

15-189-22662

18-35-38w

IND



Weatherford® Completion Systems

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc.**

3817 NW Expressway
Ste 500
Oklahoma City Ok.

ATTN: Larry T.

18/35/38

Etta 18-1

Start Date: 2008.08.15 @ 23:15:00

End Date: 2008.08.16 @ 11:35:15

Job Ticket #: 30989

DST #: 1

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RECEIVED
KANSAS CORPORATION COMMISSION
SEP 30 2008
CONSERVATION DIVISION
WICHITA, KS

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

EOG Resources Inc.

Atta 18-1

18/35/38

DST # 1

St. Louis

2008.08.15



Weatherford®
Completion Systems

DRILL STEM TEST REPORT

EOG Resources Inc.

Atta 18-1

3817 NW Expressway
Ste 500
Oklahoma City Ok.
ATTN: Larry T.

18/35/38

Job Ticket: 30989

DST#:1

Test Start: 2008.08.15 @ 23:15:00

GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:45

Time Test Ended: 11:35:15

Test Type: Conventional Straddle

Tester: Harley Davidson

Unit No: 33

Interval: **6827.00 ft (KB) To 6872.00 ft (KB) (TVD)**

Reference Elevations: 3280.00 ft (KB)

Total Depth: 6970.00 ft (KB) (TVD)

3268.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6751

Press@RunDepth: 883.59 psig @ ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.08.15

End Date: 2008.08.16

Last Calib.: 2008.08.16

Start Time: 23:15:01

End Time: 11:35:15

Time On Btm: 2008.08.16 @ 03:40:15

Time Off Btm: 2008.08.16 @ 08:02:15

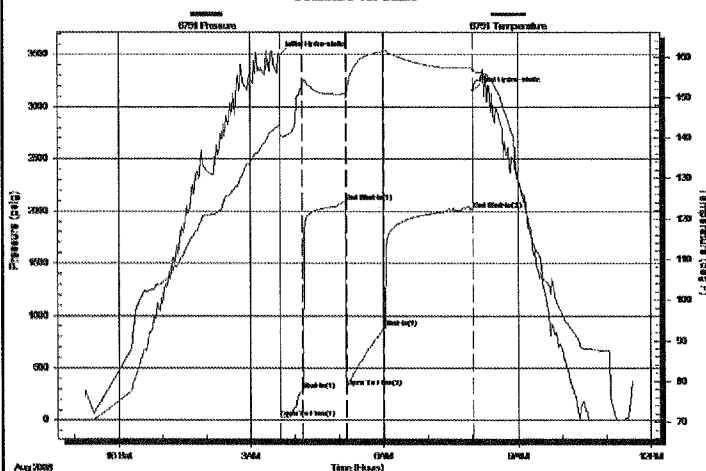
TEST COMMENT: IF Weak building blow BOB 27min

ISI No blow back

FF Good blow BOB 7min

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3497.28	143.07	Initial Hydro-static
1	27.26	141.31	Open To Flow (1)
31	292.33	153.33	Shut-In(1)
89	2087.78	150.81	End Shut-In(1)
90	316.57	150.16	Open To Flow (2)
142	883.59	161.30	Shut-In(2)
262	2013.15	157.13	End Shut-In(2)
262	3155.95	157.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1000 GIP	0.00
1550.00	15%gas30% mud55% water trace oil.	18.47

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Unit No: 33

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Total Depth: 6970.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3280.00 ft (KB)

3268.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8355

Press@RunDepth:	psig	@	ft (KB)
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Start Date: 2008.08.15 End Date: 2008.08.16

Start Time: 23:15:01 End Time: 11:34:00

Capacity: 7000.00 psig

Last Calib.: 2008.08.16

Time On Btm:

