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# Weatherford® Completion Systems

## DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

381 NW Expressway Ste. 500 Oklahoma City  
Ok. 73112

ATTN: Preston

**34/32/37**

**Simpson 34 #1**

Start Date: 2009.05.27 @ 02:00:00

End Date: 2009.05.27 @ 13:40:45

Job Ticket #: 31070                      DST #: 1

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

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EOG Resources Inc.

Simpson 34 #1

34/32/37

DST # 1

Lower Morrow

2009.05.27



# Weatherford® Completion Systems

## DRILL STEM TEST REPORT

EOG Resources Inc.

**Simpson 34 #1**

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73112

**34/32/37**

ATTN: Preston

Job Ticket: 31070

**DST#: 1**

Test Start: 2009.05.27 @ 02:00:00

**GENERAL INFORMATION:**

Formation: **Lower Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:07:45  
 Time Test Ended: 13:40:45

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Test Type: Conventional Bottom Hole  
 Tester: Harley Davidson  
 Unit No: 33

Interval: **5979.00 ft (KB) To 6055.00 ft (KB) (TVD)**  
 Total Depth: 6055.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3127.00 ft (KB)  
 3115.00 ft (CF)  
 KB to GR/CF: 12.00 ft

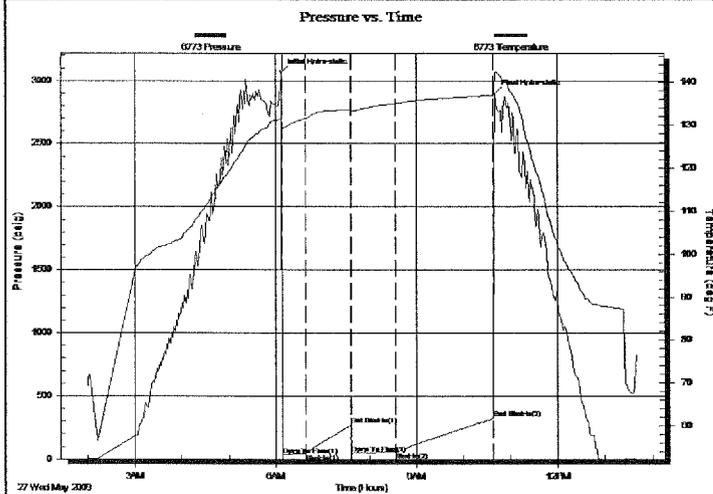
**Serial #: 6773**

Inside

Press@RunDepth: 57.20 psig @ 5980.00 ft (KB)  
 Start Date: 2009.05.27 End Date: 2009.05.27  
 Start Time: 02:00:01 End Time: 13:40:45

Capacity: 7000.00 psig  
 Last Calib.: 2009.05.27  
 Time On Btm: 2009.05.27 @ 06:06:30  
 Time Off Btm: 2009.05.27 @ 10:41:15

TEST COMMENT: IF- Weak building blow BOB 16 min.  
 IS- NO blow back.  
 FF- Weak building blow BOB 29min.  
 FS- NO blow back.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3067.72	131.56	Initial Hydro-static
2	31.44	129.53	Open To Flow (1)
32	45.72	131.59	Shut-In(1)
89	270.68	133.72	End Shut-In(1)
90	43.71	133.49	Open To Flow (2)
147	57.20	135.05	Shut-In(2)
273	322.93	137.03	End Shut-In(2)
275	2896.60	142.42	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
200.00	trace of gas 100% mud	0.98

**Gas Rates**

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





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**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

EOG Resources Inc.

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Job Ticket: 31070

**DST#: 1**

Test Start: 2009.05.27 @ 02:00:00

**Tool Information**

Drill Pipe:	Length: 5586.00 ft	Diameter: 3.80 inches	Volume: 78.36 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 80.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	5979.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5954.00	
Sampler	2.00			5956.00	
Hydraulic tool	5.00			5961.00	
Jars	5.00			5966.00	
Safety Joint	3.00			5969.00	
Packer	5.00			5974.00	30.00 Bottom Of Top Packer
Packer	5.00			5979.00	
Stubb	1.00			5980.00	
Recorder	0.00	6773	Inside	5980.00	
Recorder	0.00	8355	Inside	5980.00	
Change Over Sub	1.00			5981.00	
Drill Pipe	62.00			6043.00	
Change Over Sub	1.00			6044.00	
Perforations	7.00			6051.00	
Bullnose	4.00			6055.00	76.00 Bottom Packers & Anchor

**Total Tool Length: 106.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

EOG Resources Inc.

