



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: 2010.12.07 @ 10:00:00

End Date: 2010.12.07 @ 16:57:00

Job Ticket #: 1058 DST #: 3

Eagle Testers LLC.

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

620-617-7548

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GRAND MESA OPERATING
VAILE 1-22
22-13S-32W- LOGAN
DST # 3
LKC E-F
2010.12.07



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRAND MESA OPERATING

VAILE 1-22

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Test Start: 2010.12.07 @ 10:00:00

Tool Information

Drill Pipe:	Length: 3954.00 ft	Diameter: 3.88 inches	Volume: 57.82 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	4097.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	61.00 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			4079.00	
HYD S.I. Tool	5.00			4084.00	
jars	6.00			4090.00	
safty joint	2.00			4092.00	
TRAVEL COLER	2.00			4094.00	
Packer	3.00			4097.00	23.00 Bottom Of Top Packer
travel collar	1.00			4098.00	38.00 Tool Interval
Packer	1.00			4099.00	
Anchor	31.00			4130.00	
Recorder	1.00	6651	Inside	4131.00	
Recorder	1.00	8525	Outside	4132.00	
BULL PLUG	3.00			4135.00	1000060.00 Bottom Packers & Anchor

Total Tool Length: 61.00



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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: 48.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 2800.00 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
90.00	WATER CUT MUD 60%MUD40%WATER	0.443
180.00	MUDDY WATER 10%MUD90%WATER	2.331

Total Length: 270.00 ft Total Volume: 2.774 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

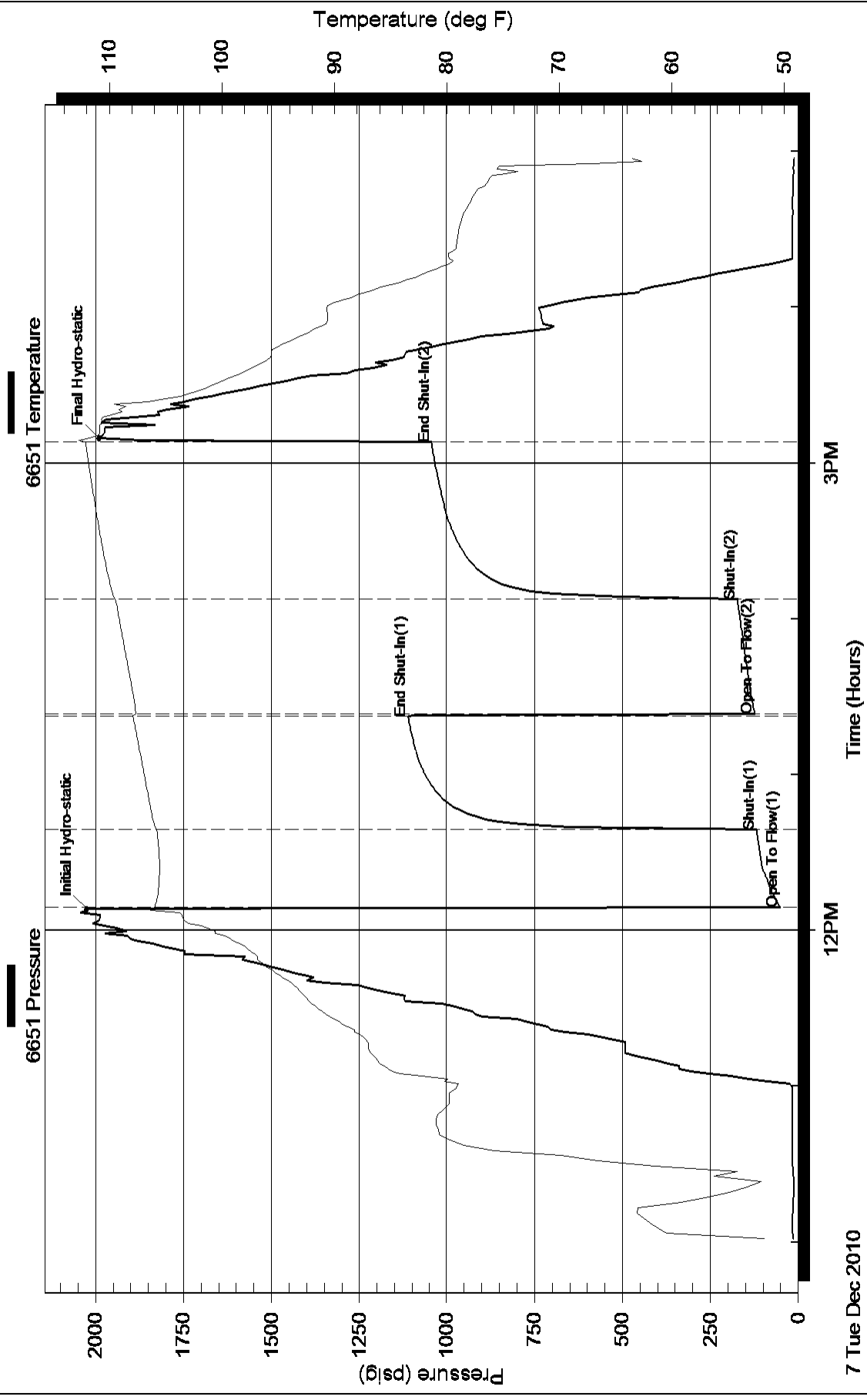
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RECOVERY CHOLRIDES 37,000

