

5-33s-39w

IND



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources**

3817 NW EXPWY STE 500
Oklahoma City OK, 73112

ATTN: Preston Heiskell

15-129-21869

5/33/39
Haywood Farms 5-1
Haywoo Farms 5-#1

Start Date: 2009.04.20 @ 02:05:44

End Date: 2009.04.20 @ 10:12:44

Job Ticket #: 34034

DST #: 1

Morton Q

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

EOG Resources

Haywoo Farms 5-#1

5/33/39

DST # 1

Lower Morrow

2009.04.20



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DRILL STEM TEST REPORT

EOG Resources

3817 NW EXPWY STE 500
Oklahoma City OK, 73112

ATTN: Preston Heiskell

Haywoo Farms 5-#1

5/33/39

Job Ticket: 34034

DST#: 1

Test Start: 2009.04.20 @ 02:05:44

GENERAL INFORMATION:

Formation: Lower Morrow

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:44

Time Test Ended: 10:12:44

Test Type: Conventional Bottom Hole

Tester: Mike Slemp

Unit No: 28

Interval: 5938.00 ft (KB) To 6020.00 ft (KB) (TVD)

Total Depth: 6020.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3268.00 ft (KB)

3256.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8321

Inside

Press@RunDepth: 1990.44 psig @ 5940.00 ft (KB)

Start Date: 2009.04.20

End Date:

2009.04.20

Start Time: 02:05:45

End Time:

10:12:44

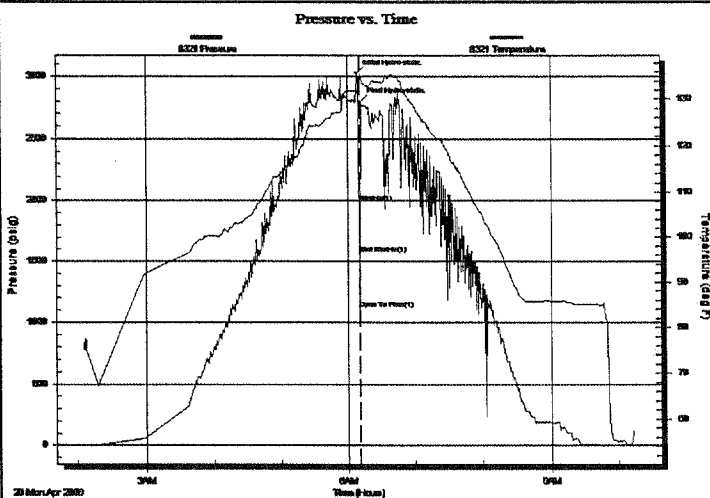
Capacity: 7000.00 psig

Last Calib.: 2009.04.20

Time On Btm: 2009.04.20 @ 06:07:59

Time Off Btm: 2009.04.20 @ 06:11:29

TEST COMMENT: Misrun- Packers wouldn't seat.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3025.40	131.62	Initial Hydro-static
2	1109.14	131.62	Open To Flow (1)
3	1990.44	135.62	Shut-In(1)
4	1561.71	134.53	End Shut-In(1)
4	2792.77	135.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	100% mud	3.64

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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EOG Resources

3817 NW EXPWY STE 500
Oklahoma City OK, 73112

ATTN: Preston Heiskell

Haywoo Farms 5-#1

5/33/39

Job Ticket: 34034

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Tester: Mike Slemp

Unit No: 28

Interval: **5938.00 ft (KB) To 6020.00 ft (KB) (TVD)**

Total Depth: 6020.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches -hole Condition: Fair

Reference Elevations: 3268.00 ft (KB)

3256.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 6752

Inside

Press@RunDepth: psig @ 5940.00 ft (KB)

Start Date: 2009.04.20

End Date:

2009.04.20

Capacity: 7000.00 psig

Last Calib.:

2009.04.20

Start Time: 02:00:16

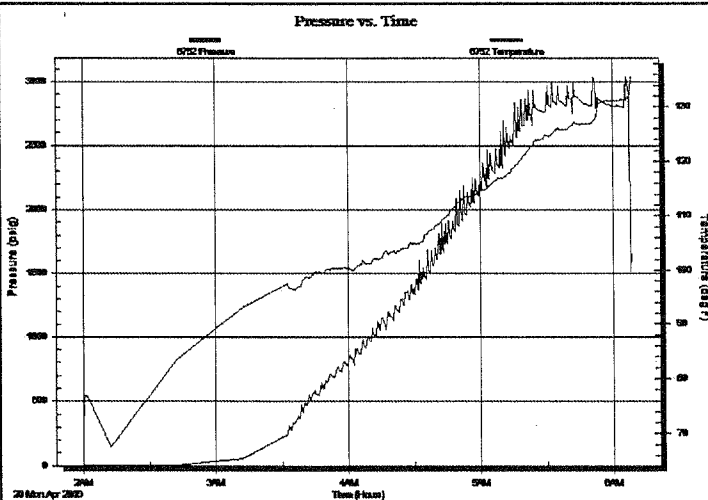
End Time:

06:08:45

Time On Btm:

