

Company: ExxonMobil

Well: FLA A-25a

Field: Flounder

Rig: Prod 4

Country: Australia

2 1/8" Enerjet Gun
MWPT
Perforating Record

Prod 4

Flounder

Gippsland Basin

FLA A-25a

ExxonMobil

LOCATION	Gippsland Basin Bass Strait	Elev.: K.B. 40.8 m G.L. -94 m D.F. 40.8 m		
		Permanent Datum: _____	Mean Sea Level _____	
		Log Measured From: _____	Kelly Bushing _____	
		Drilling Measured From: _____	Kelly Bushing _____	Elev.: 0.0 m _____
	State: Victoria	Max. Well Deviation 55 deg	Longitude 625 739 mE	Latitude 5 758 525 mN

Logging Date	19-Nov-2005		
Run Number	1		
Depth Driller	3576 m		
Schlumberger Depth	3568.5 m		
Bottom Log Interval	3568.5 m		
Top Log Interval	3523 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size			
From			
To			
Casing/Tubing Size	7.625 in		
Weight	29.7 lbm/ft		
Grade	L-80		
From	19.56 m		
To	3576 m		
Maximum Recorded Temperatures	110 degC		
Logger On Bottom	19-Nov-2005	10:15	
Unit Number	1	VEA	
Recorded By	Paul Tarrant & Joel Hogan		
Witnessed By	Barrie White		

	Run 1	Run 2	Run 3
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation	55 deg		
CEMENTING DATA			
Primary/Squeeze	Primary		
Casing String No			
Lead Cement Type			
Volume			
Density			
Water Loss			
Additives			
Tail Cement Type			
Volume			
Density			
Water Loss			
Additives			
Expected Cement Top			
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Fluid Type			
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size			
From			
To			
Casing/Tubing Size			
Weight			
Grade			
From			
To			
Maximum Recorded Temperatures			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 19-Nov-2005 8:54:20

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-H Serial Number: 797 Calibration Date: 01-May-2005 Calibrator Serial Number: 1009 Calibration Cable Type: 2-32ZT Wheel Correction 1: -3 Wheel Correction 2: 2	Type: CMTD-C Serial Number: 1037 Calibration Date: 22-Sep-2005 Calibrator Serial Number: 57144 Calibration Gain: 1.295 Calibration Offset: 777.00	Type: 2-32ZT Serial Number: 22372 Length: 4799.99 M Conveyance Method: Wireline Rig Type: Offshore_Fixed

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	Solar Log
Reference Log Run Number:	1
Reference Log Date:	27-Jan-2002

Depth Control Remarks

1.
2.
3.
4.
5.
6.

DISCLAIMER

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OTHER SERVICES1 OS1: MPBT OS2: DB-TT OS3: OS4: OS5:
REMARKS: RUN NUMBER 1
Log correlated to Solar log dated 27 Jan 05, provided by the client.
Objective: To perforate the well at 3558m to 3559m MDKB using 2 1/8" Enerjet gun loaded with PowerSpiral charges. After perforating, obtain static FBHP and FBHT, then flow well for 15 min to obtain FBHP, FBHT and also for well clean up. Static FBHP: 2206 psi FBHT: 228 degC

Static: FBHP = 3296 psi, FBHT = 226 degC.
Flowing: FBHP = 3275 psi, FBHT = 229 degC.
Formation GR reading extremely high and had to correlate with CCL.
API Data: PowerSpiral charges, UN 0441
Penetration: 27.3"
Entrance Hole: 0.30"
Specialist: Paul Tarrant & Joel Hogan
Operators: Andy Hall & Eddy Mezenberg
Performed by Schlumberger

RUN 1			RUN 2		
PROGRAM VERSION: FLUID LEVEL:			PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT		
MWPM-AA		

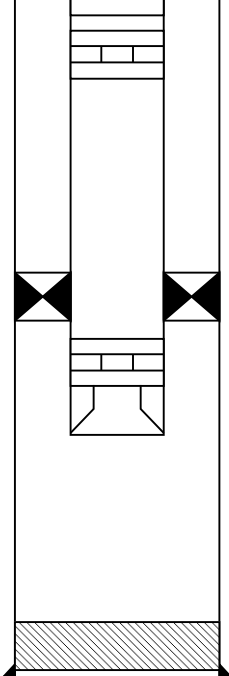
DOWNHOLE EQUIPMENT		
AH-SWBS AH-SWBS 731		11.02
AH-SWBS AH-SWBS 761		10.34
AH-SWBS AH-SWBS 762		9.65
AH-SWBS AH-SWBS 763		8.97
MH-SWHS MH-SWHS 726		8.28
MWGT-AA MWPG-AA 24 MWGH-AA 24		7.95
	MWPG GR	2.41
MWPT-CA MWPH-AA 74 MWPS-AA 74		6.97
	CCL SMWP Pres SMWP Temp Tension	TOOL ZERO
AH FLEX JOINT		4.15