Pressure vs. Time

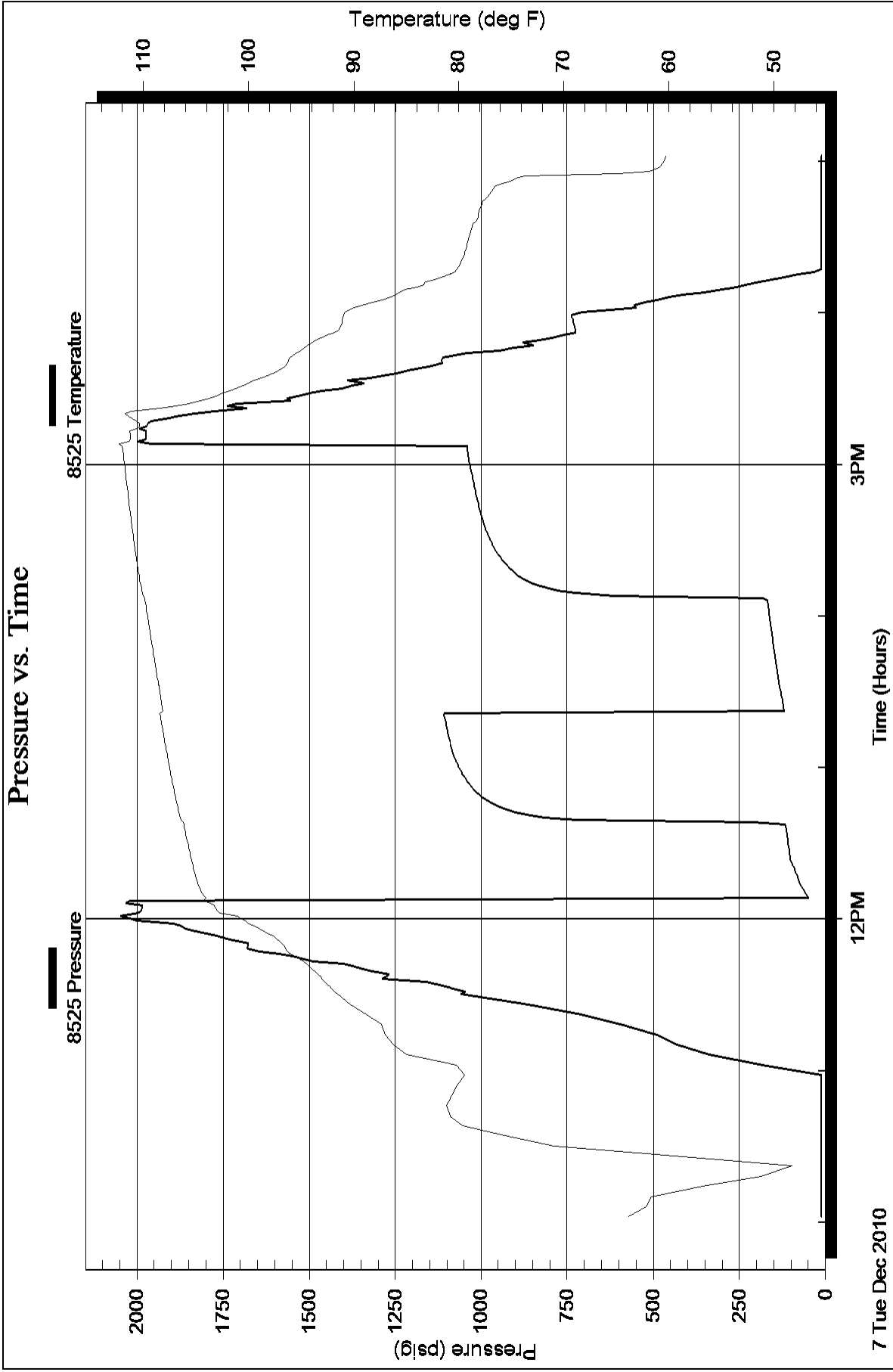


Serial #: 8525

Outside GRAND MESA OPERATING

22-13S-32W- LOGAN

DST Test Number: 3



Eagle Testers LLC.

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