



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Grand Mesa Operating Company

Hess-Christy 1-34

1700 N Waterfront PKWY
BLDG 600 Wichita KS
67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042135

DST#: 4

Test Start: 2011.09.14 @ 14:20:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:00:45

Time Test Ended: 22:14:30

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: 4465.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

2924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 338.06 psig @ 4466.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.14

End Date:

2011.09.14

Last Calib.:

2011.09.14

Start Time: 14:20:01

End Time:

22:14:30

Time On Btm:

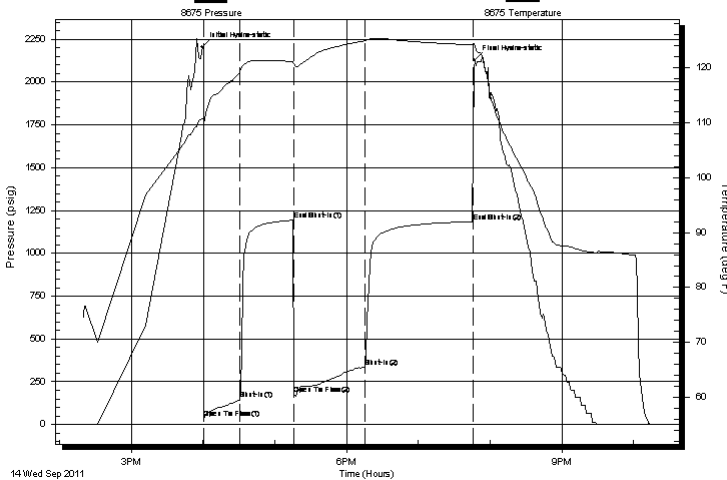
2011.09.14 @ 15:59:15

Time Off Btm:

2011.09.14 @ 19:47:15

TEST COMMENT: B.O.B. in 5 1/2 min.
Built to 7 1/2" return blow
B.O.B. in 9 1/2 min.
Built to 5 1/2" return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.41	110.64	Initial Hydro-static
2	35.17	109.96	Open To Flow (1)
32	147.09	119.35	Shut-In(1)
77	1194.15	121.11	End Shut-In(1)
77	174.45	120.68	Open To Flow (2)
137	338.06	124.94	Shut-In(2)
227	1185.65	124.20	End Shut-In(2)
228	2129.63	123.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1034 feet gas in pipe	0.00
250.00	mcw go 20%M 20%W 30%G 30%O	2.44
455.00	Oil 100%O	6.38

Gas Rates

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



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FLUID SUMMARY

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67206-5514
ATTN: Bob Schreiber

34-13-32

Job Ticket: 042135

DST#: 4

Test Start: 2011.09.14 @ 14:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1034 feet gas in pipe	0.000
250.00	mcw go 20%M 20%W 30%G 30%O	2.441
455.00	Oil 100%O	6.382

Total Length: 705.00 ft Total Volume: 8.823 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

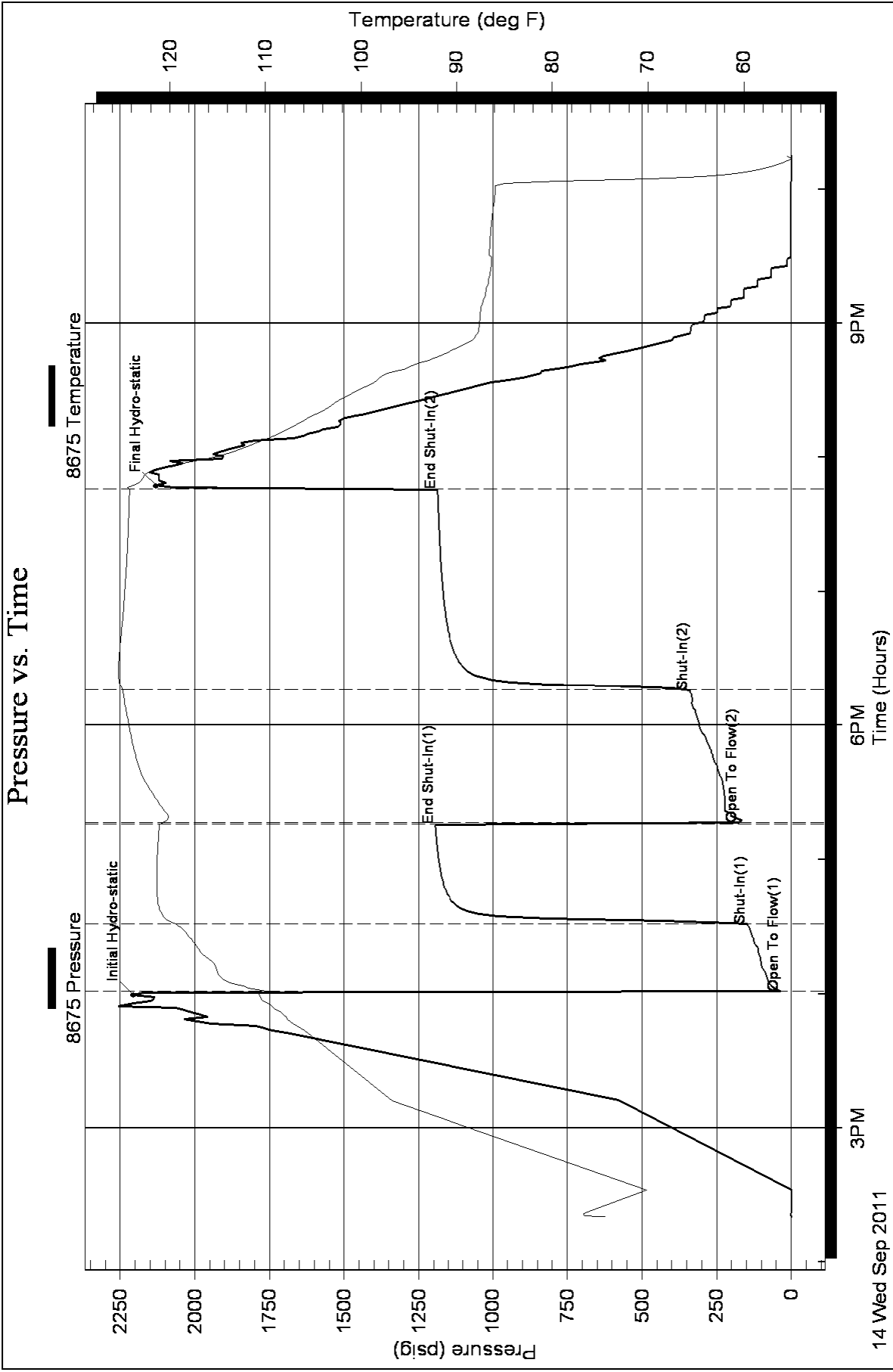
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 30 @ 50 F = 31

Pressure vs. Time



14 Wed Sep 2011

9PM

6PM
Time (Hours)

3PM