4.15
3.85
3.54
3.05
2.74

TOOL BOTTOM

Rig Name: Flounder
Reference Datum: Kelly Bushing
Elevation: 40.8 m

Production String	(in)		(m)	Well Schematic	(m)		(in)	Casing String
	OD	ID			MD	MD		
Tubing Hanger	10.750	3.500	19.1		19.6	7.625	Casing String Liner Hanger	
					19.6	10.750		7.625
Shutin Valve	3.500		449.3					
Gas Lift Mandrel	3.500		1043.1			786.0	10.750	Casing Shoe
Gas Lift Mandrel	3.500		1786.6					
Gas Lift Mandrel	3.500		2048.6					

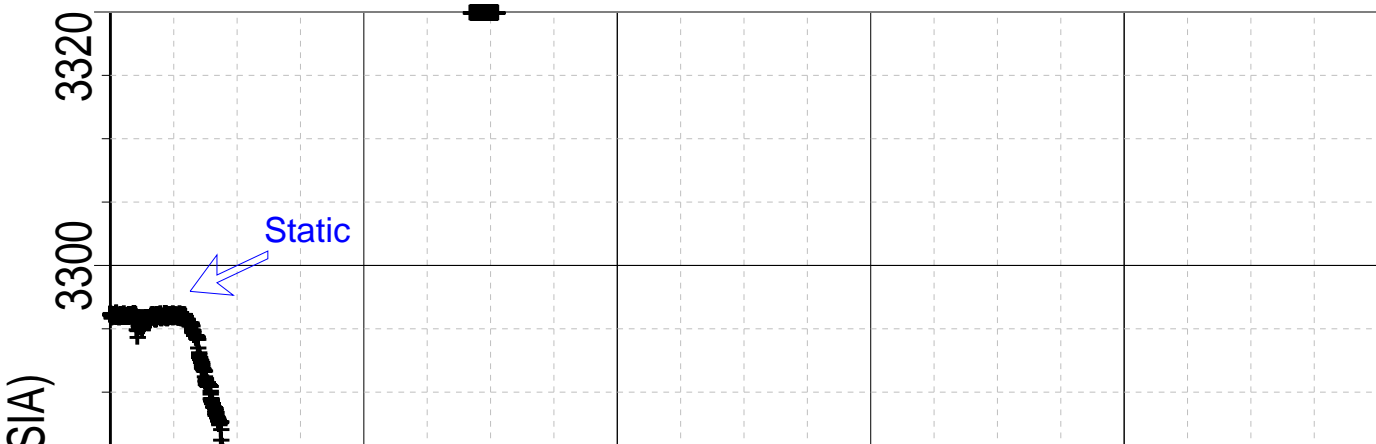
Nipple	3.500		2100.8					
Packer	7.625	3.500	3073.1					
Nipple	3.500		3094.2					
Bell Nipple Guide	3.500		3096.7					
					3576.0			
					3576.0	7.625		
								PBTD Casing Shoe

