

**Second Quarter Report  
On  
Tasmanian Permit T/15P.**

Weaver Oil & Gas Corporation  
Australia

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Line B69A-3

Line B10

**TPR  
OR-194A**

208002

44/9/0

JMacD:CBH

~~hu~~  DIR.

~~§~~  I.B.J.

~~10~~  R.C.T.

3 NOV 1983

R.S.R.

Part 4  
 T/5/r

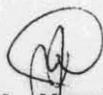
The Director,  
 Bureau of Mineral Resources,  
 P.O. Box 378,  
CANBERRA CITY, A.C.T. 2601

Dear Sir,

SECOND QUARTER REPORT - T/15P -  
 WEAVER OIL & GAS CORP., AUST.

I enclose for your information a copy of the abovementioned report covering the period 19th May to 19th August, 1983.

Yours faithfully,

  
 (H. Murchie)  
DIRECTOR OF MINES

Encl.

**WEAVER OIL AND GAS CORPORATION, AUSTRALIA****A Kaneb Company**

WALES CENTRE, 16th FLOOR, 109 ST GEORGE'S TERRACE,  
 PERTH (W. A.) AUSTRALIA 6000  
 TELEPHONE (09) 322-4499 TELEX AA 94209

September 18, 1983

Mr. H. Murchie  
 Director  
 Department of Mines  
 G.P.O. Box 124B  
 Hobart, Tasmania 7001

D of M	AG	AG	E.O.	D.S.M.E
Received Answered				Registrar
31 OCT 1983				E & IL
DEPT. OF MINES				
REF. No. 10,027/83				

*RUR*

RE: Second Quarter Report  
 on Tasmanian Permit T/15P  
 covering the period from  
 May 19, 1983 to August 19,  
 1983

Dear Mr. Murchie:

The geological and geophysical studies carried out by the Weaver staff in Houston is summarized below.

No test wells were drilled in the permit area within this quarterly reporting period.

Weaver has not received the completed seismic data carried out by the BMR over the past 18 months. We need all of the processed seismic lines on and adjoining our permits and two copies of an accurate base map. Also, we need the acquisition and processing parameters and any reports prepared by the Bureau as to its interpretation of the data. We hope that the processed seismic lines will show the intersection points with previous seismic lines.

Economic studies have been made of the Squid prospect, comparing it to the Tasmanian Devil prospect on Weaver's permit T/16P and other prospects. When the computer runs are completed, this data can be made available to the Department of Mines and to the BMR.

The Shearwater prospect, located in the southeast, has been studied as to its potential for oil or gas and its probable reservoir beds. Our studies indicate that the main areas under closure are of middle or upper Middle Cretaceous age and are therefore possibly too low in the stratigraphic column to contain the main producing zones of the Eastern View Coal Measures.

Since the main closure present at Shearwater is probably in these older, potentially tighter Cretaceous reservoir rocks, it has been decided that the prospect priority for the permit should be Squid first, and probably Chat second, with Shearwater and the nearby Sea Eagle rated about equally in third place.

Many old seismic lines in the Sea Eagle, Shearwater prospect areas were pulled and restudied to determine relative correlations from the M. diversus and below. Attempts were made to determine the age of the sediments that fill the thick fault block troughs on either side of the Sea Eagle and Shearwater structure. Seismic correlations are difficult across the large faults, but there are hundreds of feet of "extra" sedimentary section present in the troughs that is eroded (or was not deposited in some cases) off of such block faulted highs as Sea Eagle and Shearwater.

Sea Eagle, as now mapped, probably has over 35,000 acres of fault closure and the depth to the crest of the structure is about 4100 feet.

Possible migration out of the adjoining troughs onto the crests or flanks of the Sea Eagle and Shearwater closures offers reasonable chances for accumulation of hydrocarbons, for there are multiple unconformities present.

