314001

Seismic Interpretation of Yolla and Tilana Areas T/14P Bass Basin, Australia

January, 1988

Amoco Production Company

314002

LIST OF ENCLOSURES

Text : Seismic Reinterpretation of Yolla and Tilana Areas, T/14P Bass Basin, Australia.

1. Yolla Time Structure Map, Top Eastern View Coal Measures Horizon
2. Yolla Time Structure Map, Lower M. Diversus Horizon
3. Yolla Time Structure Map, Lower L. Balmei Horizon
4. Seismic Line TQH 201
5. Seismic Line TQH 202A
6. Seismic Line TQH 203
7. Seismic Line TQH 204
8. Seismic Line TQH 205
9. Seismic Line TQH 206
10. Seismic Line TQH 207
11. Seismic Line TQH 208
12. Seismic Line TQH 209A
13. Seismic Line TQH 210
14. Seismic Line TQH 211
15. Seismic Line TQH 212
16. Seismic Line TQH 213
17. Seismic Line TQH 214
18. Tilana Time Structure Map, Top Eastern View Coal Measures Horizon

INTRODUCTION

Amoco and South Australia Oil and Gas (SAOG) farmed into T/14P in April 1984 from the Bass Cue Group. Amoco and SAOG assumed a farm-in obligation in T/14P of $7 million Australian (approximately $5.2 million U.S.) gross expenditure commitment which covered a $4.6 million Australian (approximately $3.4 million U.S.) expenditure commitment to the government.

In 1984 and 1985, Amoco and partners acquired over 4,000 kilometers and reprocessed 3,000 kilometers of seismic data in T/14P prior to drilling two wells in the licence.

The Amoco Yolla-1 spud in June 1985 and drilled to a total depth of 10,981 feet. The well was designed to test closure through the Eastern View section. The well discovered hydrocarbons at the top of the Eastern View, testing rates as high as 11.8 million cubic feet of gas (MMCFG) and 892 barrels of condensate (BC) per day on an 80/64 inch choke. Within the same gross interval a thin oil zone was tested at a rate of 1 MMCFG and 300 barrels of 45 API gravity oil per day on a 16/64 inch choke. The well also discovered hydrocarbons at the top of the Paleocene, testing at rates as high as 15.1 MMCFG and 580 barrels of 51.2 degree API gravity condensate.

The Amoco Tilana-1 spud in September 1985 and drilled to a total depth of 12,796 feet. This well was designed to test closure through the upper Eastern View section. The well found no significant hydrocarbons. Three

drillstem tests in the lower L. Balmei section indicated limited gas flow.

The T/14P work program obligation for renewal year 1 is a seismic interpretation restudy of the Yolla and Tilana areas. A Landmark interactive workstation was used in the interpretation of seismic lines over the Yolla structure. Three time structure maps were made at the Top Eastern View Coal Measures, the Lower M. Diversus and the Lower L. Balmei horizons to define the structure and the hydrocarbon reserves discovered by Yolla-1. The Tilana reevaluation incorporated information from the TNK series seismic lines with data gained from the Tilana-1 well.

This report documents the results of the Yolla and Tilana seismic reevaluation and is submitted in fulfillment of the renewal year 1 work obligation for the T/14P licence.

YOLLA SEISMIC INTERPRETATION

The seismic interpretation of the Yolla structure was conducted on a Landmark interpretive workstation using the 1985 TQH seismic data. The computer-aided interpretation allowed better correlations across faults and more accurate data ties at line intersections. The interpretation was then output onto datum-posted basemaps and hand contoured. The interpretation was also transferred onto migrated stack sections for display purposes (Enclosures 4 through 17).

Time structure maps were made on the Top Eastern View Coal Measures (Enclosure 1), the Lower M. Diversus (Enclosure 2), and the Lower L. Balmei (Enclosure 3). The Yolla structure has four-way dip closure. Normal faults cut the structure along a northeast-southwest trend as shown on the time structure maps. Critical dip to the northeast is as shown on line TQH 204 (Enclosure 7). Approximately 100 meters (65 milliseconds) of dip is evident at the Top Eastern View, and approximately 320 meters (160 milliseconds) at the Lower L. Balmei. Critical dip to the northwest at the Top Eastern View is approximately 110 meters (70 milliseconds) on line TQH 207 (Enclosure 10).

The primary fault trends for this area are in a northwest-southeast direction with a secondary north-south component. The north-south trending faults are the more recent and occurred during the late Eocene. The northwest-southeast trending faults occurred during the early to middle Eocene. The timing of the fault trends is illustrated on line TQH 204 (Enclosure 7). The north-south trending faults cross TQH 204 at shotpoints 250-300 and cut through the Top Eastern View Coal Measures. The northwest-southeast trending faults cross line TQH 204 at shotpoints 150-200 and cut through the Lower M. Diversus. Expansion on the faults occurs downthrown and southeast of the Yolla structure. Minor M. Diversus and L. Balmei interval expansion is observed northeast of the structure.

Areal closure above the oil/water contact, highlighted in red on the Top Eastern View Coal Measures map, is approximately 3300 acres. The

recoverable reserves at this level have been estimated to be approximately 1.7 billion cubic feet (BCF) of gas and 6.9 million barrels (MMB) of oil. The areal closure highlighted in red on the Lower L. Balmei map is approximately 3900 acres, and recoverable reserves at this level have been estimated to be approximately 158 BCF of gas and 6.6 MMB of condensate.

TILANA SEISMIC INTERPRETATION

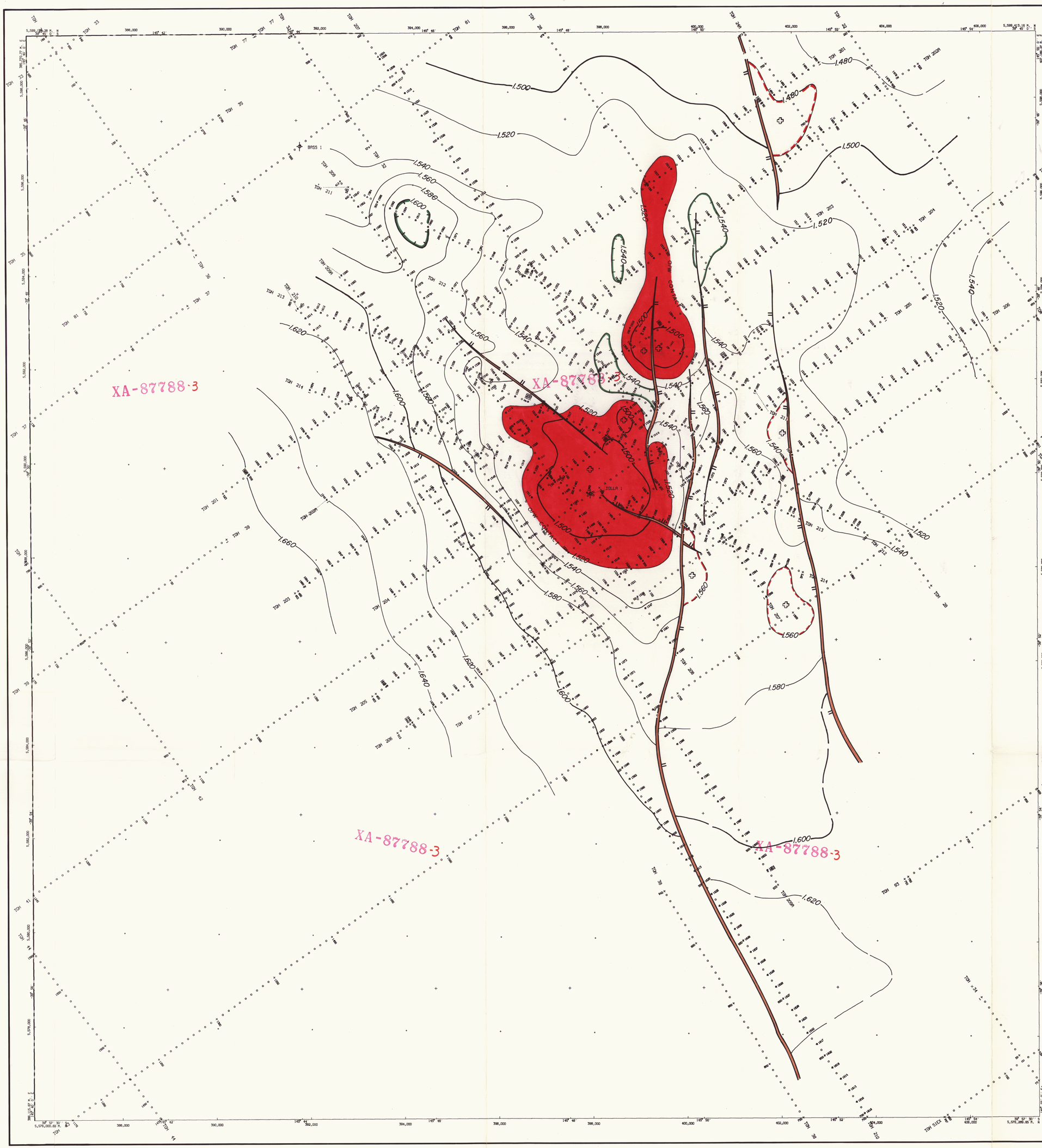
The seismic interpretation of the Tilana area consisted of reevaluating the 1984 TNK series lines and incorporating well information from Tilana-1. A time structure map was made at the Top Eastern View Coal Measures (Enclosure 18).

This map shows the Tilana structure to be a four-way dip closure of approximately 3000 acres with a vertical closure of 50 meters (30 milliseconds). The structure was tested by the Tilana-1 well. Three drillstem tests conducted in the lower L. Balmei section resulted in only limited gas flow.

SUMMARY

The Yolla reevaluation indicates that the areal closure of the Top Eastern View Coal Measures is approximately 3300 acres with an estimated

100 meters of vertical closure. Recoverable reserves are estimated to be 1.7 BCF of gas and 6.9 MMB of oil. These reserve estimates are the same as Amoco's estimates made prior to this report. Areal closure of the Lower L. Balmei horizon near the top of the Paleocene is approximately 3900 acres with an estimated 320 meters of vertical closure. Recoverable reserves are estimated to be 158 BCF of gas and 6.6 MMB of condensate. These estimates are slightly higher than the estimates made prior to this report. The increase results from a 600 acre increase in the mapped areal extent of the structure combined with an increased calculated recovery factor.



DESCRIPTION OF SEISMIC COVERAGE

MAP HISTORY

SYMBOLS

LOCATION
DRILLING
DRY HOLE
GAS WELL
OIL WELL
GAS/OIL WELL
GAS/CONDENSATE
GAS SHOW
OIL SHOW
VELOCITY SURVEY
VSP SURVEY
WELL PENETRATED HORIZON
PRODUCTION AT OR DEEPER THAN MAPPED HORIZON

CONTOURS/FAULTS

RELIABLE (G,F)
RELIABLE (P)
UNRELIABLE (VP, T)
GEOLOGICAL
NORMAL FAULT TRACE LENGTH DEPENDENT ON
THRUST FAULT LOCATION RELIABILITY

QUALIFICATION OF CONTOURED DIP MAGNITUDE/FAULT EVIDENCE

RELIABILITY DEGREE	POSSIBLE ERROR RANGE
RELIABLE (G,F)	0 TO +20%
RELIABLE (P)	+20% TO +50%
UNRELIABLE (VP, T)	>+50%

(GEOLOGICAL I=SEISMIC I< + MISTE 3
SEISMIC TOO DEEP I=SEISMIC TOO SHALLOW I=)

MAP NO.

NOTE: THIS MAP REPLACES MAP NO. WHICH IS TO BE DESTROYED, PLACED IN INACTIVE DIR

(CIRCLE ONE)

DISTRIBUTION:

W.LETTER
FILE NO.
DATE:

OTHER AVAILABLE ACTIVE MAPS:

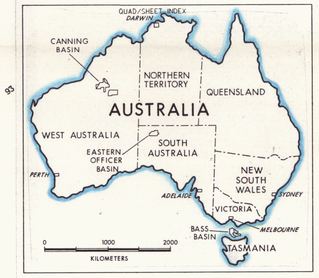
SCHEMATIC REGIONAL GEOLOGY

DEPTH CONVERSION METHOD

MAP PROJECTION

SOURCE CODE

QUAD/SHEET INDEX



GRAPHIC SCALE

0 0.5 1.0 1.5 2.0 2.5 KILOMETERS
0 0.5 1.0 1.5 MILES

5 cm

XA-87788-3

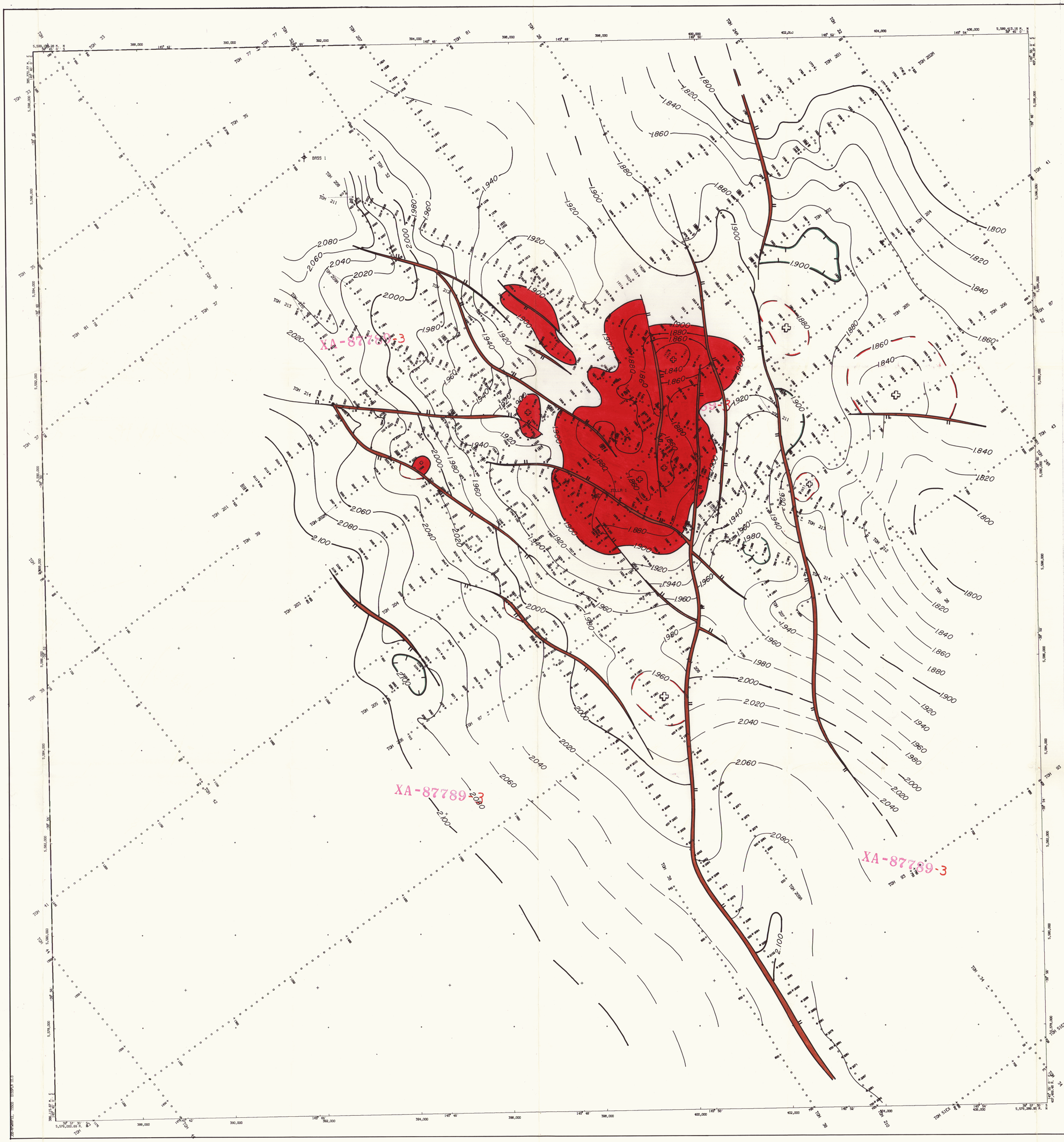
31400S

Amoco Australia Petroleum Company
Europe, Latin America & Far East Region
Houston, Texas

Type of map: TIME STRUCTURE MAP	
Horizon: TOP EASTERNVIEW COALMEASURES	
Blocks(s)/Grid(s): YOLLA	
Area/Country: BASS BASIN	Map Quad:
Interpreter(s): E. NEWMAN, M. MAGEE	Date: AUGUST, 1987
Scale: 1:25,000	Contour Intervals: 20ms.
Remarks: DATUMS ARE GOOD TO FAIR RELIABILITY EXCEPT WHERE OTHERWISE NOTED.	
Film File No.: FA-1951	S.M.H.