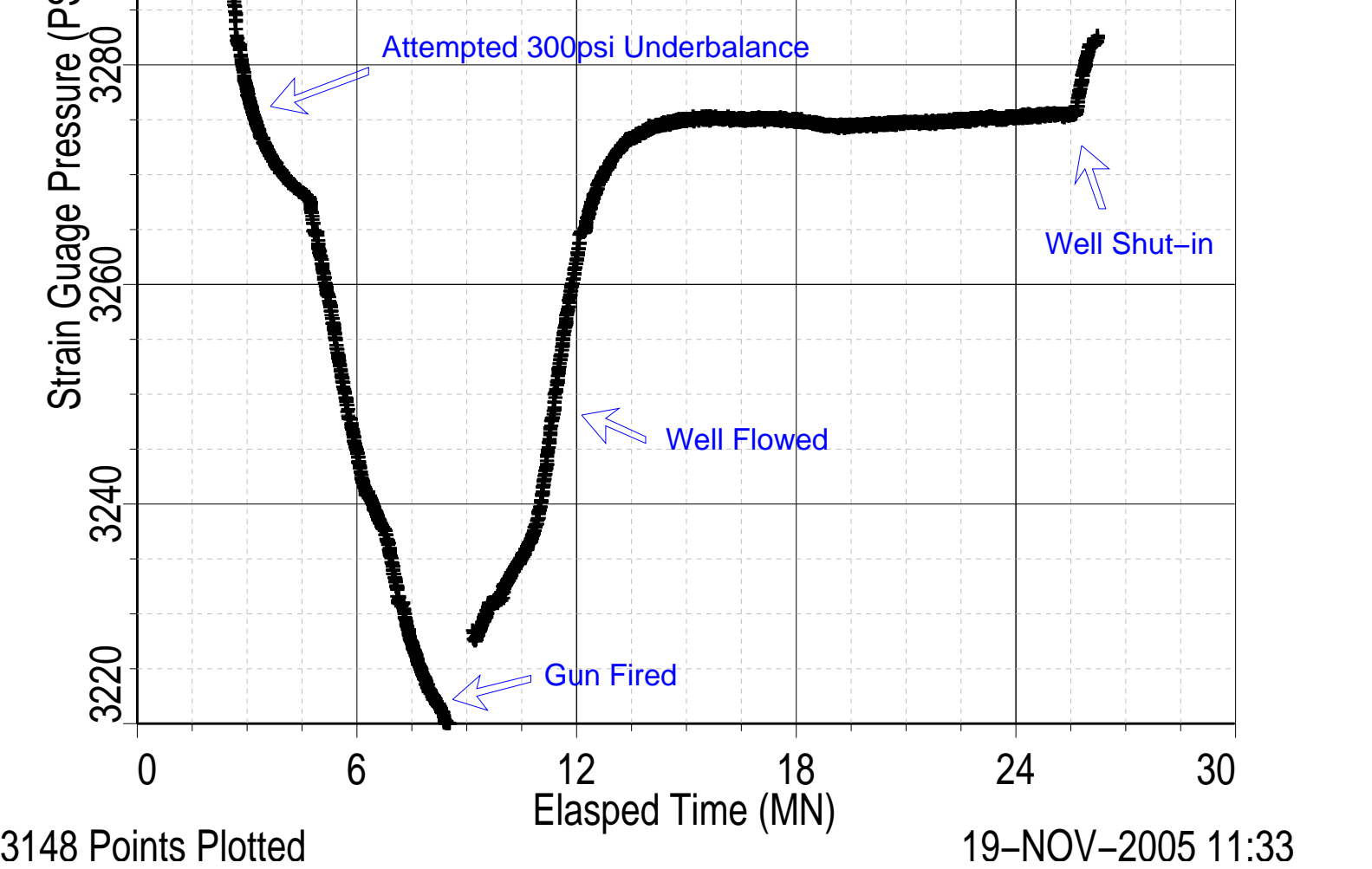


MWPT 2 1/8" EJ Gun
Station Log

MAXIS Field Log

Index: 48707.0 – 56700.4 M





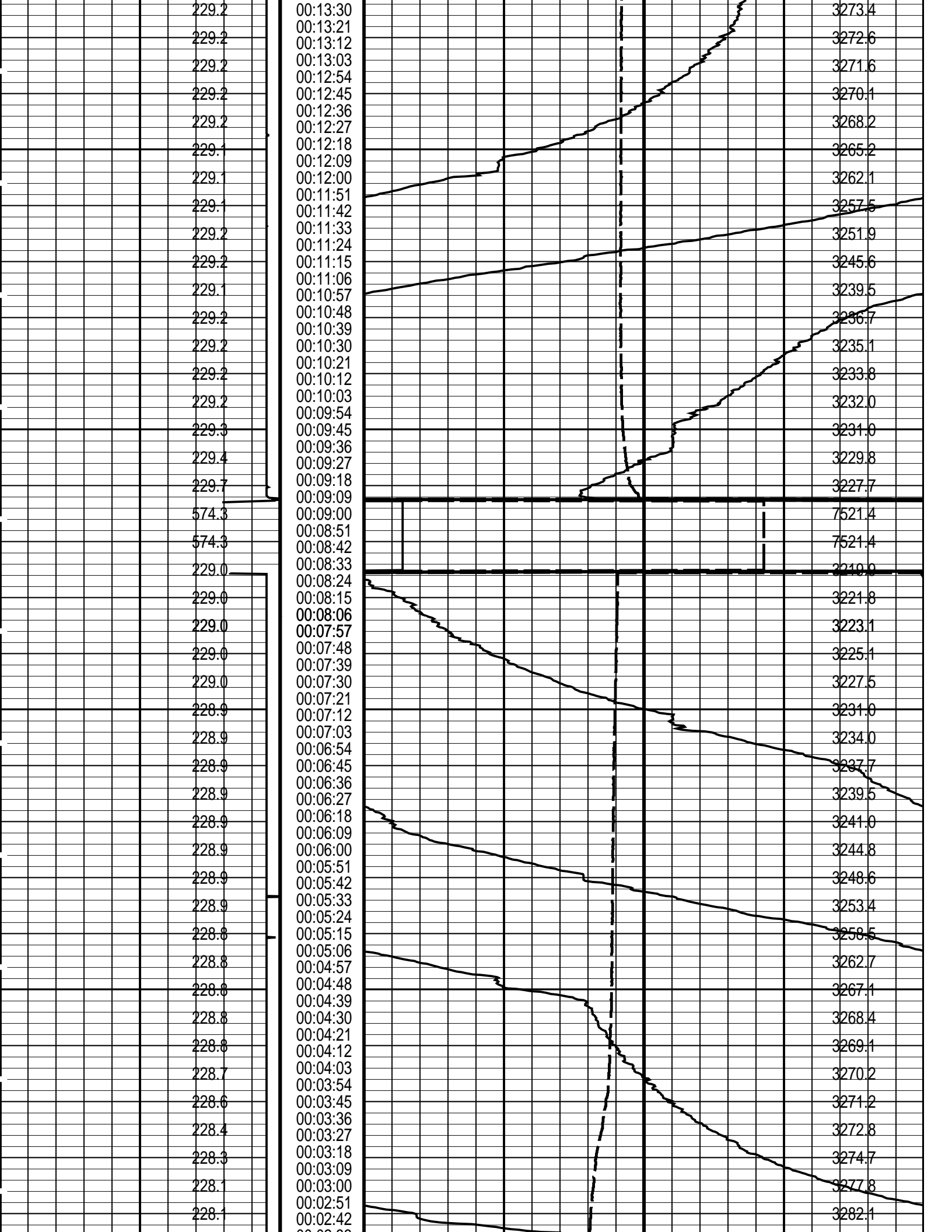
Output DLIS Files						
DEFAULT	PERFO_023LTP	FN:21	PRODUCER	19-Nov-2005 10:44	3553.4 M	4.0 M
OP System Version: 13C0-300						
MCM						
MWP_GUN	SRC-2820-ASFS-WPP_1	MWPT-CA		SRC-2820-ASFS-WPP_1		
MWGT-AA	SRC-2820-ASFS-WPP_1					

PIP SUMMARY

☒ Time Mark Every 60 S

Temperature (TEMP_MWPT_SL) (DEGF)		Pressure (SGPA_SL) (PSIA)	
CCL From CCL to T1		Temperature (TEMP_MWPT_SL) (DEGF)	
		0 20	
		0 1024	
Casing Collar Locator (CCL_SL)		Strain Gauge Pressure (SGP_SL) (PSIA)	
-19 (----) 1		0 20	
229.1	00:20:15		3283.5
229.1	00:26:06		3281.8
229.1	00:25:57		3277.8
229.1	00:25:48		3277.8
229.1	00:25:39		3275.4
229.1	00:25:30		3275.6
229.1	00:25:21		3275.6
229.1	00:25:12		3275.5
229.1	00:25:03		3275.5
229.1	00:24:54		3275.3
229.1	00:24:45		3275.3
229.1	00:24:36		3275.3

