



Weatherford®

Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Rescources**

3817 NW Expressway Suite 500
Ok. City, OK 73112

KCC
SEP 13 2007
CONFIDENTIAL

ATTN: Dale Passig

23/32s/37w

Willis 23-1

Start Date: 2007.05.24 @ 02:52:21

End Date: 2007.05.24 @ 17:50:06

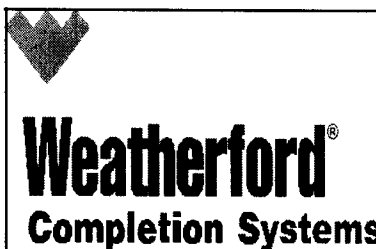
Job Ticket #: 27317 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 14 2007

CONSERVATION DIVISION
WICHITA, KS

ALPINE OIL SERVICES CORPORATION
2460, 240 - 4 Avenue S.W. Calgary, AB. T2P 4H4
ph: 263-7800 fax: 264-7260

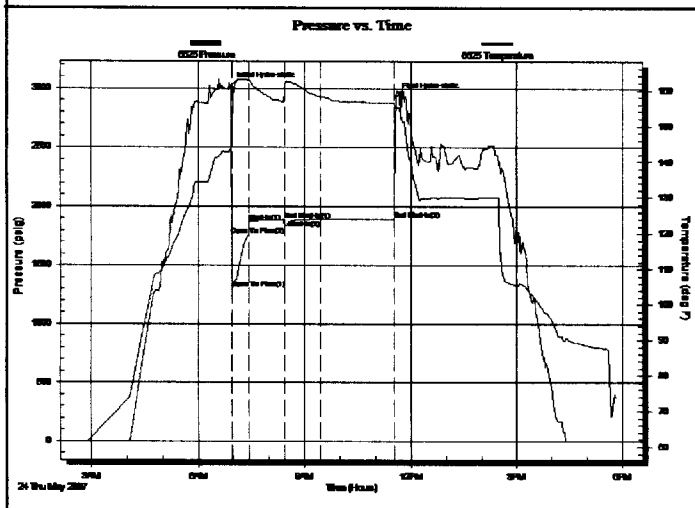
	DRILL STEM TEST REPORT	
	EOG Resources 3817 NW Expressway Suite 500 Ok. City, OK 73112 ATTN: Dale Passig	Willis 23-1 23/32s/37w Job Ticket: 27317 DST#: 1 Test Start: 2007.05.24 @ 02:52:21

GENERAL INFORMATION:	
Formation: St. Louis Deviated: No Whipstock: ft (KB) Time Tool Opened: 06:57:36 Time Test Ended: 17:50:06 Interval: 6350.00 ft (KB) To 6373.00 ft (KB) (TVD) Total Depth: 6373.00 ft (KB) (TVD) Hole Diameter: 6.75 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole Tester: Delton Brown Unit No: 20 Reference Elevations: 3122.00 ft (KB) 3110.00 ft (CF) KB to GR/CF: 12.00 ft

Serial #: 6625 Inside Press@RunDepth: 1891.60 psig @ 6351.00 ft (KB) Start Date: 2007.05.24 End Date: 2007.05.24 Start Time: 02:52:22 End Time: 17:50:06	Capacity: 7000.00 psig Last Calib.: 1899.12.30 Time On Btm: 2007.05.24 @ 06:56:21 Time Off Btm: 2007.05.24 @ 11:34:36
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TEST COMMENT: IF: Strong blow , BOB 30 Sec., GTS 20 min. To weak to guage.
 IS: Return blow , BOB
 FF: Strong blow , BOB & GTS ASAO. To weak to guage.
 FS: Return blow 1" in to bucket.

