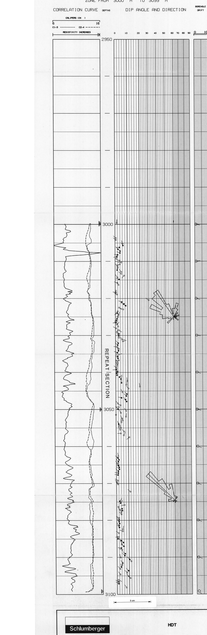


SCALE : 1/200 HORIZONTAL SECTION

ZONE FROM 3000 m TO 3099 m

CORRELATION CURVE

DIP ANGLE AND DIRECTION



Schlumberger

HDT

COMPANY:	ARCO OIL AND GAS COMPANY
WELL:	PLEASANT VALLEY UNIT 1-15
FIELD:	PLEASANT VALLEY
COUNTY:	UINTAH
STATE:	UTAH
LOCATION:	1980' FSL & 1980' FEL
SEC:	15
TWP:	7S
RGE:	21E
PERMANENT DATUM:	GL
LOG MEASURED FROM:	KB 10 ABOVE PERM. DATUM
DRILLING MEASURED FROM:	KB
ELEV.: K.B.	5369
G.L.	5359
D.F.	
DATE	26-OCT-89
RUN NO.	ONE
DEPTH-DRILLER	14115
DEPTH-LOGGER	14116
BTM. LOG INTERVAL	14115
TOP LOG INTERVAL	2000
CASING-DRILLER	13 3/8 @ 2000'
CASING-LOGGER	2000
BIT SIZE	12 1/4
TYPE FLUID IN HOLE	LIGHT GEL-POLYMER
DENSITY	9.90 LB/G
VISCOSITY	47.0 S
PH	10.0
FLUID LOSS	6.0 ML
SOURCE OF SAMPLE	FLOW LINE
RM @ MEAS. TEMP.	.067 @ 60.0 DEGF
RMF @ MEAS. TEMP.	.054 @ 60.0 DEGF
RMC @ MEAS. TEMP.	.080 @ 60.0 DEGF
RM @ BHT	.037 @ 200.0 DEGF
RMF @ BHT	.031 @ 200.0 DEGF
RMC @ BHT	.047 @ 200.0 DEGF
TIME CIRC. STOPPED	1415:00
MAX. REC. TEMP.	200.0 DEGF
EQUIP. LOCATION	4-4
RECORDED BY	KEN
WITNESSED BY	C.E.KIMMER

REMARKS:

TOOL RAN WITH 1.5 IN RUBBER FIN STANDOFFS.

EQUIPMENT NUMBERS:

NDB-F 2003	DIM-A 4	DAM-HC 2	NSC-F

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS OR EXPENSE OR DAMAGE SUFFERED BY YOU OR ANY OTHER PERSON OR ORGANIZATION ARISING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET FORTH IN OUR CURRENT PRICE SCHEDULE.

CP 88.0 FILE 2 26-OCT-89 14:15

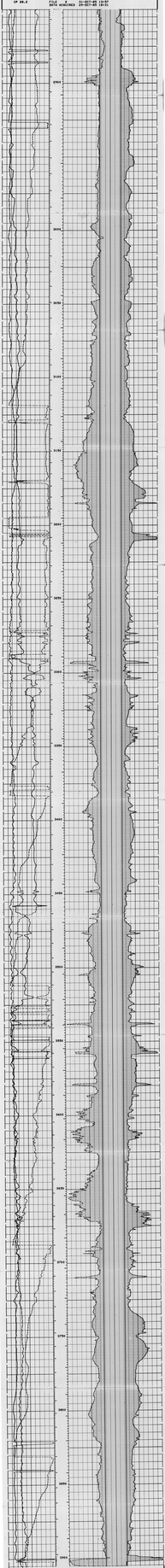
EVENT MARK SUMMARY:

BUFFER	DEPTH BETWEEN PIPE	DEPTH TRACK	FORM
CSG	-10000.00	0.00	LEFT EDGE
CSG	-10000.00	0.00	START EDGE

REVISIONS 4 6.5000

-1.000							
0.00	10	20	30	40	50	60	70
80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00

CP 88.0 FILE 2 26-OCT-89 14:15
DATA HOLDINGS 26-OCT-89 14:15



CP 88.0 FILE 2 26-OCT-89 14:15
DATA HOLDINGS 26-OCT-89 14:15

REVISIONS 5 6.2500

-1.000							
0.00	10	20	30	40	50	60	70
80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00
160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00

SENSOR MEASURE POINT TO TOOL ZERO

DT	0.0 METER	CDL	0.0 METER
GR	0.0 METER	CCL	0.0 METER
SP	0.0 METER	CAL	0.0 METER
CN	0.0 METER	RXO	0.0 METER
CNC	0.0 METER	RFOC	0.0 METER
DEN	0.0 METER	RSFL	0.0 METER
DRHO	0.0 METER	RLL	0.0 METER
PEF	0.0 METER	RMLL	0.0 METER
CSG	0.0 METER		

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MAT	2.65		MDEN	2.65	
MATR	2.65		MATR	SAND	
BS	12.25	IN	DT	182.0000	US
DT	182.0000				

TAPE NOT MADE

OR-331A
Schlumberger

WSS CHECK SHOT LIST TILANA #1

CSU Field Log

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.

WELL: TILANA # 1

FIELD: WILDCAT
RIG: DIAMOND M EPOC
STATE: TASMANIA
NATION: AUSTRALIA
LOCATION: SHOT POINT 5199
LINE 871-A-50

LATITUDE: 145 58 42.2 E
LONGITUDE: 039 53 36.96 S

PERMANENT DATUM: MSL
ELEV. OF PERM. DATUM: 0.0 M
LOG MEASURED FROM: KB
22.3 M ABOVE PERM. DATUM
DRLG. MEASURED FROM: KB

ELEVATIONS-
KB: 22.3 M
DF: 22.0 M
GL: -79.9 M

DATE: 11 OCT 85
RUN NO: 1

OTHER SERVICES-
ISF-DDBHC-MS
LDL-CNL-GR
HDT
CST

PROGRAM
TAPE NO:
28.2
SERVICE
ORDER NO:
DME851001

DEPTH-DRILLER:	3066.0 M		
DEPTH-LOGGER:	3070.0 M		
BTM. LOG INTERVAL:	3050.0 M		
TOP LOG INTERVAL:	700.0 M		
CASING-DRILLER:	413.0 M	1651.0 M	
CASING-LOGGER:	413.0 M	1651.0 M	
CASING:	20"	13 3/8"	
WEIGHT:	133.000 LB/F	68.0000 LB/F	
BIT SIZE:	26"	17 1/2"	12 1/4"
DEPTH:	416.0 M	1661.0 M	3066.0 M