229.1	00:24:36	3275.3
229.1	00:24:27	3275.3
229.1	00:24:18	3275.3
229.1	00:24:09	3275.3
229.1	00:24:00	3275.2
229.1	00:23:51	3275.2
229.1	00:23:42	3275.2
229.1	00:23:33	3275.2
229.1	00:23:24	3275.2
229.1	00:23:15	3275.2
229.1	00:23:06	3275.1
229.1	00:22:57	3275.1
229.1	00:22:48	3274.8
229.1	00:22:39	3274.8
229.1	00:22:30	3275.1
229.1	00:22:21	3275.0
229.1	00:22:12	3275.0
229.1	00:22:03	3274.9
229.1	00:21:54	3274.8
229.1	00:21:45	3274.8
229.1	00:21:36	3274.8
229.1	00:21:27	3274.8
229.2	00:21:18	3274.9
229.2	00:21:09	3274.8
229.2	00:21:00	3274.8
229.1	00:20:51	3274.7
229.2	00:20:42	3274.6
229.2	00:20:33	3274.6
229.2	00:20:24	3274.6
229.2	00:20:15	3274.6
229.2	00:20:06	3274.5
229.2	00:19:57	3274.4
229.2	00:19:48	3274.4
229.2	00:19:39	3274.5
229.2	00:19:30	3274.5
229.2	00:19:21	3274.5
229.2	00:19:12	3274.4
229.2	00:19:03	3274.6
229.2	00:18:54	3274.8
229.2	00:18:45	3274.8
229.2	00:18:36	3274.9
229.2	00:18:27	3275.1
229.2	00:18:18	3275.1
229.2	00:18:09	3275.1
229.2	00:18:00	3275.1
229.2	00:17:51	3275.1
229.2	00:17:42	3275.1
229.2	00:17:33	3275.1
229.2	00:17:24	3275.1
229.2	00:17:15	3275.1
229.2	00:17:06	3275.1
229.2	00:16:57	3275.1
229.2	00:16:48	3275.1
229.2	00:16:39	3275.0
229.2	00:16:30	3275.1
229.2	00:16:21	3275.0
229.2	00:16:12	3275.1
229.2	00:16:03	3275.1
229.2	00:15:54	3275.1
229.2	00:15:45	3275.2
229.2	00:15:36	3275.0
229.2	00:15:27	3274.9
229.2	00:15:18	3274.8
229.2	00:15:09	3274.8
229.2	00:15:00	3274.7
229.2	00:14:51	3274.5
229.2	00:14:42	3274.3
229.2	00:14:33	3273.7
229.2	00:14:24	
229.2	00:14:15	
229.2	00:14:06	
229.2	00:13:57	
229.2	00:13:48	
229.2	00:13:39	



228.0	00:02:33	3288.4
228.0	00:02:15	3291.0
228.0	00:02:06	3294.5
228.0	00:01:57	3295.9
228.0	00:01:48	3296.0
228.0	00:01:39	3295.9
228.0	00:01:30	3296.0
228.0	00:01:21	3295.9
228.0	00:01:12	3296.0
228.0	00:01:03	3295.7
228.0	00:00:54	3296.1
228.0	00:00:45	3295.9
228.0	00:00:36	3296.1
228.0	00:00:27	3295.9
228.0	00:00:18	3296.1
228.0	00:00:09	3296.1
228.0	00:00:00	3296.1

Casing Collar Locator (CCL_SL)	Elapsed Time (ETIM) (S)	Strain Gauge Pressure (SGP_SL) (PSIA)
-19 (----) 1	0	20
CCL From CCL to T1	Firing Sequence State (FSS SL) (----)	Temperature (TEMP_MWPT_SL) (DEGF)
	0 1024	0 20

Temperature (TEMP_MWPT_SL) (DEGF)	Pressure (SGPA_SL) (PSIA)
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PIP SUMMARY
Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL		
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0 DEG
FLD	Flow Line Density	1 G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0 DEGC