Time Off Btm:

TEST COMMENT: Misrun- Packers wouldn't seat.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
500.00	100% mud	3.64

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TOOL DIAGRAM

EOG Resources

Haywoo Farms 5#1

3817 NW EXPWY STE 500
Oklahoma City OK, 73112

5/33/39

Job Ticket: 34034

DST#: 1

ATTN: Preston Heiskell

Test Start: 2009.04.20 @ 02:05:44

Tool Information

Drill Pipe:	Length: 5547.00 ft	Diameter: 3.80 inches	Volume: 77.81 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: 370.00 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose:	140000.0 lb
			Total Volume: 79.63 bbl	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	5938.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	82.00 ft				
Tool Length:	112.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5909.00	
Shut In Tool	5.00			5914.00	
Sampler	3.00			5917.00	
Hydraulic tool	5.00			5922.00	
Jars	5.00			5927.00	
Safety Joint	2.00			5929.00	
Packer - Shale	5.00			5934.00	
Packer	4.00			5938.00	30.00 Bottom Of Top Packer
Stubb	1.00			5939.00	
Perforations	1.00			5940.00	
Recorder	0.00	8321	Inside	5940.00	
Recorder	0.00	6752	Inside	5940.00	
Perforations	13.00			5953.00	
Change Over Sub	1.00			5954.00	
Drill Pipe	62.00			6016.00	
Change Over Sub	1.00			6017.00	
Bullnose	3.00			6020.00	82.00 Anchor Tool
Total Tool Length:	112.00				

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FLUID SUMMARY

EOG Resources

Haywoo Farms 5-#1

3817 NW EXPWY STE 500
Oklahoma City OK, 73112

5/33/39

Job Ticket: 34034

DST#: 1

ATTN: Preston Heiskell

Test Start: 2009.04.20 @ 02:05:44

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.19 cm³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
500.00	100% mud	3.643

Total Length: 500.00 ft

Total Volume: 3.643 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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GAS RATES

EOG Resources

Haywoo Farms 5-#1

3817 NW EXPWY STE 500
Oklahoma City OK, 73112

5/33/39

Job Ticket: 34034

DST#: 1

ATTN: Preston Heiskell

Test Start: 2009.04.20 @ 02:05:44

Gas Rates Information

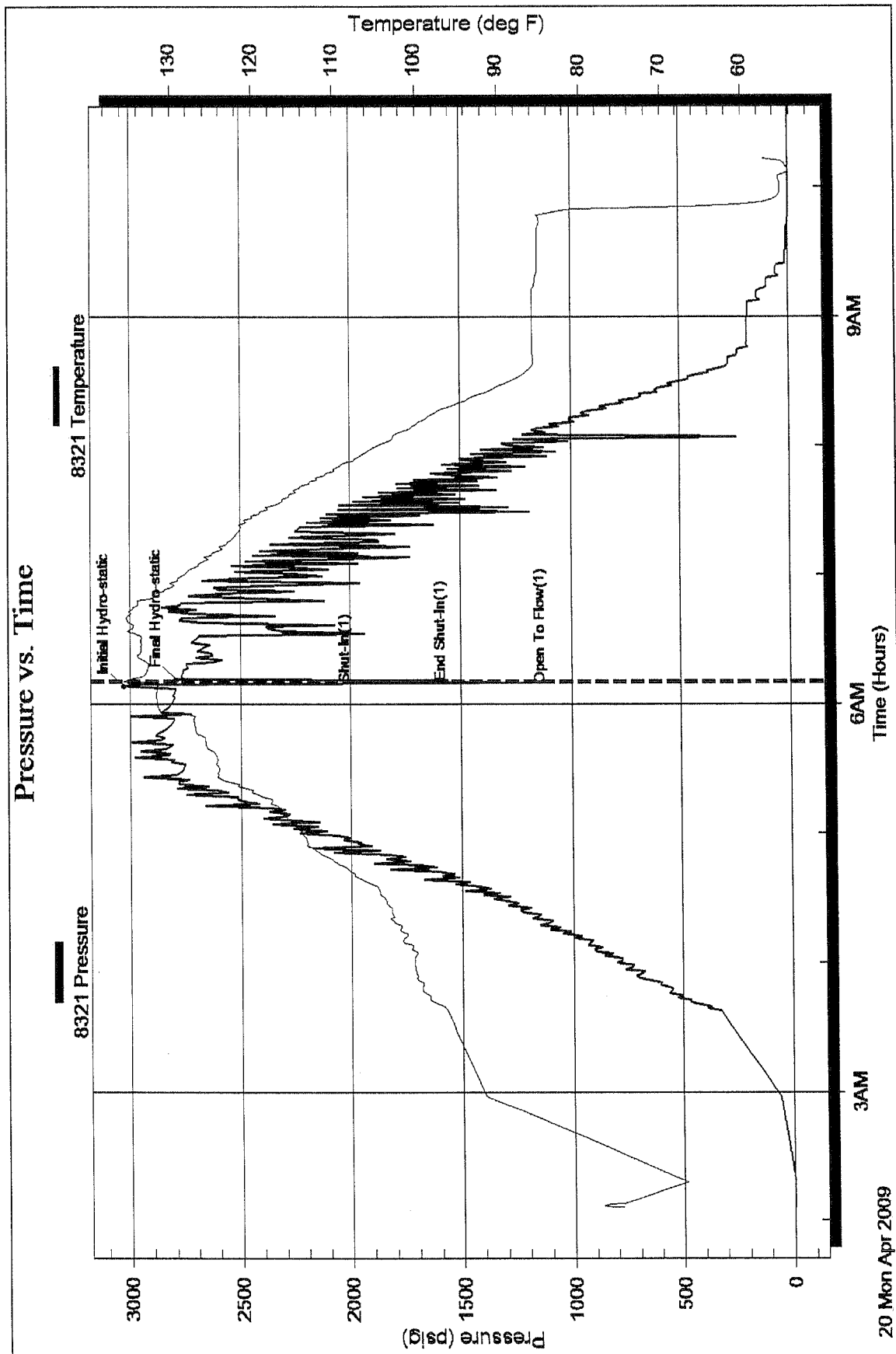
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

