



DRILL STEM TEST REPORT

Prepared For: **GRAND MESA OPERATING**

1700 N WATERFRONT
PKWY BLDG 600
WICHITA KS 67206

ATTN: STEVE CARL

22-13S-32W- LOGAN

VAILE 1-22

Start Date: 2010.12.10 @ 16:00:00

End Date: 2010.12.10 @ 22:16:00

Job Ticket #: 1061 DST #: 6

Eagle Testers LLC.

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

620-617-7548

Printed: 2010.12.13 @ 09:24:52

GRAND MESA OPERATING

VAILE 1-22

22-13S-32W- LOGAN

DST # 6

KREBS-JOHNSON

2010.12.10



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Test Start: 2010.12.10 @ 16:00:00

GENERAL INFORMATION:

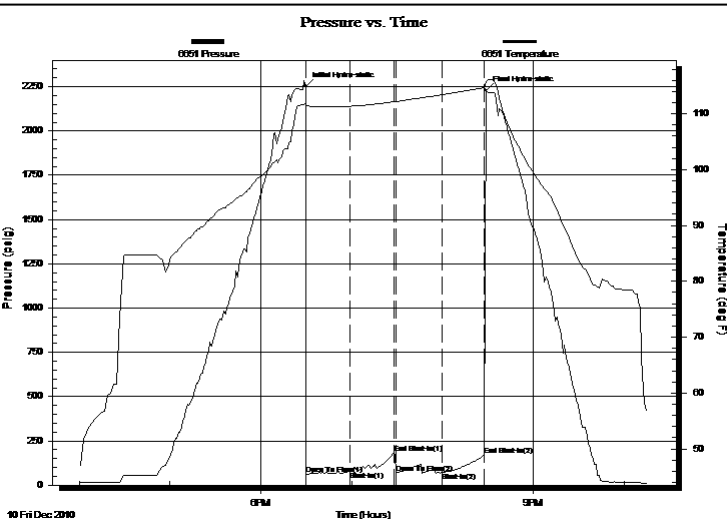
Formation: **KREBS-JOHSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:30:00
 Time Test Ended: 22:16:00
 Interval: **4552.00 ft (KB) To 4620.00 ft (KB) (TVD)**
 Total Depth: 4620.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 15 62 MRT SCOTT CIT
 Reference Elevations: 3039.00 ft (KB)
 3033.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6651

Inside

Press @ RunDepth: 71.55 psig @ 4616.00 ft (KB) Capacity: 5000.00 psig
 Start Date: 2010.12.10 End Date: 2010.12.10 Last Calib.: 2010.12.10
 Start Time: 16:01:00 End Time: 22:16:00 Time On Btm: 2010.12.10 @ 18:29:30
 Time Off Btm: 2010.12.10 @ 20:28:30

TEST COMMENT: 30-INITIAL OPENING SURFACE BLOW
 30-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING WEAK SURFACE BLOW
 30-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.95	112.03	Initial Hydro-static
1	63.70	111.47	Open To Flow (1)
30	79.56	111.35	Shut-In(1)
59	182.94	112.18	End Shut-In(1)
60	66.79	112.18	Open To Flow (2)
90	71.55	113.42	Shut-In(2)
118	169.81	114.67	End Shut-In(2)
119	2228.68	115.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD TRACE OF OIL 5%OIL95%MUD	0.05

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2010.12.10 @ 16:00:00

Tool Information

Drill Pipe:	Length: 4410.00 ft	Diameter: 3.88 inches	Volume: 64.49 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 65.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.75 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4552.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	96.75 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			4528.25	
Hydraulic tool	5.00			4533.25	
Change over sub	0.75			4534.00	
Jars	6.00			4540.00	
Safety Joint	2.00			4542.00	
Packer	5.00			4547.00	28.75 Bottom Of Top Packer
Packer	5.00			4552.00	
Anchor	5.00			4557.00	
change over sub	0.75			4557.75	
drill pipe	31.50			4589.25	
change over sub	0.75			4590.00	
anchor	25.00			4615.00	
Recorder	1.00	6651	Inside	4616.00	
Recorder	1.00	8525	Outside	4617.00	
bull plug	3.00			4620.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.75