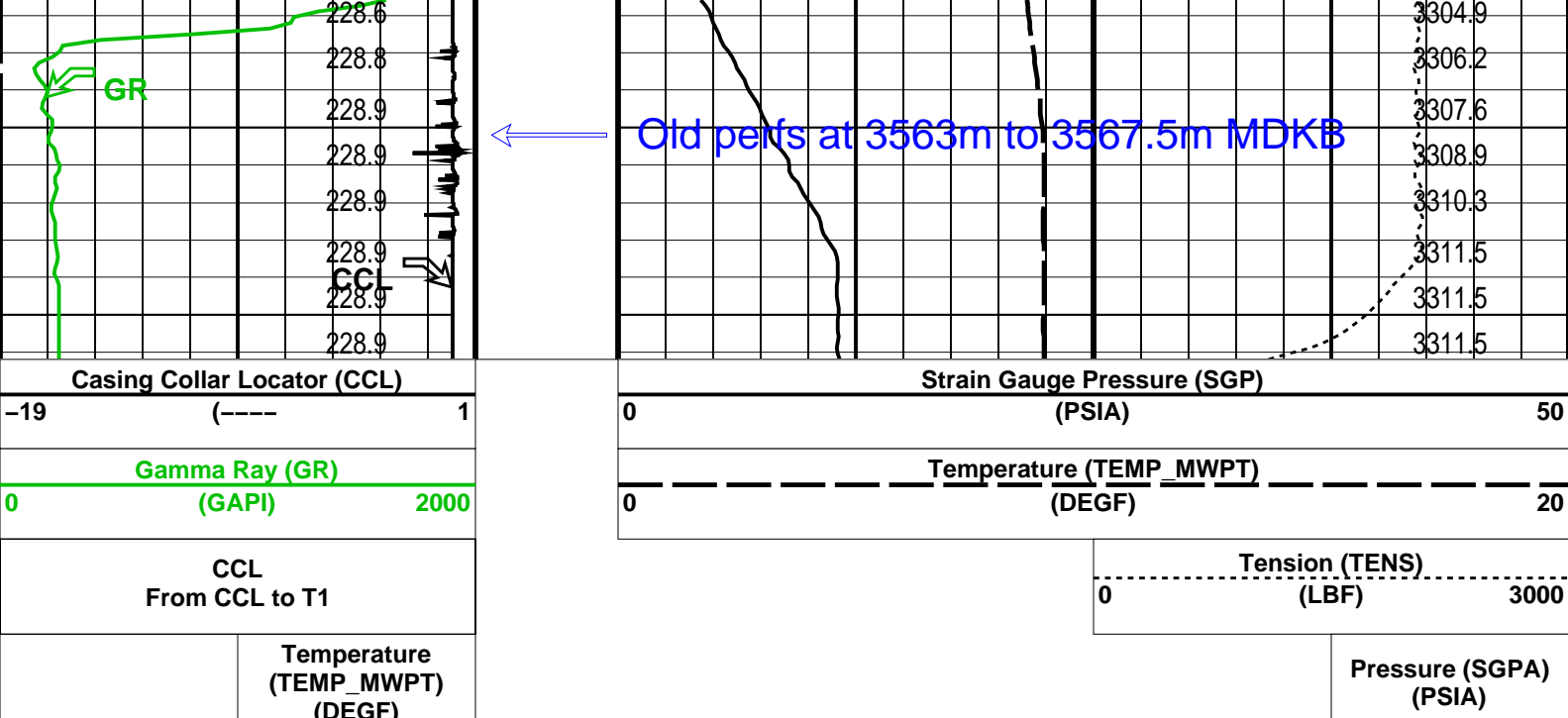
Format: MWP_SL	Vertical Scale: 1" per 60S	Graphics File Created: 19-Nov-2005 10:44
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OP System Version: 13C0-300 MCM			
MWP_GUN	SRC-2820-ASFS-WPP_t	MWPT-CA	SRC-2820-ASFS-WPP_t
MWGT-AA	SRC-2820-ASFS-WPP_t		

Output DLIS Files			
DEFAULT	PERFO_023LTP	FN:21	PRODUCER 19-Nov-2005 10:44

<div>  <div> MWPT 2 1/8" EJ Gun Shooting Pass </div> </div>	
MAXIS Field Log	

Output DLIS Files	
PERFO_023LTP	PERFO_023LTP
FN:21	PRODUCER 19-Nov-2005 10:44



PIP SUMMARY


Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL			
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0	DEG
FLD	Flow Line Density	1	G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS	
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0	DEGC

Format: MWP Vertical Scale: 1:200 Graphics File Created: 19-Nov-2005 10:30

OP System Version: 13C0-300			
MCM			
MWP_GUN	SRC-2820-ASFS-WPP_t	MWPT-CA	SRC-2820-ASFS-WPP_t
MWGT-AA	SRC-2820-ASFS-WPP_t		