ENCLOSURE 1

OR-278



DESCRIPTION OF SEISMIC COVERAGE

MAP HISTORY

SYMBOLS

CONTOURS/FAULTS

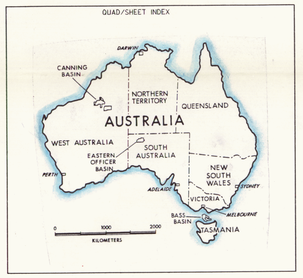
SCHEMATIC REGIONAL GEOLOGY

DEPTH CONVERSION METHOD

MAP PROJECTION

SOURCE CODE

QUAD/SHEET INDEX



GRAPHIC SCALE

CLASS I CONFIDENTIAL

XA-87789-3

314009

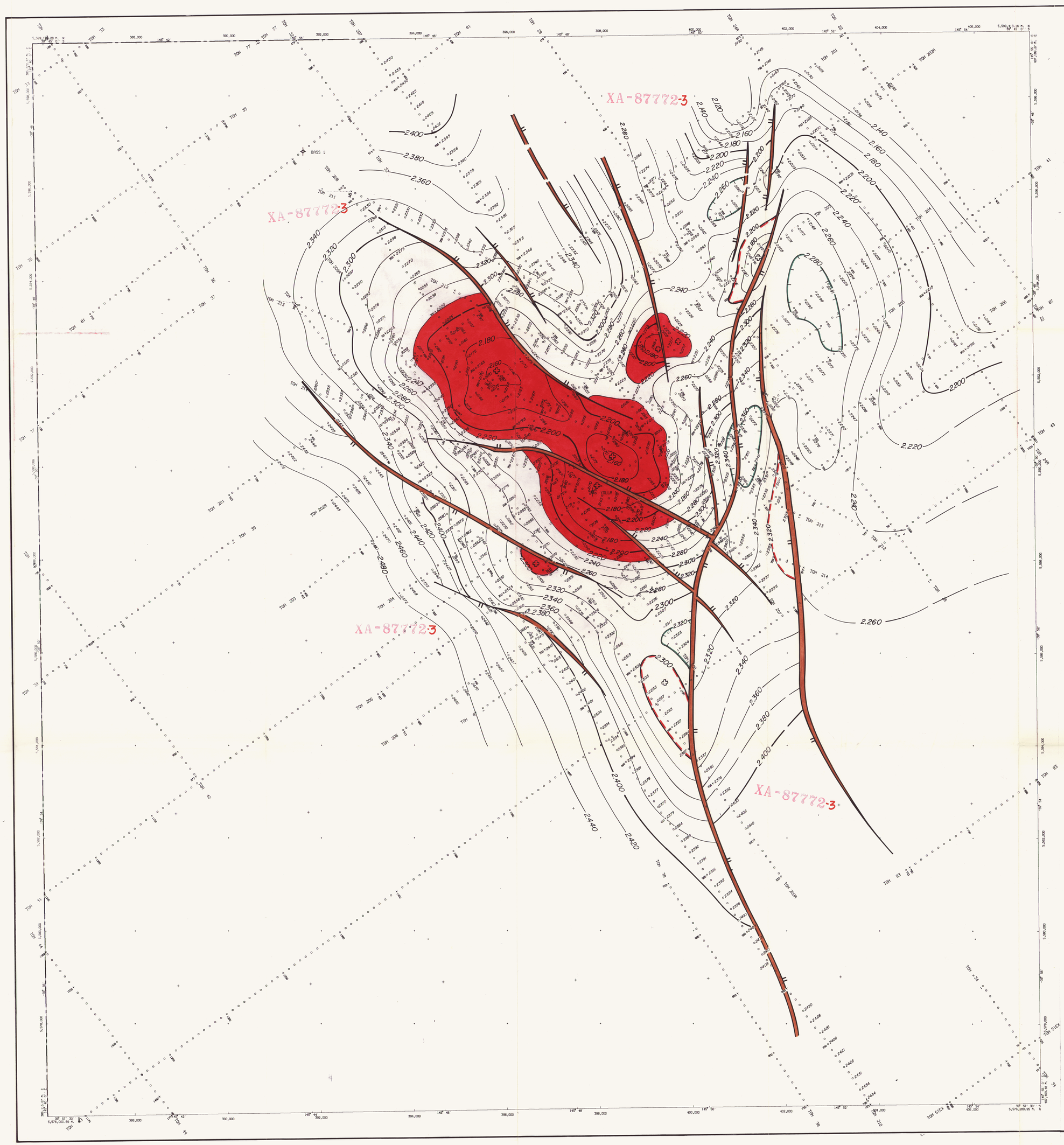
Amoco Australia Petroleum Company

Europe, Latin America & Far East Region
Houston, Texas

Type of map: TIME STRUCTURE	
Horizon: LOWER M. DIVERSUS	
Blocks(s)/Grid(s): YOLLA	
Area/Country: BASS BASIN, AUSTRALIA	Map Quad:
Interpreter(s): E. NEWMAN, M. MAGEE	Date: 8/20/87
Scale: 1" = 25,000	Contour Intervals: 20ms
Remarks: DATUMS ARE OF FAIR TO POOR RELIABILITY EXCEPT WHERE OTHRWISE NOTED.	
Film File No.: FA-1952	

ENCLOSURE 2

OR-278



ALL GEOLOGICAL AND GEOPHYSICAL DATA INCLUDING THE INTERPRETATION THEREOF APPEARING ON THIS REPORT IS THE PRIVATE AND CONFIDENTIAL PROPERTY OF AMOCO PRODUCTION COMPANY, THE PUBLICATION OR REPRODUCTION THEREOF WITHOUT THE WRITTEN PERMISSION OF SAID COMPANY IS STRICTLY PROHIBITED.

DESCRIPTION OF SEISMIC COVERAGE

MAP HISTORY

SYMBOLS

LOCATION
DRILLING
DRY HOLE
GAS WELL
OIL WELL
GAS/OIL WELL
GAS/CONDENSATE
GAS SHOW
OIL SHOW
VELOCITY SURVEY
VSP SURVEY
WELL PENETRATED HORIZON
PRODUCTION AT OR DEEPER THAN MAPPED HORIZON

CONTOURS/FAULTS

RELIABLE (GLF)
RELIABLE (P)
UNRELIABLE (VP, T)
GEOLOGICAL
NORMAL FAULT TRACE LENGTH DEPENDENT ON THRUST FAULT LOCATION RELIABILITY

QUALIFICATION OF CONTOURED DIP MAGNITUDE/FAULT EVIDENCE

RELIABILITY DEGREE
RELIABLE (GLF)
RELIABLE (P)
UNRELIABLE (VP, T)

POSSIBLE ERROR RANGE
0 TO +20%
+20% TO +50%
>+50%

(GEOLOGICAL) >1 SEISMIC HC = METE 3
SEISMIC TOO DEEP >1, SEISMIC TOO SHALLOW (-)

MAP NO.
NOTE: THIS MAP REPLACES MAP NO. WHICH IS TO BE DESTROYED, PLACED IN MARTINE DIP.
CIRCLE ONE:
DISTRIBUTION:

MASTER
FILE NO.
DATE:

OTHER AVAILABLE ACTIVE MAPS:

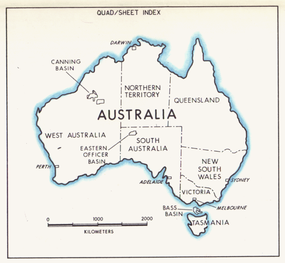
SCHEMATIC REGIONAL GEOLOGY

DEPTH CONVERSION METHOD

MAP PROJECTION

SOURCE CODE

QUAD/SHEET INDEX



GRAPHIC SCALE

0 1 2 Km.
0 1 2 Mi.
5 cm

CLASS I CONFIDENTIAL

XA-87772-3

314010

Amoco Australia Petroleum Company
Europe, Latin America & Far East Region
Houston, Texas

Type of map: TIME STRUCTURE	
Horizon: LOWER L. BALMEI	
Blocks(s)/Grid(s): YOLLA	
Area/Country: BASS BASIN, AUSTRALIA	
Interpreter(s): E. NEWMAN, M. MAGEE	Date: 8/5/87
Scale: 1:25,000	Contour Intervals: 20 MS.
Remarks: DATUMS ARE OF FAIR TO POOR RELIABILITY EXCEPT WHERE OTHERWISE NOTED.	
File No: FA-1955	E. Lopez

ENCLOSURE 3

OR 278

ENCLOSURE 4

LINE TQH5-201
S.P. 1 TO 523

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

64 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 W.V. EUGENE MCDERMOTT II
DATE SHOT	- 05DEC85 - 21JAN86
RECORDING INSTRUMENTS	- DIGITAL SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE - 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE - 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY) POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 48FR GI GUN, 48GUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 61.2 MILLISECONDS
SOURCE DEPTH	- 6 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 120 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEX STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
FOLD	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 61.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.5 DB PER SECOND FROM 2.0 TO 4.0 SECONDS. 6.0 DB PER SECOND FROM 2 TO 4.0 SECONDS.
PRE DECONVOLUTION MUTE	- SPHERICAL DIVERGENCE CORRECTIONS APPLIED RAMP LENGTH - 96 MSECS OFFSET(METRES): 410 480 960 3975 START TIME(MSECS): 1000 1000 1000 1000
VELOCITY FILTERING (V6)	- USING DIPS OF 1512.6 MSEC/KM IN THE SHOT DOMAIN WITH FULL COSINE RAMPING
DESIGNATURE (V6)	- USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 17 DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT - 6098 METRES/SECOND
VELOCITY ANALYSIS	- USING 17 DEPTH POINT VELSCAN ANALYSES. - - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
TOP CONNECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 390 480 480 3975 START TIME(MSECS): 0 180 480 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 400 520 1290 1300 START TIME(MSECS): 800 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN - DIP LIMIT: 90 DEGREES
(VERSION 7.2)	ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
SYSTEM	- DIP ANGLE - 55 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 950 8 - 50 1500 8 - 45 2000 8 - 40 2500 8 - 40 3000 6 - 35 3500 6 - 35 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

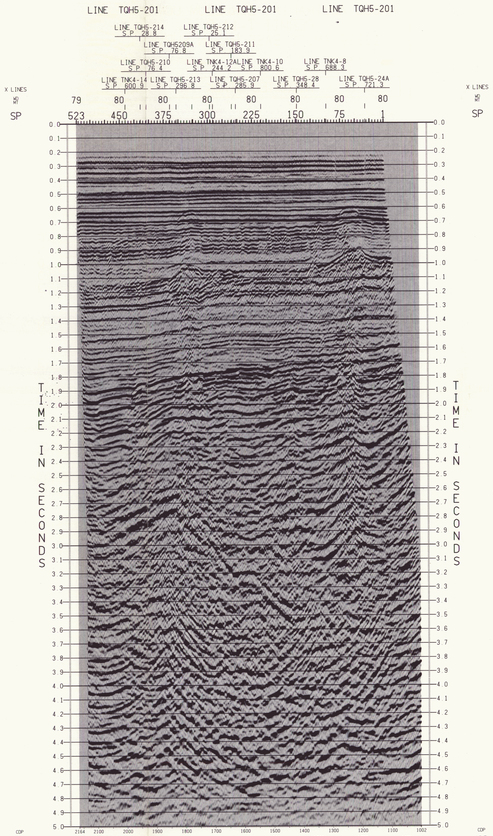
HORIZONTAL SCALE	- 63.969986 TR/IN	33.333328 TR/KM	DISPLAY GAIN
VERTICAL SCALE	- 3.750000 IN / SEC		DISP POS'N
POLARITY	- NORMAL		CDP 40.0
TRACE TYPE - BIAS - WTAVE	- 0.0 PERCENT		SHOT 40.0
DATUM	- SEA LEVEL		REC 40.0
DISPLAY UNIT	- 0.877333 CM		

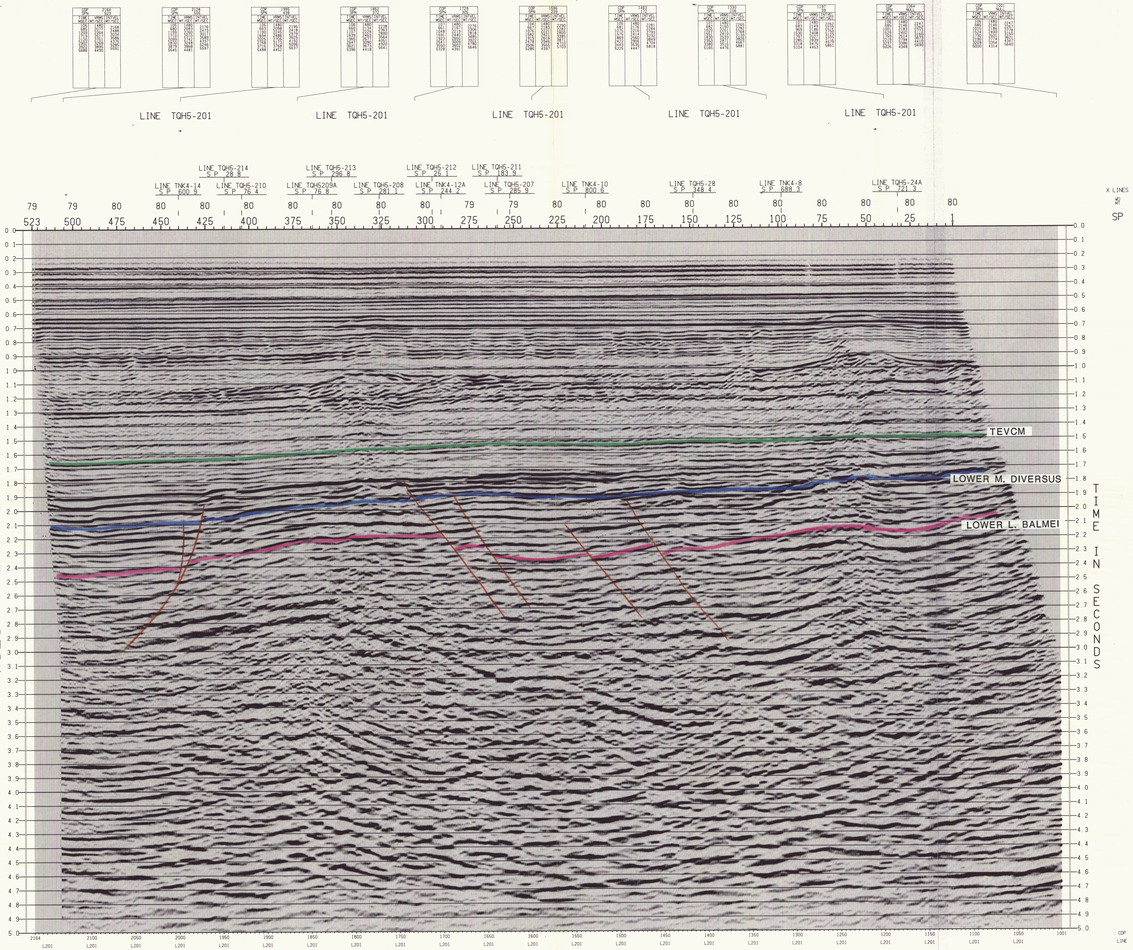
06 JAN 1986
20 07 37

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -





LINE TQH5-201
S.P. 1 TO 523

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

64 DEGREES — DIRECTION SHOT

MIGRATED STACK

211011

FIELD DATA

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DATE SHOT	- 05DEC85 - 21JAN86
RECORDING INSTRUMENTS	- DIGITAL SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE - 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE - 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY) POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 48FR GI GUN, 48GUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 61.2 MILLISECONDS
SOURCE DEPTH	- 6 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 120 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEX STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
FOLD	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 61.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.5 DB PER SECOND FROM 2.0 TO 4.0 SECONDS. SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 410 480 960 3975 START TIME(MSECS): 1000 1000 1000 1000
VELOCITY FILTERING (V6)	- USING DIPS OF 1512.6 MSEC/KM IN THE SHOT DOMAIN WITH FULL COSINE RAMPING
DESIGNATURE (V6)	- USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 17 DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT - 6098 METRES/SECOND
VELOCITY ANALYSIS	- USING 17 DEPTH POINT VELSCAN ANALYSES. - - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
TOP CONNECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 390 400 480 3975 START TIME(MSECS): 0 180 480 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 400 520 1290 1300 START TIME(MSECS): 800 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN - DIP LIMIT: 90 DEGREES
(VERSION 7.2)	ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
SYSTEM	- DIP ANGLE - 55 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 950 8 - 50 1500 8 - 45 2000 8 - 40 2500 8 - 40 3000 6 - 35 3500 6 - 35 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 42.650000 TR/IN	66.666667 TR/KM	DISPLAY GAIN
VERTICAL SCALE	- 3.750000 IN / SEC		DISP POS'N
POLARITY	- NORMAL		CDP 40.0
TRACE TYPE - BIAS - WTAVE	- 0.0 PERCENT		SHOT 40.0
DATUM	- SEA LEVEL		REC 47.5
DISPLAY UNIT	- 0.877333 CM		