TYPE FLUID IN HOLE:	F/WTR GEL POLYMER
DENSITY:	9.30 LB/G
VISCOSITY:	57.0 S
PH:	11.6
FLUID LOSS:	5.5 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	.820 OHMM AT 110. DEGF
RMF:	.921 OHMM AT 70.0 DEGF
RMC:	1.110 OHMM AT 70.0 DEGF
SOURCE RMF/RMC:	PRESS/PRESS
RM AT BHT:	.414 OHMM AT 225. DEGF
RMF AT BHT:	.306 OHMM AT 225. DEGF
RMC AT BHT:	.368 OHMM AT 225. DEGF
TIME CIRC. STOPPED:	10:00 09/10
TIME LOGGER ON BTM.:	15H00 10/10
MAX. REC. TEMP:	225.0 DEGF
LOGGING UNIT NO:	822
LOGGING UNIT LOC:	VEA
RECORDED BY:	A.HALIM/A.SUSANTO
WITNESSED BY:	C. E. REVILLA

5 cm

REMARKS:

EQUIPMENT NUMBERS-

WST-A WSM-AB WDM-B WSC-A

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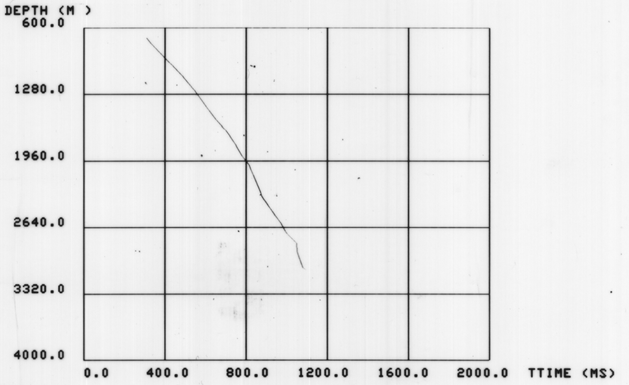
CP 28.2 FILE 3 11-OCT-85 01:24
DATA ACQUIRED 11-OCT-85 08:00

WST DEPTH VS TTIME CURVE



WST DEPTH VS TTIME SUMMARY

STACK NBR	DEPTH (M)	TTIME (MS)
36	700.0	310.9
1	700.0	309.1
35	750.1	330.2
34	940.0	418.6
33	989.9	441.7
32	1100.1	492.3
2	1200.0	533.2
31	1200.1	534.6
30	1244.1	551.6
29	1396.1	602.3
28	1528.4	652.0
27	1600.0	682.7
6	1625.0	690.7
26	1646.0	702.6
25	1700.1	721.8
24	1800.0	754.1
23	1800.0	753.3
4	1900.0	779.9
3	1900.0	0.0
22	1900.1	786.4
7	2000.0	816.9
21	2022.1	821.1
20	2266.1	871.3
19	2320.1	880.5
5	2400.0	906.5
18	2400.1	930.0
8	2500.0	940.4
17	2500.1	943.8
16	2600.1	977.0
15	2650.0	988.2
14	2700.1	1003.7
13	2800.1	1052.0
12	2892.1	1054.7
11	3000.1	1082.0
10	3050.1	1096.7
9	3070.0	1095.9

Schlumberger

CBU

Seite

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
WELL: Tilana #1
FIELD: Otway Basin
COUNTY: Victoria
STATE: Australia
LOCATION: 1km SW of Port Campbell
SERVICE ORDER: 70196
PERMANENT DATUM: MSL ELEVATION: 0.0 m
LOG MEASURED FROM: KB 10.0 m Above Perm. Datum
DRILL MEASURED FROM: KB 10.0 m

DATE: 24 DEC 89
RUN TWO

DEPTH-DRILLER: 3000.0 m
DEPTH-LOGGER: 3000.0 m
BTM LOG INTERVAL: 2997.0 m
TOP LOG INTERVAL: 2400.0 m

CASING-DRILLER: 473.0 m 508.0 mm
CASING-LOGGER: 473.0 m 508.0 mm
BIT SIZE: 311.1 mm 445.0 mm
TYPE FLUID IN HOLE: Gel/Chem
DENSITY: 1.14 g/cm3 VISCOSITY: 41.0 s
PH: 10.0 FLUID LOSS: 5.0 cm3

LOGGING DISTRICT: Melbourne
LOGGING ENGINEER: J. Hall
WITNESS: Mr. Bell

RECORDED BY: Mr. Hall
WITNESSED BY: Mr. Bell

REMARKS:
RU LOGS AS SHALE SONIC INDICATOR.

EQUIPMENT NUMBERS:

RIG: Ensign Drilling Co. #6 (Rotary Table 20 m above Perm. Datum) DRILLING FLUID: Gel/Chem. Max. Temp. 110 deg. C. Max. Deviation 1 deg. Logging Unit #1 Logging Engineer: J. Hall. Witnessed by: Mr. Bell. Recorded by: Mr. Hall. Equipment #1 Equipment #2 Equipment #3 Equipment #4 Equipment #5 Equipment #6 Equipment #7 Equipment #8 Equipment #9 Equipment #10 Equipment #11 Equipment #12 Equipment #13 Equipment #14 Equipment #15 Equipment #16 Equipment #17 Equipment #18 Equipment #19 Equipment #20 Equipment #21 Equipment #22 Equipment #23 Equipment #24 Equipment #25 Equipment #26 Equipment #27 Equipment #28 Equipment #29 Equipment #30 Equipment #31 Equipment #32 Equipment #33 Equipment #34 Equipment #35 Equipment #36 Equipment #37 Equipment #38 Equipment #39 Equipment #40 Equipment #41 Equipment #42 Equipment #43 Equipment #44 Equipment #45 Equipment #46 Equipment #47 Equipment #48 Equipment #49 Equipment #50 Equipment #51 Equipment #52 Equipment #53 Equipment #54 Equipment #55 Equipment #56 Equipment #57 Equipment #58 Equipment #59 Equipment #60 Equipment #61 Equipment #62 Equipment #63 Equipment #64 Equipment #65 Equipment #66 Equipment #67 Equipment #68 Equipment #69 Equipment #70 Equipment #71 Equipment #72 Equipment #73 Equipment #74 Equipment #75 Equipment #76 Equipment #77 Equipment #78 Equipment #79 Equipment #80 Equipment #81 Equipment #82 Equipment #83 Equipment #84 Equipment #85 Equipment #86 Equipment #87 Equipment #88 Equipment #89 Equipment #90 Equipment #91 Equipment #92 Equipment #93 Equipment #94 Equipment #95 Equipment #96 Equipment #97 Equipment #98 Equipment #99 Equipment #100

