



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

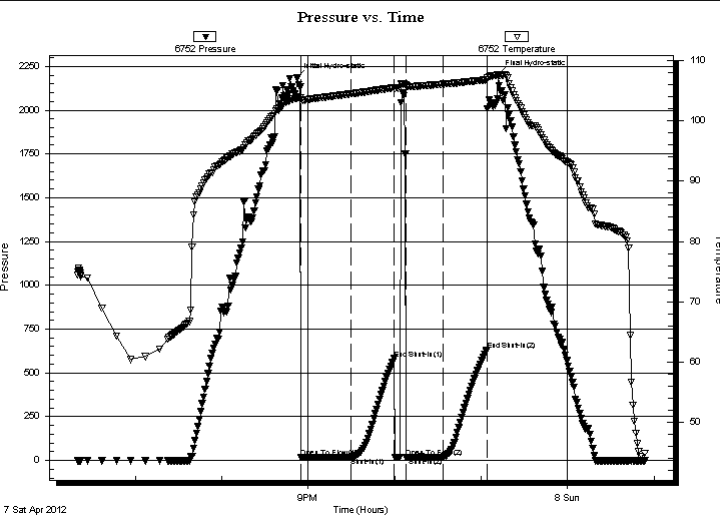
24 17s 35w Wichita Ks
Noonan #1
 Job Ticket: 45600 **DST#: 4**
 Test Start: 2012.04.07 @ 18:20:00

GENERAL INFORMATION:

Formation: **LKC-K,J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 20:55:00
 Tester: Chuck Kreuzer Jr.
 Time Test Ended: 00:53:30
 Unit No: 61
 Interval: **4369.00 ft (KB) To 4435.00 ft (KB) (TVD)**
 Reference Elevations: 3184.00 ft (KB)
 Total Depth: 4435.00 ft (KB) (TVD)
 3174.00 ft (CF)
 Hole Diameter: 7.80 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 19.45 psig @ 4373.60 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.07 End Date: 2012.04.08 Last Calib.: 2012.04.08
 Start Time: 18:20:05 End Time: 00:53:29 Time On Btm: 2012.04.07 @ 20:52:30
 Time Off Btm: 2012.04.07 @ 23:12:00

TEST COMMENT: IF: Weak blow, Started at a 1/4 in. Started to die right away. Dead in 6 mins.
 IS: No blow back over 30 mins.
 FF: Flushed tool, No blow over 30 mins.
 FS: No blow back over 30 mins.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.08	103.78	Initial Hydro-static
3	16.57	103.27	Open To Flow (1)
37	18.97	104.47	Shut-In(1)
67	581.36	105.49	End Shut-In(1)
76	19.67	105.84	Open To Flow (2)
101	19.45	106.10	Shut-In(2)
132	631.76	106.81	End Shut-In(2)
140	2204.32	107.71	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	100% Mud with oil spots	0.42

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

24 17s 35w Wichita Ks

8100 E. 22nd st. N.
#700 Box 783188 Wichita Ks. 67278

Noonan #1

Job Ticket: 45600

DST#: 4

ATTN: Ted Jochems

Test Start: 2012.04.07 @ 18:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 66.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100% Mud with oil spots	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:

Pressure vs. Time