06 JAN 1986
19 53 26

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

02.278

MIGRATED STACK
LINE TQH5-201
S.P. 1 TO 523
AMOCO AUSTRALIA PETROLEUM COMPANY
1985B AMOCO BASS BASIN SURVEY

ENCLOSURE 5

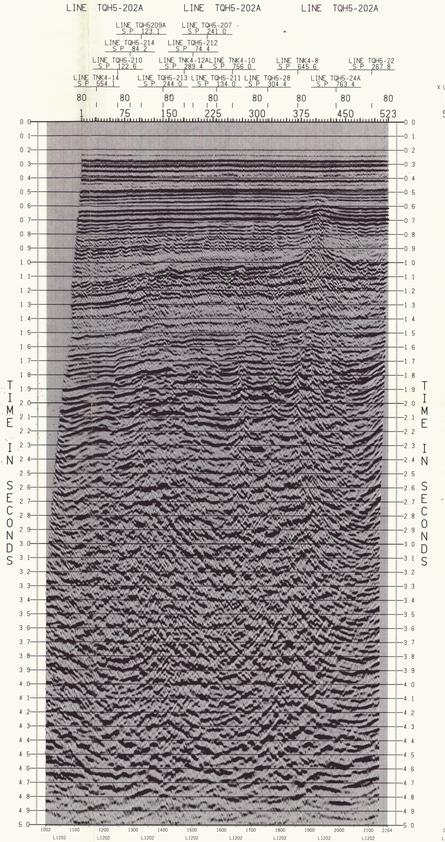
LINE TQH5-202A
S.P. 1 TO 523

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

64 DEGREES → DIRECTION SHOOT

MIGRATED STACK

LINE TQH5-202A S.P. 1 TO 523



FIELD DATA

DATA SHOT BY	G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	OCTOBER 1985
RECORDING INSTRUMENTS	TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	AIRGUN DELAY - 16.2 MSEC LOW-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 VOLTAGE ON TAPE - REVERSE POLARITY
DIGITAL TAPE FORMAT	SEG B 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
SOURCE	4070 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAYING	16.2 MILLISECONDS
SOURCE DEPTH	10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	10 METRES
SHOTPOINT INTERVAL	50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	3600 METRES 240 GROUPS 15 METRE GROUP INTERVAL
STREAMER TYPE	G.S.I. MULTILEVEL STREAMER
STREAMER DEPTH	7.5 METRES AVERAGE
HYDROPHONES	40 PER GROUP
COVERAGE	60 FOLD 240 TRACE
PRIMARY NAVIGATION SYSTEM	MRDS
BACKUP NAVIGATION SYSTEM	SYLEDIS

SPREAD DIAGRAM


3585 M
240 HYDROPHONE GROUPS
SOURCE
15M
7.5M
7.5M
15M
7.5M
7.5M
7.5

ENCLOSURE 6

LINE TQH5-203
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

54 DEGREES — DIRECTION SHOOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	OCTOBER - 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4076 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51 MILLISECONDS
SOURCE DEPTH	- 9 METRES
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 25 METRES, 2 SHOTS PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- SYNTRON DIGITAL SYSTEMS
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 48 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- A T**2 PER SECOND FROM 0.0 TO 4.0 SECONDS
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 410 480 960 3975 START TIME(MSECS): 0 400 800 2500
VELOCITY FILTERING (VEL)	- USING DIPS OF +11/-9 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (VEL)	- USING DEPTH DEPENDENT WAVELET, FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL TOSS VELOCITY IN NEGATIVE F-K VELOCITY 1500 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSC CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 390 480 480 3975 START TIME(MSECS): 0 180 480 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 400 520 1280 1300 START TIME(MSECS): 1500 1500 2900 5000 END TIME(MSECS): 800 1000 2900 5000
COMMON DEPTH POINT-STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF FK DOMAIN ARE MIGRATED VELOCITIES
(VERSION 7.2)	- ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPPING	- DIP ANGLE - 35 DEGREES ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 900 8 - 60 1000 8 - 50 1500 8 - 45 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.96986 TR/IN 33.333328 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	TIME
100	4.0
MMS	MMS

06 JAN 1986
15 56 05

PARTY 6860

GEOPHYSICAL SERVICE INC
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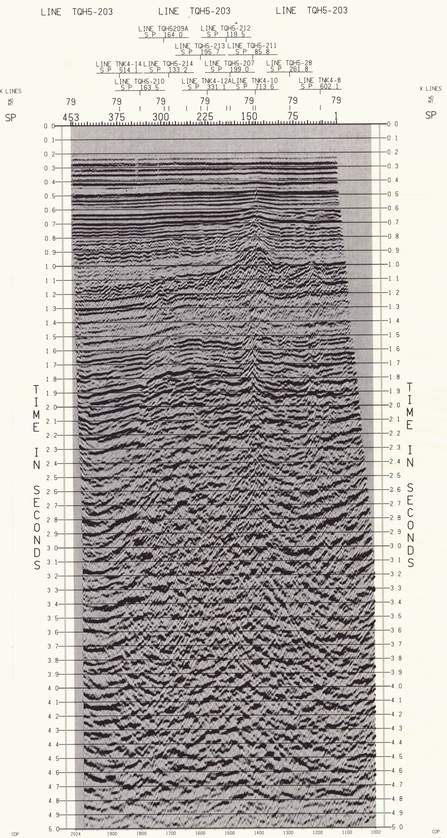
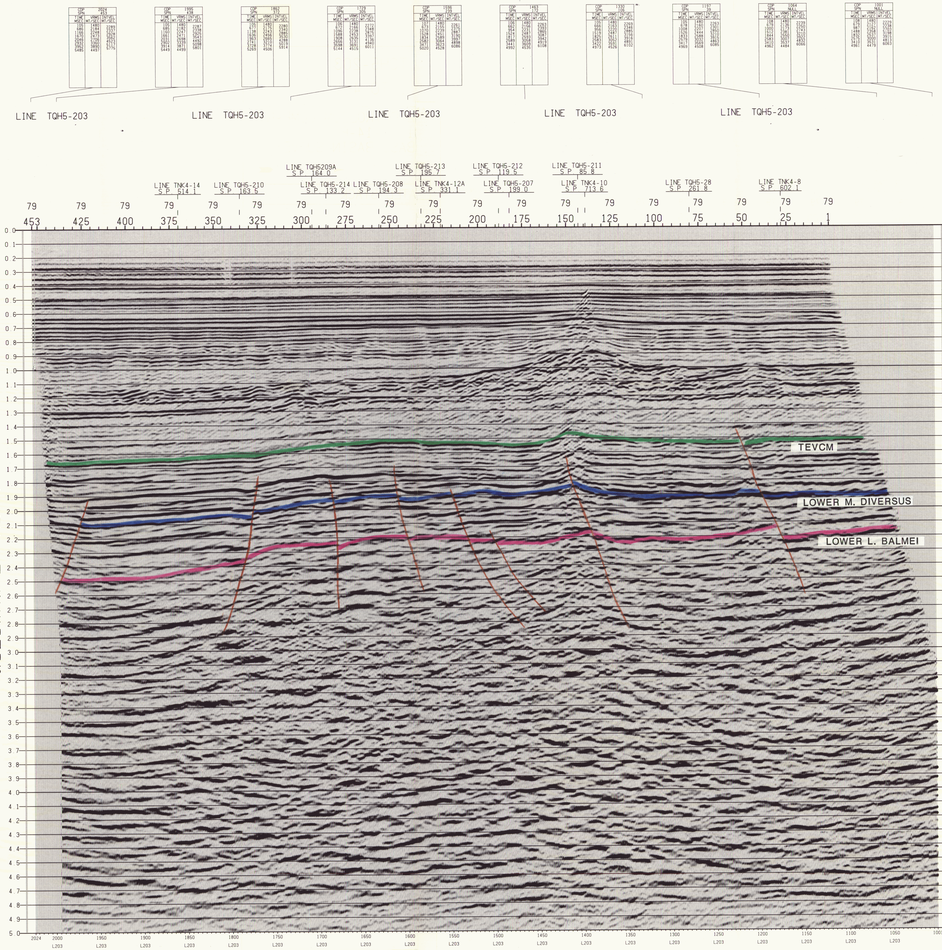
PROCESSING CHECKED BY -





LINE TQH5-203
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

54 DEGREES — DIRECTION SHOOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	OCTOBER - 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4076 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51 MILLISECONDS
SOURCE DEPTH	- 9 METRES
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 25 METRES, 2 SHOTS PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- SYNTRON DIGITAL SYSTEMS
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 48 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- A T**2 PER SECOND FROM 0.0 TO 4.0 SECONDS
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 410 480 960 3975 START TIME(MSECS): 0 400 800 2500
VELOCITY FILTERING (VEL)	- USING DIPS OF +11/-9 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (VEL)	- USING DEPTH DEPENDENT WAVELET, FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL TOSS VELOCITY IN NEGATIVE F-K VELOCITY 1500 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSC CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 390 480 480 3975 START TIME(MSECS): 0 180 480 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 400 520 1280 1300 START TIME(MSECS): 1500 1500 2900 5000 END TIME(MSECS): 800 1000 2900 5000
COMMON DEPTH POINT-STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF FK DOMAIN ARE MIGRATED VELOCITIES
(VERSION 7.2)	- ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPPING	- DIP ANGLE - 35 DEGREES ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 900 8 - 60 1000 8 - 50 1500 8 - 45 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 42.650000 TR/IN 66.666667 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	TIME
100	4.0
MMS	MMS

06 JAN 1986
15 44 44

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

MIGRATED STACK

LINE TQH5-203
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
1985B AMOCO BASS BASIN SURVEY

ENCLOSURE 7

LINE TQH5-204
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

55 DEGREES → DIRECTION SHOOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE: 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE: 6 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 32BIT BFP/ 9 TRACK/1600 BPI
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4070 CU IN AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 101 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES, 1 PSHOT PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
CDP BIN DIMENSION	- 25 METRES (12.5 METRE GROUP INTERVAL)
STREAMER LENGTH	- 3600 METRES, 240 GROUPS 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 101.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- A DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 410 480 960 3975 START TIME(MSECS): 0 400 800 2000
VELOCITY FILTERING (V6)	- USING DIPS OF +12/-6 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (V6)	- WIENER-LEVINSON WAVELET, FMAX=125 HZ
VELOCITY ANALYSIS	- USING OFFSET DEPENDENT WAVELET, FMAX=126 HZ USING(1) DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL SUS OFF VELOCITY IN NEGATIVE F-K QUADRANT STOOL METRESTONE
VELOCITY ANALYSIS	- USING(1) DEPTH POINT VELSCAN ANALYSES, LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 390 400 480 3975 START TIME(MSECS): 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 450 520 1290 3300 START TIME(MSECS): 100 -100 -100 -100 END TIME(MSECS): 800 1000 2900 5000
COMMON DEPTH POINT STACK	- 60 FOLD/ 240 TRACE
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN, DIP LIMIT - 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES, ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 900 8 - 50 1500 8 - 45 2500 8 - 40 2500 6 - 40 3500 6 - 35 3500 5 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.969986 TR/IN - 33.333328 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	SHOT
88.5	87.5



07 JAN 1986
12 09 21

PARTY 6860

GEOPHYSICAL SERVICE INC
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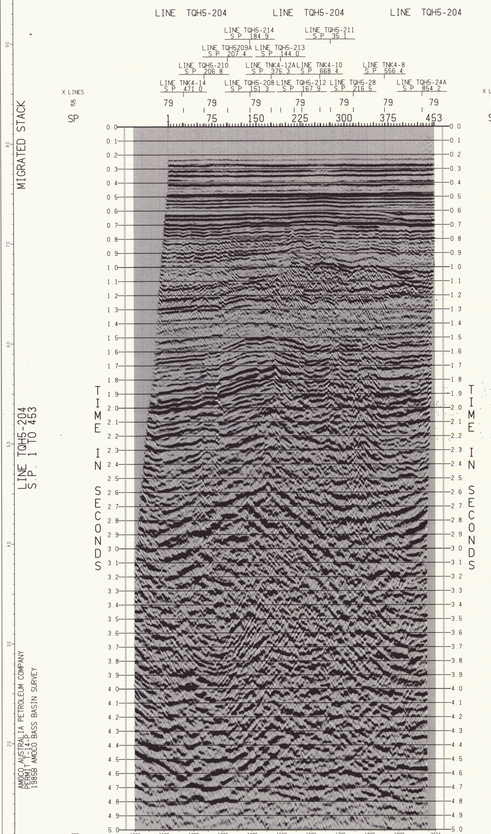
PROCESSING CHECKED BY -



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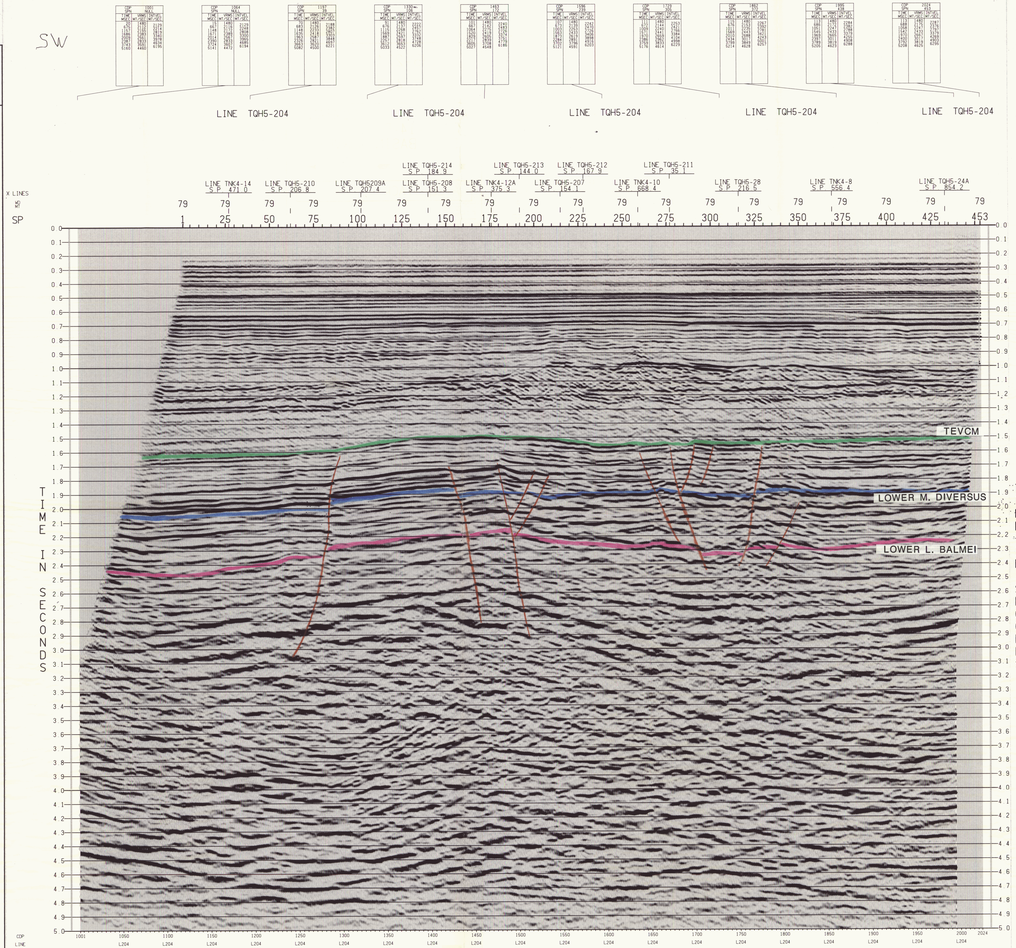