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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: 59.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD TRACE OF OIL 5%OIL95%MUD	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

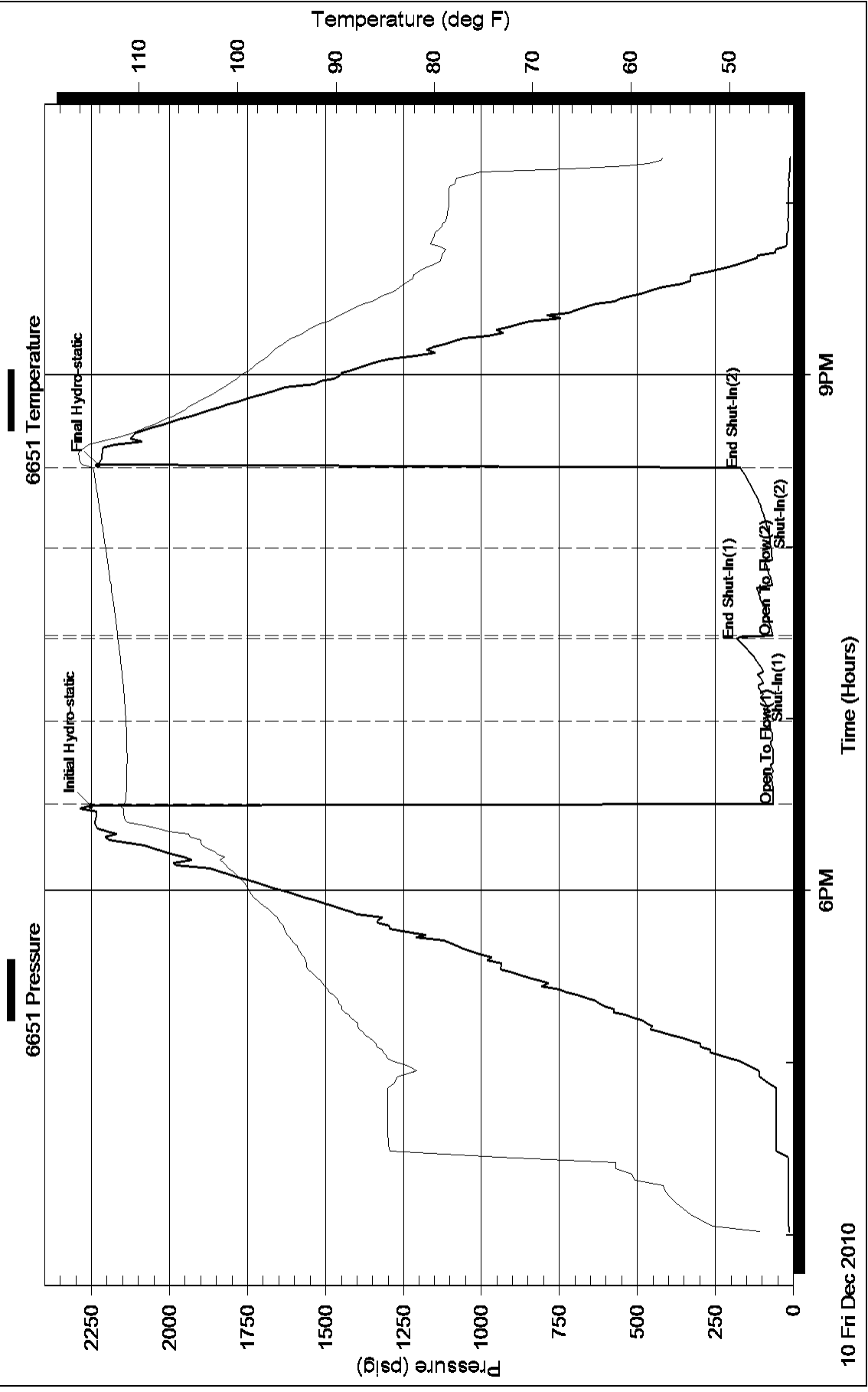
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8525

Outside GRAND MESA OPERATING

22-13S-32W- LOGAN

DST Test Number: 6