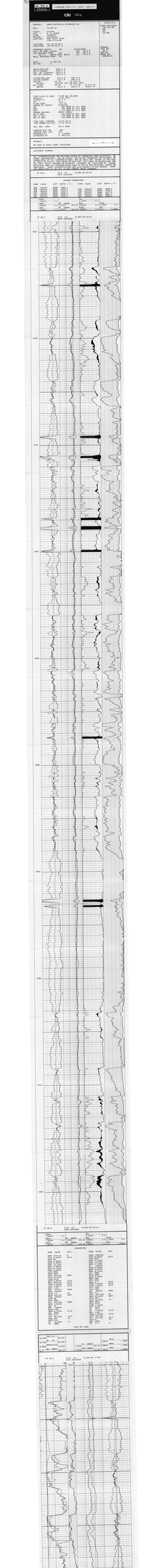
LP 26.0 FILE 101
DATA ACQUIRED 24-DEC-89 20:54

CHANGED PARAMETERS

NAME	VALUE	UNIT	DEPTH	NAME	VALUE	UNIT	DEPTH
RUN	000000		0000.0	RUN	000000		0000.0
RUN	000000		0000.0	RUN	000000		0000.0
RUN	000000		0000.0	RUN	000000		0000.0
RUN	000000		0000.0	RUN	000000		0000.0

PASS							
NAME	VALUE	UNIT	DEPTH	NAME	VALUE	UNIT	DEPTH
PASS	0.0		0000.0	DELAY	0.0		0000.0
PASS	0.0		0000.0	DELAY	0.0		0000.0

LP 26.0 FILE 101
DATA ACQUIRED 24-DEC-89 20:57



LP 26.0 FILE 101
DATA ACQUIRED 24-DEC-89 20:54

PASS							
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PASS	0.0		0000.0	DELAY	0.0		0000.0
PASS	0.0		0000.0	DELAY	0.0		0000.0

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BORE_DATA.D			GAMA_LOGGING		
BORE_DATA.T			GAMA_LOGGING		
CASE_1.DIAM			GAMA_LOGGING		
CASE_1.WEIG			GAMA_LOGGING		
CASE_2.DIAM			GAMA_LOGGING		
CASE_2.WEIG			GAMA_LOGGING		
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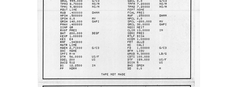
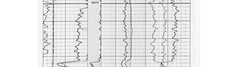
CASE_99.DIA			GAMA_LOGGING		
CASE_99.WEI			GAMA_LOGGING		
CASE_100.DIA			GAMA_LOGGING		
CASE_100.WEI			GAMA_LOGGING		

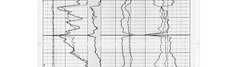
FILE HDT RUN1

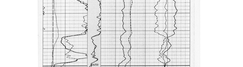
CALI(IN)					
DEVI					
HAZI					
P1AZ					

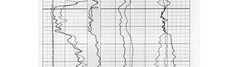




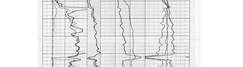




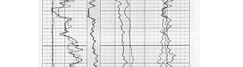




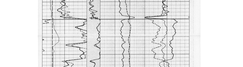


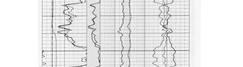




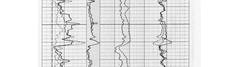


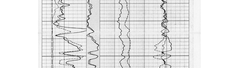


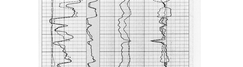


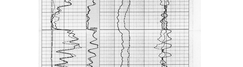


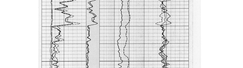






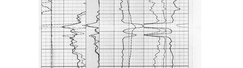


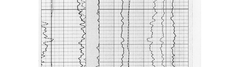


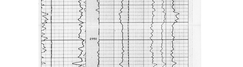




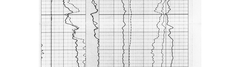




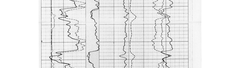




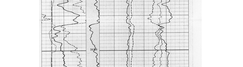




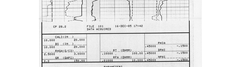


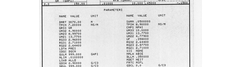




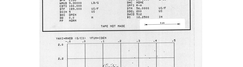


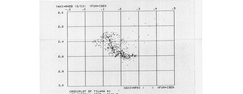




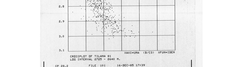




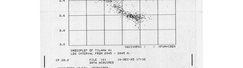












CSU Mailing

CBL-VDF-GR-CCL, 11800 9200-8980ft.

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
WELL: TUJUH #1
FIELD: WILDCAT
COUNTY: OFFSHORE
STATE: NORTHERN
LOCATION: 5000' FSEL& 5100 FNWL
SEC 35 T9S R36
LATITUDE: 128 50'54.36S
LONGITUDE: 128 50'42.37 E
PERMANENT DATUM: MSL ELEVATIONS:
LOG MEASURED FROM: KB 25.0 ft above PERM. DATUM KB: 25.0 ft
DRILL MEASURED FROM: KB DF: 25.0 ft GL: -109.0 ft

OTHER SERVICES:

PROGRAM
TAPE NO:
RUN NO:
SERVICE ORDER:
DATE LOGGED: 06NOV1991

DATE: 6 NOV 91
RUN NO: 1

DEPTH-DRILLER: 9241.0 m
DEPTH-LOGGER: 9238.4 m
TOP LOG INTERVAL: 8500.0 m
BTM LOG INTERVAL: 9236.0 m

CASING-DRILLER: 1681.0 m 2311.0 m
CASING-LOGGER: 1675.5 m 2305.5 m
BIT SIZE: 660.4mm 508.0mm 8.5/8" 311.1mm 244.5mm 9.5/8"
BIT RUN: 1 2 3
DEPTH: 1675.5 m 2305.5 m