Very truly yours,



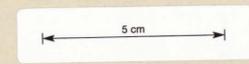
L. D. Ferrin  
President

LDF:mp

OR194A. *speed (most stable)*

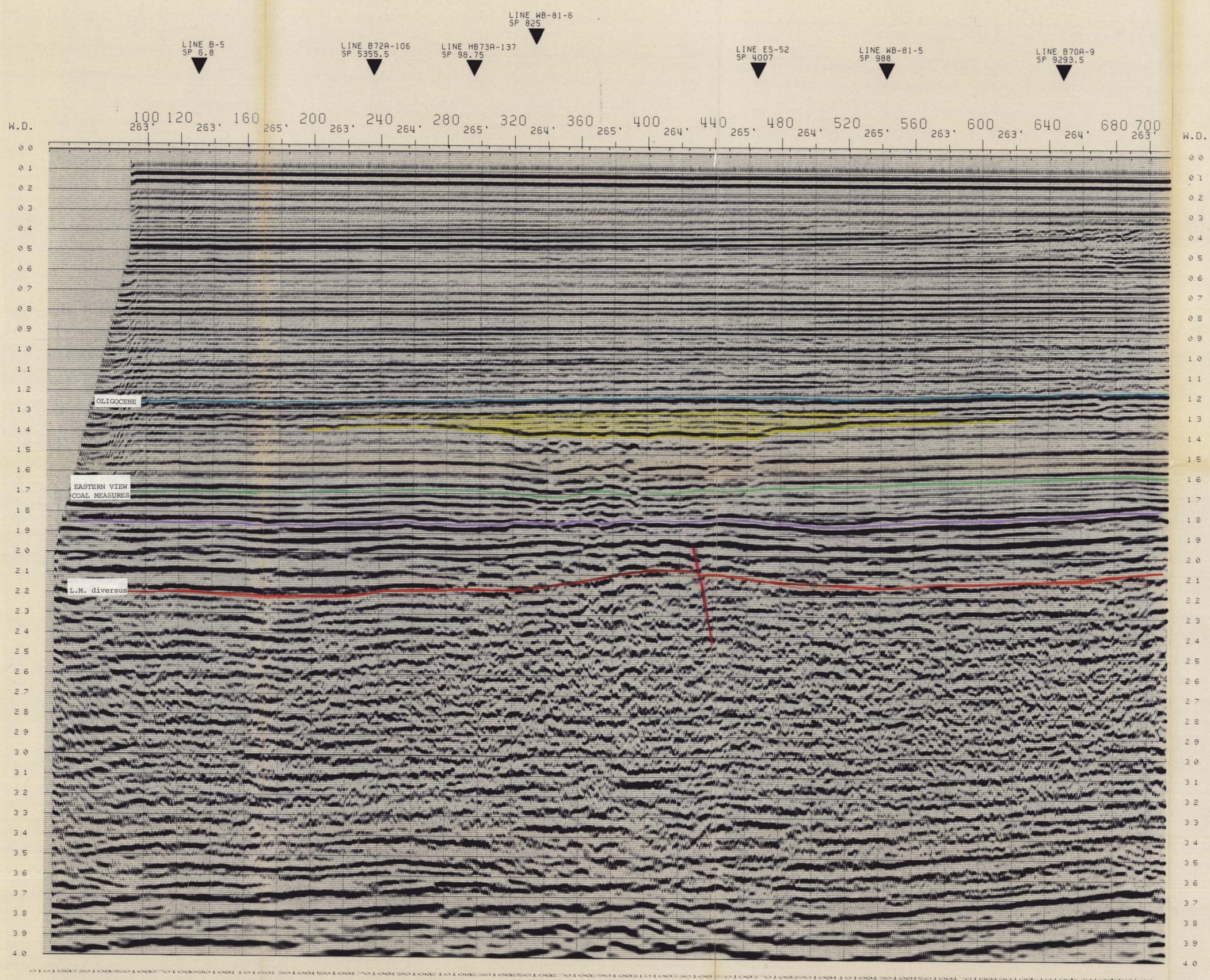
T/150

LINE: WB-81-01  
 S.P.: 100-700  
 1X4800%, MIGRATION TVF



208005

EAST



**WEAVER OIL AND GAS**  
 OFFSHORE AUSTRALIA  
 BASS BASIN

SHOT BY WESTERN GEOPHYSICAL CO. PARTY 86 APRIL 1981  
 PROCESSED BY WESTERN GEOPHYSICAL HDC GRP 27 AUGUST 1981  
 PLAYBACK REEL NO. : 097488

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**RECORDING DATA**

SOURCE	
ENERGY SOURCE	AIR GUNS
NUMBER OF GUNS	10
GUN DEPTH	6 METERS
FIRING INTERVAL	25 METERS
SHOT POINT INTERVAL	25 METERS
DISTANCE OF SOURCE TO ANTENNA	77.9 MTRS.

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INSTRUMENTS	
SYSTEM	DFS V
AMPLIFIER	BINARY GAIN
FILTER	H62.5-LOUT
SAMPLING INTERVAL	4 MS.
RECORD LENGTH	6 SEC

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CABLE	
TYPE CABLE	STREAMER
CABLE LENGTH	2375 METERS
CABLE DEPTH	14.3 MTRS.
LEAD IN	200.7 MTRS.
GROUP INTERVAL	25 METERS
NUMBER OF GROUPS RECORDED	96

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**PROCESSING SEQUENCE AND PARAMETERS**

PROCESSING SAMPLING INTERVAL 4 MS

1. EDIT
2. DECONVOLVED BEFORE STACK
  - TYPE - MINIMUM PHASE INVERSE FILTER
  - WINDOW LENGTH 3 EQUAL ZONES
  - LENGTH OPERATOR 200 MS
  - PREDICTION DISTANCE 4 MS
3. NMO STACK 4800 %
4. GAIN
5. MIGRATION
  - FINITE DIFFERENCE METHOD
6. TIME VARIANT FILTER

FILTER TIME	L.C. (HZ.)	H.C.
.1 SEC	15	50
.8 SEC	12	45
1.9 SEC	12	40
2.8 SEC	10	35
3.7 SEC	8	30
5.0 SEC	6	20

7. GAIN

96 GROUP CABLE USING ALL GROUPS  
 SHOTPOINT LOCATION AT ANTENNA  
 CORRECTION TO SEA LEVEL DATUM 12 MS

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**LEGEND**

▼ INTERSECTIONS

W.D. WATER DEPTH

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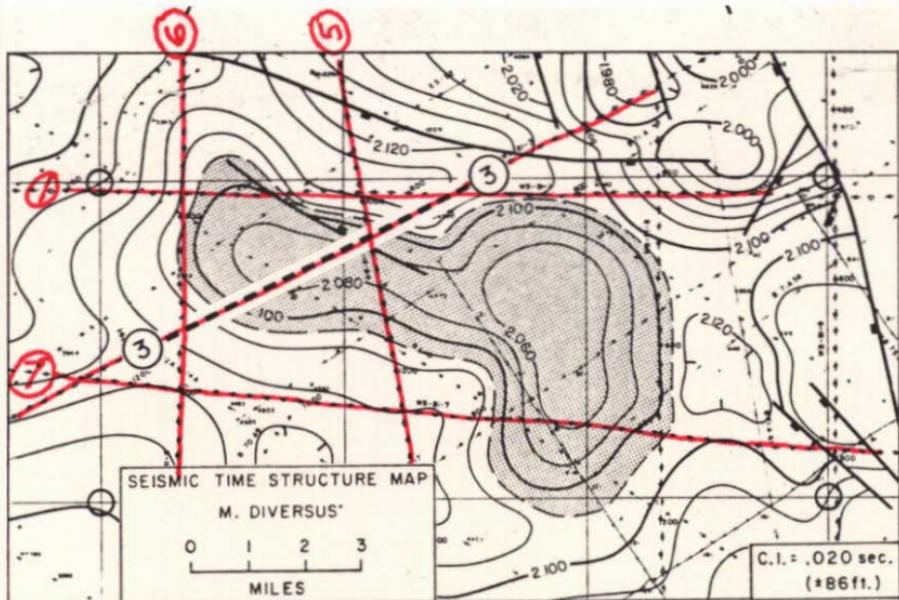
HORIZONTAL SCALE  
 80 TRACES EQUALS ONE KILOMETER  
 1 KILOMETER

