



**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: 042134

DST#: 3

Test Start: 2011.09.13 @ 19:00:00

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:15

Time Test Ended: 03:14:45

Test Type: Conventional Bottom Hole

Tester: Jace McKinney

Unit No: 28

Interval: 4381.00 ft (KB) To 4469.00 ft (KB) (TVD)

Reference Elevations: 2929.00 ft (KB)

Total Depth: 4469.00 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: 374.23 psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.13

End Date:

2011.09.14

Last Calib.: 2011.09.14

Start Time: 19:00:01

End Time:

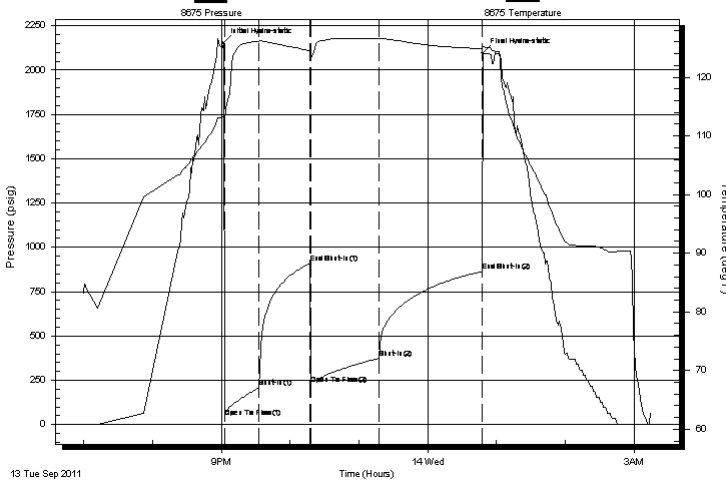
03:14:45

Time On Btm: 2011.09.13 @ 21:02:00

Time Off Btm: 2011.09.14 @ 00:48:00

TEST COMMENT: B.O.B. in 5 1/2 min.
No return blow
B.O.B. in 10 1/2 min.
No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.86	113.21	Initial Hydro-static
2	41.78	112.17	Open To Flow (1)
31	208.46	126.12	Shut-In(1)
76	910.39	124.46	End Shut-In(1)
76	228.51	124.03	Open To Flow (2)
136	374.23	126.57	Shut-In(2)
226	864.01	124.86	End Shut-In(2)
226	2096.37	125.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
241.00	w 100%W	2.31
186.00	mcw 10%M 90%W	2.61
283.00	mcw 50%M 50%W	3.97

Gas Rates

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



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FLUID SUMMARY

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DST#: 3

Test Start: 2011.09.13 @ 19:00:00

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:

80000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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
241.00	w 100%W	2.315
186.00	mcw 10%M 90%W	2.609
283.00	mcw 50%M 50%W	3.970

Total Length: 710.00 ft Total Volume: 8.894 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .12 @ 60 F = 80,000

Pressure vs. Time