TYPE FLUID IN HOLE: GEL/POLYMER
DENSITY: 9.50 LB/G
PH: 10.5
FLUID LOSS: 4.0 CC
SOURCE OF SAMPLE: CIRC
TEMP. LOGGED INTERVAL: 215.0 DEGF
RM @ MEAS TEMP: .909 @ 75 DEGF
RMF @ MEAS TEMP: .809 @ 75 DEGF
RMC @ MEAS TEMP: .7.9400@75.0F,.8460@0.0F
RM @ BHT: .7.9400@75.0F,.8460@0.0F
MATRIX SANDSTONE

RECORDED BY: J.MACPHY/H.BARAGLIN
WITNESSED BY: T.PADSTAN/T.R.STOAN

PRIMARY DEPTH CONTROL DATA

CASING STRING: 9 5/8"
ESTIMATED CEMENT TOP: 1430 M

CEMENT TYPE: CLASS G
ADDITIVES: 35%SSA-2,D-AIR
RETARDERS: D112,D-FLOW

CEMENT VOLUME: 786 BBL STARTED PUMPING: 1515HRS/6TH
CEMENT LEFT IN CSG: 18 LB/G RELEASED PRESSURE: 1545HRS/6TH
WATER LOSS:
THICKENING TIME:

PROCEDURE/REMARKS: 50M 9 SPACER
100BBL MUD FLUSH

REMARKS:

TOOL 1ENTRALIZER WITH 4 ARMS@ 6M& 8 CSG-C.
TOOL 2ENTRALIZER WITH 4 ARMS@ 6.12M.
SEA BOTH CHANGED ARMSIZE 24INCH.
TOOL WAS RUN WITH 1000 PSI ON THE CSG.
LOG RECORDED ON TWO PASS.
TOOL WAS RUN WITH 6M AND 8M AND 8IN DEGREES PARAMEMETT.

EQUIPMENT NUMBERS:

SLS-GR 1859 SLS-SS 8547 SLM-SM 1717 SDM-SM 1869
PGM-H 8868 SSC-AT 3966 CAL-M SDM-AA 58

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT TO THE EXTENT THAT OUR GROSS OR WILLFUL NEGLIGENCE OF WILLFUL MISCONDUCT CONSTITUTES THE PRIMARY CAUSE, STRICTLY, DAMAGES OR EXPENSES INCURRED BY YOU RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 26.0 FILE 5 06-NOV-91 01:56

ECHO SUMM 4
ECHO STAT PUNC TUNI VALU

LNGU	ECSN		ST
TYP	ALLO		7
TY			7
LT		F F	9632
UNIT			F
UNIT			F
LMC			2
LMC			2
FMC	US	US	0.10
FMC	US	US	10 US
ECSN			4
	US	US	US US
PROD	US	US	100 US
PROD	US	US	0.10
ECSN	ECSN		4
			4
PRTY			50
PRTY			0.00000
PROD	ALLO		0.00000
PROD			100
PROD			100
ECSN			4
ECSN			4
PROD	HZ	HZ	0.00000
PROD			0.00000
PROD			ST

CP 26.2 FILE 5 06-NOV-91 01:56

REMARKS:

FREE PIPE RECORD.

CP 26.2 FILE 4 06-NOV-91 01:56

TIM CUR 800.00 / 400.00
CBL CBL-CBL 1.0000 / 0.0000
GR -GAMMA 100.00 / 0.00
CBL CBL-CBL 90.000 800.00 / 0.00
GR -GAMMA 90.000 800.00 / 0.00
DF -CUR 1000.0 / 0.0

CP 26.2 FILE 4 06-NOV-91 01:56

9500
9400
9300
9200

CP 26.2 FILE 4 06-NOV-91 01:53

TIM CUR 800.00 / 400.00
CBL CBL-CBL 1.0000 / 0.0000
GR -GAMMA 100.00 / 0.00
CBL CBL-CBL 90.000 800.00 / 0.00
GR -GAMMA 90.000 800.00 / 0.00
DF -CUR 1000.0 / 0.0

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	0.91 METER	AMPL	0.91 METER
CCL	0.91 METER	TT1	0.91 METER
TT2	0.91 METER	TT3	0.91 METER
TT4	0.91 METER	TT5	0.91 METER
TT6	0.91 METER	TT7	0.91 METER
TT8	0.91 METER	TT9	0.91 METER
TT10	0.91 METER	TT11	0.91 METER
TT12	0.91 METER	TT13	0.91 METER
TT14	0.91 METER	TT15	0.91 METER
TT16	0.91 METER	TT17	0.91 METER
TT18	0.91 METER	TT19	0.91 METER
TT20	0.91 METER	TT21	0.91 METER
TT22	0.91 METER	TT23	0.91 METER
TT24	0.91 METER	TT25	0.91 METER
TT26	0.91 METER	TT27	0.91 METER
TT28	0.91 METER	TT29	0.91 METER
TT30	0.91 METER	TT31	0.91 METER
TT32	0.91 METER	TT33	0.91 METER
TT34	0.91 METER	TT35	0.91 METER
TT36	0.91 METER	TT37	0.91 METER
TT38	0.91 METER	TT39	0.91 METER
TT40	0.91 METER	TT41	0.91 METER
TT42	0.91 METER	TT43	0.91 METER
TT44	0.91 METER	TT45	0.91 METER
TT46	0.91 METER	TT47	0.91 METER
TT48	0.91 METER	TT49	0.91 METER
TT50	0.91 METER	TT51	0.91 METER
TT52	0.91 METER	TT53	0.91 METER
TT54	0.91 METER	TT55	0.91 METER
TT56	0.91 METER	TT57	0.91 METER
TT58	0.91 METER	TT59	0.91 METER
TT60	0.91 METER	TT61	0.91 METER
TT62	0.91 METER	TT63	0.91 METER
TT64	0.91 METER	TT65	0.91 METER
TT66	0.91 METER	TT67	0.91 METER
TT68	0.91 METER	TT69	0.91 METER
TT70	0.91 METER	TT71	0.91 METER
TT72	0.91 METER	TT73	0.91 METER
TT74	0.91 METER	TT75	0.91 METER
TT76	0.91 METER	TT77	0.91 METER
TT78	0.91 METER	TT79	0.91 METER
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TT84	0.91 METER	TT85	0.91 METER
TT86	0.91 METER	TT87	0.91 METER
TT88	0.91 METER	TT89	0.91 METER
TT90	0.91 METER	TT91	0.91 METER
TT92	0.91 METER	TT93	0.91 METER
TT94	0.91 METER	TT95	0.91 METER
TT96	0.91 METER	TT97	0.91 METER
TT98	0.91 METER	TT99	0.91 METER
TT100	0.91 METER		