VERTICAL SCALE  
 3.75 INCHES PER SECOND

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**POLARITY CONVENTION**

RECORDING	: COMPRESSION PULSE	NEGATIVE	NUMBER
PROCESSING	: COMPRESSION PULSE	NEGATIVE	NUMBER
DISPLAY	: COMPRESSION PULSE	TROUGH	(DECREASING BLACK)



OPTIMUM SHOOTING DEC-FEB  
MARGINAL - LATE OCT-DEC; FEB-APRIL

5 cm

208005A

OGJ



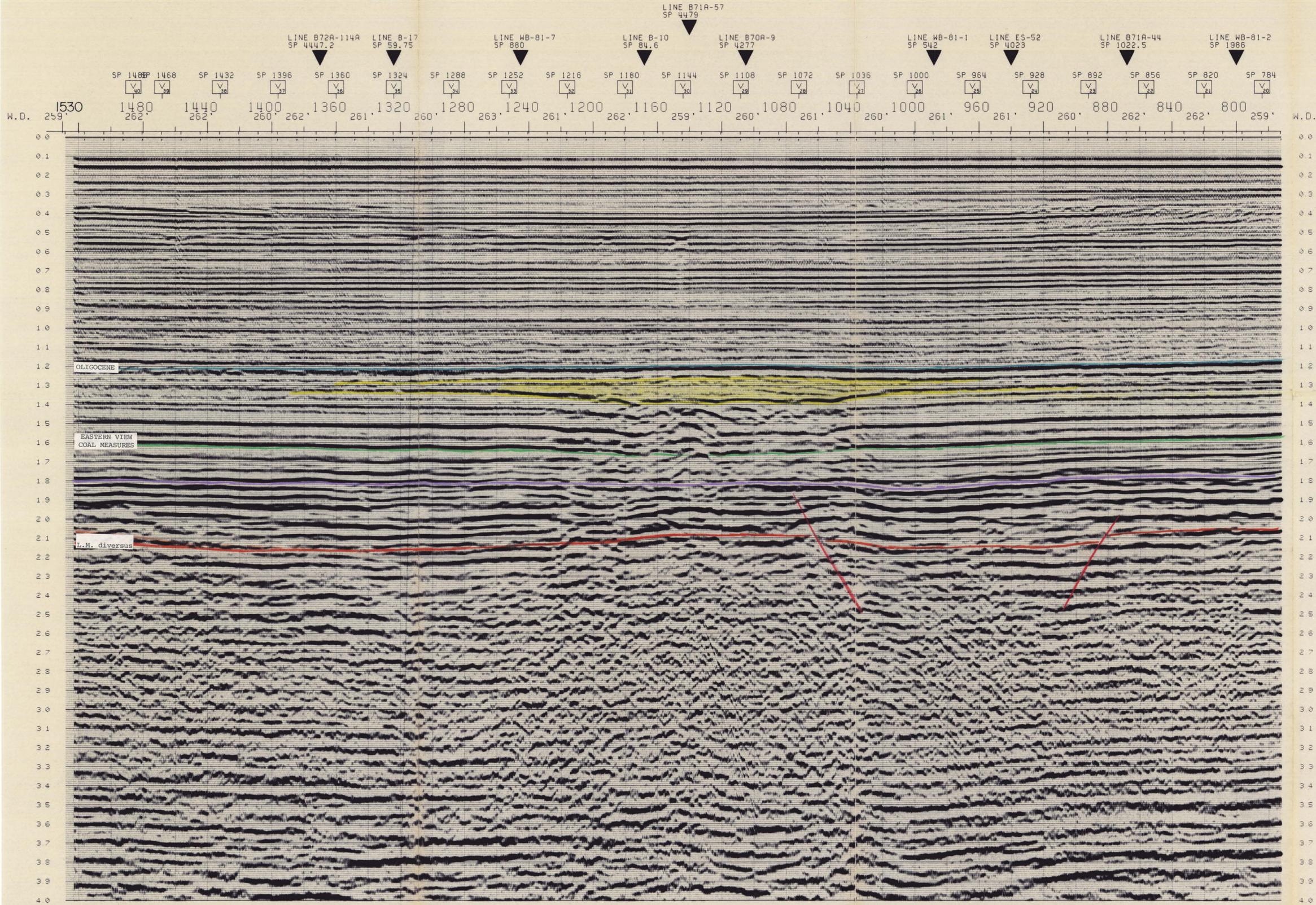
Squad  
T/158 OR-194A.



208007

LINE: WB-81-05  
S.P.: 800-1530  
1X4800%, TVF

SP 1488.00	SP 1468.00	SP 1432.00	SP 1396.00	SP 1360.00	SP 1324.00	SP 1288.00	SP 1252.00	SP 1216.00	SP 1180.00	SP 1144.00	SP 1108.00	SP 1072.00	SP 1036.00	SP 1000.00	SP 964.00	SP 928.00	SP 892.00	SP 856.00	SP 820.00	SP 784.00
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### WEAVER OIL AND GAS

OFFSHORE AUSTRALIA  
BASS BASIN

SHOT BY WESTERN GEOPHYSICAL CO. PARTY 86 MARCH 1981  
 PROCESSED BY WESTERN GEOPHYSICAL HDC GRP 27 JUNE 1981  
 PLAYBACK REEL NO. : 012512

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**RECORDING DATA**

SOURCE

ENERGY SOURCE AIR GUNS  
 NUMBER OF GUNS 10  
 GUN DEPTH 6 METERS  
 FIRING INTERVAL 25 METERS  
 SHOT POINT INTERVAL 25 METERS  
 DISTANCE OF SOURCE TO ANTENNA 77.9 METERS.