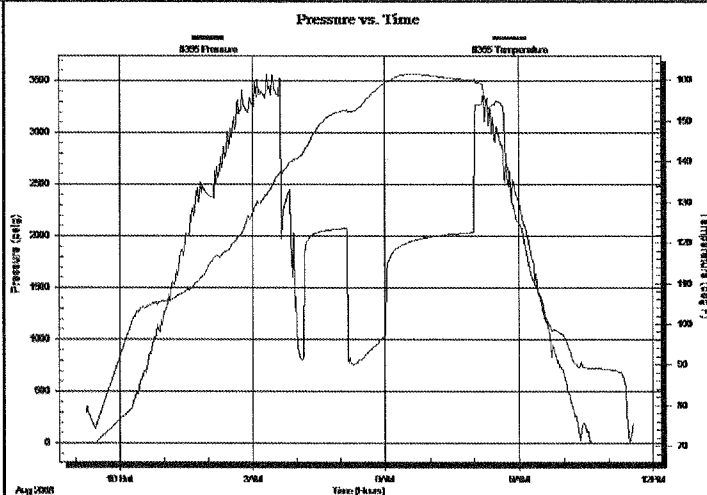
Time Off Btm:

TEST COMMENT: IF Weak building blow BOB 27min

ISI No blow back

FF Good blow BOB 7min

FSI No blow back



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
0.00	1000 GIP	0.00
1550.00	15%gas30%mud55%w ater trace oil.	18.47

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc.

Atta 18-1

3817 NW Expressway
Ste 500
Oklahoma City Ok.
ATTN: Larry T.

18/35/38

Job Ticket: 30989

DST#:1

Test Start: 2008.08.15 @ 23:15:00

Tool Information

Drill Pipe:	Length: 6419.00 ft	Diameter: 3.80 inches	Volume: 90.04 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: 359.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 125000.0 lb
			<u>Total Volume: 91.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 100000.0 lb
Depth to Top Packer:	6827.00 ft			Final 105000.0 lb
Depth to Bottom Packer:	6925.00 ft			
Interval between Packers:	98.00 ft			
Tool Length:	172.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			6758.00	
Sampler	2.00			6760.00	
Hydraulic tool	5.00			6765.00	
Jars	5.00			6770.00	
Safety Joint	3.00			6773.00	
Packer - Shale	5.00			6778.00	
Packer - Shale	4.00			6782.00	
Stubb	1.00			6783.00	
Perforations	1.00			6784.00	
Change Over Sub	1.00			6785.00	
Recorder	0.00	6751	Inside	6785.00	
Drill Pipe	31.00			6816.00	
Change Over Sub	1.00			6817.00	
Perforations	5.00			6822.00	
Blank Off Sub	1.00			6823.00	
Packer	4.00			6827.00	74.00 Bottom Of Top Packer
Stubb	1.00			6828.00	
Change Over Sub	1.00			6829.00	
Recorder	0.00	8355		6829.00	
Drill Pipe	93.00			6922.00	
Change Over Sub	1.00			6923.00	
Perforations	2.00			6925.00	98.00 Anchor Tool

Total Tool Length: 172.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc.

Atta 18-1

3817 NW Expressway
Ste 500
Oklahoma City Ok.
ATTN: Larry T.

18/35/38

Job Ticket: 30989

DST#: 1

Test Start: 2008.08.15 @ 23:15:00

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:

30000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.00 cm³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1000 GIP	0.000
1550.00	15%gas30%mud55%water trace oil.	18.472

Total Length: 1550.00 ft

Total Volume: 18.472 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data- 5 CFD gas 2000ML water @ 1800PSI

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DRILL STEM TEST REPORT

GAS RATES

EOG Resources Inc.

Atta 18-1

3817 NW Expressway

18/35/38

Ste 500

Job Ticket: 30989

DST#: 1

Oklahoma City Ok.

Test Start: 2008.08.15 @ 23:15:00

ATTN: Larry T.