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LINE TQH5-204
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

55 DEGREES → DIRECTION SHOOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE: 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE: 6 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 32BIT BFP/ 9 TRACK/1600 BPI
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4070 CU IN AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 101 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES, 1 PSHOT PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
CDP BIN DIMENSION	- 25 METRES (12.5 METRE GROUP INTERVAL
STREAMER LENGTH	- 3600 METRES, 240 GROUPS
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 101.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- A DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 410 480 960 3975 START TIME(MSECS): 0 400 800 2000
VELOCITY FILTERING (V6)	- USING DIPS OF +12/-6 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (V6)	- WIENER-LEVINSON WAVELET, FMAX=126 HZ
VELOCITY ANALYSIS	- USING OFFSET DEPENDENT WAVELET, FMAX=126 HZ USING(1) DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL SUS OFF VELOCITY IN NEGATIVE F-K QUADRANT STOOL METRESTONE
VELOCITY ANALYSIS	- USING(1) DEPTH POINT VELSCAN ANALYSES, LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 390 400 480 3975 START TIME(MSECS): 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(METRES): 450 520 1290 3300 START TIME(MSECS): 100 -100 -100 -100 END TIME(MSECS): 800 1000 2900 5000
COMMON DEPTH POINT STACK	- 60 FOLD/ 240 TRACE
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN, DIP LIMIT - 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES, ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 900 8 - 50 1500 8 - 45 2500 8 - 40 2500 6 - 40 3500 6 - 35 3500 5 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 42.650000 TR/IN 66.666667 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	SHOT
87.5	87.5



07 JAN 1986
12 46 40

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

ENCLOSURE 8

LINE TQH5-205
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

54 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY-2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER - 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8350 BPI PHASE-ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4975 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 49.5 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT COP POSITION
CDP INTERVAL	- 25 METRES - 24 GROUPS 12.5 METRE GROUP INTERVAL
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLING	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 49.5 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM @ T.V.G SECONDS
PRE DECONVOLUTION MUTE	- SPHERICAL DIVERGENCE CORRECTIONS APPLIED RAMP LENGTH - WTR MSECS - START TIMES(MSECS): 410 480 960 3976 - END TIMES(MSECS): 480 800 2800
VELOCITY FILTERING (V#S)	- USING DIPS OF +11/-9 MSEC/TR IN THE SHOT DOMAIN WITH FULL DOPING RAMPING
DESIGNATURE - (V#S)	- USING DEPTH DEPENDENT WAVELET FMAX=125 HZ
VELOCITY ANALYSIS - - -	- USING 1% DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE - - -	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700 METRES/SECOND
VELOCITY ANALYSIS - - -	- USING 1% DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - WTR MSECS - START TIMES(MSECS): 390 400 480 3976 - END TIMES(MSECS): 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - WTR MSECS - START TIMES(MSECS): 400 520 1290 1300 - END TIMES(MSECS): 100 100 100 100
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN DIP LIMIT - 80 DEGREES
(VERSION 7.2)	- ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 120-74 - 80 900 - 60 1500 - 40 2000 - 40 2500 - 35 3000 - 30 3500 - 25 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.969986 TR/IN - 33.333328 TR/KM
VERTICAL SCALE	- 3.760000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WTAHR - 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
TIME	GATE
89.5	0

04 JAN 1986
20 02 28

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

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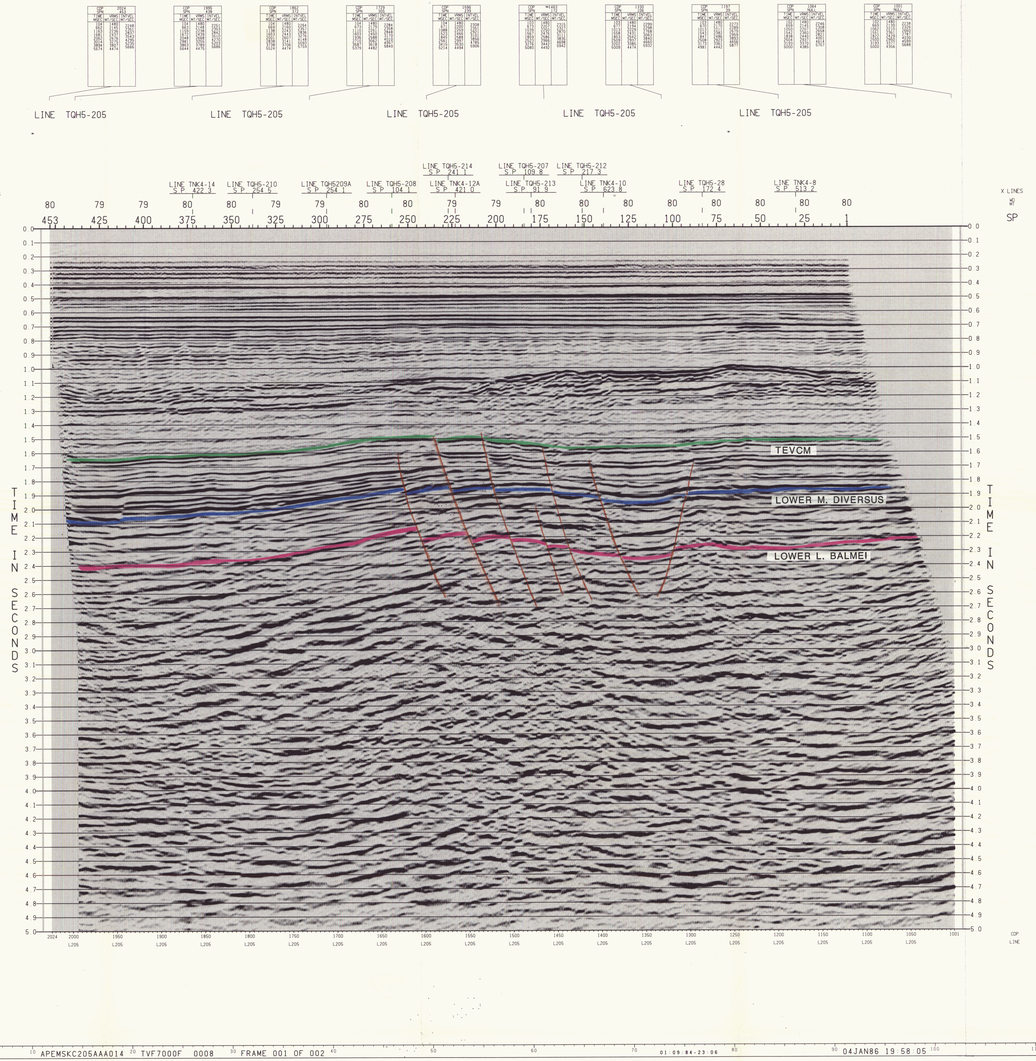

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04JAN86 19 58 05

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LINE TQH5-205
S.P. 1 TO 453

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

54 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY-2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER - 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8350 BPI PHASE-ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4975 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 49.5 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT COP POSITION
CDP INTERVAL	- 25 METRES - 24 GROUPS 12.5 METRE GROUP INTERVAL
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLING	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 49.5 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM @ T.V.G SECONDS - SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - WTR MSECS - START TIMES(MSECS): 410 480 960 3976 - END TIMES(MSECS): 480 800 2800
VELOCITY FILTERING (V#S)	- USING DIPS OF +11/-9 MSEC/TR IN THE SHOT DOMAIN WITH FULL DOPING RAMPING
DESIGNATURE - (V#S)	- USING DEPTH DEPENDENT WAVELET FMAX=125 HZ
VELOCITY ANALYSIS - - -	- USING 1% DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE - - -	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700 METRES/SECOND
VELOCITY ANALYSIS - - -	- USING 1% DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - WTR MSECS - START TIMES(MSECS): 390 400 480 3976 - END TIMES(MSECS): 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - WTR MSECS - START TIMES(MSECS): 400 520 1290 1300 - END TIMES(MSECS): 100 100 100 100
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN DIP LIMIT - 80 DEGREES
(VERSION 7.2)	- ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 120-74 - 80 900 - 60 1500 - 40 2000 - 40 2500 - 35 3000 - 30 3500 - 25 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 42.650000 TR/IN - 66.666667 TR/KM
VERTICAL SCALE	- 2.506666 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WTAHR - 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
TIME	GATE
89.5	0

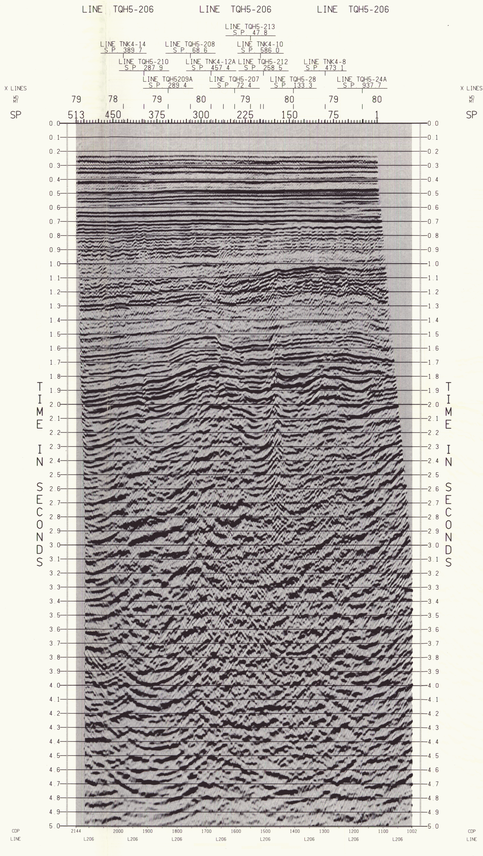
04 JAN 1986
19 49 57

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

ENCLOSURE 9



LINE TQH5-206
S.P. 1 TO 513

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

55 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
RECORDED BY	- GEOPHYSICAL SERVICE INC.
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 8076 CU.IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.0 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 15 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT COP POSITION
SHOTPOINT COVERAGE	- 60 FOLD, 25 METRE SHOTPOINT, 12.5 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIFLEX/DIGITAL STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE.
HYDROPHONES	- 60 PER GROUP
CONFIGURATION	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.0 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- SPHERICAL DIVERGENCE CORRECTIONS APPLIED - START TIME(MSEC) 0 180 400 900 3975 - RAMP LENGTH(MSEC) 0 180 400 900 2900
PRE DECONVOLUTION MUTE	- RAMP LENGTH: 96 MSECS OFFSET(METRES) 410 480 960 3975 START TIME(MSECS) 0 400 800 2900
VELOCITY FILTERING (VB)	- USING DIPS OF +117.5 MSEC/TR IN THE SHOT DOMAIN WITH FULL DOSING RAMPING
DESIGNATURE (VB)	- USING OFFSET DEPENDENT WAVELET. FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELOCITY ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K DOMAIN OF 1500 M/SEC
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELOCITY ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING STACKING VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH: 96 MSECS OFFSET(METRES) 390 400 480 3975 START TIME(MSECS) 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH: 96 MSECS OFFSET(METRES) 400 520 1290 1300 START TIME(MSECS) -100 -100 -100 -100 RAMP LENGTH: 96 MSECS OFFSET(METRES) 800 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN (DIP LIMIT) 90 DEGREES
VELOCITY (TJ)	- USING STACKING VELOCITIES - ADD BACK NOISE - LOW
DIPMUTE	- DIP ANGLE (DEGREES) ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 0 8 - 50 500 8 - 50 1500 8 - 40 2000 8 - 40 3000 8 - 35 4000 8 - 35 5500
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.869986	TR/IN - 33.333328	TR/KM
VERTICAL SCALE	- 3.750000	IN / SEC	
POLARITY	- NORMAL		
TRACE TYPE - BIAS - WT/AMP		- 0.0 PERCENT	
DATUM	- SEA LEVEL		
DISPLAY UNIT	- 0.677333 CM		

DISPLAY GAIN

CDP	ALL
1	240
60.5	179.5

07 JAN 1986
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PARTY 6860

GEOPHYSICAL SERVICE INC
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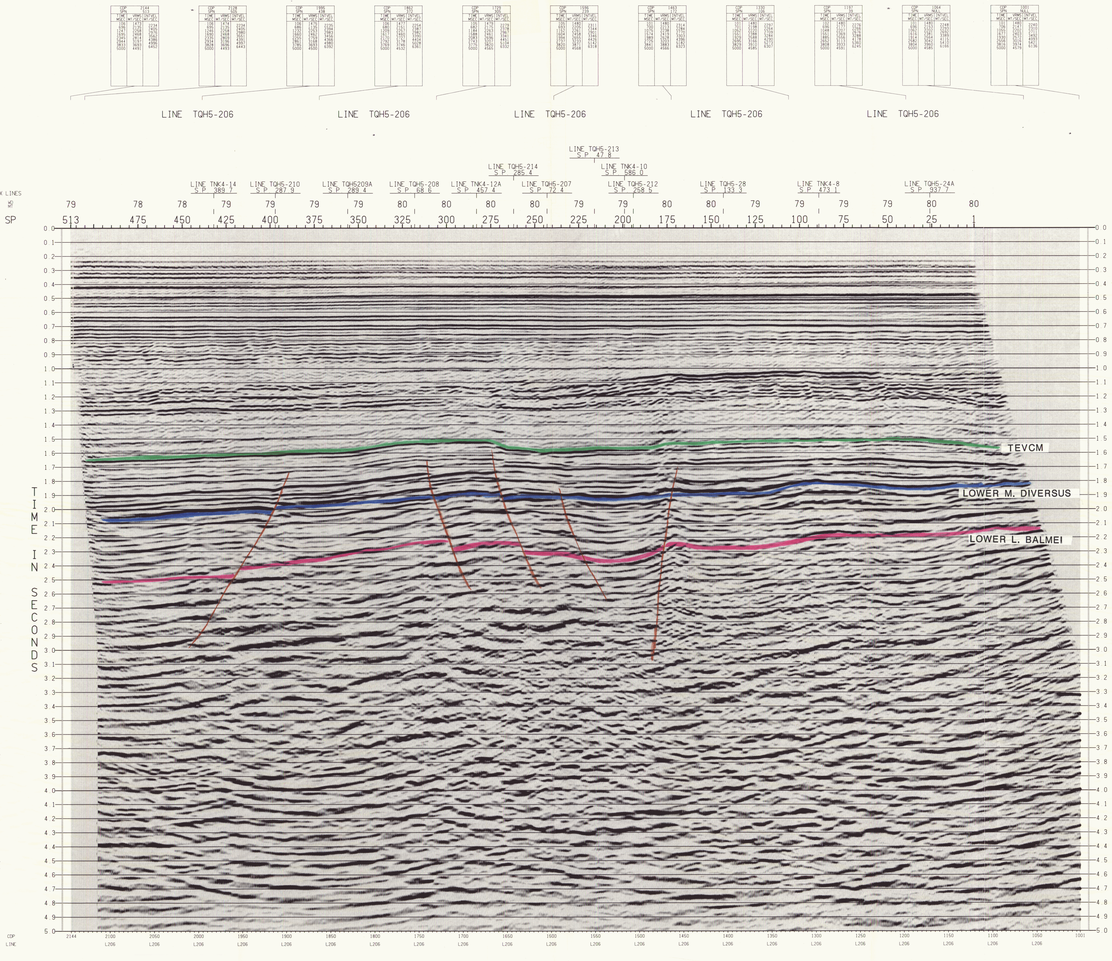
PROCESSING CHECKED BY -