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PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3020.09	143.88	Initial Hydro-static
2	1301.94	144.12	Open To Flow (1)
31	1867.32	162.99	Shut-In(1)
90	1890.98	156.66	End Shut-In(1)
91	1831.87	159.28	Open To Flow (2)
151	1891.60	158.08	Shut-In(2)
276	1894.94	156.49	End Shut-In(2)
279	2934.69	155.02	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
93.00	gassy oil: 4% G/96% O	0.46
5018.00	Gassy oil - dropped bar - pumped recovery	67.90

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

	DRILL STEM TEST REPORT		TOOL DIAGRAM																																																																																										
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Tool Information <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Drill Pipe:</td> <td style="width: 15%;">Length: 5984.00 ft</td> <td style="width: 15%;">Diameter: 3.80 inches</td> <td style="width: 15%;">Volume: 83.94 bbl</td> <td style="width: 15%;">Tool Weight: 2000.00 lb</td> </tr> <tr> <td>Heavy Wt. Pipe:</td> <td>Length: 0.00 ft</td> <td>Diameter: 0.00 inches</td> <td>Volume: 0.00 bbl</td> <td>Weight set on Packer: 25000.00 lb</td> </tr> <tr> <td>Drill Collar:</td> <td>Length: 366.00 ft</td> <td>Diameter: 2.25 inches</td> <td>Volume: 1.80 bbl</td> <td>Weight to Pull Loose: 140000.0 lb</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">Total Volume: 85.74 bbl</td> <td>Tool Chased 0.00 ft</td> </tr> <tr> <td>Drill Pipe Above KB:</td> <td>30.00 ft</td> <td colspan="2"></td> <td>String Weight: Initial 94000.00 lb</td> </tr> <tr> <td>Depth to Top Packer:</td> <td>6350.00 ft</td> <td colspan="2"></td> <td style="text-align: right;">Final 12000.00 lb</td> </tr> <tr> <td>Depth to Bottom Packer:</td> <td>ft</td> <td colspan="3"></td> </tr> <tr> <td>Interval between Packers:</td> <td>23.00 ft</td> <td colspan="3"></td> </tr> <tr> <td>Tool Length:</td> <td>53.00 ft</td> <td colspan="3"></td> </tr> <tr> <td>Number of Packers:</td> <td>2</td> <td>Diameter:</td> <td>7.78 inches</td> <td></td> </tr> <tr> <td colspan="5">Tool Comments:</td> </tr> </table>				Drill Pipe:	Length: 5984.00 ft	Diameter: 3.80 inches	Volume: 83.94 bbl	Tool Weight: 2000.00 lb	Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb	Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 140000.0 lb				Total Volume: 85.74 bbl	Tool Chased 0.00 ft	Drill Pipe Above KB:	30.00 ft			String Weight: Initial 94000.00 lb	Depth to Top Packer:	6350.00 ft			Final 12000.00 lb	Depth to Bottom Packer:	ft				Interval between Packers:	23.00 ft				Tool Length:	53.00 ft				Number of Packers:	2	Diameter:	7.78 inches		Tool Comments:																																							
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	DRILL STEM TEST REPORT		FLUID SUMMARY
	EOG Resources 3817 NW Expressway Suite 500 Ok. City, OK 73112 ATTN: Dale Passig	Willis 23-1 23/32s/37w Job Ticket: 27317 DST#: 1 Test Start: 2007.05.24 @ 02:52:21	

Mud and Cushion Information			
Mud Type:	Gel Chem	Cushion Type:	
Mud Weight:	9.00 lb/gal	Cushion Length:	ft
Viscosity:	43.00 sec/qt	Cushion Volume:	bbl
Water Loss:	7.59 cm³	Gas Cushion Type:	
Resistivity:	ohm.m	Gas Cushion Pressure:	psig
Salinity:	500.00 ppm		
Filter Cake:	inches		

Recovery Information		
Recovery Table		
Length ft	Description	Volume bbl
93.00	gassy oil: 4%G/96%O	0.457
5018.00	Gassy oil - dropped bar - pumped recover	67.902

Total Length: 5111.00 ft Total Volume: 68.359 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW=.85@71F=7100ppm
 Gravity=44.6@78F=43api