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**34/32/37**

ATTN: Preston

Job Ticket: 31070

**DST#: 1**

Test Start: 2009.05.27 @ 02:00:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.99 cm<sup>3</sup>

Gas Cushion Type:

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Resistivity: ohm.m

Gas Cushion Pressure:

psig

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Salinity: 1600.00 ppm

Filter Cake: inches

**Recovery Information**

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Recovery Table

Length ft	Description	Volume bbl
200.00	trace of gas 100% mud	0.984

Total Length: 200.00 ft      Total Volume: 0.984 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- 2000ML Mud with trace of gas @ 300 PSI.



# DRILL STEM TEST REPORT

GAS RATES

**Weatherford®**  
**Completion Systems**

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**34/32/37**

ATTN: Preston

Job Ticket: 31070

DST#: 1

Test Start: 2009.05.27 @ 02:00:00

## 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 (m <sup>3</sup> /d)
		0.00	0.00	0.00

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DST Test Number: 1

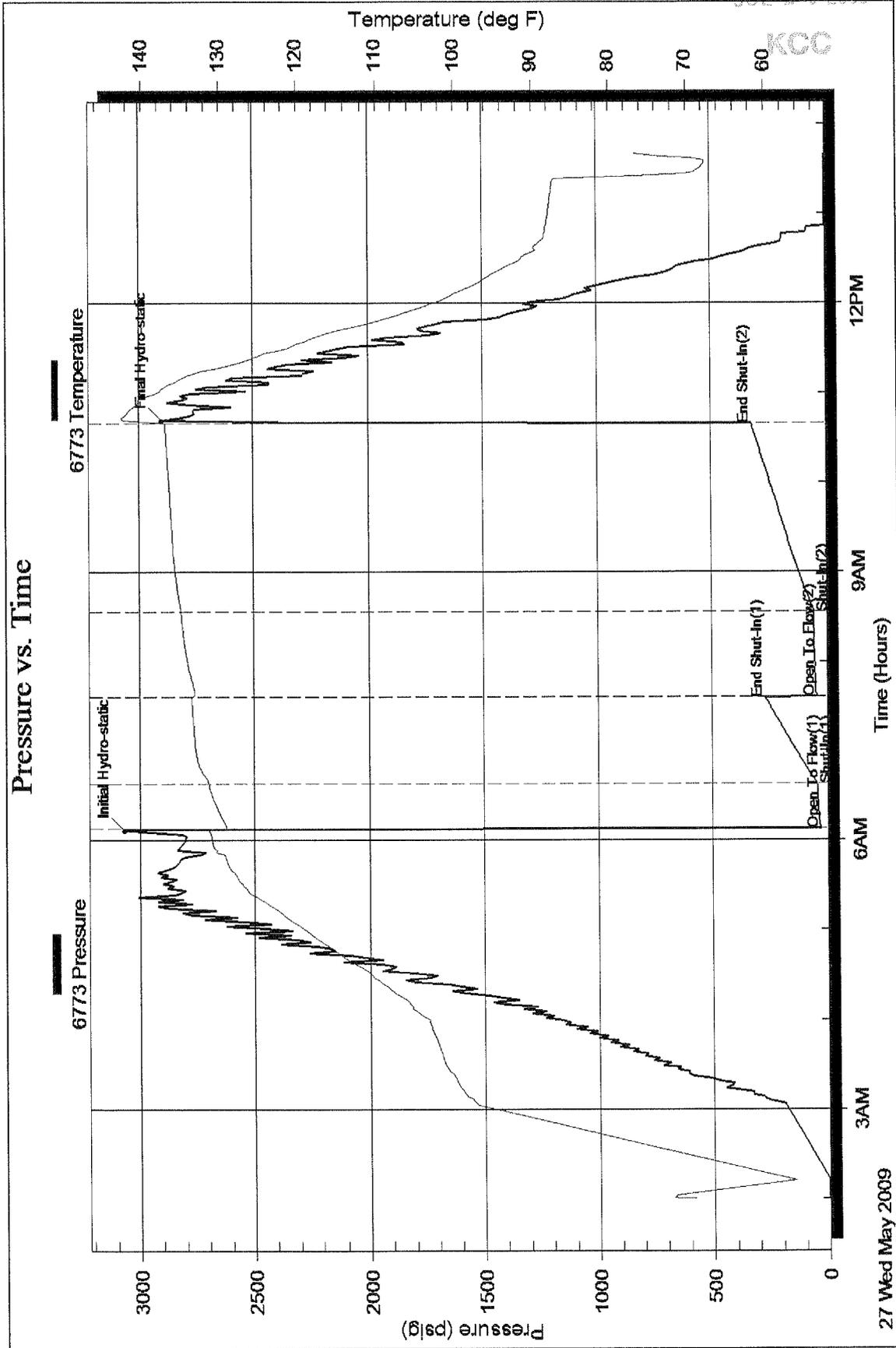
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EOG Resources Inc.

Inside

Serial #: 6773

### Pressure vs. Time



DST Test Number: 1

34/32/37

EOG Resources Inc.

Inside

Serial #: 8355

### Pressure vs. Time

