



DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING COMPANY**

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

ATTN: BOB PETERSON

26-12S-32W LOGAN

G ANDERSEN 2-26

Start Date: 2010.10.06 @ 04:00:00

End Date: 2010.10.06 @ 08:51:30

Job Ticket #: 1031 DST #: 3

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.10.06 @ 04:12:37



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Test Start: 2010.10.06 @ 04:00:00

GENERAL INFORMATION:

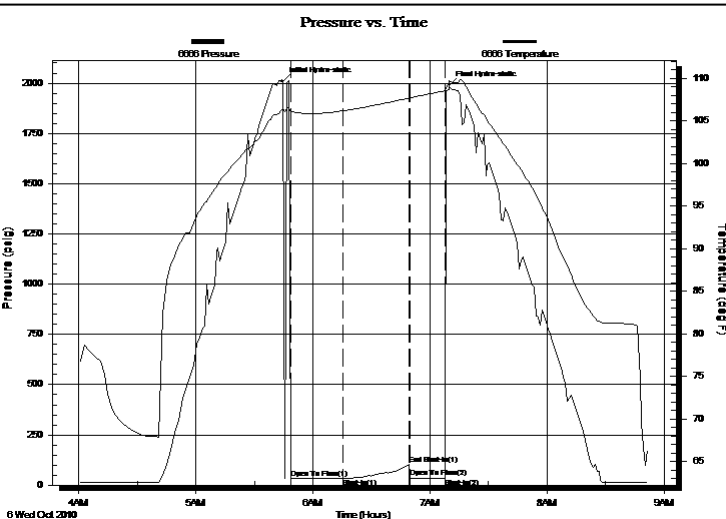
Formation: **LKC -F-**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:48:30
 Time Test Ended: 08:51:30
 Interval: **4108.00 ft (KB) To 4121.00 ft (KB) (TVD)**
 Total Depth: 4121.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 70 MRT SCOTT CIT
 Reference Elevations: 2995.00 ft (KB)
 2990.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6666

Inside

Press @ Run Depth: 35.28 psig @ 4117.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.10.06 End Date: 2010.10.06 Last Calib.: 2010.10.06
 Start Time: 04:00:00 End Time: 08:51:30 Time On Btm: 2010.10.06 @ 05:44:30
 Time Off Btm: 2010.10.06 @ 07:10:00

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 3 MINS
 30-INITIAL SHUT IN NO BLOW BACK
 10-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 2 MINS



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.75	106.38	Initial Hydro-static
4	34.31	106.11	Open To Flow (1)
32	35.28	106.16	Shut-In(1)
65	101.36	107.64	End Shut-In(1)
65	36.74	107.63	Open To Flow (2)
83	35.98	108.53	Shut-In(2)
86	1990.01	109.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD 100% MUD	0.00

Gas Rates

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



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Job Ticket: 1031

DST#: 3

Test Start: 2010.10.06 @ 04:00:00

GENERAL INFORMATION:

Formation: **LKC -F-**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:48:30

Time Test Ended: 08:51:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 15 70 MRT SCOTT CIT

Interval: 4108.00 ft (KB) To 4121.00 ft (KB) (TVD)

Reference Elevations: 2995.00 ft (KB)

Total Depth: 4121.00 ft (KB) (TVD)

2990.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6651

Outside

Press @ Run Depth: 101.11 psig @ 4118.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2010.10.06

End Date:

2010.10.06

Last Calib.:

2010.10.06

Start Time: 04:00:00

End Time:

08:55:30

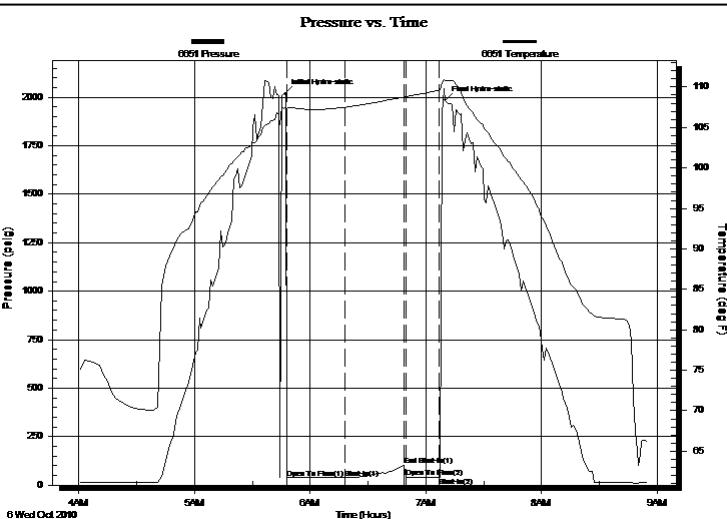
Time On Btm:

2010.10.06 @ 05:47:00

Time Off Btm:

2010.10.06 @ 07:10:00

TEST COMMENT: 30-INITIAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 3 MINS
30-INITIAL SHUT IN NO BLOW BACK
10-FINAL OPENING VERY WEAK SURFACE BLOW DIED AFTER 2 MINS



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2016.76	107.43	Initial Hydro-static
1	37.55	107.28	Open To Flow (1)
31	37.79	107.50	Shut-In(1)
62	101.11	108.76	End Shut-In(1)
63	38.14	108.78	Open To Flow (2)
80	38.15	109.59	Shut-In(2)
83	1984.39	110.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	MUD 100% MUD	0.00

Gas Rates

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



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TOOL DIAGRAM

GRAND MESA OPERATING COMPANY

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WICHITA KS 67206

26-12S-32W LOGAN

Job Ticket: 1031

DST#: 3

ATTN: BOB PETERSON

Test Start: 2010.10.06 @ 04:00:00

Tool Information

Drill Pipe:	Length: 3965.00 ft	Diameter: 3.88 inches	Volume: 57.99 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	0.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4108.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 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			4090.00	
HYD S.I. Tool	5.00			4095.00	
jars	6.00			4101.00	
safty joint	2.00			4103.00	
TRAVEL COLER	2.00			4105.00	
Packer	3.00			4108.00	23.00 Bottom Of Top Packer
travel collar	2.00			4110.00	13.00 Tool Interval
Packer	3.00			4113.00	
Anchor	3.00			4116.00	
Recorder	1.00	6666	Inside	4117.00	
Recorder	1.00	6651	Outside	4118.00	
BULL PLUG	3.00			4121.00	1000035.00 Bottom Packers & Anchor

Total Tool Length: 36.00



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FLUID SUMMARY

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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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	MUD 100% MUD	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