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GAS RATES

EOG Rescources

Willis 23-1

3817 NW Expressway Suite 500

23/32s/37w

Ok. City, OK 73112

Job Ticket: 27317

DST#: 1

ATTN: Dale Passig

Test Start: 2007.05.24 @ 02:52:21

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
		0.00	0.00	0.00

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DST Test Number: 1

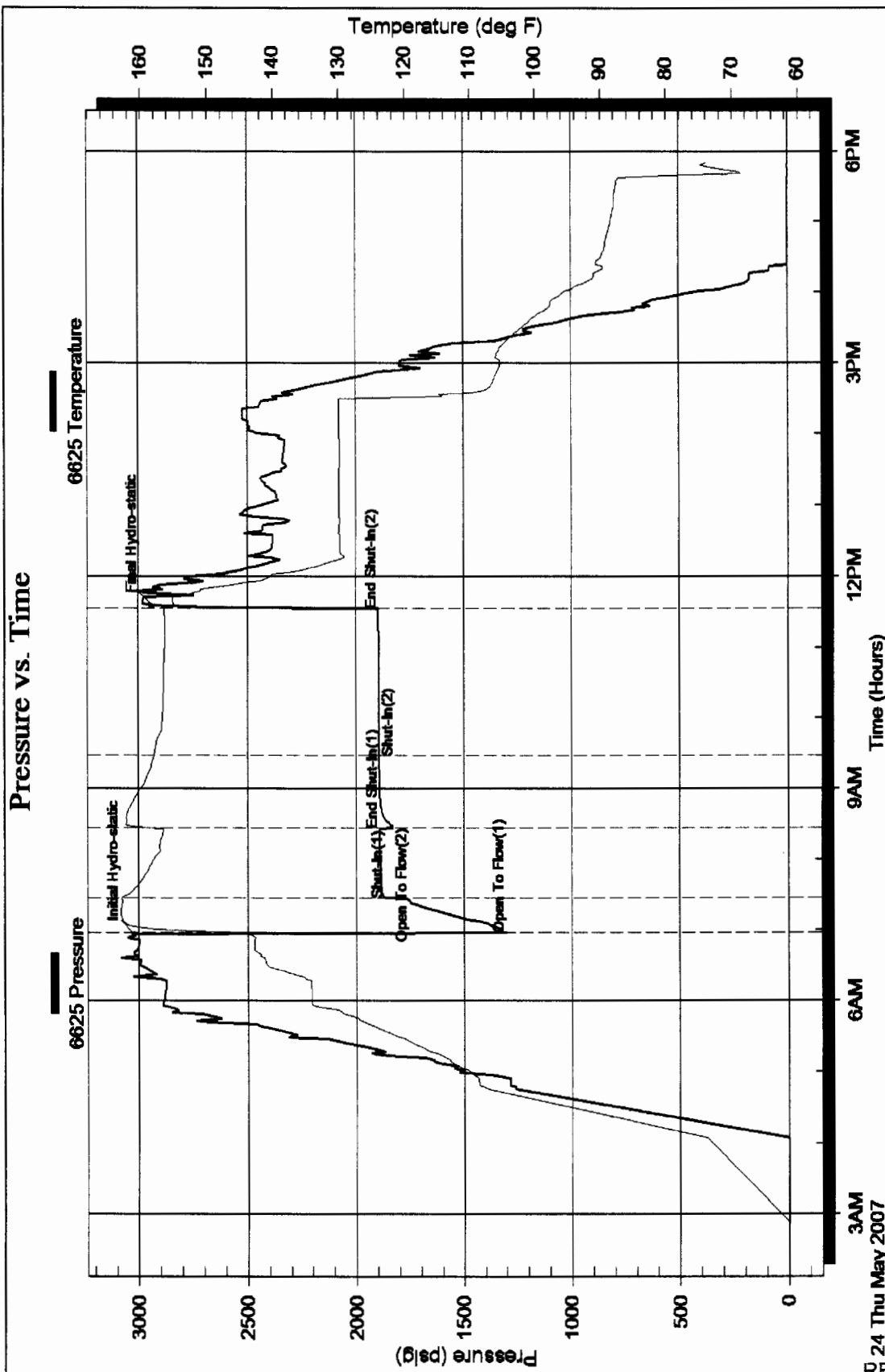
23/32s/37w

EOG Resources

Inside

Serial #: 6625

Pressure vs. Time



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Ref. No: 27317

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