LINE TQH5-206
S.P. 1 TO 513

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

55 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

SPREAD DIAGRAM

DIGITAL PROCESSING

DISPLAY

07 JAN 1986
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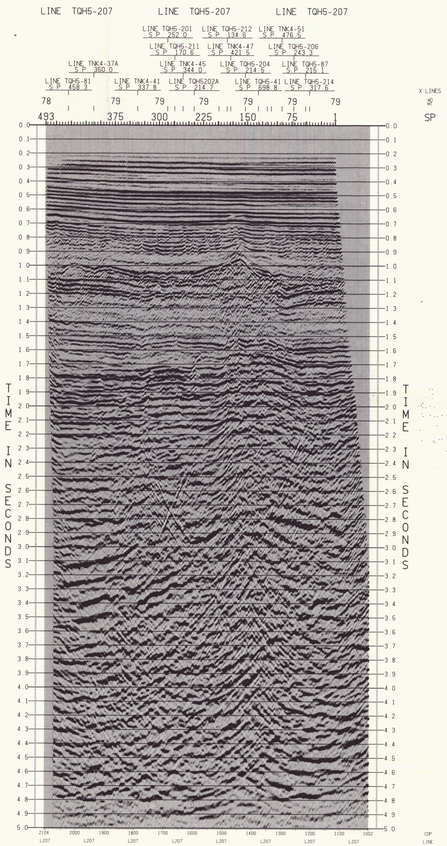
PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

ENCLOSURE 10



LINE TQH5-207
S.P. 1 TO 493

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 3931 M.V. EUGENE MCDERMOTT II
RECORDED	- OCTOBER - DECEMBER 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY).
DIGITAL TAPE FORMAT	- SEG B DEMULTIPLEXED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4575 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SHOTPOINT INTERVAL	- 25 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 50 METRES
SHOTPOINT INTERVAL	- 25 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 6 KM - 240 GROUPS AT 25 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. - MULTIFLEX24 STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
FOLD/GROUPS	- 60 FOLD/240 GROUPS
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- T**2 GAIN APPLIED FROM 1.0 TO 6.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH: 96 MSECS START TIME(MSECS): 410 - 480 - 960 - 3975 START TIME(MSECS): 0 - 400 - 800 - 2900
VELOCITY FILTERING (VF)	- USING DIPS OF +31/-3 MSEC/TR IN THE SHOT DOMAIN WITH 90% COSINE TAPERING
DESIGNATURE (WB)	- USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K DOMAIN AT 1800 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING 11 DEPTH POINT VELOCITIES.
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH: 96 MSECS START TIME(MSECS): 390 - 400 - 480 - 3975 START TIME(MSECS): 0 - 190 - 400 - 3200
INSIDE-TRACE MUTING	- RAMP LENGTH: 96 MSECS START TIME(MSECS): 400 - 520 - 1290 - 1300 START TIME(MSECS): 100 - 100 - 100 - 100 END TIME(MSECS): 800 - 1000 - 2900 - 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/X DOMAIN - DIP LIMIT - 90 DEGREES
VELOCITY FILTER	- USING INTERPOLATED VELOCITIES AND MIGRATED VELOCITIES
DIPSCAN	- DIP ANGLE - 115 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 900 8 - 50 1500 8 - 45 2500 6 - 45 3500 6 - 40 3000 5 - 35 3500 5 - 35 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 83.969986 TR/IN — 33.333328 TR/KM
VERTICAL SCALE	- 3.5 INCHES/SEC — 7.0 INCHES/SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 0.0 PERCENT
DATUM	- MEAN SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
1ST	40%
2ND	40%

06 JAN 1986
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PARTY 6860

GEOPHYSICAL SERVICE INC.
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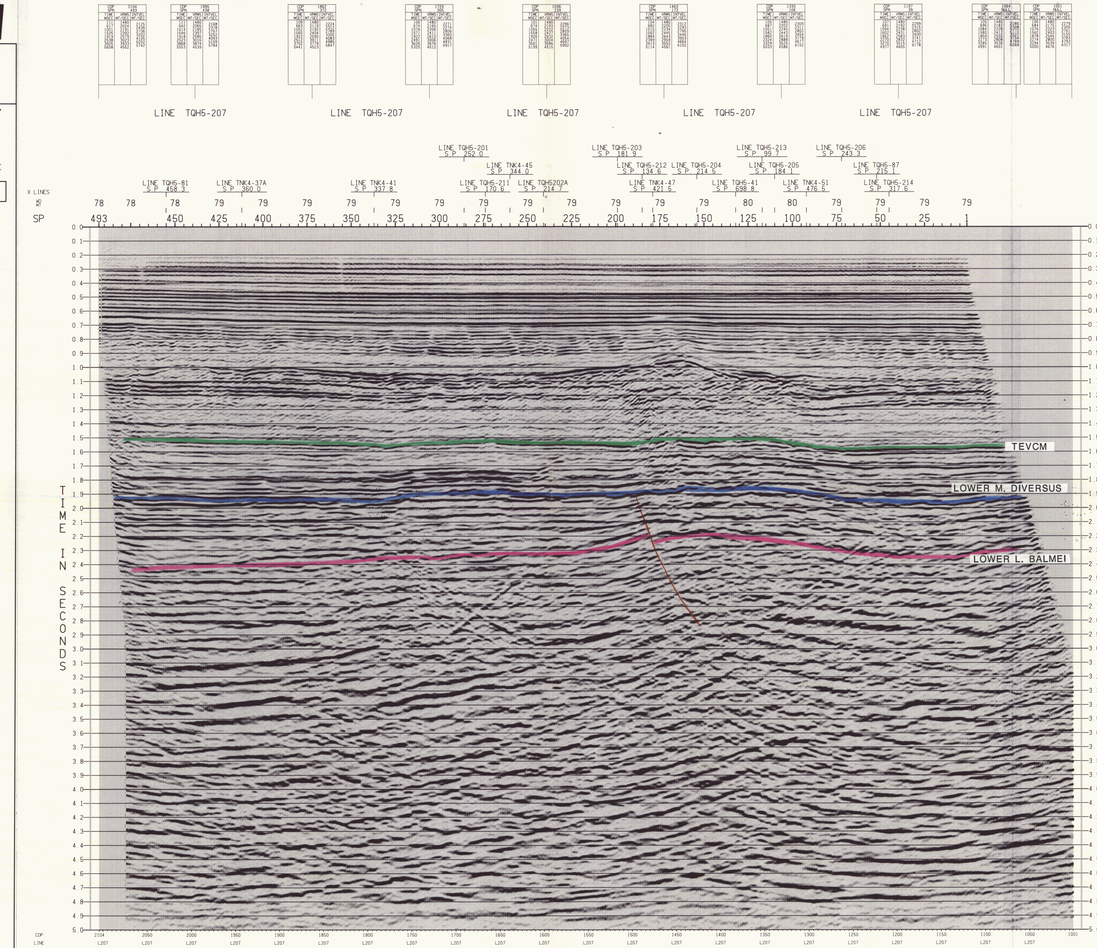
PROCESSING CHECKED BY -



LINE TQH5-207
S.P. 1 TO 493

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 3931 M.V. EUGENE MCDERMOTT II
RECORDED	- OCTOBER - DECEMBER 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY).
DIGITAL TAPE FORMAT	- SEG B DEMULTIPLEXED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4575 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SHOTPOINT INTERVAL	- 25 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 50 METRES
SHOTPOINT INTERVAL	- 25 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 6 KM - 240 GROUPS AT 25 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. - MULTIFLEX24 STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
FOLD/GROUPS	- 60 FOLD/240 GROUPS
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- T**2 GAIN APPLIED FROM 1.0 TO 6.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH: 96 MSECS START TIME(MSECS): 410 - 480 - 960 - 3975 START TIME(MSECS): 0 - 400 - 800 - 2900
VELOCITY FILTERING (VF)	- USING DIPS OF +31/-3 MSEC/TR IN THE SHOT DOMAIN WITH 90% COSINE TAPERING
DESIGNATURE (WB)	- USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K DOMAIN AT 1800 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING 11 DEPTH POINT VELOCITIES.
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH: 96 MSECS START TIME(MSECS): 390 - 400 - 480 - 3975 START TIME(MSECS): 0 - 190 - 400 - 3200
INSIDE-TRACE MUTING	- RAMP LENGTH: 96 MSECS START TIME(MSECS): 400 - 520 - 1290 - 1300 START TIME(MSECS): 100 - 100 - 100 - 100 END TIME(MSECS): 800 - 1000 - 2900 - 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/X DOMAIN - DIP LIMIT - 90 DEGREES
VELOCITY FILTER	- USING INTERPOLATED VELOCITIES AND MIGRATED VELOCITIES
DIPSCAN	- DIP ANGLE - 115 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 900 8 - 50 1500 8 - 45 2500 6 - 45 3500 6 - 40 3000 5 - 35 3500 5 - 35 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 92.660000 TR/IN — 66.666667 TR/KM
VERTICAL SCALE	- 3.5 INCHES/SEC — 7.0 INCHES/SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 0.0 PERCENT
DATUM	- MEAN SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
1ST	40%
2ND	40%

06 JAN 1986
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PARTY 6860

GEOPHYSICAL SERVICE INC.
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY - Bailey Mercer

Q-278

ENCLOSURE 11

LINE TQH5-208
S.P. 1 TO 412

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER - 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEGD
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 25 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEX® STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
STREAMER TENSIONS	- 6000 KG AVERAGE
COVERAGE	- 60 FOLD - 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLING	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- T**2 GAIN FUNCTION FROM 1.0 TO 4.0 SECONDS. SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH: 96 MSECS START TIMES(MSECS): 410 480 960 3975 START TIMES(MSECS): 0 480 800 2900
VELOCITY FILTERING (VR)	- USING DIPS OF +31/-3 MSEC/TR IN THE SHOT DOMAIN
DECONVOLUTION (VR)	- SPIKING, MINIMUM PHASE USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES
DEMULTIPLE	- LOCATED EVERY 2 KM HORIZONTAL-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700& METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH: 96 MSECS START TIMES(MSECS): 390 480 480 3975 END TIMES(MSECS): 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH: 96 MSECS START TIMES(MSECS): 400 520 1290 1300 END TIMES(MSECS): 800 1000 2900 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF-F-K DOMAIN - DIP LIMIT - 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 40 900 8 - 50 1500 6 - 50 2500 6 - 45 2500 6 - 40 3000 5 - 35 3000 5 - 30 3000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 33.869986 TR/IN — 33.333328 TR/KM
VERTICAL SCALE	- 3 INCHES/SEC IN 1 SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 0.0 PERCENT
DATUM	- MEAN SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	SHOT
10%	10%
50%	50%
95%	95%

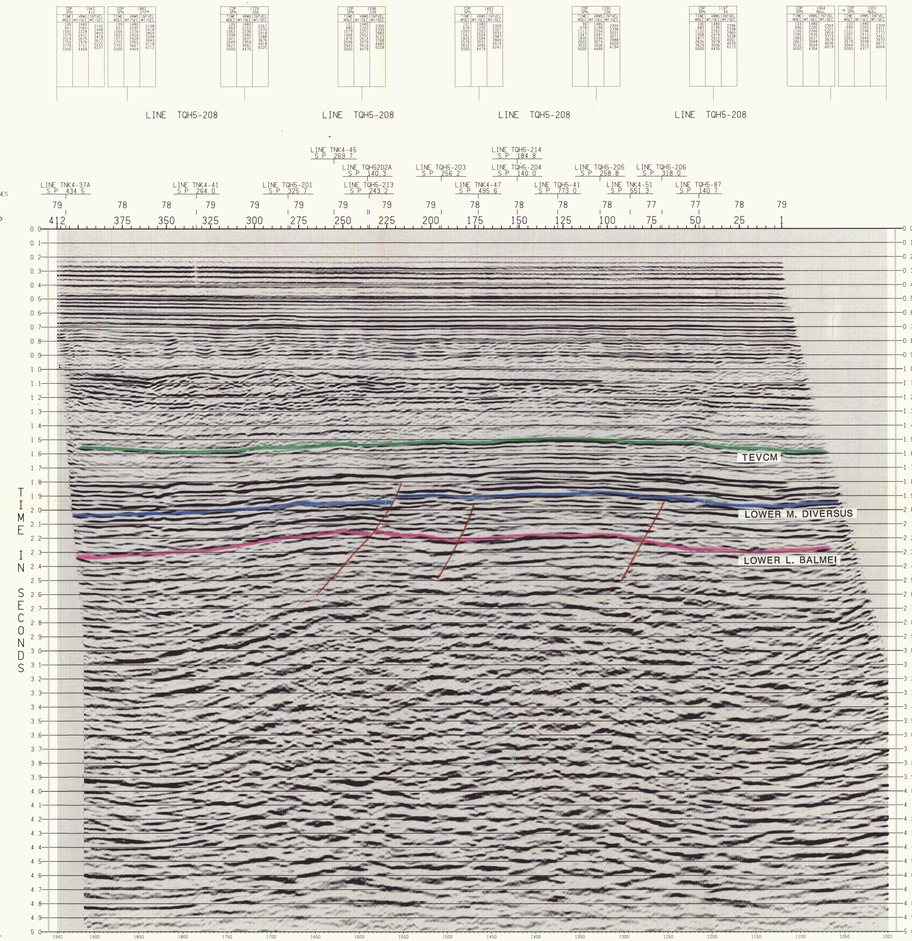
09 JAN 1986
10.22.26

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -





LINE TQH5-208
S.P. 1 TO 412

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER - 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE 4 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEGD
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 25 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEX® STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
STREAMER TENSIONS	- 6000 KG AVERAGE
COVERAGE	- 60 FOLD - 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLING	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- T**2 GAIN FUNCTION FROM 1.0 TO 4.0 SECONDS. SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH: 96 MSECS START TIMES(MSECS): 410 480 960 3975 START TIMES(MSECS): 0 480 800 2900
VELOCITY FILTERING (VR)	- USING DIPS OF +31/-3 MSEC/TR IN THE SHOT DOMAIN
DECONVOLUTION (VR)	- SPIKING, MINIMUM PHASE USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES
DEMULTIPLE	- LOCATED EVERY 2 KM HORIZONTAL-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700& METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH: 96 MSECS START TIMES(MSECS): 390 480 480 3975 END TIMES(MSECS): 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH: 96 MSECS START TIMES(MSECS): 400 520 1290 1300 END TIMES(MSECS): 800 1000 2900 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF-F-K DOMAIN - DIP LIMIT - 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 40 900 8 - 50 1500 6 - 50 2500 6 - 45 2500 6 - 40 3000 5 - 35 3000 5 - 30 3000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 67.650000 TR/IN — 66.666667 TR/KM
VERTICAL SCALE	- 3 INCHES/SEC IN 1 SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS - WTVAR	- 0.0 PERCENT
DATUM	- MEAN SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	SHOT
10%	10%
50%	50%
95%	95%

09JAN86 10.13.08

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

LINE TQH5-208
S.P. 1 TO 412
MIGRATED STACK
TIME IN SECONDS
ABOVE: AUSTRALIA PETROLEUM COMPANY
1985B AMOCO BASS BASIN SURVEY

OE.278

ENCLOSURE 12

LINE TQH5-209A
S.P. 1 TO 533

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES → DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 7931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 8.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 53.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 60 METRES
SHOTPOINT INTERVAL	- 50 METRES 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIVISION STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
FOLD/HYDROPHONES	- 60 FOLD, 240 TRACE
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

SPREAD DIAGRAM



DIGITAL PROCESSING

POLARITY CONVENTION	- THE POLARITY OF THE FIELD RECORDING WAS MAINTAINED THROUGHOUT THE PROCESSING AND DISPLAY
PROCESSING RECORD LENGTH	- 8.0 SECONDS
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAYS -51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- SPHERICAL DIVERGENCE FROM 0 TO 4.0 SECONDS; SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH =96 MSECS OFFSETS(METRES) 410 - 480 960 - 3975 START TIMES(MSECS) 0 - 400 800 - 2900
VELOCITY FILTERING (VR)	- USING DIPS OF +32°/-9 MSEC/FOR IN THE SHOT DOMAIN
DESIGNATURE (DE)	- WITH POLYSTONE RAMPING - USING OFFSET-DEPENDENT WAVELET, TMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 87068 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSS CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS -12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH =96 MSECS OFFSETS(METRES) 390 - 400 480 3975 START TIMES(MSECS) 0 - 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH =96 MSECS OFFSETS(METRES) 400 - 520 1290 1300 START TIMES(MSECS) -100 - 100 -100 -100 END TIMES(MSECS) 800 - 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN DIP LIMIT 80 DEGREES ANNOTATED VELOCITIES AND MIGRATED VELOCITIES
DIPCON	- DIP ANGLE 15 DEGREES ADD BACK NOISE LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 900 8 - 60 1500 8 - 45 2500 6 - 40 3500 6 - 35 4500 6 - 30 5500
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 83.969896 TR/IN 33.333328 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE BIAS	- WTVAR 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