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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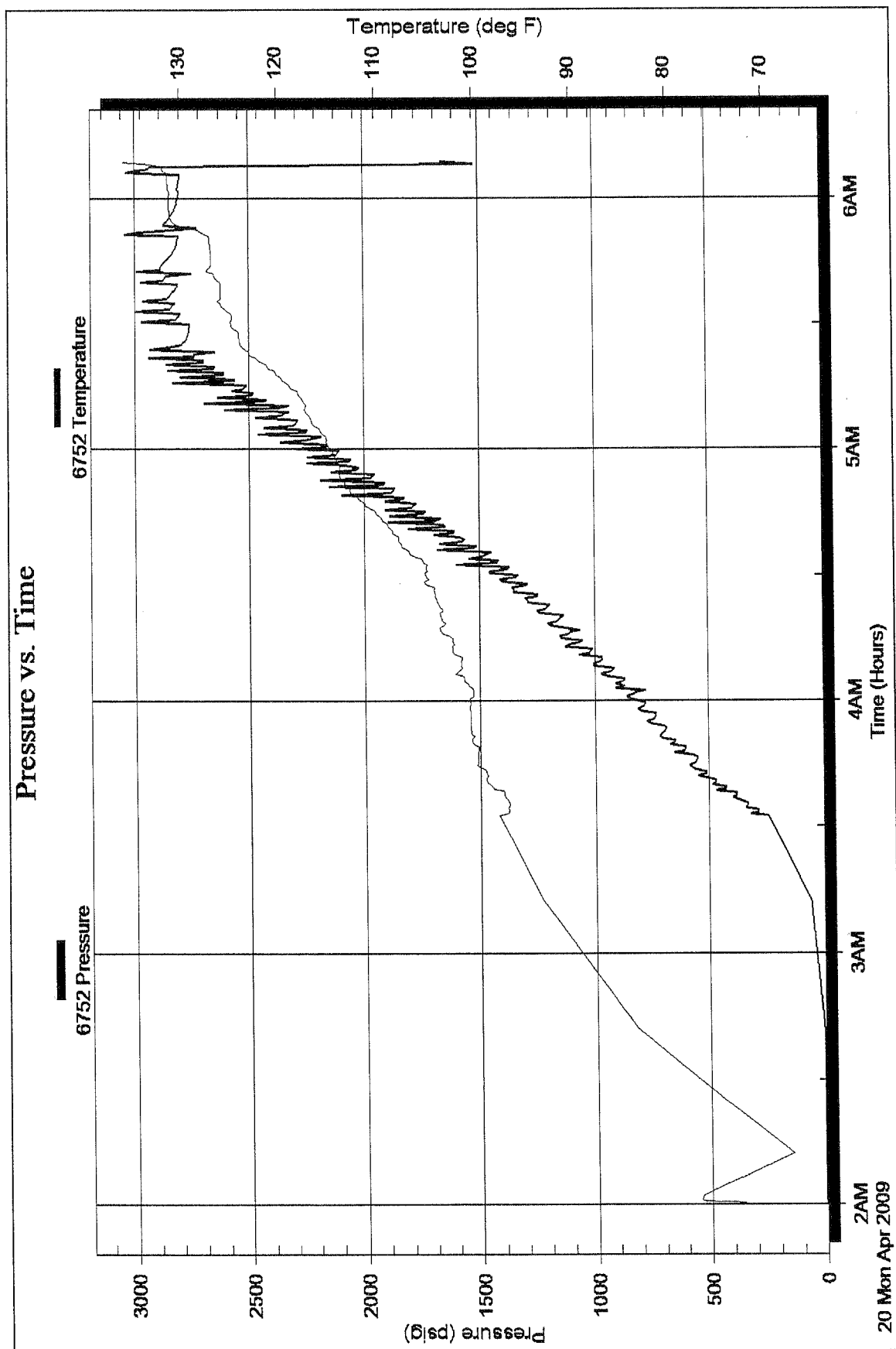
Pressure vs. Time



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Pressure vs. Time



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