



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC
 PO Box 372
 Hays, Ks
 67601
 ATTN: Marc Downing

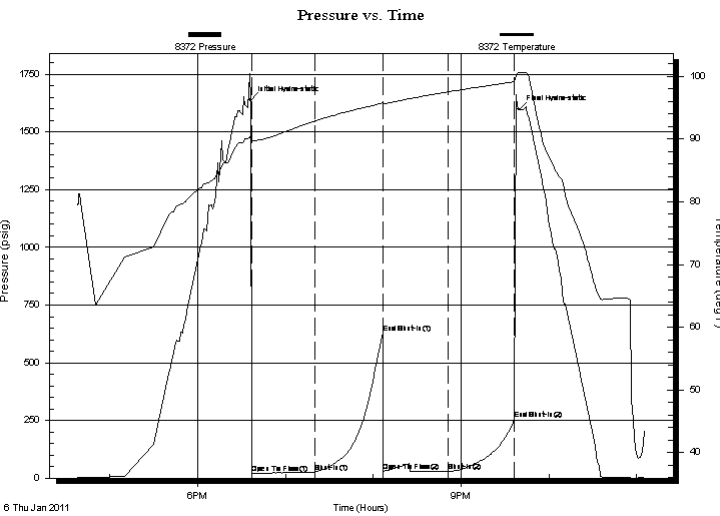
Verna Herl 1-12
12-14-19/Ellis
 Job Ticket: 41408 **DST#: 2**
 Test Start: 2011.01.06 @ 16:37:55

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:36:54
 Time Test Ended: 23:05:24
Interval: 3426.00 ft (KB) To 3464.00 ft (KB) (TVD)
 Total Depth: 3464.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2187.00 ft (KB)
 2180.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
 Press @ Run Depth: 30.57 psig @ 3429.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.06 End Date: 2011.01.06 Last Calib.: 2011.01.06
 Start Time: 16:37:55 End Time: 23:05:24 Time On Btm: 2011.01.06 @ 18:35:54
 Time Off Btm: 2011.01.06 @ 21:39:24

TEST COMMENT: IFP - weak blow throughout 1/4" - 2 1/4"
 ISI - no blow back
 FFP - weak to fair blow 1" - 4 1/2"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.17	90.10	Initial Hydro-static
1	18.70	89.69	Open To Flow (1)
44	26.03	92.86	Shut-In(1)
91	627.78	95.74	End Shut-In(1)
91	30.01	95.58	Open To Flow (2)
135	30.57	97.54	Shut-In(2)
181	253.51	99.14	End Shut-In(2)
184	1598.26	100.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 20%O, 80%M	0.10
20.00	SOCM 10%O, 90%M	0.17
0.00	50' GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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DST#: 2

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Test Start: 2011.01.06 @ 16:37:55

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	OCM 20%O, 80%M	0.098
20.00	SOCM 10%O, 90%M	0.171
0.00	50' GIP	0.000

Total Length: 40.00 ft Total Volume: 0.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

