



Weatherford® Completion Systems

DRILL STEM TEST REPORT

EOG Resources

Kramer 1-2

3817 NW EXPWY STE500
Oklahoma City Ok,73112

1/34s/38w

ATTN: Mike Knox

Job Ticket: 37351

DST#: 1

Test Start: 2010.05.16 @ 00:25:55

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:03:55

Time Test Ended: 13:58:40

Interval: **6480.00 ft (KB) To 6565.00 ft (KB) (TVD)**

Total Depth: 6565.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Mike Slemp

Unit No: 28

Reference Elevations: 3179.00 ft (KB)

3167.00 ft (CF)

KB to GRVCF: 12.00 ft

Serial #: 8356

Inside

Press@RunDepth: 74.55 psig @ 6482.00 ft (KB)

Start Date: 2010.05.16

End Date:

2010.05.16

Capacity: 8000.00 psig

Last Calib.: 2010.05.16

Start Time: 00:25:56

End Time:

13:58:40

Time On Btm: 2010.05.16 @ 06:00:25

Time Off Btm: 2010.05.16 @ 10:33:25

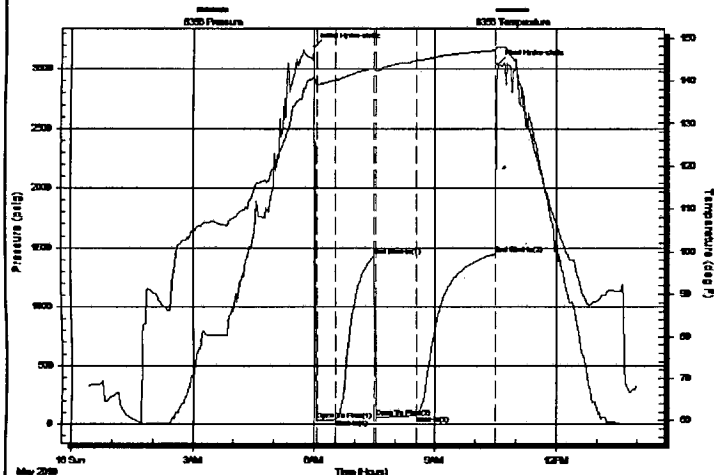
TEST COMMENT: IF- Weak surface blow , died after 12 min

IS- No blow back

FF- No blow

FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3185.25	140.93	Initial Hydro-static
4	31.66	139.05	Open To Flow (1)
32	39.90	140.13	Shut-In(1)
90	1433.31	142.90	End Shut-In(1)
91	58.03	142.30	Open To Flow (2)
152	74.55	144.71	Shut-In(2)
270	1450.06	147.10	End Shut-In(2)
273	3042.66	147.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	100% mud	0.59

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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ATTN: Mike Knox

Kramer 1-2

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Job Ticket: 37351

DST#: 1

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Time Tool Opened: 06:03:55

Time Test Ended: 13:58:40

Test Type: Conventional Bottom Hole

Tester: Mike Slomp

Unit No: 28

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Total Depth: 6565.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 3179.00 ft (KB)

3167.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **8678** Inside

Press@RunDepth: psig @ 6482.00 ft (KB)

Start Date: 2010.05.16

End Date:

2010.05.16

Capacity: 8000.00 psig

Last Calib.:

2010.05.16

Start Time: 00:30:27

End Time:

13:55:56

Time On Btm:

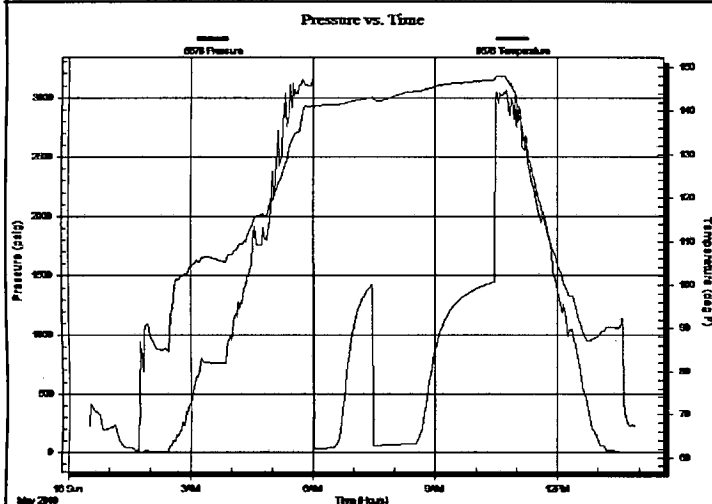
Time Off Btm:

TEST COMMENT: IF- Weak surface blow , died after 12 min

IS- No blow back

FF- No blow

FS- No blow back





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DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources

Kramer 1-2

3817 NW EXPWY STE500
Oklahoma City Ok,73112

1/34s/38w

Job Ticket: 37351

DST#: 1

ATTN: Mike Knox

Test Start: 2010.05.16 @ 00:25:55

Tool Information

Drill Pipe:	Length: 6092.00 ft	Diameter: 3.80 inches	Volume: 85.45 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:	100000.0 lb
		Total Volume:	87.26 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	82000.00 lb
Depth to Top Packer:	6480.00 ft			Final	82000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	85.00 ft				
Tool Length:	115.00 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			6451.00	
Shut In Tool	5.00			6456.00	
Sampler	3.00			6459.00	
Hydraulic tool	5.00			6464.00	
Jars	5.00			6469.00	
Safety Joint	2.00			6471.00	
Packer	5.00			6476.00	30.00 Bottom Of Top Packer
Packer	4.00			6480.00	
Stubb	1.00			6481.00	
Perforations	1.00			6482.00	
Recorder	0.00	8678	Inside	6482.00	
Recorder	0.00	8356	Inside	6482.00	
Perforations	16.00			6498.00	
Change Over Sub	1.00			6499.00	
Drill Pipe	62.00			6561.00	
Change Over Sub	1.00			6562.00	
Bullnose	3.00			6565.00	85.00 Bottom Packers & Anchor
Total Tool Length:		115.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources

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Oklahoma City Ok,73112

1/34s/38w

Job Ticket: 37351

DST#: 1

ATTN: Mike Knox

Test Start: 2010.05.16 @ 00:25:55

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: 8.58 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
120.00	100% mud	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler- 1200psi ,4000ml mud



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GAS RATES

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DST#: 1

ATTN: Mike Knox

Test Start: 2010.05.16 @ 00:25:55

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

