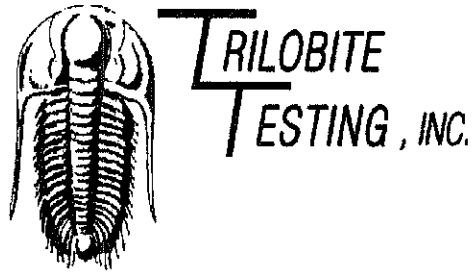


KGS ✓

15-195-22587-0000



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil CO.**
 PO Box 372
 Hays, Ks 67601

ATTN: Ron Nelson

24 13s 21wTrego KS

Kroeger #3-24

Start Date: 2008.10.25 @ 19:05:18
 End Date: 2008.10.26 @ 01:19:48
 Job Ticket #: 34701 DST #: 1

Trilobite Testing, Inc
 PO Box 1733 Hays, KS 67601
 ph: 785-625-4778 fax: 785-625-5620

Downing-Nelson Oil CO.

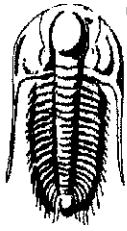
Kroeger #3-24

24 13s 21wTrego KS

DST # 1

Conglomerate & Arbuc

2008.10.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil CO.

Kroeger #3-24

PO Box 372
Hays, Ks 67601

24 13s 21wTrego KS

ATTN: Ron Nelson

Job Ticket: 34701

DST#: 1

Test Start: 2008.10.25 @ 19:05:18

GENERAL INFORMATION:

Formation: **Conglomerate & Arbuc**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:25:18

Time Test Ended: 01:19:48

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 44

Interval: **3848.00 ft (KB) To 3899.00 ft (KB) (TVD)**

Total Depth: 3899.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2205.00 ft (KB)

2197.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6669

Inside

Press@RunDepth: 726.48 psig @ 3853.00 ft (KB)

Start Date: 2008.10.25

End Date:

2008.10.26

Capacity: 7000.00 psig

Last Calib.: 2008.10.26

Start Time: 19:05:19

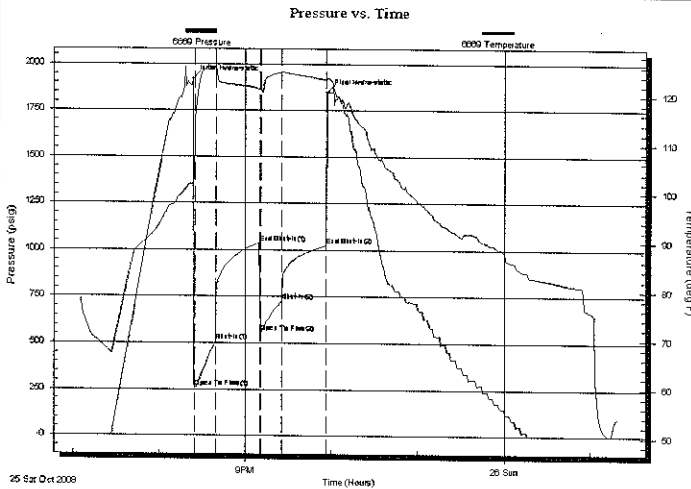
End Time:

01:19:48

Time On Btm: 2008.10.25 @ 20:24:03

Time Off Btm: 2008.10.25 @ 21:57:03

TEST COMMENT: IFP-BOB in 40 sec
ISI-Weak 1/4" blow back throughout
FFP-BOB in 1 min
FSI-Weak surface blow back throughout



PRESSURE SUMMARY

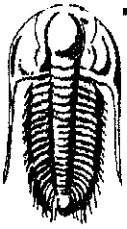
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.26	102.20	Initial Hydro-static
2	256.74	111.48	Open To Flow (1)
16	513.16	125.95	Shut-In(1)
46	1038.27	121.43	End Shut-In(1)
47	555.90	121.44	Open To Flow(2)
62	726.48	124.79	Shut-In(2)
93	1025.51	123.31	End Shut-In(2)
93	1846.90	123.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water	2.27
600.00	GOW 30%G,30%O,40-%W	8.51
300.00	GMCWO 20%G, 30%O,30%W,20%M	4.25
590.00	MCWO 40%O,20%W, 40%M	8.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil CO.

Kroeger #3-24

PO Box 372
Hays, Ks 67601

24 13s 21w Trego KS

Job Ticket: 34701

DST#: 1

ATTN: Ron Nelson

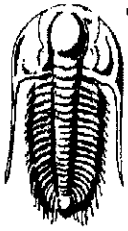
Test Start: 2008.10.25 @ 19:05:18

Tool Information

Drill Pipe:	Length: 3824.00 ft	Diameter: 3.82 inches	Volume: 54.21 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.36 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3848.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3832.00	
Change Over Sub	1.00			3833.00	
Hydraulic tool	5.00			3838.00	
Packer	5.00			3843.00	21.00 Bottom Of Top Packer
Packer	5.00			3848.00	
Stubb	1.00			3849.00	
Perforations	3.00			3852.00	
Change Over Sub	1.00			3853.00	
Recorder	0.00	6672	Inside	3853.00	
Recorder	0.00	6669	Inside	3853.00	
Blank Spacing	32.00			3885.00	
Change Over Sub	1.00			3886.00	
Perforations	10.00			3896.00	
Bullnose	3.00			3899.00	51.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil CO.

Kroeger #3-24

PO Box 372
Hays, Ks 67601

24 13s 21w Trego KS

Job Ticket: 34701

DST#: 1

ATTN: Ron Nelson

Test Start: 2008.10.25 @ 19:05:18

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.07 in³

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 bbf
180.00	Water	2.274
600.00	GOW 30%G,30%O,40-%W	8.505
300.00	GMCWO 20%G, 30%O,30%W,20%M	4.253
590.00	MCWO 40%O,20%W, 40%M	8.363

Total Length: 1670.00 ft Total Volume: 23.395 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