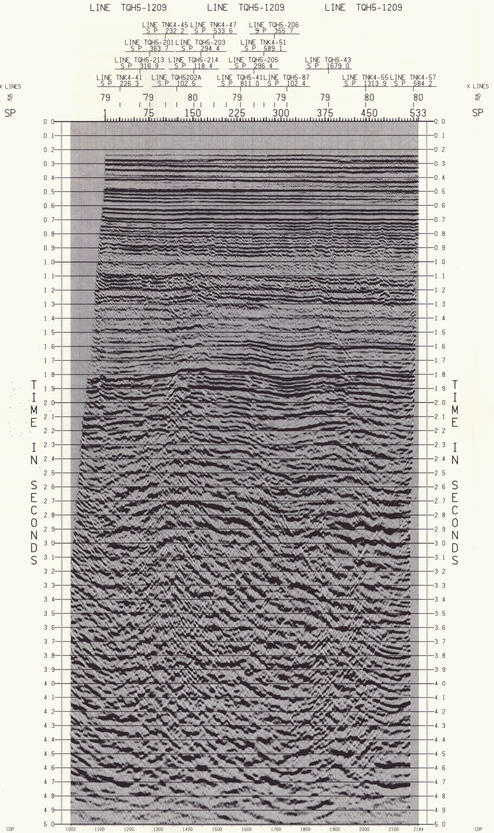
CDP	ALL
99.6	6

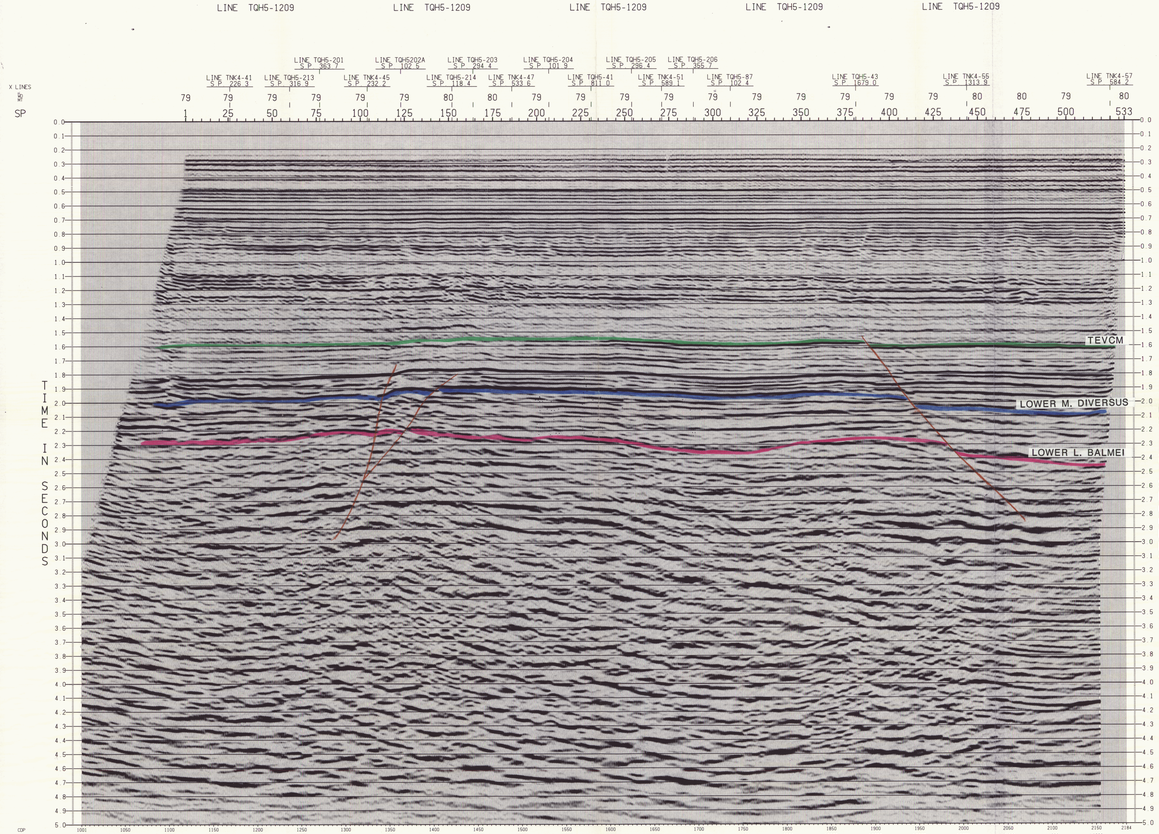
06 JAN 1986
20 28 33

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -





LINE TQH5-209A
S.P. 1 TO 533

314019

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES → DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 7931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 8.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 53.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 60 METRES
SHOTPOINT INTERVAL	- 50 METRES 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIVISION STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
FOLD/HYDROPHONES	- 60 FOLD, 240 TRACE
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

SPREAD DIAGRAM



DIGITAL PROCESSING

POLARITY CONVENTION	- THE POLARITY OF THE FIELD RECORDING WAS MAINTAINED THROUGHOUT THE PROCESSING AND DISPLAY
PROCESSING RECORD LENGTH	- 8.0 SECONDS
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAYS -51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- SPHERICAL DIVERGENCE FROM 0 TO 4.0 SECONDS; SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH =96 MSECS OFFSETS(METRES) 410 - 480 960 - 3975 START TIMES(MSECS) 0 - 400 800 - 2900
VELOCITY FILTERING (VR)	- USING DIPS OF +32°/-9 MSEC/FOR IN THE SHOT DOMAIN - WITH POLYSTONE RAMPING
DESIGNATURE (DE)	- USING OFFSET-DEPENDENT WAVELET, TMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 87068 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSS CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS -12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH =96 MSECS OFFSETS(METRES) 390 - 400 480 3975 START TIMES(MSECS) 0 - 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH =96 MSECS OFFSETS(METRES) 400 - 520 1290 1300 START TIMES(MSECS) -100 - 100 -100 -100 END TIMES(MSECS) 800 - 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN DIP LIMIT 80 DEGREES ANNOTATED VELOCITIES AND MIGRATED VELOCITIES
DIPCON	- DIP ANGLE 15 DEGREES ADD BACK NOISE LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 60 900 8 - 60 1500 8 - 45 2500 6 - 40 3500 6 - 35 4500 6 - 30 5500
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 83.969900 TR/IN 66.666657 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE BIAS	- WTVAR 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
99.6	6

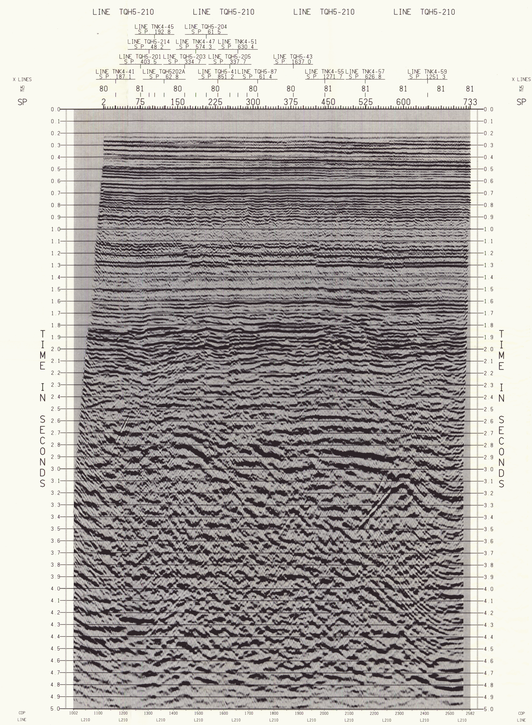
06 JAN 1986
20 18 57

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY - Michael Mangel

OE 278



LINE TQH5-210
S.P. 2 TO 733

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 — M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- SYNTRON DFS-V DIGITAL RECORDER
RECORDING FILTERS	- TRACE SEQUENTIAL RECORDING - 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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG B 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 6370 CU IN. AIRGUN ARRAY OPERATING AT 1800 PSI
SUN DELAY	- 13.0 MILLISECONDS
SHOT DEPTH	- 12 METRES
SOURCE TO ANTENNA DISTANCE	- 10 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 PSP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3000 METRES, 240 GROUPS, 12.5 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 8.0 METRES AVERAGE
HYDROPHONES	- 48 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

SPREAD DIAGRAM



DIGITAL PROCESSING

POLARITY CONVENTION	- THE POLARITY OF THE FIELD RECORDING HAS MAINTAINED THROUGHOUT THE PROCESSING AND DISPLAY
PROCESSING RECORD LENGTH	- 6.0 SECONDS
RECORDING SAMPLE PERIOD	- MIN/MAX PHASE, RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- 4 MILLISECONDS - 12.2 MSEC
AMPLITUDE RECOVERY(TAR)	- ALIGNMENT FIELD TRACES SUMMED 2 ON 1 - A 0 DB PCR SECOND FROM 0 TO 4.0 SECONDS
PRE DECONVOLUTION MUTE	- SPHERICAL DIVERGENCE CORRECTIONS APPLIED - RAMP LENGTH - 50 MSEC OFFSET(METRES) 410 480 960 3970
VELOCITY FILTERING (VF)	- START TIME(MSEC) 1 400 1200 1300 - USING OFFSET DEPENDENT MUTE WITH TH THE SHOT DOMAIN
DESIGNATURE (YES)	- USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELOCITY ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT OFF VELOCITY IN NEGATIVE F-K - LOCATED EVERY 2 KM
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELOCITY ANALYSES - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SUB-COMBINING	- SUB-COMBINE STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSEC OFFSET(METRES) 390 400 480 3970 START TIME(MSEC) 1 400 1200 1300
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSEC OFFSET(METRES) 400 520 1280 1300 START TIME(MSEC) 400 1200 1300 1300 END TIME(MSEC) 800 1600 2400 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES
VERSION 7.0 MODIFICATION	- ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIP/DIP	- DIP RANGE - 90 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- DIP ANGLE - 35 DEGREES - ADD BACK NOISE - LOW - FREQUENCY (HZ) TIME (MSEC) 0 80 3000 4 80 3000 6 80 3000 8 80 3000 10 80 3000 12 80 3000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING - 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.500986 TR/IN — 33.333328 TR/KM
VERTICAL SCALE	- 1 INCH = 1 SEC
POLARITY	- NORMAL
TRACE TYPE	BIAS - WIGGLE — 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.977353 LM

DISPLAY GAIN

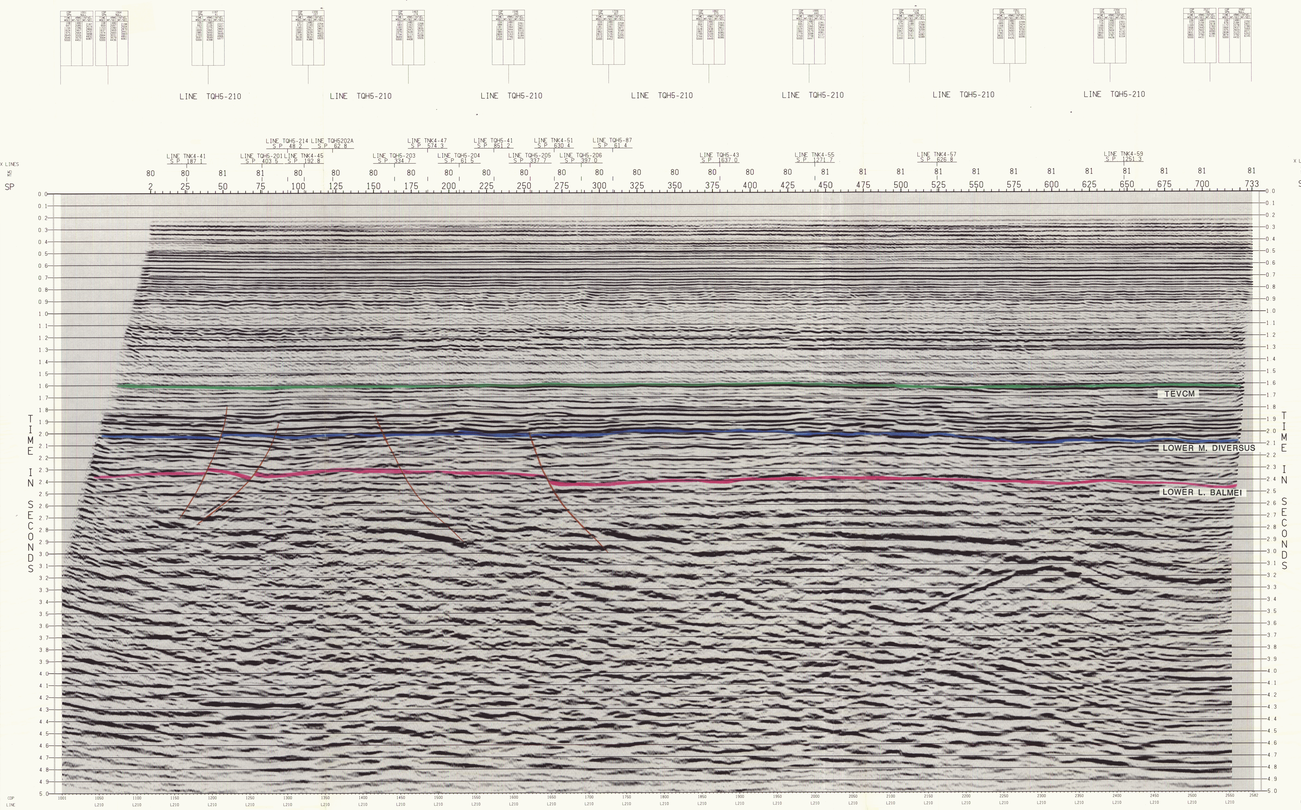
CDP	TIME
1.0	1.0
MPS	SEC

16 JAN 1986
00 47 49

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -



LINE TQH5-210
S.P. 2 TO 733

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

145 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 — M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- SYNTRON DFS-V DIGITAL RECORDER
RECORDING FILTERS	- TRACE SEQUENTIAL RECORDING - 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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG B 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 6370 CU IN. AIRGUN ARRAY OPERATING AT 1800 PSI
SUN DELAY	- 13.0 MILLISECONDS
SHOT DEPTH	- 12 METRES
SOURCE TO ANTENNA DISTANCE	- 10 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 PSP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3000 METRES, 240 GROUPS, 12.5 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 8.0 METRES AVERAGE
HYDROPHONES	- 48 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

SPREAD DIAGRAM



DIGITAL PROCESSING

POLARITY CONVENTION	- THE POLARITY OF THE FIELD RECORDING HAS MAINTAINED THROUGHOUT THE PROCESSING AND DISPLAY
PROCESSING RECORD LENGTH	- 6.0 SECONDS
RECORDING SAMPLE PERIOD	- MIN/MAX PHASE, RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- 4 MILLISECONDS - 12.2 MSEC
AMPLITUDE RECOVERY(TAR)	- ALIGNMENT FIELD TRACES SUMMED 2 ON 1 - A 0 DB PCR SECOND FROM 0 TO 4.0 SECONDS
PRE DECONVOLUTION MUTE	- SPHERICAL DIVERGENCE CORRECTIONS APPLIED - RAMP LENGTH - 50 MSEC OFFSET(METRES) 410 480 960 3970
VELOCITY FILTERING (VF)	- START TIME(MSEC) 1 400 1200 1300 - USING OFFSET DEPENDENT MUTE WITH TH THE SHOT DOMAIN
DESIGNATURE (YES)	- USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELOCITY ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT OFF VELOCITY IN NEGATIVE F-K - LOCATED EVERY 2 KM
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELOCITY ANALYSES - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SUB-COMBINING	- SUB-COMBINE STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSEC OFFSET(METRES) 390 400 480 3970 START TIME(MSEC) 1 400 1200 1300
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSEC OFFSET(METRES) 400 520 1280 1300 START TIME(MSEC) 400 1200 1300 1300 END TIME(MSEC) 800 1600 2400 6000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES
VERSION 7.0 MODIFICATION	- ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIP/DIP	- DIP RANGE - 90 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- DIP ANGLE - 35 DEGREES - ADD BACK NOISE - LOW - FREQUENCY (HZ) TIME (MSEC) 0 80 3000 4 80 3000 6 80 3000 8 80 3000 10 80 3000 12 80 3000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING - 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 62.500000 TR/IN — 16.666667 TR/KM
VERTICAL SCALE	- 1 INCH = 1 SEC
POLARITY	- NORMAL
TRACE TYPE	BIAS - WIGGLE — 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.977353 LM