INSTRUMENTS

SYSTEM DFS V  
 AMPLIFIER BINARY GAIN  
 FILTER H62.5-LOUT  
 SAMPLING INTERVAL 4 MS.  
 RECORD LENGTH 6 SEC

CABLE

TYPE CABLE STREAMER  
 CABLE LENGTH 2375 METERS  
 CABLE DEPTH 14.3 METERS.  
 LEAD IN 200.7 METERS.  
 GROUP INTERVAL 25 METERS  
 NUMBER OF GROUPS RECORDED 96

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**PROCESSING SEQUENCE AND PARAMETERS**

PROCESSING SAMPLING INTERVAL 4 MS

- EDIT
- DECONVOLVED BEFORE STACK  
 TYPE - MINIMUM PHASE INVERSE FILTER  
 WINDOW LENGTH 3 EQUAL ZONES  
 LENGTH OPERATOR 200 MS  
 PREDICTION DISTANCE 4 MS
- NMO STACK 4800 %
- TIME VARIANT FILTER

FILTER TIME	L.C. (HZ.)	H.C.
.1 SEC	15	50
.8 SEC	12	45
1.9 SEC	12	40
3.7 SEC	8	30
5.0 SEC	6	20

5. GAIN

96 GROUP CABLE USING ALL GROUPS  
 SHOTPOINT LOCATION AT ANTENNA  
 CORRECTION TO SEA LEVEL DATUM 12 MS

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77.9 METERS.  
2375 METERS  
200.7 METERS.

**LEGEND**

▼ VELOCITY ANALYSIS  
 ▽ INTERSECTIONS  
 W.D. WATER DEPTH

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HORIZONTAL SCALE  
80 TRACES EQUALS ONE KILOMETER  
1 KILOMETER

VERTICAL SCALE  
3.75 INCHES PER SECOND

---

**POLARITY CONVENTION**

RECORDING : COMPRESSION PULSE	NEGATIVE	NUMBER
PROCESSING : COMPRESSION PULSE	NEGATIVE	NUMBER
DISPLAY : COMPRESSION PULSE	TROUGH	(DECREASING BLACK)

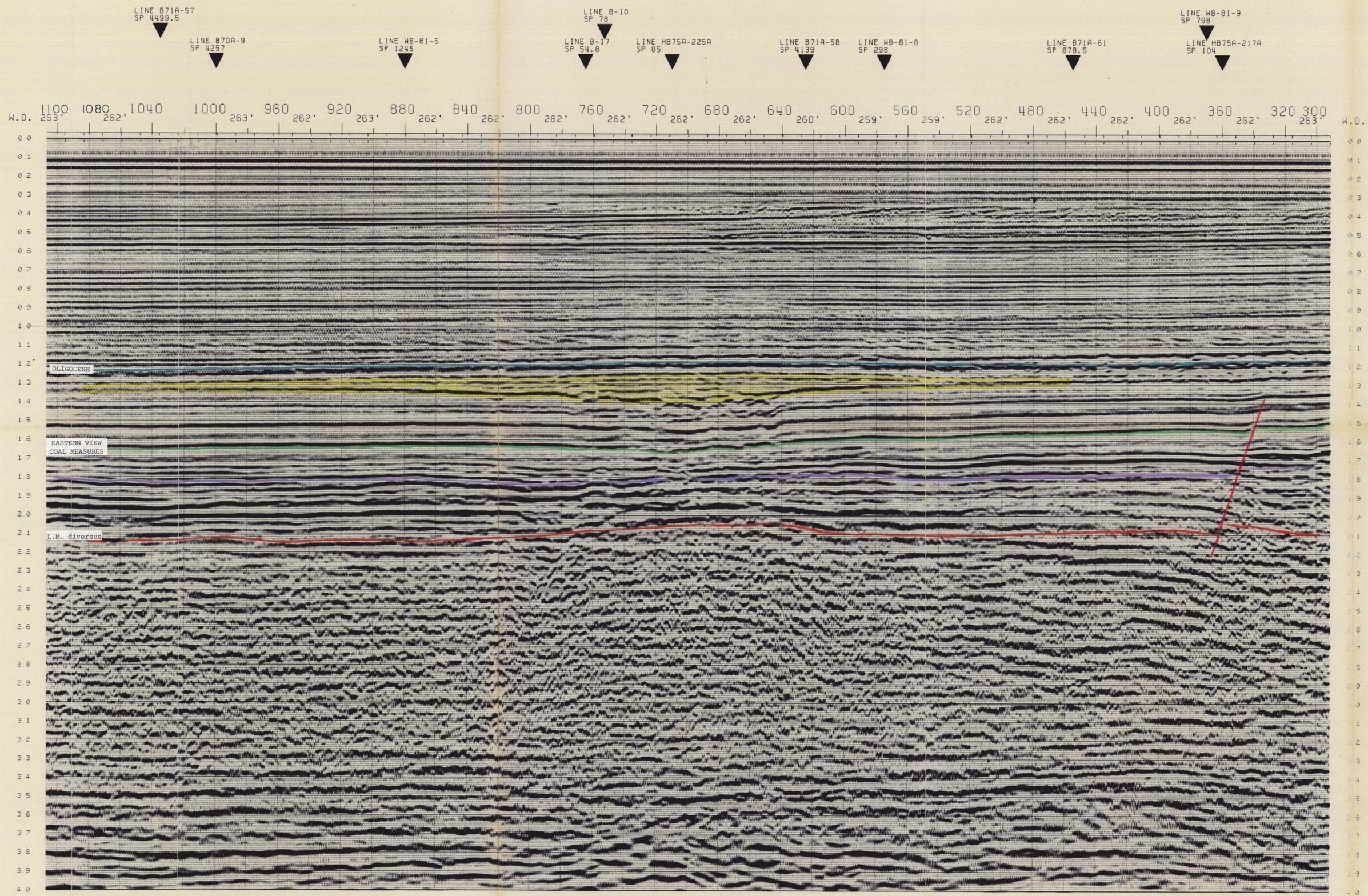


LINE: WB-81-7  
 S.P.: 1100-300  
 1X4800%, MIGRATION TVF

T/S/O

208008

EAST



**WEAVER OIL AND GAS**  
 OFFSHORE AUSTRALIA  
 BASS BASIN

SHOT BY WESTERN GEOPHYSICAL CO. PARTY 86 APRIL 1981  
 PROCESSED BY WESTERN GEOPHYSICAL HOC GAP 27 AUGUST 1981  
 PLAYBACK REEL NO. : 018828

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**RECORDING DATA**

SOURCE	
ENERGY SOURCE	AIR GUNS
NUMBER OF GUNS	10
GUN DEPTH	6 METERS
FIRING INTERVAL	25 METERS
SHOT POINT INTERVAL	25 METERS
DISTANCE OF SOURCE TO ANTENNA	77.9 MTRS.

