDED	JUNE 1991 AND MAY 1992
ENERGY SOURCE	SOURCE	VIBROSEIS 3 X 18-T
	SOURCE ARRAY	12M PAD TO PAD, 32 M ARRAY
	SWEEP	(EXT) 16A M ARRAY 12-60 AND 15-50 HZ, LINEAR 0.7 SEC. COSINE TAPER
	VP. INTERVAL	100 METRES
	VP. LOCATION	BETWEEN GROUPS
RECEIVER DATA	GEOPHONE ARRAY	24 ELEMENTS IN LINE
	ELEMENT SPACING	2 METRES. (EXT 4 METRES)
	SPREAD TYPE	GAP SPLIT
	STATION INTERVAL	50 METRES
	COVERAGE	12 FOLD

DIGITAL PROCESSING

REFRACTION STATICS	-	HAND INTERPRETED WITH TWO REFRACTORS REPLACEMENT VELOCITY : 3800 M/SEC DATUM : 650 M ASL
FIELD TAPE TRANSLATION	-	TO 'TIPEX' FORMAT
CONVERSION TO MINIMUM PHASE	-	DEBUBBLE V1 (DIFFERENT OPERATOR FOR EACH VINTAGE)
TRUE AMPLITUDE RECOVERY	-	ALPHA = + 0 DB/SEC. T2 = + 0 SEC
PRE-DECONVOLUTION MUTE		
VELOCITY FILTERING	-	SHOT DOMAIN F-K FILTERING CUTS: -20,-15 MS/TR. FULL COSINE RAMPS
DESIGNATURE	-	F-X MULTICHANNEL DECONVOLUTION SHOT DOMAIN
DESIGNATURE	-	F-X MULTICHANNEL DECONVOLUTION RECEIVER DOMAIN
BRUTE STACK	-	MODE = DIVERSITY POWER
VELOCITY ANALYSIS	-	SURFACE REFERENCED VELSCANS AT 2 KM
RESIDUAL STATIC ANALYSIS	-	HYPERPIC (VZ)/STATCOMP (VZ) TOTAL DIFFERENTIAL STATICS (SURFACE CONSISTENT)
VELOCITY ANALYSIS	-	SURFACE REFERENCED VELSCANS AT 1 KM
NORMAL MOVEOUT CORRECTION	-	AS ANNOTATED ON FINAL STACK HEADER
APPLICATION OF DATUM AND RESIDUAL STATICS	-	RELATIVE AND RESIDUAL STATICS PRE-NMO MEAN STATICS POST-NMO
PRE STACK MUTE	-	0 MS @ 275 M - 250 MS @ 375 M - 450 MS @ 675 M - 725 MS @ 1325 M
CDP CONSISTENT TRIM STATICS	-	
COMMON OFFSET GATHERING	-	12 X 100 METRE BINS
TRACE EQUALISATION	-	MODE = OGCS. GATE LENGTH = 500 MSEC
TRACE INTERPOLATION	-	STOINTRP V2. TIME AND SPACE VARIANT DIP AND CURVATURE FIELDS
EVENT ENHANCEMENT	-	ENHANCE V2. ADDBACK = 50 PERCENT
PRE-STACK MIGRATION	-	MSTAKTP2. F-K MIGRATION USING VELOCITIES CONDITIONED SPACIALLY V2
CDP GATHER	-	STOATD V1. 12 FOLD GATHERS PRODUCED
NORMAL MOVEIN	-	VELOCITIES AS PER NORMAL MOVEOUT
ZERO DIP VELOCITY ANALYSIS	-	VELSCANS AND DMOSCANS AT 1.25 KM INT.
DIP MOVEOUT CORRECTION	-	COMPUTATION OF 10 VELOCITY FIELDS DIP RANGE -0.50 TO +0.50 SECT/SECT ZERO DIP VELOCITIES ANNOTATED
DIP MOVEOUT STACK	-	DMOSDIPF V1. OVERLAPPING DIP BINS
BAND PASS FILTER	-	12 - 50 HZ
TIME VARIANT SCALING	-	MODE = FLATTVS. GATE LENGTH = 500 MSEC

DISPLAY

HORIZONTAL SCALE	-	10 000 TR/CM 40.000 TR/KM
VERTICAL SCALE	-	10.00 CM/SEC
POLARITY	-	NORMAL
TRACE TYPE, BIAS	-	VIVAR, 0 PERCENT
DATUM	-	650 M ASL
DISPLAY UNIT	-	0.692597 CM
NOTE	-	NEGATIVE NUMBERS ARE PLOTTED AS TROUGHS