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
LSPD	3000.00	F/HR	CWEI	48.0000	LB/F
TENS	1000.00	LB	CWEI	50.0000	LB/F
MRES	0.02000	OHMM	CSPD	60.000	US/F
MTEM	0.02000	DEGF	DFD	9.5000	LB/G
WNAM	0.02000	C/O	BSZ1	12.250	IN
DFV	40.000	S	BSZ2	8.5000	IN

CP 26.2 FILE 3 06-NOV-91 01:53

TIM CUR 800.00 / 400.00
CBL CBL-CBL 1.0000 / 0.0000
GR -GAMMA 100.00 / 0.00
CBL CBL-CBL 90.000 800.00 / 0.00
GR -GAMMA 90.000 800.00 / 0.00
DF -CUR 1000.0 / 0.0

SENSOR MEASURE POINT TO TOOL ZERO

SRAT	0.91 METER	AMPL	0.91 METER
CCL	0.91 METER	TT1	0.91 METER
TT2	0.91 METER	TT3	0.91 METER
TT4	0.91 METER	TT5	0.91 METER
TT6	0.91 METER	TT7	0.91 METER
TT8	0.91 METER	TT9	0.91 METER
TT10	0.91 METER	TT11	0.91 METER
TT12	0.91 METER	TT13	0.91 METER
TT14	0.91 METER	TT15	0.91 METER
TT16	0.91 METER	TT17	0.91 METER
TT18	0.91 METER	TT19	0.91 METER
TT20	0.91 METER	TT21	0.91 METER
TT22	0.91 METER	TT23	0.91 METER
TT24	0.91 METER	TT25	0.91 METER
TT26	0.91 METER	TT27	0.91 METER
TT28	0.91 METER	TT29	0.91 METER
TT30	0.91 METER	TT31	0.91 METER
TT32	0.91 METER	TT33	0.91 METER
TT34	0.91 METER	TT35	0.91 METER
TT36	0.91 METER	TT37	0.91 METER
TT38	0.91 METER	TT39	0.91 METER
TT40	0.91 METER	TT41	0.91 METER
TT42	0.91 METER	TT43	0.91 METER
TT44	0.91 METER	TT45	0.91 METER
TT46	0.91 METER	TT47	0.91 METER
TT48	0.91 METER	TT49	0.91 METER
TT50	0.91 METER	TT51	0.91 METER
TT52	0.91 METER	TT53	0.91 METER
TT54	0.91 METER	TT55	0.91 METER
TT56	0.91 METER	TT57	0.91 METER
TT58	0.91 METER	TT59	0.91 METER
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TT66	0.91 METER	TT67	0.91 METER
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TT72	0.91 METER	TT73	0.91 METER
TT74	0.91 METER	TT75	0.91 METER
TT76	0.91 METER	TT77	0.91 METER
TT78	0.91 METER	TT79	0.91 METER
TT80	0.91 METER	TT81	0.91 METER
TT82	0.91 METER	TT83	0.91 METER
TT84	0.91 METER	TT85	0.91 METER
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TT88	0.91 METER	TT89	0.91 METER
TT90	0.91 METER	TT91	0.91 METER
TT92	0.91 METER	TT93	0.91 METER
TT94	0.91 METER	TT95	0.91 METER
TT96	0.91 METER	TT97	0.91 METER
TT98	0.91 METER	TT99	0.91 METER
TT100	0.91 METER		

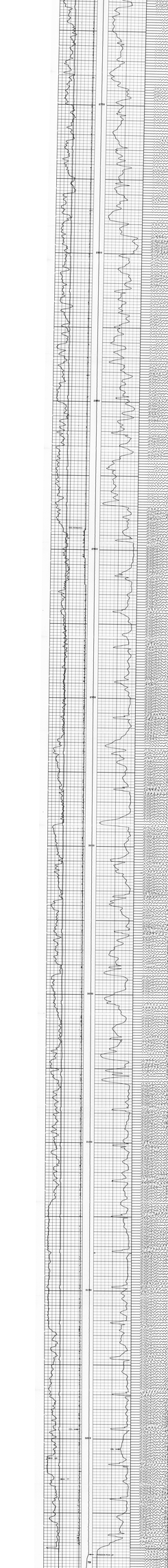
PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
CSPD	3000.00	F/HR	CWEI	48.0000	LB/F
TENS	1000.00	LB	CWEI	50.0000	LB/F
MRES	0.02000	OHMM	CSPD	60.000	US/F
MTEM	0.02000	DEGF	DFD	9.5000	LB/G
WNAM	0.02000	C/O	BSZ1	12.250	IN
DFV	40.000	S	BSZ2	8.5000	IN

CP 26.2 FILE 2 06-NOV-91 01:53

TIM CUR 800.00 / 400.00
CBL CBL-CBL 1.0000 / 0.0000
GR -GAMMA 100.00 / 0.00
CBL CBL-CBL 90.000 800.00 / 0.00
GR -GAMMA 90.000 800.00 / 0.00
DF -CUR 1000.0 / 0.0