INSTRUMENTS	
SYSTEM	DFS V
AMPLIFIER	BINARY GAIN
FILTER	H62.5-LOUT
SAMPLING INTERVAL	4 MS.
RECORD LENGTH	6 SEC

CABLE	
TYPE CABLE	STREAMER
CABLE LENGTH	2375 METERS
CABLE DEPTH	14.3 MTRS.
LEAD IN	200.7 MTRS.
GROUP INTERVAL	25 METERS
NUMBER OF GROUPS RECORDED	96

---

**PROCESSING SEQUENCE AND PARAMETERS**

PROCESSING SAMPLING INTERVAL 4 MS

1. EDIT
2. DECONVOLVED BEFORE STACK
  - TYPE - MINIMUM PHASE INVERSE FILTER
  - WINDOW LENGTH 3 EQUAL ZONES
  - LENGTH OPERATOR 200 MS
  - PREDICTION DISTANCE 4 MS
3. NMO STACK 4800 %
4. GAIN
5. MIGRATION
  - FINITE DIFFERENCE METHOD
6. TIME VARIANT FILTER

FILTER TIME	L.C. (HZ.)	H.C.
.1 SEC	15	50
.8 SEC	12	45
1.9 SEC	12	40
2.8 SEC	10	35
3.7 SEC	8	30
5.0 SEC	6	20

7. GAIN

96 GROUP CABLE USING ALL GROUPS  
 SHOTPOINT LOCATION AT ANTENNA  
 CORRECTION TO SEA LEVEL DATUM 12 MS

---

**LEGEND**

▼ INTERSECTIONS

W.D. WATER DEPTH

---

HORIZONTAL SCALE  
 80 TRACES EQUALS ONE KILOMETER

VERTICAL SCALE  
 3.75 INCHES PER SECOND

---

**POLARITY CONVENTION**

RECORDING : COMPRESSION PULSE	NEGATIVE	NUMBER
PROCESSING : COMPRESSION PULSE	NEGATIVE	NUMBER
DISPLAY : COMPRESSION PULSE	TROUGH	(DECREASING BLACK)

OR-194A.

T/177

5 cm

NE-SW Squid Squid 70A-9

Squid

FILE 935

ESSO STANDARD OIL (AUST) LTD.

GEOPHYSICAL SERVICE INTERNATIONAL  
DIGITAL PROCESSING CENTRE  
SYDNEY, NSW, AUSTR.

