



DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

34-12S-32W

SMITH 1-34

Start Date: 2010.11.14 @ 09:00:00

End Date: 2010.11.14 @ 17:11:00

Job Ticket #: 1048 DST #: 2

Eagle Testers LLC.

P.O.Box 1011, Great Bend, KS 67530

620-617-7548

Printed: 2010.11.14 @ 09:11:24

GRAND MESA OPERATING
SMITH 1-34
34-12S-32W
DST # 2
LKC-E-F
2010.11.14



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GRAND MESA OPERATING

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Job Ticket: 1048

DST#: 2

Test Start: 2010.11.14 @ 09:00:00

GENERAL INFORMATION:

Formation: **LKC -E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:52:00

Time Test Ended: 17:11:00

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15

Interval: 4054.00 ft (KB) To 4094.00 ft (KB) (TVD)

Reference Elevations: 2984.00 ft (KB)

Total Depth: 4094.00 ft (KB) (TVD)

2978.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ Run Depth: 470.33 psig @ 4090.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.11.14

End Date: 2010.11.14

Last Calib.: 2010.11.14

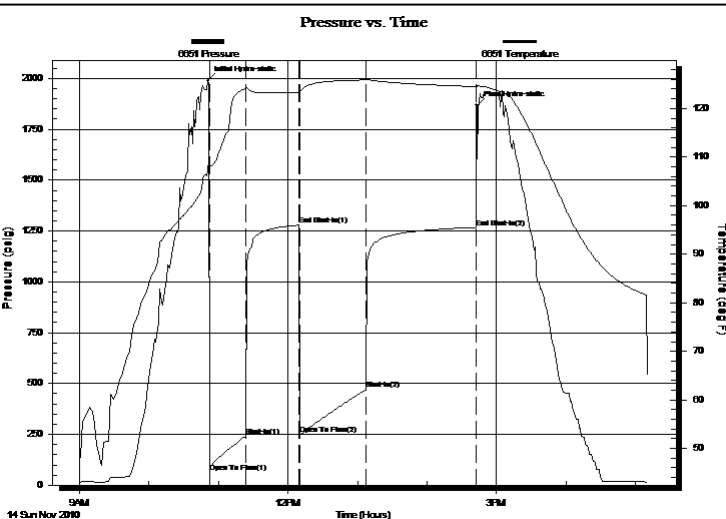
Start Time: 09:00:00

End Time: 17:11:00

Time On Btm: 2010.11.14 @ 10:51:00

Time Off Btm: 2010.11.14 @ 14:43:00

TEST COMMENT: 30-INITIAL OPENING FAIR BLOW BOTTOM BUCKET IN 10 MINS
45-INITIAL SHUT IN VERY WEAK BLOW BACK
60-FINAL OPENING FAIR BLOW BOTTOM BUCKET IN 12 MINS
90-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.85	108.28	Initial Hydro-static
1	64.95	108.09	Open To Flow (1)
33	241.06	124.19	Shut-In(1)
79	1278.69	123.17	End Shut-In(1)
79	247.84	122.54	Open To Flow (2)
137	470.33	125.86	Shut-In(2)
231	1267.68	124.55	End Shut-In(2)
232	1867.84	124.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
840.00	MUDDY WATER 15%MUD 85%WATER	11.10

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2010.11.14 @ 09:00:00

Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.88 inches	Volume: 57.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 57.78 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	4054.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHUT IN TOOL	5.00			4036.00	
HYD S.I. Tool	5.00			4041.00	
jars	6.00			4047.00	
safty joint	2.00			4049.00	
T.C.	2.00			4051.00	
Packer	3.00			4054.00	23.00 Bottom Of Top Packer
T.C.	2.00			4056.00	40.00 Tool Interval
Packer	3.00			4059.00	
Perforations	30.00			4089.00	
Recorder	1.00	6651	Inside	4090.00	
Recorder	1.00	13772	Outside	4091.00	
BULL PLUG	3.00			4094.00	1000062.00 Bottom Packers & Anchor

Total Tool Length: 63.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
840.00	MUDDY WATER 15%MUD 85%WATER	11.100

Total Length: 840.00 ft Total Volume: 11.100 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RECOVERY CHOLRIDES 35,000 PPM

Pressure vs. Time