9500
9400
9300
9200
9100
9000
8900
8800
8700
8600
8500


SP 89.4
FILE 1
04-NOV-95 19:18
GR_CSU
GR_LDPC
SENSOR MEASURE POINT TO TOOL ZERO
GR 0.91 METER
TT1 0.91 METER
TT2 0.91 METER
TT3 0.91 METER
TT4 0.91 METER
SPD 0.91 METER
CCL 0.91 METER
HDV1 0.91 METER
GRPL 0.91 METER
TT5 0.91 METER
TT6 0.91 METER
TT7 0.91 METER
TT8 0.91 METER
PARAMETERS
NAME VALUE UNIT
EDTM 0000.00 MSA
EDTV 100.000
DFPH NORM US/F
DFSH 0.00000 US/M
MUD SALT
MUDS 0.0000 DB
NAME VALUE UNIT
BSAL 0.0000 LB/F
DFV 0.000
DFD 0.0000 US/F
DFS MUD
CSGD 0.00000 IN
BEFORE SURVEY CALIBRATION SUMMARY
PERFORMED: 04-NOV-95 19:18
PROGRAM FILE: MCS139.1105100 89.2 85/07/31
DATE
DETECTOR CALIBRATION SUMMARY
MEASURED CALIBRATED UNITS
GR 0.0 0.0 API API
SP 89.2 FILE 1 04-NOV-95 19:18
CSU-HP-GR-CCL 11203
CSU Logging

CSU

Schlumberger

COMPANY= ARNOX AUSTRALIA PETROLEUM LTD.
WELL= TILLMA #1
FIELD= WILDCAT
COUNTY= OFFSHORE SPEC
STATE= VICTORIA
LOCATION= AUSTRALIA
SECTION= 1200' FSL & 1200' EWL
SEC 1 T11 R11 E0
LATITUDE= 38 DEG 30 MIN S
LONGITUDE= 142 DEG 30 MIN E
PERMANENT DATUM: MSL ELEVATIONS:
LOG MEASURED FROM: KB 25.0 M KB 25.0 M
LOG MEASURED FROM: 2.0 M ABOVE DATUM GL -75.0 M
DRLG. MEASURED FROM: KB

DATE= 4 DEC 85
RUN NO= ONE

DEPTH-DRILLER= 3501.0 M
DEPTH-LOGGER= 3503.0 M
BTM. LOG INTERVAL= 3502.0 M
TOP LOG INTERVAL= 2500.0 M

CASING-DRILLER= 410.0 M @ 3501.0 M @ 3501.0 M
CASING-LOGGER= 410.0 M @ 3501.0 M @ 3501.0 M
BIT SIZE= 311.1 MM @ 410.0 M @ 3501.0 M
TYPE FLUID IN HOLE= KCL/POLYMER
DENSITY= 10.0 LB/G
PH= 10.0
FLUID LOSS= 4.0 C3
SOURCE OF SAMPLE= CIRCULATION
RM @ MEAS. TEMP= 0.04 @ 80DF
RMF @ MEAS. TEMP= 0.03 @ 80DF
RMC @ MEAS. TEMP= 0.04 @ 80DF
SOURCE OF RMF/RMC= MEASURED
RM @ BHT= 0.02 @ 120DF
TIME SINCE CIRC.= 24 HOURS
MAX. REC. TEMP.= 120.0 DEGF
EQUIPMENT NUMBER= 3029
LOCATION= AUSTRALIA
RECORDED BY= D.MACDONALD/R.BLONDELLA
WITNESSED BY= A.MACSMART/R.MYDAR

PRIMARY DEPOSITIONAL DATA

CASING-STRING= 9 5/8"
CASING-DRILLER TYPE= BIT SIZE= 311 MM
CASING-TYPE= CLASS A
ADDITIVES= DEL/CAR/SALAD
RETARDERS= NONE
DENSITY (BLOWN)= 15.8 LB/G
DENSITY (SET)= 15.8 LB/G
SACKS USED= 1000
YIELD= 1.15
PRESSURED FLUID= SAM'S SPACER
VOLUME= 20 BBL

REMARKS:

TOOL LOCATION:CDN 3029 E SERIES AND E CNC-C.
CDN 3029 CONTROLLED SPEED 1800 FPH.
CDL DATA CORRECTED BEFORE DISPLAY.
CDL CORRECTED FOR MUD WEIGHT.
CDN RECORDED WITH 2.5 INCH SKIDS AND ECC SERIES3 PARAMENET.
CDN RUN WITH 4 ARMS.

EQUIPMENT NUMBERS:

SLS-AA 1008	SLS-AA 3042	SLS-GR 1010	CDN-AA 1878
SLS-GR 1009	SLS-GR 3043	SLS-GR 1012	CDN-GR 1879

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CP 39.0 FILE 9 04-DEC-85 03:58

SMALL SLOW 1+1
GUARD STUCK AGAIN THAT VALU

LSN	8CU	
SSN	8CU	
CN		
WF1	F / F	
WF2		
CNC		
LSHV		
SSHV		
TTEN	10 LB	10 KG
CSS	0HZ	0HZ
TEN	10 LB	10 KG
MRES	0 OHM	0 OHM
MTEM	0 DEGF	0 DEGF
SPD	0 F/HR	
DEPTH	0	
GR	0 GAPI	
HTEN	0 LB	
MRES	0 OHM	
MTEM	0 DEGF	
SPD	0 F/HR	
DEPTH	0	
GR	0 GAPI	
HTEN	0 LB	
TTEN	10 LB	10 KG

CP 39.0 FILE 9 04-DEC-85 03:58

REMARKS:

PASS FIVE RECORD.

CP 39.0 FILE 9 04-DEC-85 03:58

400.00	400.00		
CALI		DRHO	
6.0000		-0.1250	
0	400.00	0.0	400.00

CP 39.0 FILE 4 04-DEC-85 03:58

400.00	400.00		
CALI		DRHO	
6.0000		-0.1250	
0	400.00	0.0	400.00

SENSOR MEASURE POINT TO TOOL ZERO

ZDAT	0.51 METER	ZSPC	0.51 METER
TCS	0.51 METER	TCA	0.51 METER
TCF	0.51 METER	TCN	0.51 METER
SS1	0.51 METER	SS2	0.51 METER
CAL	0.51 METER		

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DIFR	0.0000		CAL1	0.0000	
DIFC	0.0000		CAL2	0.0000	
ZDAT	0.5100	M	ZSPC	0.5100	M
TCS	0.5100	M	TCA	0.5100	M
TCF	0.5100	M	TCN	0.5100	M
SS1	0.5100	M	SS2	0.5100	M
CAL	0.5100	M			