DISPLAY GAIN

CDP	TIME
1.0	1.0
MPS	SEC

16 JAN 1986
00 27 20

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

314020
02.278

LINE TQH5-211
S.P. 1 TO 323

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

117 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG-REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES ; 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES; 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- 240 CHANNEL MULTI-TIP STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD ; 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY -51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS CORRECTIONS APPLIED OFFSETS(METRES): 410 . 480 . 960 . 3975 START TIMES(MSECS): 0 . 400 . 800 . 2900
VELOCITY FILTERING (VE)	- USING DIPS OF -117/-3 MSEC/TR IN THE SHOT DOMAIN WITH FULL COSINE RAMPING
VELOCITY ANALYSIS	- USING OFFSET-DEPENDENT WAVELET, FMAX=125 HZ - USING 11 DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSETS(METRES): 390 . 400 . 480 . 3975 START TIMES(MSECS): 0 . 180 . 400 . 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSETS(METRES): 400 . 520 . 1290 . 1300 START TIMES(MSECS): -100 . -100 . -100 . -100 END TIMES(MSECS): 800 . 1000 . 2900 . 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES - ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES.
RIPCON	- DIP ANGLE - 35 DEGREES; 400 BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 0 10 - 60 900 8 - 50 1500 8 - 45 2500 8 - 40 3000 6 - 40 3500 6 - 35 3500 6 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.969986 TR/IN 33.333328 TR/KM
VERTICAL SCALE	- 3.760000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WTVAR 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

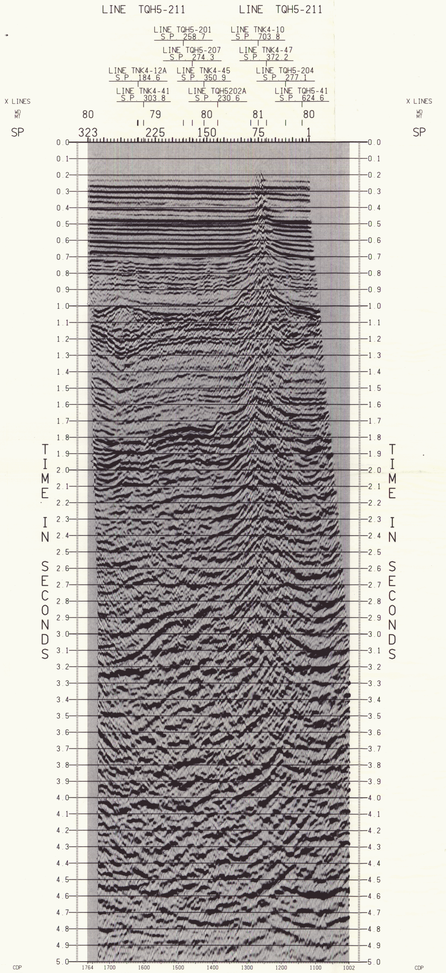
INPUT	
CDP	ALL
GAIN	TIME
DB	MSEC
49.0	0

07 JAN 1986
14 21 09

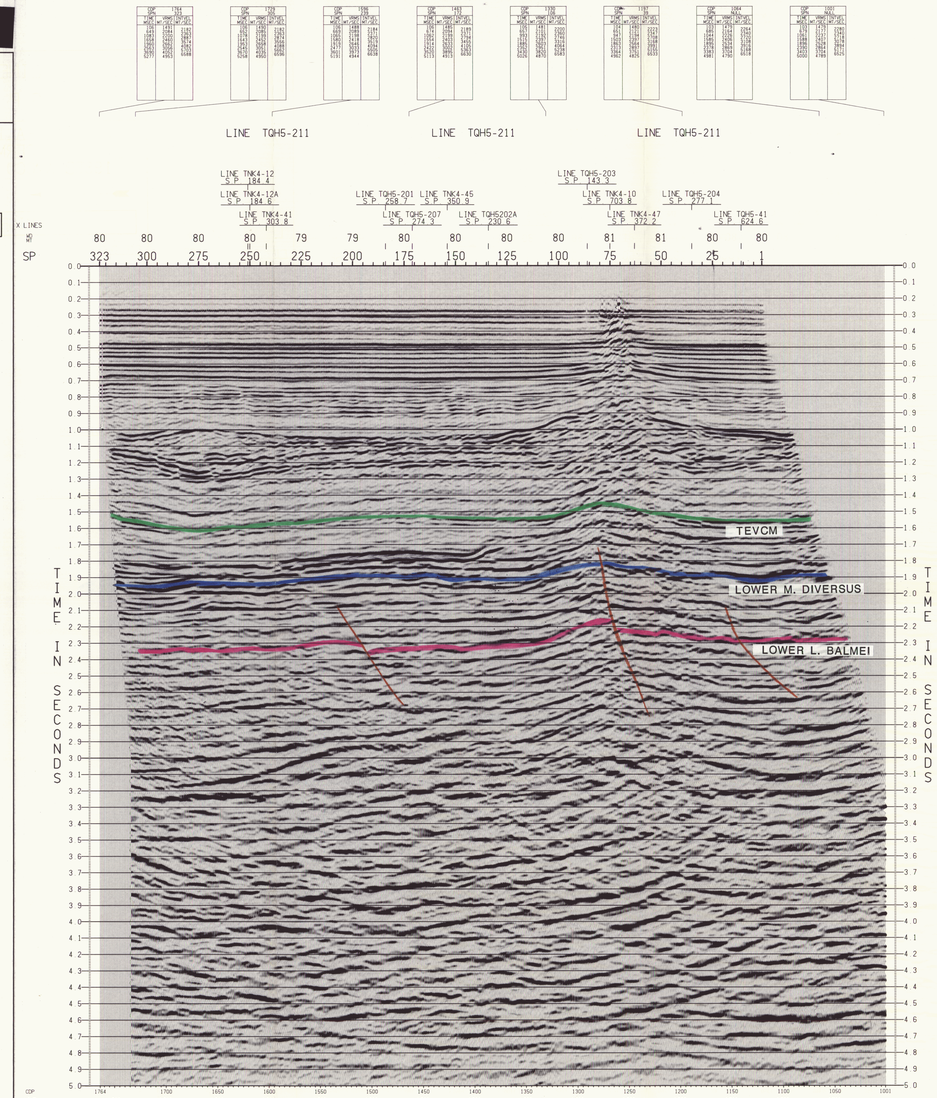
PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -



AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY



LINE TQH5-211
S.P. 1 TO 323

314021

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

117 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG-REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES ; 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES; 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- 240 CHANNEL MULTI-TIP STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD ; 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY -51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS CORRECTIONS APPLIED OFFSETS(METRES): 410 . 480 . 960 . 3975 START TIMES(MSECS): 0 . 400 . 800 . 2900
VELOCITY FILTERING (VE)	- USING DIPS OF -117/-3 MSEC/TR IN THE SHOT DOMAIN WITH FULL COSINE RAMPING
VELOCITY ANALYSIS	- USING OFFSET-DEPENDENT WAVELET, FMAX=125 HZ - USING 11 DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES - LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSETS(METRES): 390 . 400 . 480 . 3975 START TIMES(MSECS): 0 . 180 . 400 . 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSETS(METRES): 400 . 520 . 1290 . 1300 START TIMES(MSECS): -100 . -100 . -100 . -100 END TIMES(MSECS): 800 . 1000 . 2900 . 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES - ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES.
RIPCON	- DIP ANGLE - 35 DEGREES; 400 BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 0 10 - 60 900 8 - 50 1500 8 - 45 2500 8 - 40 3000 6 - 40 3500 6 - 35 3500 6 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

6 cm

DISPLAY

HORIZONTAL SCALE	- 42.660000 TR/IN 66.666657 TR/KM
VERTICAL SCALE	- 3.760000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WTVAR 0.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

INPUT	
CDP	ALL
GAIN	TIME
DB	MSEC
47.5	0

07 JAN 1986
14 13 59

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

Qe 278

LINE TQH5-212
S.P. 1 TO 343

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

121 DEGREES → DIRECTION SHOT

MIGRATED STACK

LINE TQH5-212 LINE TQH5-212

LINE TQH5202A S.P. 190.7 | LINE TQH5-204 S.P. 228.0 | LINE TQH5-206 S.P. 193.8
LINE TNK4-45 S.P. 211.3 | LINE TNK4-47 S.P. 418.5 | LINE TNK4-10 S.P. 597.1
LINE TNK4-12A S.P. 255.0 | LINE TQH5-207 S.P. 185.2 | LINE TNK4-51 S.P. 436.2
LINE TQH5-201 S.P. 298.2 | LINE TQH5-203 S.P. 188.5 | LINE TQH5-205 S.P. 151.2

X LINES 55 SP

80 79 79 80 79 80 80
1 75 150 225 343

TIME IN SECONDS

COP LINE

1002 1100 1200 1300 1400 1500 1600 1700 1804
L212 L212 L212 L212 L212 L212 L212 L212

MIGRATED STACK

LINE TQH5-212
S.P. 1 TO 343

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE - 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE - 6 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE.(SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D, 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT COP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIFLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(M/METRES) 410 - 480 - 960 - 3975 START TIME(S/MSECS) 0 - 180 - 800 - 2900
VELOCITY FILTERING (V6)	- USING DIPS OF +17.3 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (V6)	- WITH FULL COSINE RAMPING - USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700± METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(M/METRES) 390 - 400 - 480 - 3975 START TIME(S/MSECS) 0 - 180 - 400 - 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(M/METRES) 400 - 520 - 1290 - 1300 START TIME(S/MSECS) -100 - -100 - -100 - -100 END TIME(S/MSECS) 800 - 1000 - 2900 - 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES - ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 0 10 - 60 800 8 - 60 1500 8 - 45 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.969986 TR/IN 33.333328 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WTVAR - 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
GAIN	LINE
69.4	40.0

07 JAN 1986
14 22 04

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

LINE TQH5-212 LINE TQH5-212 LINE TQH5-212 LINE TQH5-212 LINE TQH5-212

LINE TNK4-12A S.P. 255.0 | LINE TQH5202A S.P. 190.7 | LINE TNK4-47 S.P. 418.5 | LINE TQH5-206 S.P. 193.8
LINE TQH5-201 S.P. 298.2 | LINE TNK4-45 S.P. 211.3 | LINE TQH5-207 S.P. 185.2 | LINE TQH5-41 S.P. 675.2 | LINE TNK4-51 S.P. 436.2
LINE TQH5-203 S.P. 188.5 | LINE TQH5-204 S.P. 228.0 | LINE TQH5-205 S.P. 151.2 | LINE TNK4-10 S.P. 597.1 | LINE TQH5-87 S.P. 273.6

X LINES 55 SP

80 80 79 79 80 80 79 79 80 79 80 80 79 80 79 80
1 25 50 75 100 125 150 175 200 225 250 275 300 343

TEVCM

LOWER M. DIVERSUS

LOWER L. BALMEI

TIME IN SECONDS

COP LINE

1001 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1804
L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212 L212

LINE TQH5-212
S.P. 1 TO 343 314022

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
RECORDING FILTERS	- HIGH-CUT FILTER AND SLOPE - 128 HZ @ 72 DB/OCTAVE LOW-CUT FILTER AND SLOPE - 6 HZ @ 18 DB/OCTAVE
RECORDING POLARITY	- A POSITIVE PRESSURE AT THE HYDROPHONE PRODUCES A POSITIVE NUMBER ON TAPE.(SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D, 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 50 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT COP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIFLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(M/METRES) 410 - 480 - 960 - 3975 START TIME(S/MSECS) 0 - 400 - 800 - 2900
VELOCITY FILTERING (V6)	- USING DIPS OF +17.3 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (V6)	- WITH FULL COSINE RAMPING - USING OFFSET DEPENDENT WAVELET - FMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 8700± METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(M/METRES) 390 - 400 - 480 - 3975 START TIME(S/MSECS) 0 - 180 - 400 - 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(M/METRES) 400 - 520 - 1290 - 1300 START TIME(S/MSECS) -100 - -100 - -100 - -100 END TIME(S/MSECS) 800 - 1000 - 2900 - 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES - ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES - ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 0 10 - 60 800 8 - 60 1500 8 - 45 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

5 cm

DISPLAY

HORIZONTAL SCALE	- 42.650000 TR/IN 66.666667 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE - BIAS	- WTVAR - 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN

CDP	ALL
GAIN	LINE
69.4	40.0

07 JAN 1986
14 07 55

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

02278

LINE TQH5-212
S.P. 1 TO 343

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

ENCLOSURE 16

LINE TQH5-213
S.P. 1 TO 393

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

114 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985.
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 30 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES - 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC ADJACENT TRACE SUM - ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH 96 MSECS OFFSET(SI METRES) 410 480 960 3976 START TIME(SI MSECS) 0 180 400 3200
VELOCITY FILTERING (VF)	- USING DIPS OF +17.3 MSEC/TR IN THE SHOT DOMAIN WITH FUEL-COSINE-RAMPING
DESIGNATURE (VE)	- WIENER-FUEL DEPENDENT WAVELET TMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 6705 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES, LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH 96 MSECS OFFSET(SI METRES) 390 400 480 3976 START TIME(SI MSECS) 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH 96 MSECS OFFSET(SI METRES) 400 520 1290 1300 START TIME(SI MSECS) 100 100 100 100 END TIME(SI MSECS) 800 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD COP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 900 10 - 60 1500 8 - 60 1500 8 - 50 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.969896	TR/IN	33.333328 TR/CM
VERTICAL SCALE	- 3.750000	IN / SEC	
POLARITY	- NORMAL		
TRACE TYPE - BIAS	- WTVAR - 5.0 PERCENT		
DATUM	- SEA LEVEL		
DISPLAY UNIT	- 0.677333 CM		