AREA **BASS BASIN** LINE **B70A-9**

RECORDING PARAMETERS  
Source **AIRGUN** SP **3990** to **4375**

Array size **860** c.u.m. **11** guns, tuned array

4 pops/SP. Shot off group **48**. No. of groups **48**

Cable length (centre of gp. 1 to centre of gp. 48) **7708** ft

Offset (array centre to centre of group 48) **833** ft

Group interval **164** ft. SP interval **656** ft

10 geophones/group. Field polarity first track **Negative**

Recording system **DFS III** Filter **8** to **62** Hz

Recording length **5** sec Sample rate **4** ms

GSI Field crew **909** Date **DEC/1970**

VES **1** NMO **2** AR2 **3** TVD **4** TVS **5** DCN **6** DPS **7** TVD **8** DCF **9** TVF **10** 600 Pkg

PROCESSED DATA

Groups processed **1-48** Sample period **4** ms

TAR **B-14** db. or **3.5** db/sec Processed **24** fold

Vertical stack **Old/Even** Gate **0** to **4500** ms

Decon before stack **DCN 66** p.s., **4** ms. No. of gates/trace **1**

Design gate (trace 1) **2200** to **4900** ms Gate shift **-78** ms/trace

Decon after stack **TVD 64** p.s., **4** ms. No. of gates/trace **2**

Design gate (trace 1) **300** to **4500** ms Gate shift **0** ms/trace

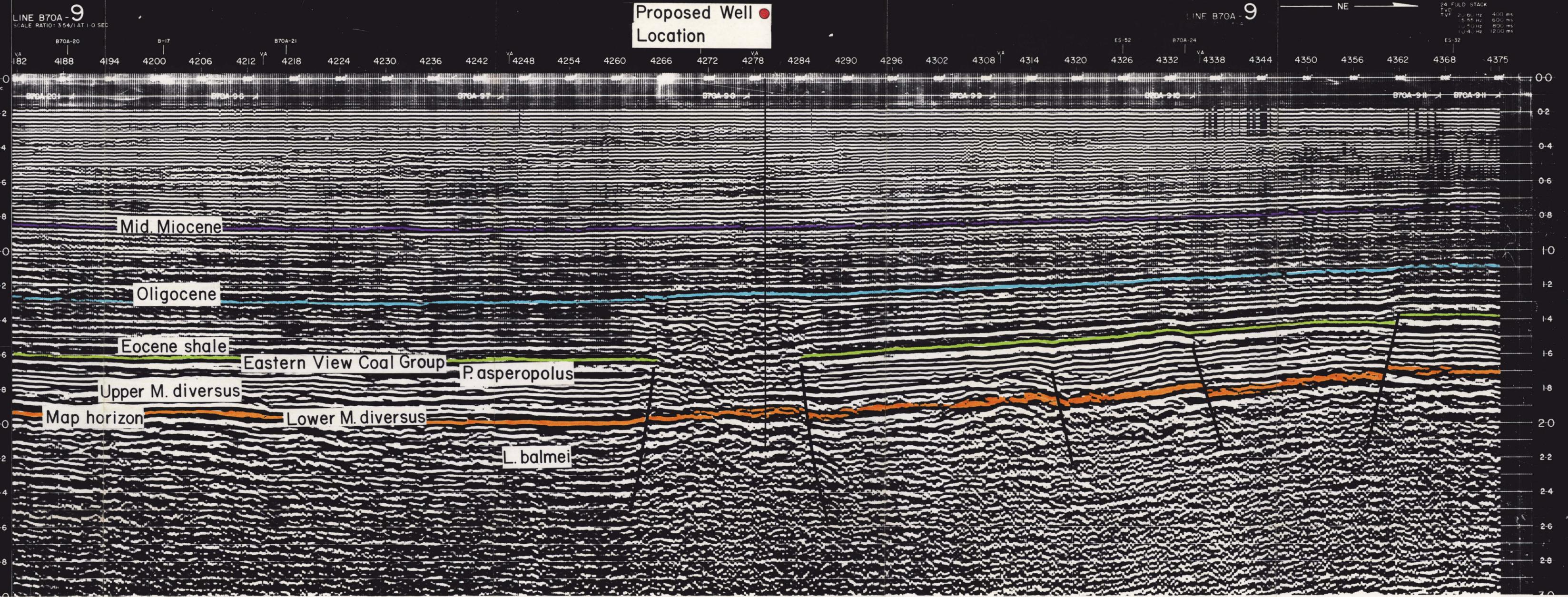
Digital filter **35** p.s., **4** ms

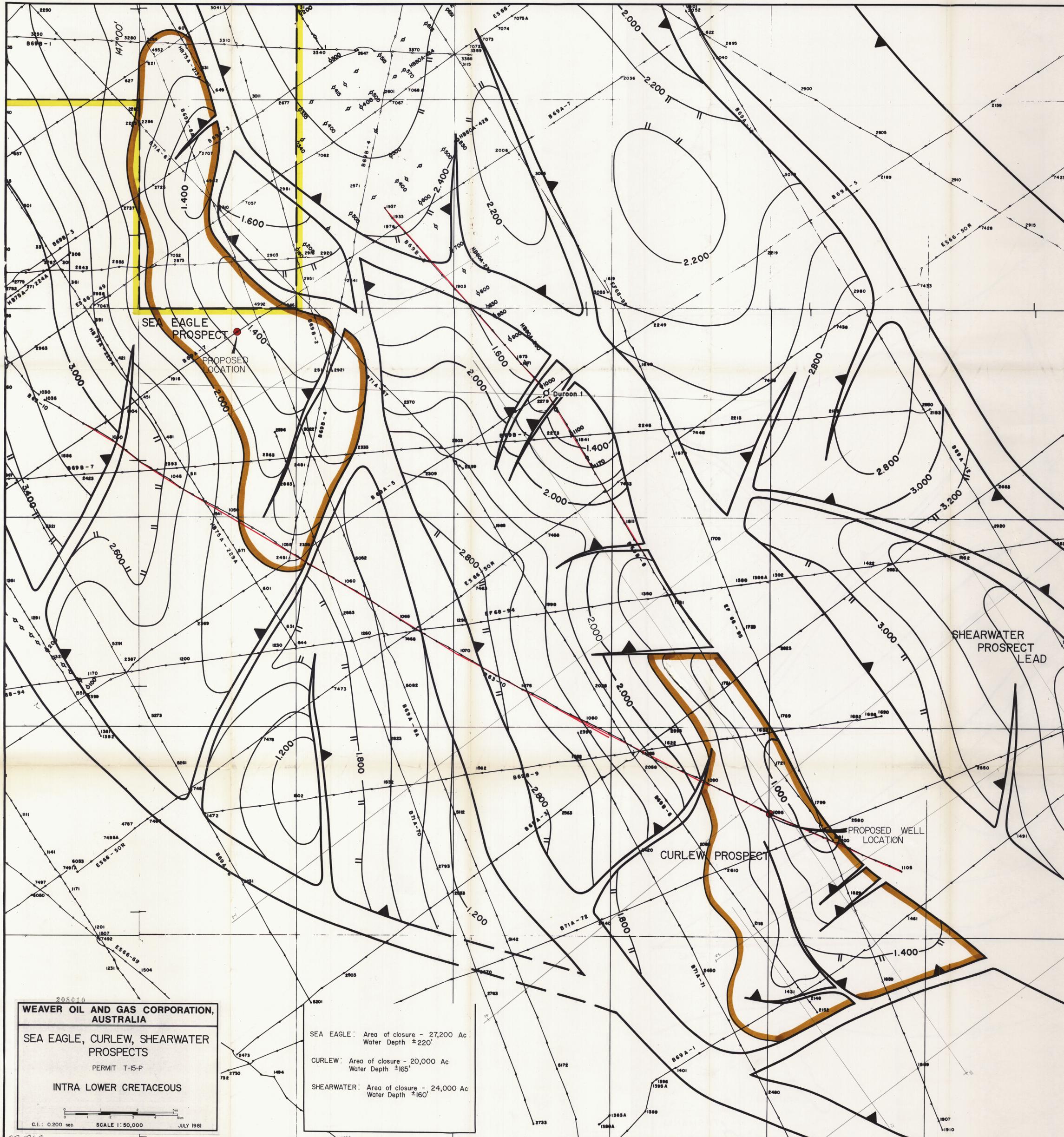
Displayed  digital AGC  Playback gain **24** db