400.00	400.00		
CALI		DRHO	
6.0000		-0.1250	
0	400.00	0.0	400.00

REPEAT SECTION

CP 39.0 FILE 3 04-DEC-85 03:00

400.00	400.00		
CALI		DRHO	
6.0000		-0.1250	
0	400.00	0.0	400.00

CP 39.0 FILE 3 04-DEC-85 03:00

400.00	400.00		
CALI		DRHO	
6.0000		-0.1250	
0	400.00	0.0	400.00

SENSOR MEASURE POINT TO TOOL ZERO

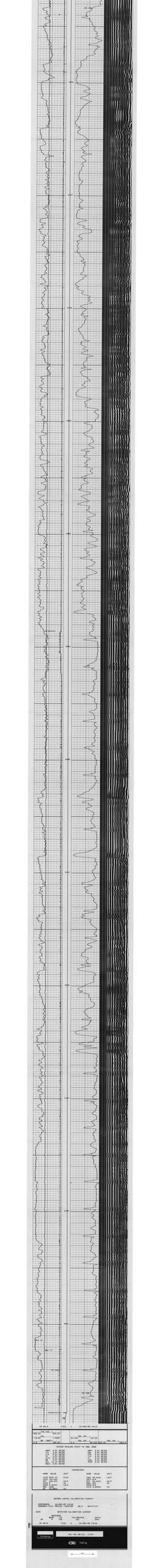
ZDAT	0.51 METER	ZSPC	0.51 METER
TCS	0.51 METER	TCA	0.51 METER
TCF	0.51 METER	TCN	0.51 METER
SS1	0.51 METER	SS2	0.51 METER
CAL	0.51 METER	TEN	0.51 METER

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DIFR	0.0000		CAL1	0.0000	
DIFC	0.0000		CAL2	0.0000	
ZDAT	0.5100	M	ZSPC	0.5100	M
TCS	0.5100	M	TCA	0.5100	M
TCF	0.5100	M	TCN	0.5100	M
SS1	0.5100	M	SS2	0.5100	M
CAL	0.5100	M			

400.00	400.00		
CALI		DRHO	
6.0000		-0.1250	
0	400.00	0.0	400.00

CP 39.0 FILE 1 04-DEC-85 20:00


DF 28.2
FILE 1 24-NOV-09 19:16
RUNNING MEASURE POINT TO TOOL ZERO
PARAMETERS
BEFORE SURVEY CALIBRATION SUMMARY
DETECTOR CALIBRATION SUMMARY
Calibrated
DF 28.2 FILE 2 24-NOV-09 19:58

LOGGING SERVICES

LIS/CNL/GR 1/893

CSU Full Log

COMPANY: AMOCO AUSTRALIA PETROLEUM CO.
WELL: TILLAM #1
FIELD: WILDCAT
COUNTY, STATE: OFFSHORE GIPPSLAND
NATION: AUSTRALIA
LOCATION: 1000 METRES ELEV.
1000 METRES ABOVE PERM.
LOCATION: 1.00 DEG.N/S
1.00 DEG.E/W
PERMANENT DATUM: MSL ELEVATIONS: KB: 0.0
LOG MEASURED FROM: KELLY BUSHING 0.0 M ABOVE PERM. DATUM DF: 0.0 M
DRILL MEASURED FROM: KB GL: 0.0 M

DATE: 27 OCT 93
RUN NO:

DEPTH DRILLER: 5016.0 M
DEPTH LOGGER: 5016.0 M
TOP LOG INTERVAL: 4915.0 M
BOTTOM LOG INTERVAL: 5016.0 M

CASING DRILLER: 413.0 M @ 1081.0 M
CASING LOGGER: 413.0 M @ 1081.0 M
CASING: 20 "/508 @ 413.0M 13 3/8"/340 @ 1081.0M 9 5/8"/178 @ 4915.0M 7"/LINER @ 5016.0M
BIT SIZE: 12 1/4 IN 8 1/2 IN

OTHER SERVICES: DLL-GR-SONIC-CAL DLT-GR

TOOLS RUN: DLL-GR-SONIC-CAL DLT-GR

RECORDED BY: DRAKE/BIRD

TYPE FLUID IN HOLE: FLUID DEL/MUD
DENSITY: 9.30 LB/G
VISCOSITY: 52 S
FLUID LOSS: 5.6 CC
SOURCE OF SAMPLE: CIRC
RM @ MEAS. TEMP: 0.260 OHMM AT 12.8 DEGF
RMF @ MEAS. TEMP: 0.190 OHMM AT 14.0 DEGF
RMC @ MEAS. TEMP: 0.370 OHMM AT 12.8 DEGF
RM @ BHT: 0.200 OHMM AT 212. DEGF
RMF @ BHT: 0.140 OHMM AT 212. DEGF
RMC @ BHT: 0.270 OHMM AT 212. DEGF
TIME CIRCULATED: 24.00 HR
TIME LOGGER ON BTM.: 19:00 28/10
MAX. REC. TEMP.: 212.0 DEGF
LOGGING UNIT NO: ADW
WITNESSED BY: MR. PIP/MR. DICKETT
BITSIZE(S) RUN: 1. 12 1/4 2. 8 1/2

REMARKS:
DF FIELD OF DATA. DEPM ABOVE THE CASING SHOE
DF FIELD FOR DEPART AND AZIMUTH.

EQUIPMENT NUMBERS:

DDC-L #288	DDC-B #108	DDC-SNT	DDB-C #898
DDC-GR #288	DDC-GR #108	DDC-GR #898	
DDC-MCD	TCM-AB #8	TCM-GR #898	

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DP 0A.0 LIS-RECORD 10:00
DATA ACQUIRED

AFTER SURVEY TOOL CHECK SUMMARY

HIGH-RESOLUTION LITHO-DENSITY SONDE DN-A DS/07/01
PRESSURE-FLUID SAMPLE CHAMBER DN-A DS/07/01

LATCH TOOL CHECK

RES SENSE SONDE		
PRESSURE-FLUID SAMPLE CHAMBER SONDE	-	YES
HIGH-RESOLUTION LITHO-DENSITY SONDE	-	YES
PROPPED LITHO-DENSITY SONDE DETECTOR	-	YES
LOW-RESOLUTION LITHO-DENSITY SONDE	-	YES
GR CALIBRATOR TOOL	-	YES
CAL	-	0.0000 LB/G

