



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 PO Box 372
 Hays, Ks. 67601+0372
 ATTN: R. Nelson

OND west #1-12
12-13s-22w Trego
 Job Ticket: 041550 **DST#: 1**
 Test Start: 2011.02.17 @ 05:14:05

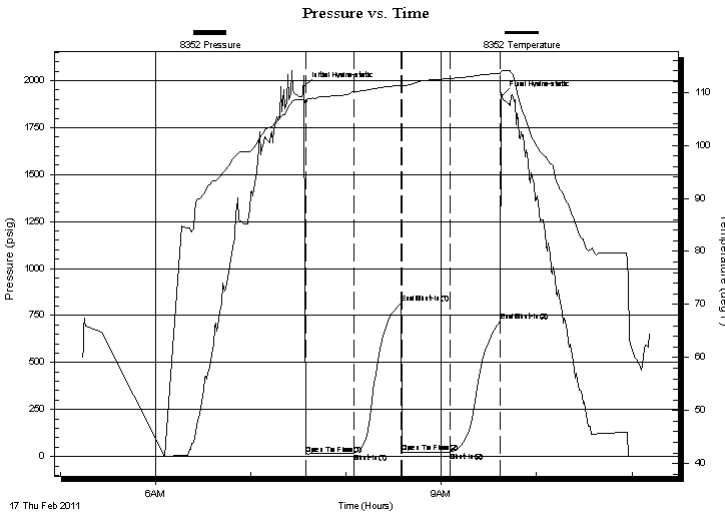
GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:34:30
 Time Test Ended: 11:11:20
 Interval: **3930.00 ft (KB) To 3964.00 ft (KB) (TVD)**
 Total Depth: 3964.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 2251.00 ft (KB)
 2243.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8352 Outside
 Press @ Run Depth: 22.40 psig @ 3931.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.17 End Date: 2011.02.17 Last Calib.: 2011.02.17
 Start Time: 05:14:05 End Time: 11:11:20 Time On Btm: 2011.02.17 @ 07:33:40
 Time Off Btm: 2011.02.17 @ 09:38:09

TEST COMMENT: IF: Weak surface blow, died in 20 min.
 IS: No Return
 FF: No Blow
 FS: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.93	108.80	Initial Hydro-static
1	13.21	107.72	Open To Flow (1)
32	18.64	110.11	Shut-In(1)
61	818.76	111.34	End Shut-In(1)
62	20.17	110.97	Open To Flow (2)
92	22.40	112.61	Shut-In(2)
124	719.48	113.60	End Shut-In(2)
125	1922.49	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	HOCM o=30% m=70%	0.05

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC
PO Box 372
Hays, Ks. 67601+0372
ATTN: R. Nelson

OND west #1-12
12-13s-22w Trego
Job Ticket: 041550 **DST#: 1**
Test Start: 2011.02.17 @ 05:14:05

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: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	HOCM o=30% m=70%	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:

