



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

FRANTZ-SAXTON UNIT 1-19

P.O. Box 372
Hays, KS 67601-0372

19-20s-20w-PAWNEE-KS

Job Ticket: 39475

DST#: 1

ATTN: Marc Dow ning 620-428-S 67601-0372

Test Start: 2010.11.21 @ 19:56:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:15

Time Test Ended: 04:11:15

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4302.00 ft (KB) To 4337.00 ft (KB) (TVD)

Reference Elevations: 2186.00 ft (KB)

Total Depth: 4337.00 ft (KB) (TVD)

2180.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 6799 Outside

Press @RunDepth: 315.40 psig @ 4303.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.21

End Date:

2010.11.22

Last Calib.:

2010.11.22

Start Time: 19:56:05

End Time:

04:11:14

Time On Btm:

2010.11.21 @ 22:18:30

Time Off Btm:

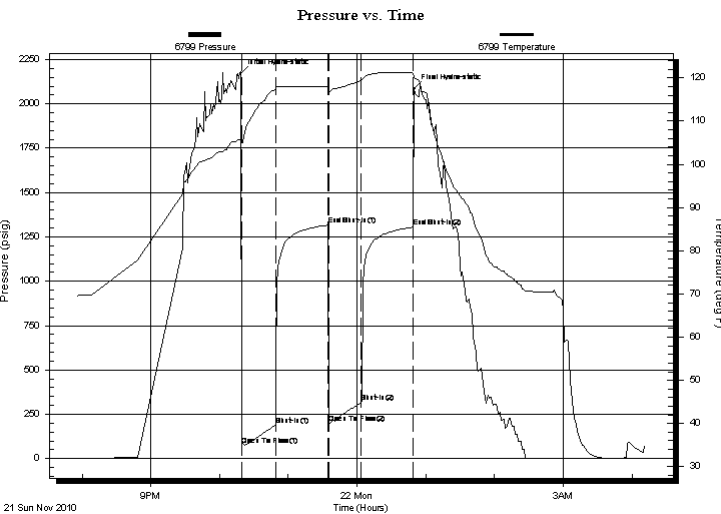
2010.11.22 @ 00:50:00

TEST COMMENT: IF: Strong blow , built to BOB in 6 minutes.

IS: Bled off, blow back built to 5".

FF: Strong blow ,BOB in 8 minutes.

FS: Bled off, blow back built to .75".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.56	105.70	Initial Hydro-static
1	72.80	105.03	Open To Flow (1)
31	188.87	117.49	Shut-In(1)
76	1315.95	117.91	End Shut-In(1)
77	198.91	117.16	Open To Flow (2)
106	315.40	119.34	Shut-In(2)
151	1304.51	121.11	End Shut-In(2)
152	2085.02	120.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	HGCMuddyOil 25%g 30%m 45%o	2.25
625.00	Clean Free Oil 100%o	8.77
0.00	240' Gas In Pipe	0.00
0.00	37 corrected gravity	0.00

Gas Rates

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



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FLUID SUMMARY

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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: 8.79 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
180.00	HGCMuddyOil 25%g 30%m 45%o	2.252
625.00	Clean Free Oil 100%o	8.767
0.00	240' Gas In Pipe	0.000
0.00	37 corrected gravity	0.000

Total Length: 805.00 ft Total Volume: 11.019 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 1# LCM