MEASUREMENTS RECORDED

RES	64 PTS	1FPS
GR	64 PTS	1FPS
CAL	64 PTS	1FPS
SSS	64 PTS	1FPS
LSS	64 PTS	1FPS

DATA TOOL CHECK

	BATTERY	PTCH
HEAT	27.0V	0.0 DEG

POROSITY CHANGE CLIMPC: .45%

DP 0A.0 FILE 1# 10:00/7-OCT-93 04:01

MAIN LOG

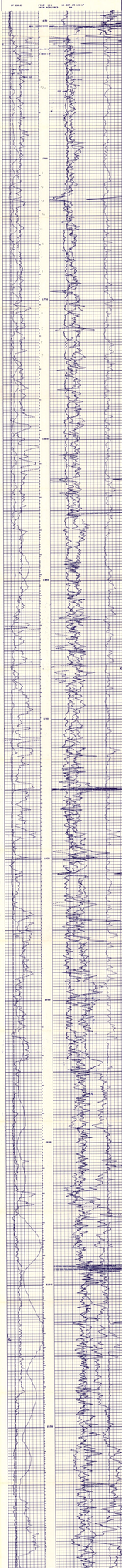
CSU Full Log

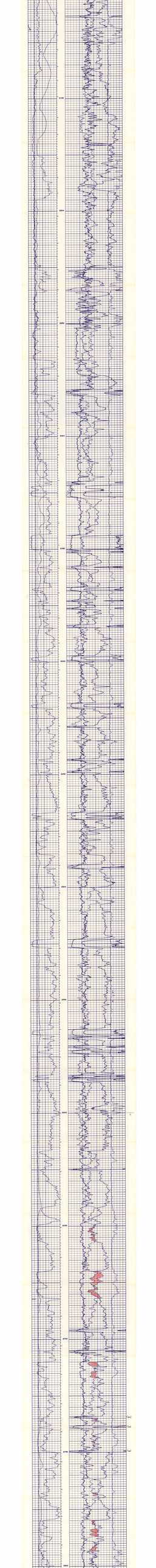
EVENT MARK SUMMARY:

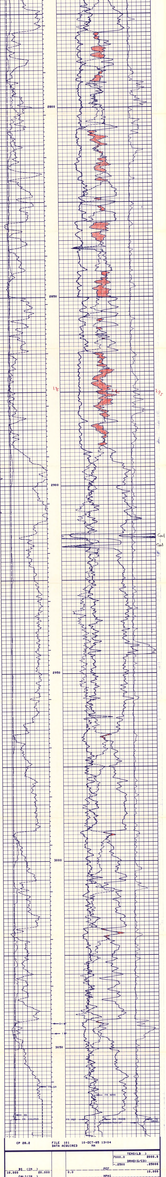
BUFFER CHANNEL	DEPTH TRACK
BETWEEN PIPS	DEPTH
INH	LEADING ED LEFT EDGE

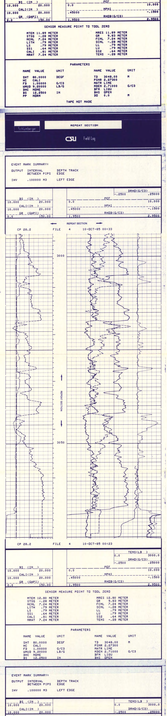
		200/0/10/521 400/0
TT 1	140 /40 /60	140
		0.2 0.2
GR	0/150	0/150
		0.2 0.2
RHOB/DRHO	1.95/0.25	1.95/0.25
		0.2 0.2

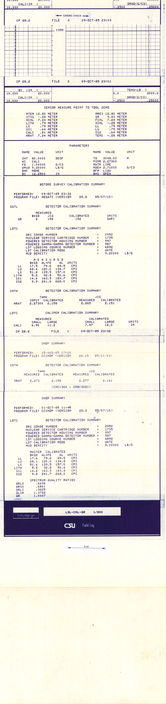
DP 0A.0 FILE 1# 10:00/7-OCT-93 04:01
DATA ACQUIRED











CSU

Field Log

COMPANY: AMOCO AUSTRALIA PETROLEUM CO. 332035

WELL: TILANA #1

FIELD: OTWAY
LOCATION: OFFSHORE
SURVEY: REGIONAL
COUNTY: OTWAY BASIN
STATE: VICTORIA

LATITUDE: 038 58'56.36"S
LONGITUDE: 142 51'56.76"E

PERMANENT DATUM: MEAN SEA LEVEL ELEVATION: 0 M
LOG MEASURED FROM: KB 25.0 M ABOVE PERM. DATUM
DRILL MEASURED FROM: KB

DATE: 21 OCT 87

RUN NUMBER: ONE

DEPTH DRILLER: 3004.0 M
DEPTH LOGGER: 3004.0 M
BTM LOG INTERVAL: 3003.0 M
TOP LOG INTERVAL: 2975.0 M
CASING DRILLER: 273.0 @ 1001.0 M
CASING LOGGER: 273.0 @ 1001.0 M
BIT SIZE: 311.1 MM @ 1001.0 M
TYPE FLUID IN HOLE: KCL/POLYMER
DENSITY: 9.60 LB/G
VISCOSITY: 47 S
PH: 9.50
FLUID LOSS: 4.0 C3
SOURCE OF SAMPLE: CIRC
RM @ MEAS TEMP: 0.160 @ 27.5 DEGF
RMF @ MEAS TEMP: 0.140 @ 27.5 DEGF
RMC @ MEAS TEMP: 0.210 @ 27.5 DEGF
SOURCE RMF/RMC: MEAS/ MEAS
RM @ BHT: 0.094 @ 213.0 DEGF
TIME CIRC STOPPED: 0700 HRS
TIME LOGGER ON BTM: 1130 HRS
MAX REC. TEMP: 213.0 DEGF
EQUIPMENT NO./ NO.: 3DP
LOCATION: 1 KM
RECORDED BY: M. MA'LA, L. SCHMITZ
WITNESSED BY: M. MA'LA

LOGGING SERVICES
RUN NUMBER ONE
DLL
BHC
GST-AM

PERSONNEL
ON SITE
ENGINEER
ASSISTANT
ON SHORE SUPPORT

KB ELEVATION 25.0 M ABOVE PERMANENT DATUM
GL ELEVATION -24.0 M BELOW PERMANENT DATUM
DF ELEVATION NOT APPLICABLE

DATA ACQUISITION AND BY-PASSED ZONES AT SURFACE FOR CASING SEAT SELECTION. THE DLL-MSFL-BHC-GST-AM TOOL STRING WAS RUN IN COMBINATION TO OBTAIN HIGH QUALITY LOGS OF THE FORMATIONS PENETRATED BY THE WELL