Gas Rates Information

Temperature: 59 deg C

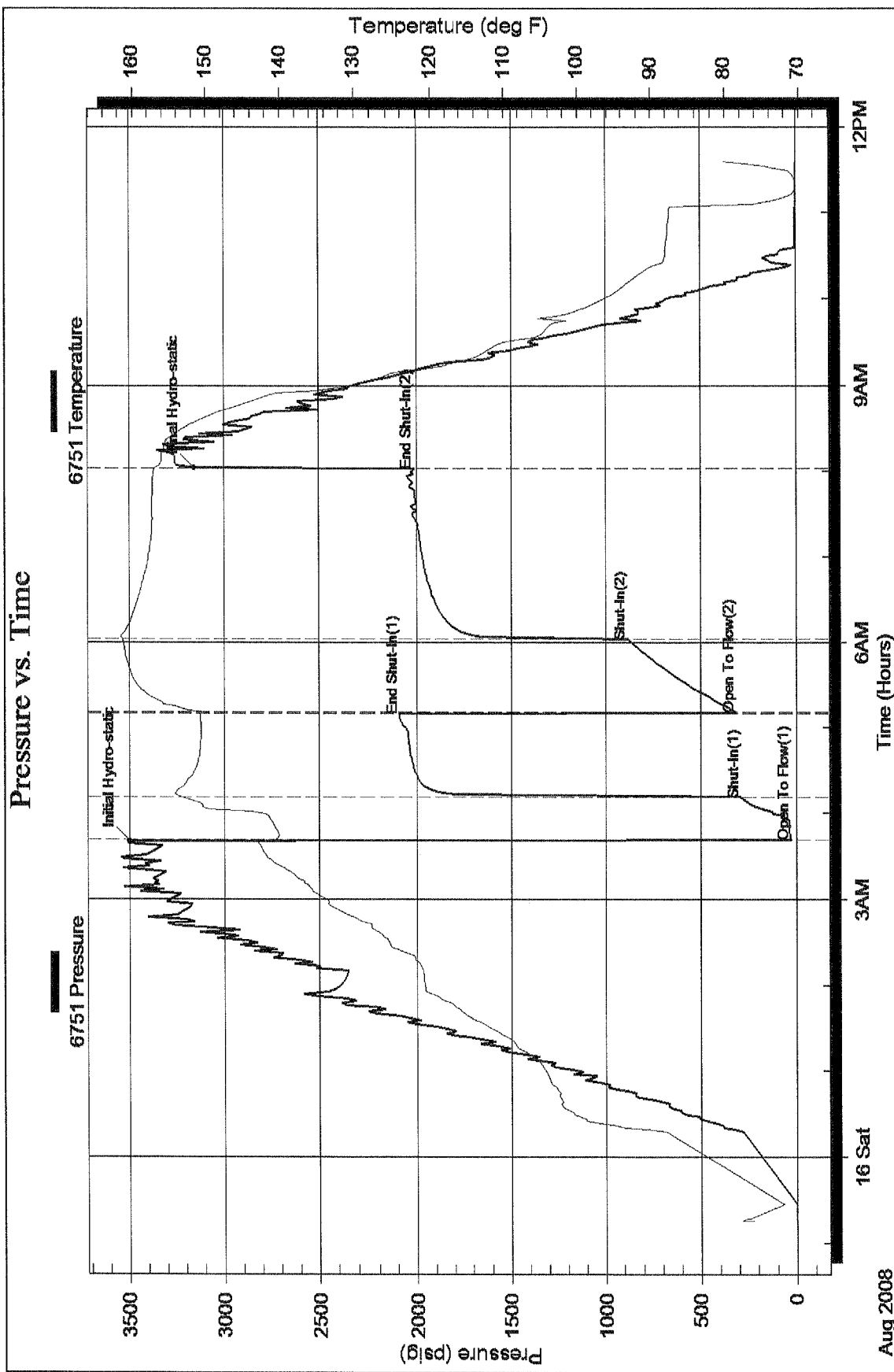
Relative Density: 0.65

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

Pressure vs. Time



Serial #: 8355

EOG Resources Inc.

18/35/38

DST Test Number: 1

Pressure vs. Time

