



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.
8100 E. 22nd st. N.
#700 Box 783188 Wichita Ks. 67278
ATTN: Ted Jochems

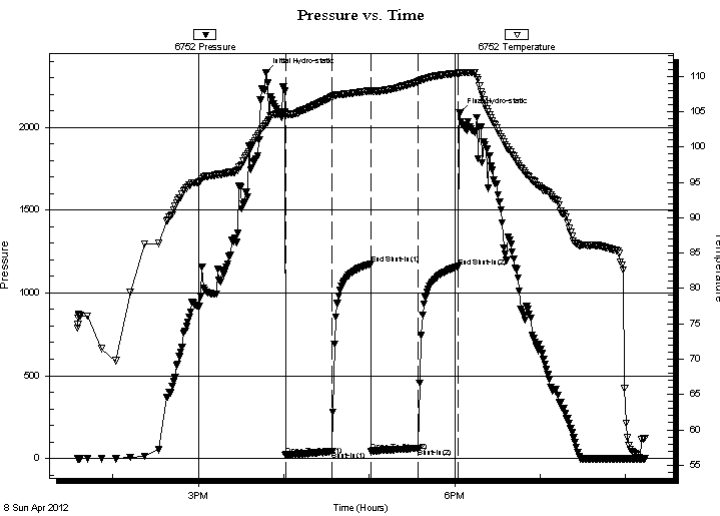
24 17s 35w Wichita Ks
Noonan #1
Job Ticket: 46051 **DST#: 5**
Test Start: 2012.04.08 @ 13:35:00

GENERAL INFORMATION:

Formation: **Pleasanton to Altamo**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:01:00
Time Test Ended: 20:14:00
Interval: **4457.00 ft (KB) To 4532.00 ft (KB) (TVD)**
Total Depth: 4532.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 3184.00 ft (KB)
3174.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
Press @ Run Depth: 62.49 psig @ 4461.60 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.08 End Date: 2012.04.08 Last Calib.: 2012.04.08
Start Time: 13:35:05 End Time: 20:13:59 Time On Btm: 2012.04.08 @ 15:47:30
Time Off Btm: 2012.04.08 @ 18:03:30

TEST COMMENT: IF: Weak surface blow over 30 mins.
IS: No blow back over 30 mins.
FF: Weak surface blow over 30 mins.
FS: No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2331.52	103.29	Initial Hydro-static
14	20.72	104.66	Open To Flow (1)
47	42.11	107.10	Shut-In(1)
74	1175.09	107.94	End Shut-In(1)
74	44.10	107.81	Open To Flow (2)
107	62.49	109.22	Shut-In(2)
135	1159.53	110.43	End Shut-In(2)
136	2085.94	110.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud w ith oil specs	0.42

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Noonan #1

Job Ticket: 46051

DST#: 5

ATTN: Ted Jochems

Test Start: 2012.04.08 @ 13:35:00

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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud w ith oil specs	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