DISPLAY GAIN

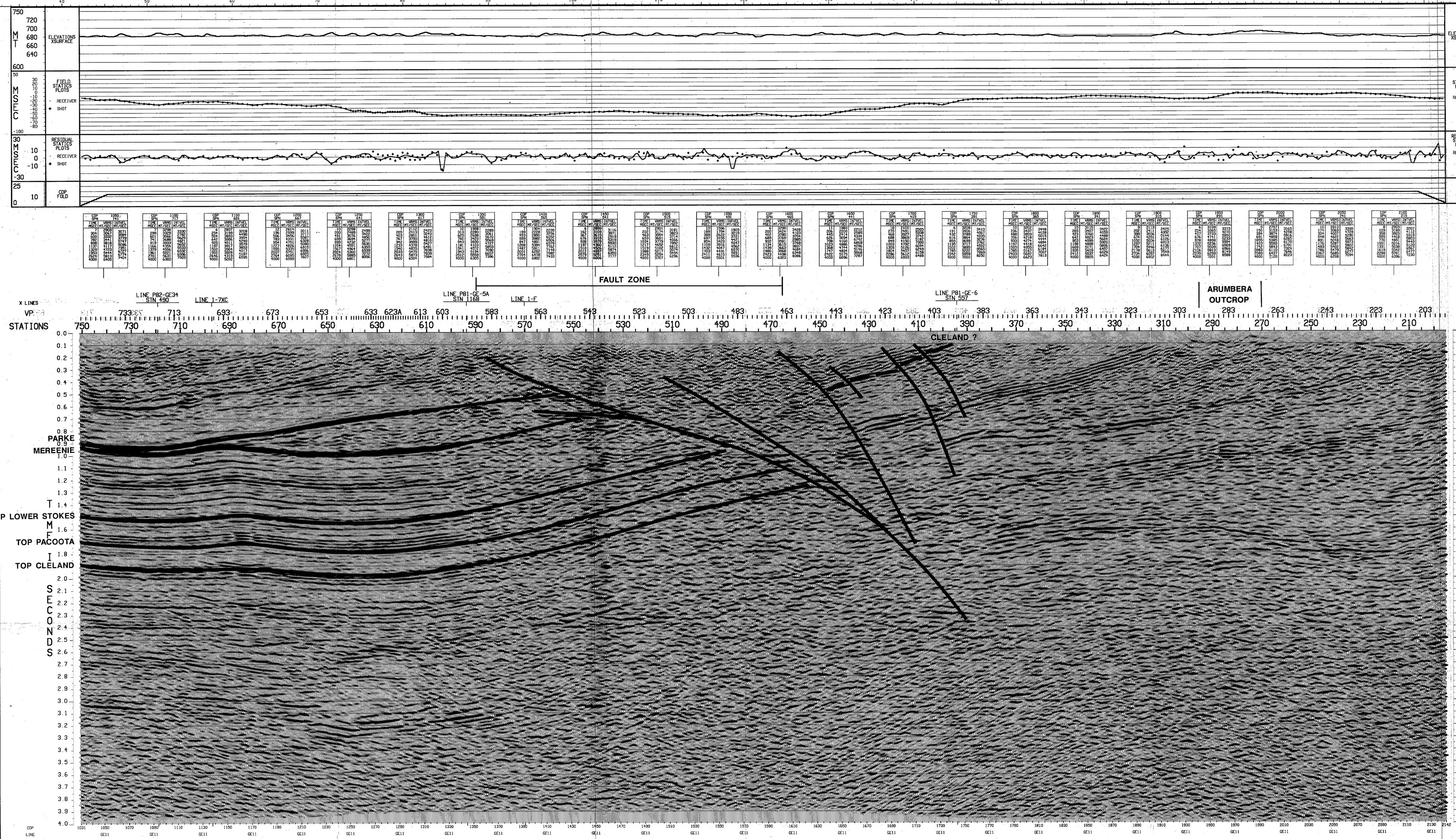
	CDP	ALL
MAX	16	16
MIN	-16	0

11 SEP 1987
22:12:47

PARTY 4605
SYDNEY, NSW
SEISMIC DATA PROCESSING DPT

GEOPHYSICAL SERVICE INC.
(A DIVISION OF TEXAS INSTRUMENTS LTD)

PROCESSING CHECKED BY - R.C. Whitby 14/9/87



PRE-STK MIGRATION/DMO STK

LINE P81-GE11
VP 753-193

MAGELLAN PETROLEUM AUSTRALIA LTD
TARAWARRA SURVEY
OP 178, AMADEUS BASIN, N.T.