DISPLAY GAIN

INPUT	
CDP	%%
OUTPUT	
99.5	5

09 JAN 1986
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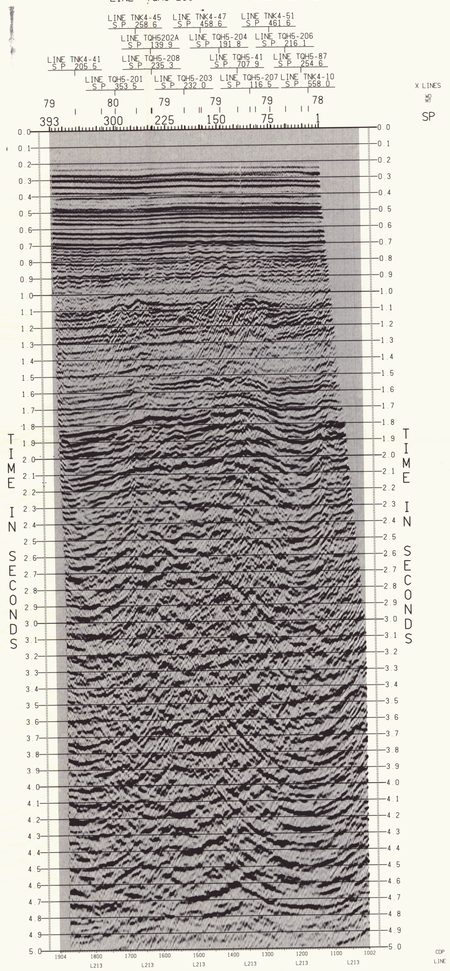
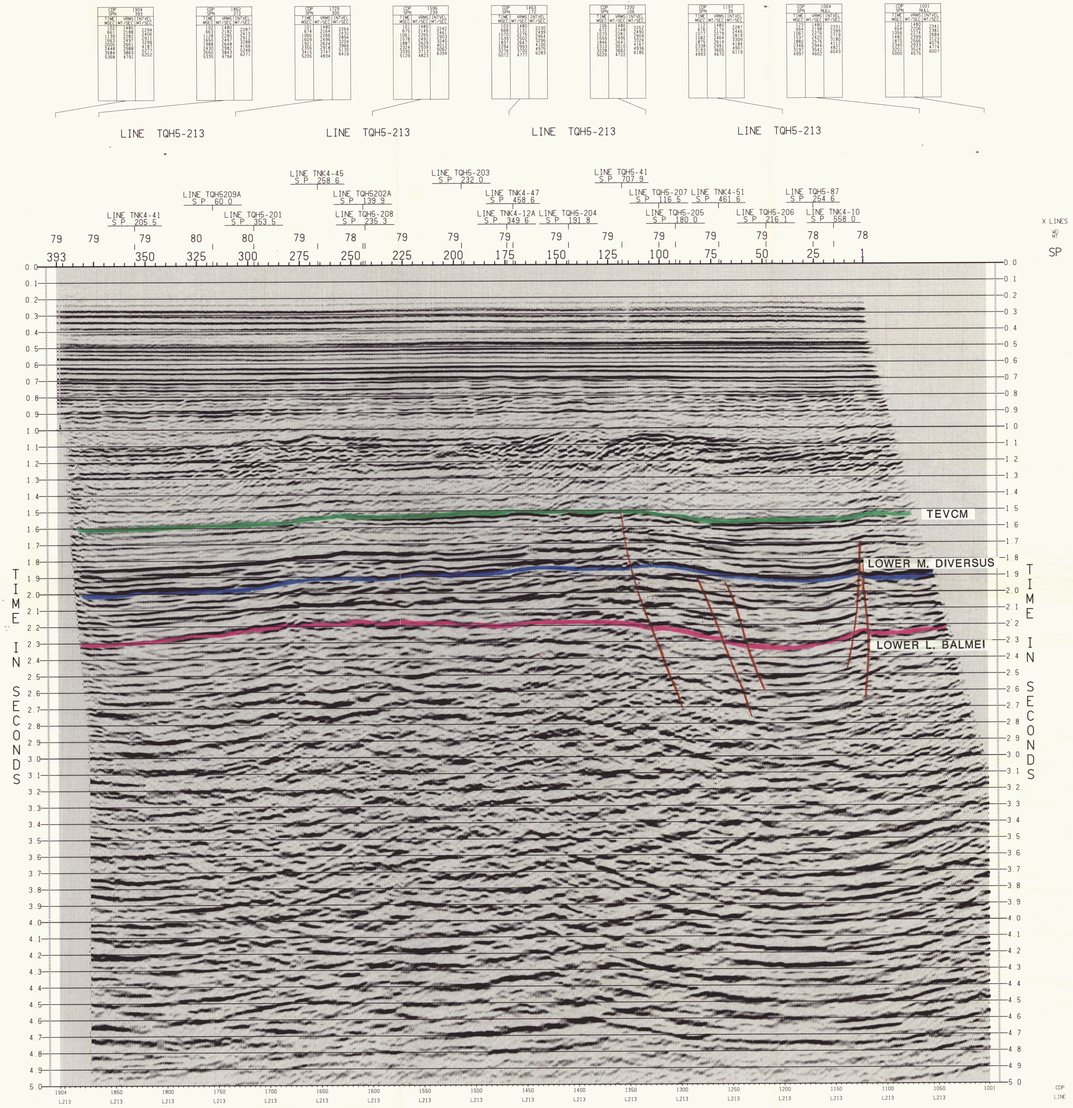
PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -





LINE TQH5-213
S.P. 1 TO 393
314023

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

114 DEGREES — DIRECTION SHOT

MIGRATED STACK

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985.
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 6250 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE.
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 30 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION.
STREAMER LENGTH	- 3600 METRES - 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO
BACKUP NAVIGATION SYSTEM	- SYLEDIS

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
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH 96 MSECS OFFSET(SI METRES) 410 480 960 3976 START TIME(SI MSECS) 0 180 400 3200
VELOCITY FILTERING (VF)	- USING DIPS OF +17.3 MSEC/TR IN THE SHOT DOMAIN
DESIGNATURE (VE)	- WIENER-FUEL DEPENDENT WAVELET TMAX=125 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 6705 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH 96 MSECS OFFSET(SI METRES) 390 400 480 3976 START TIME(SI MSECS) 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH 96 MSECS OFFSET(SI METRES) 400 520 1290 1300 START TIME(SI MSECS) 100 100 100 100 END TIME(SI MSECS) 800 1000 2900 6000
COMMON DEPTH POINT STACK	- 60 FOLD COP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN - DIP LIMIT - 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE - 35 DEGREES ADD BACK NOISE - LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 900 10 - 60 1500 8 - 60 1500 8 - 50 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 4000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 42.650000	TR/IN	66.666667 TR/CM
VERTICAL SCALE	- 3.750000	IN / SEC	
POLARITY	- NORMAL		
TRACE TYPE - BIAS	- WTVAR - 5.0 PERCENT		
DATUM	- SEA LEVEL		
DISPLAY UNIT	- 0.677333 CM		

DISPLAY GAIN

INPUT	
CDP	%%
OUTPUT	
99.5	5

09 JAN 1986
10 38 13

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

MIGRATED STACK

LINE TQH5-213
S.P. 1 TO 393

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

OE 278

ENCLOSURE 17

LINE TQH5-214
S.P. 1 TO 373

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

111 DEGREES → ← DIRECTION SHOT

MIGRATED STACK

LINE TQH5-214 LINE TQH5-214

LINE TQH5202A S.P. 83.8 | LINE TQH5-204 S.P. 140.0 | LINE TQH5-207 S.P. 45.5
LINE TNK4-45 S.P. 200.2 | LINE TQH5-208 S.P. 151.3 | LINE TQH5-206 S.P. 261.7
LINE TQH5-210 S.P. 92.8 | LINE TNK4-47 S.P. 210.2 | LINE TQH5-205 S.P. 227.4
LINE TQH5-201 S.P. 413.9 | LINE TQH5209A S.P. 151.9 | LINE TQH5-41 S.P. 757.7 | LINE TQH5-87 S.P. 210.8

X LINES 79 79 79 80 80 79 SP
1 75 150 225 300 373

TIME IN SECONDS

CDP LINE: 1002 1100 1200 1300 1400 1500 1600 1700 1800 1864
L214 L214 L214 L214 L214 L214 L214 L214 L214

MIGRATED STACK

LINE TQH5-214
S.P. 1 TO 373

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

FIELD DATA

DATA SHOT BY	- G.S.I. PARTY 2931 M.V. EUGENE MCDERMOTT II
DATE SHOT	- OCTOBER, 1985
RECORDING INSTRUMENTS	- TRACE SEQUENTIAL RECORDER
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 POSITIVE NUMBER ON TAPE (SEG REVERSE POLARITY)
DIGITAL TAPE FORMAT	- SEG D 8058 BPI PHASE ENCODED
RECORD LENGTH / SAMPLE RATE	- 6.0 SECONDS AT 2 MILLISECOND SAMPLE RATE
ENERGY SOURCE	- 4075 CU. IN. AIRGUN ARRAY OPERATING AT 1800 PSI
GUN DELAY	- 51.2 MILLISECONDS
SOURCE DEPTH	- 10 METRES AVERAGE
SOURCE TO ANTENNA DISTANCE	- 62 METRES
SHOTPOINT INTERVAL	- 30 METRES - 1 POP PER SHOTPOINT
SHOTPOINT ANNOTATION	- SHOTPOINTS ANNOTATED AT CDP POSITION
STREAMER LENGTH	- 3600 METRES, 240 GROUPS, 15 METRE GROUP INTERVAL
STREAMER TYPE	- G.S.I. MULTIPLEXOR STREAMER
STREAMER DEPTH	- 12 METRES AVERAGE
HYDROPHONES	- 40 PER GROUP
COVERAGE	- 60 FOLD, 240 TRACE
PRIMARY NAVIGATION SYSTEM	- ARGO.
BACKUP NAVIGATION SYSTEM	- SYLEDIS

SPREAD DIAGRAM



DIGITAL PROCESSING

POLARITY CONVENTION	- THE POLARITY OF THE FIELD RECORDING WAS MAINTAINED THROUGHOUT THE PROCESSING AND DISPLAY
PROCESSING RECORD LENGTH	- 5.0 SECONDS
RESAMPLE	- MINIMUM PHASE RESAMPLE FROM 2 TO 4 MSEC
PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
ADJACENT TRACE SUM	- ADJACENT FIELD TRACES SUMMED 2 ON 1
AMPLITUDE RECOVERY(TAR)	- 4.0 DB PER SECOND FROM 0 TO 4.0 SECONDS SPHERICAL DIVERGENCE CORRECTIONS APPLIED
PRE DECONVOLUTION MUTE	- RAMP LENGTH - 96 MSECS OFFSET(SMETRES) 410 480 960 3975 START TIME(SMSECS) 0 400 800 2900
VELOCITY FILTERING (V6)	- USING DIPS OF -11/+3 MSEC/TR IN THE SHOT DOMAIN WITH FULL COSINE RAMPING
DESIGNATURE (V6)	- USING OFFSET DEPENDENT WAVELET. FMAX=126 HZ
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
DEMULTIPLE	- HORIZONTAL CUT-OFF VELOCITY IN NEGATIVE F-K QUADRANT 07066 METRES/SECOND
VELOCITY ANALYSIS	- USING 11 DEPTH POINT VELSCAN ANALYSES LOCATED EVERY 2 KM
NORMAL MOVEOUT CORRECTION	- USING ANNOTATED VELOCITIES
SSD CORRECTIONS	- SHOT & STREAMER STATIC CORRECTIONS - 12 MSEC
FIRST BREAK SUPPRESSION	- RAMP LENGTH - 96 MSECS OFFSET(SMETRES) 390 400 480 3975 START TIME(SMSECS) 0 180 400 3200
INSIDE-TRACE MUTING	- RAMP LENGTH - 96 MSECS OFFSET(SMETRES) 400 520 1280 1300 START TIME(SMSECS) -100 -100 -100 -100 END TIME(SMSECS) 800 1000 2900 5000
COMMON DEPTH POINT STACK	- 60 FOLD CDP STACK
WAVE EQUATION MIGRATION (VERSION 7.2)	- KIRCHHOFF F/K DOMAIN DIP LIMIT 90 DEGREES ANNOTATED VELOCITIES ARE MIGRATED VELOCITIES
DIPCON	- DIP ANGLE 35 DEGREES ADD BACK NOISE LOW
TIME VARIANT FILTERING	- FREQUENCY (HZ) TIME (MSEC) 10 - 70 0 10 - 60 900 8 - 50 1500 8 - 45 2000 8 - 40 2500 6 - 40 3000 6 - 35 3500 6 - 30 5000
TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

DISPLAY

HORIZONTAL SCALE	- 63.969986 TR/IN 33.333328 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE BIAS	- WTVAR 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN (INPUT): CDP 47.5, FILM 95.0, TAPE 5

07 JAN 1986
14 06 47

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

LINE TQH5-214 LINE TQH5-214 LINE TQH5-214 LINE TQH5-214

LINE TQH5-204 S.P. 140.0 | LINE TNK4-51 S.P. 508.6
LINE TQH5-210 S.P. 92.8 | LINE TQH5202A S.P. 83.8 | LINE TQH5-203 S.P. 285.7 | LINE TQH5-208 S.P. 151.3 | LINE TNK4-12A S.P. 427.0 | LINE TQH5-87 S.P. 210.8
LINE TQH5-201 S.P. 413.9 | LINE TNK4-45 S.P. 200.2 | LINE TQH5209A S.P. 151.9 | LINE TNK4-47 S.P. 210.2 | LINE TQH5-41 S.P. 757.7 | LINE TQH5-205 S.P. 227.4 | LINE TQH5-206 S.P. 261.7 | LINE TQH5-207 S.P. 45.5

X LINES 79 79 79 79 80 80 79 80 80 79 79 80 80 79 SP
1 25 50 75 100 125 150 175 200 225 250 275 300 325 350 373

TIME IN SECONDS

TEVCM
LOWER M. DIVERSUS
LOWER L. BALMEI

CDP LINE: 1001 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1864
L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214 L214

MIGRATED STACK

LINE TQH5-214
S.P. 1 TO 373

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

02-278

LINE TQH5-214
S.P. 1 TO 373
314024

AMOCO AUSTRALIA PETROLEUM COMPANY
PERMIT T-14-P
1985B AMOCO BASS BASIN SURVEY

111 DEGREES → ← DIRECTION SHOT

MIGRATED STACK

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PROCESSING SAMPLE PERIOD	- 4 MILLISECONDS
STATIC CORRECTIONS	- AIRGUN DELAY - 51.2 MSEC
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TIME VARIANT SCALING	- DIGITAL GAIN CONTROL SCALING 1000 MSEC GATE

5 cm

DISPLAY

HORIZONTAL SCALE	- 42.660000 TR/IN 66.666667 TR/KM
VERTICAL SCALE	- 3.750000 IN / SEC
POLARITY	- NORMAL
TRACE TYPE BIAS	- WTVAR 5.0 PERCENT
DATUM	- SEA LEVEL
DISPLAY UNIT	- 0.677333 CM

DISPLAY GAIN (INPUT): CDP 47.5, FILM 95.0, TAPE 5

07 JAN 1986
13 05 17

PARTY 6860

GEOPHYSICAL SERVICE INC
A SUBSIDIARY OF TEXAS INSTRUMENTS INCORPORATED

PROCESSING CHECKED BY -

N ■ VSN 020294 APEMSKB214AAA011 TVF7000S 0013 FRAME 001 OF 001 01:11:84-11:22:562

APEMSKB214AAA011 TVF7000F 0008 FRAME 001 OF 002 07JAN86 14:03:13 VSN 022562 APEMSKB214AAA011 TVF7000F 0008 01:11:84-16:14

XA-87862-1

MAP HISTORY

INTERPRETER	DATE	FILM FILE No.

SYMBOLS

- LOCATION
- DRILLING
- DRY HOLE
- GAS WELL
- OIL WELL
- GAS/OIL WELL
- GAS/CONDENSATE
- GAS SHOW
- OIL SHOW
- VELOCITY SURVEY
- VSP SURVEY
- WELL PENETRATED HORIZON
- PRODUCTION AT OR DEEPER THAN MAPPED HORIZON

CONTOURS/FAULTS

- RELIABLE (G, F)
- RELIABLE (P)
- UNRELIABLE (VP, ?)
- GEOLOGICAL
- NORMAL FAULT TRACE LENGTH DEPENDENT ON THRUST FAULT LOCATION RELIABILITY

QUALIFICATION OF CONTOURED DIP MAGNITUDE/FAULT EVIDENCE

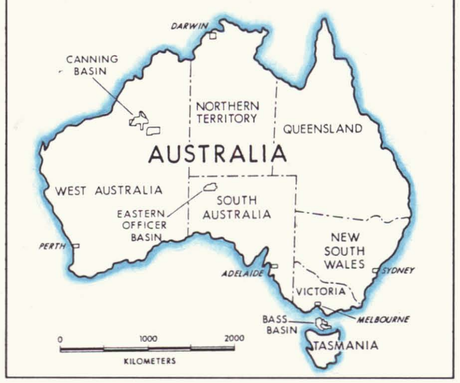
RELIABILITY DEGREE	POSSIBLE ERROR RANGE
RELIABLE (G, F)	0 TO ±20%
RELIABLE (P)	±20% TO ±50%
UNRELIABLE (VP, ?)	>±50%

(GEOLOGICAL (-) SEISMIC (+) WRITE) SEISMIC TOO DEEP (-), SEISMIC TOO SHALLOW (-)

DESCRIPTION OF SEISMIC COVERAGE

AMOCO LINES (APPROVED)										TRADE LINES (MAPPED)									
OWC LINES NOS.	CONTRACTOR SOURCE	FOLD	SP INT	CDP INT	REMARKS					OWC LINES NOS.	CONTRACTOR SOURCE	FOLD	SP INT	CDP INT	REMARKS				

QUAD/SHEET INDEX



GRAPHIC SCALE

0 1 2 Km.

0 2 Mi.

CLASS I
CONFIDENTIAL

XA-87862-1

XA-87862-1

Amoco Australia Petroleum Company
Europe, Latin America & Far East Region
Houston, Texas

Type of map: TIME STRUCTURE	
Horizon: TOP EASTERNVIEW COAL MEASURES.	
Blocks(s)/Grid(s):	
Area/Country: BASS BASIN (AUSTRALIA)	
Interpreter(s): E. J. NEWMAN	Date: OCT, 1987
Scale: 1:25,000	Contour Intervals: 20 ms.
Remarks: TILANA	
Film File No.: FA-2034	E. Lopez

5 cm

314025

ENCLOSURE 18

8220