Output DLIS Files			
DEFAULT	PERFO_021LUP	FN:19	PRODUCER 19-Nov-2005 10:30



MWPT 2 1/8" EJ Gun
Correlation Pass

MAXIS Field Log

Output DLIS Files			
DEFAULT	PERFO_020LUP	FN:18	PRODUCER 19-Nov-2005 10:24 3570.9 M 3529.6 M

OP System Version: 13C0-300			
MCM			
MWP_GUN	SRC-2820-ASFS-WPP_t	MWPT-CA	SRC-2820-ASFS-WPP_t

Time Mark Every 60 S

Temperature (TEMP_MWPT) (DEGF)		Pressure (SGPA) (PSIA)	
CCL From CCL to T1		Tension (TENS) (LBF)	
Gamma Ray (GR) (GAPI) 0 2000		Temperature (TEMP_MWPT) (DEGF) 0 20	
Casing Collar Locator (CCL) -19 (----) 1		Strain Gauge Pressure (SGP) (PSIA) 0 50	
<p>227.3</p> <p>227.3</p> <p>227.4</p> <p>227.4</p> <p>227.4</p> <p>227.4</p> <p>227.5</p> <p>227.5</p> <p>227.5</p> <p>227.6</p> <p>227.6</p> <p>227.6</p> <p>227.7</p> <p>227.7</p> <p>227.7</p> <p>227.8</p> <p>227.8</p> <p>227.9</p> <p>227.9</p> <p>228.0</p> <p>228.0</p> <p>228.1</p> <p>228.2</p> <p>228.3</p> <p>228.4</p> <p>228.5</p> <p>228.6</p> <p>228.8</p> <p>228.9</p> <p>228.9</p> <p>228.9</p> <p>228.9</p> <p>228.9</p> <p>228.9</p>		<p>3271.1</p> <p>3272.4</p> <p>3273.9</p> <p>3275.2</p> <p>3276.4</p> <p>3278.0</p> <p>3279.3</p> <p>3280.6</p> <p>3281.9</p> <p>3282.5</p> <p>3284.3</p> <p>3285.9</p> <p>3287.4</p> <p>3288.4</p> <p>3290.0</p> <p>3290.9</p> <p>3292.3</p> <p>3293.9</p> <p>3295.2</p> <p>3296.4</p> <p>3298.3</p> <p>3299.1</p> <p>3299.9</p> <p>3301.7</p> <p>3303.1</p> <p>3304.4</p> <p>3305.7</p> <p>3307.1</p> <p>3308.1</p> <p>3309.8</p> <p>3310.7</p> <p>3310.8</p> <p>3310.8</p>	
Casing Collar Locator (CCL) -19 (----) 1		Strain Gauge Pressure (SGP) (PSIA) 0 50	

Gamma Ray (GR)		Temperature (TEMP_MWPT)	
0	(GAPI)	2000	0 (DEGF) 20
CCL From CCL to T1		Tension (TENS) 0 (LBF) 3000	
	Temperature (TEMP_MWPT) (DEGF)		Pressure (SGPA) (PSIA)

PIP SUMMARY			
Time Mark Every 60 S			

Parameters			
DLIS Name	Description	Value	
MWPT-CA: MEASUREMENT WHILE PERFORATING TOOL			
DEVI_FL_CORR	Deviation Angle for Flow Line Correction	0	DEG
FLD	Flow Line Density	1	G/C3
MWPT_NULL_SOURCE	MWPT NULL Temperature Source	TEMS	
MWPT_NULL_TEMP	MWPT NULL Temperature	0.0	DEGC

Format: MWP	Vertical Scale: 1:200	Graphics File Created: 19-Nov-2005 10:24
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OP System Version: 13C0-300			
MCM			
MWP_GUN	SRC-2820-ASF5-WPP_t	MWPT-CA	SRC-2820-ASF5-WPP_t
MWGT-AA	SRC-2820-ASF5-WPP_t		

Output DLIS Files			
DEFAULT	PERFO_020LUP	FN:18	PRODUCER 19-Nov-2005 10:24

Company:	ExxonMobil	Schlumberger
Well:	FLA A-25a	
Field:	Flounder	
Rig:	Prod 4	
Country:	Australia	
2 1/8" Enerjet Gun		
MWPT		
Perforating Record		