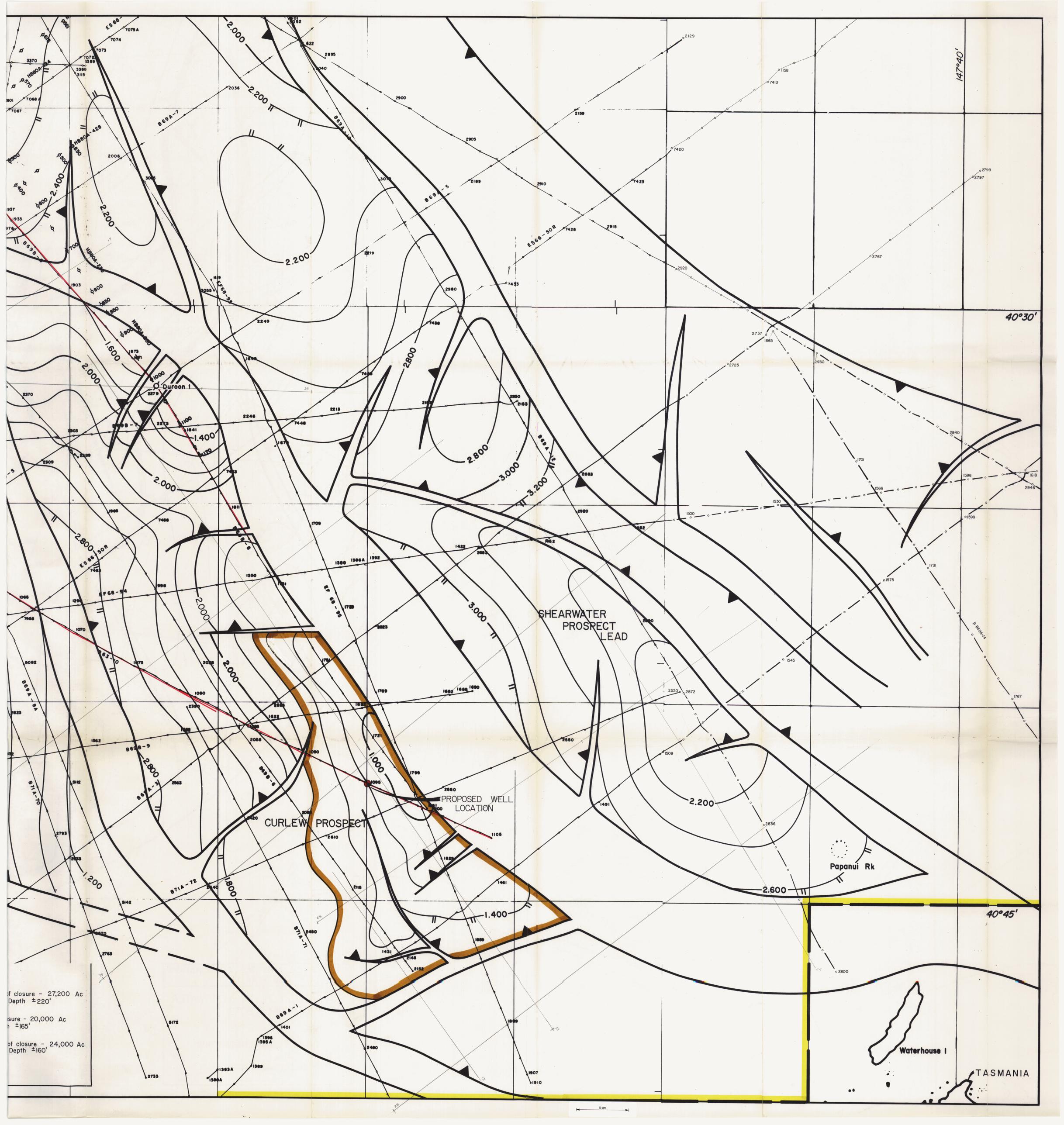
Polarity displayed  Positive  Negative

TIAC REQUEST **655** Hold tape **4150**

INPUT CREW PARTY **851** Date **MAR 71**







147°40'

40°30'

40°45'

of closure - 27,200 Ac  
Depth ±220'  
sure - 20,000 Ac  
h ±165'  
of closure - 24,000 Ac  
Depth ±160'

SHEARWATER PROSPECT LEAD

CURLEW PROSPECT

Papanui Rk

Waterhouse I

TASMANIA

5 cm



No.  
OR-194A

Line B69A-3

T/15P

Casless  
No

# CURLEW PROSPECT

208012

SW

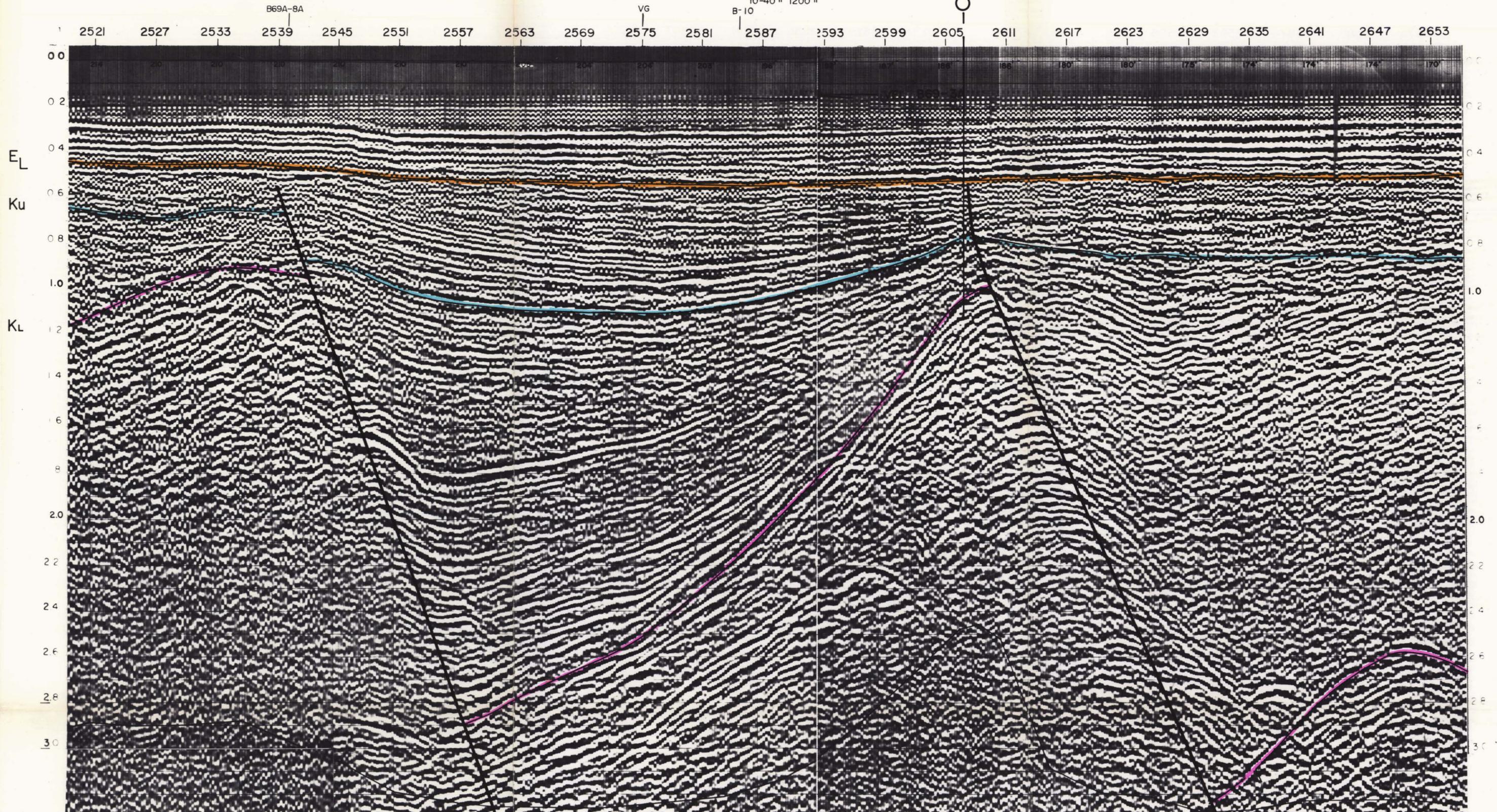


12 FOLD STACK  
TVD W/O NORM.  
TVF 20-60Hz 400ms  
15-55 " 600 "  
10-50 " 800 "  
10-40 " 1200 "

PROJECTED WELL LOCATION

NE

LINE B69A-3  
Scale Ratio = 3.54:1 at 10 sec.



EL - M. diversus

Ku - UPPER CRETACEOUS

KL - TOP LOWER CRETACEOUS

CR-194A.

208613

LINE B 10

5 cm

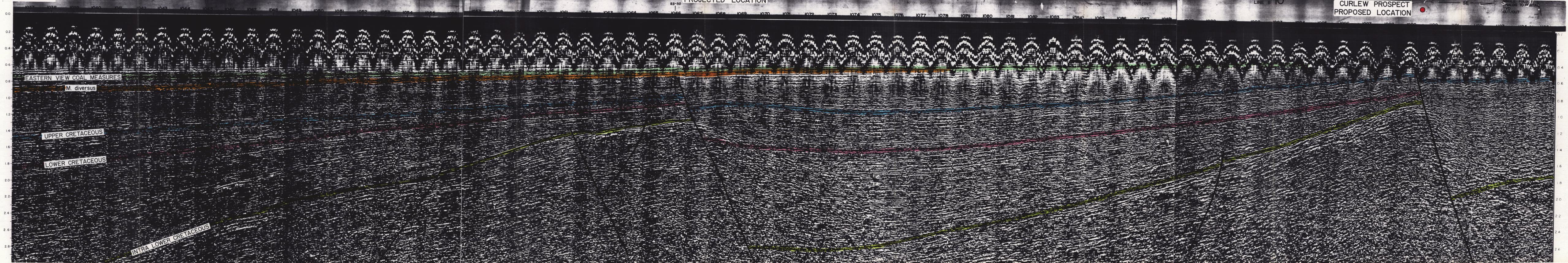
Curlew  
Prospect

LINE B 10

SEA EAGLE PROSPECT  
PROJECTED LOCATION

LINE B 10

CURLEW PROSPECT  
PROPOSED LOCATION



EASTERN VIEW COAL MEASURES

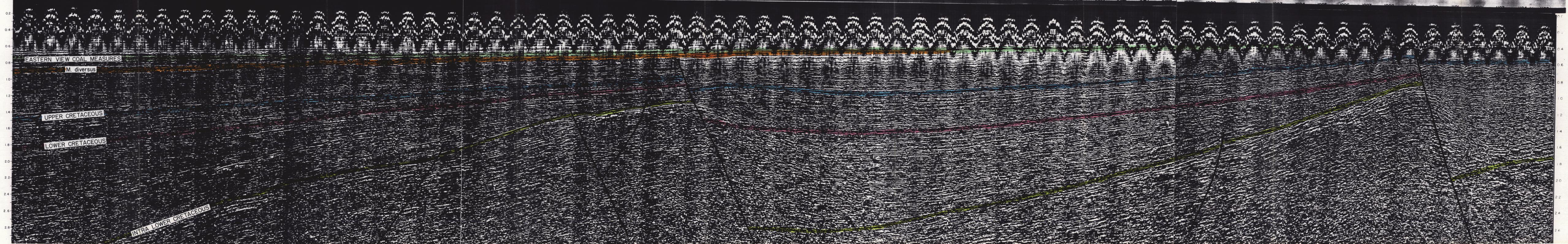
M. diversus

UPPER CRETACEOUS

LOWER CRETACEOUS

INTRA LOWER CRETACEOUS

1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087



EASTERN VIEW COAL MEASURES

M. diversus

UPPER CRETACEOUS

LOWER CRETACEOUS

INTRA LOWER CRETACEOUS

1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087