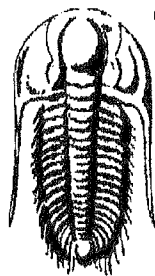


15-025-21389

15-33s-2lw



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil CO Inc**

PO Box 372
Hays KS 67601-0372

ATTN: Al Downing

³³
15 32 21 Clark KS

Hazen 1-15

Start Date: 2007.02.02 @ 00:30:57

End Date: 2007.02.02 @ 10:40:57

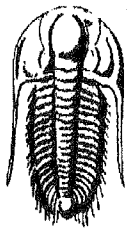
Job Ticket #: 24476 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Top 15 33, not 32 as printed



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil CO Inc

Hazen 1-15

PO Box 372
Hays KS 67601-0372

15 32 21 Clark KS

Job Ticket: 24476

DST#: 1

ATTN: Al Downing

Test Start: 2007.02.02 @ 00:30:57

GENERAL INFORMATION:

Formation: **Morrow sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:57

Time Test Ended: 10:40:57

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **5270.00 ft (KB) To 5365.00 ft (KB) (TVD)**

Total Depth: 5365.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 6751

Inside

Press@RunDepth: 54.67 psig @ 5336.00 ft (KB)

Start Date: 2007.02.02

End Date:

2007.02.02

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 00:30:58

End Time:

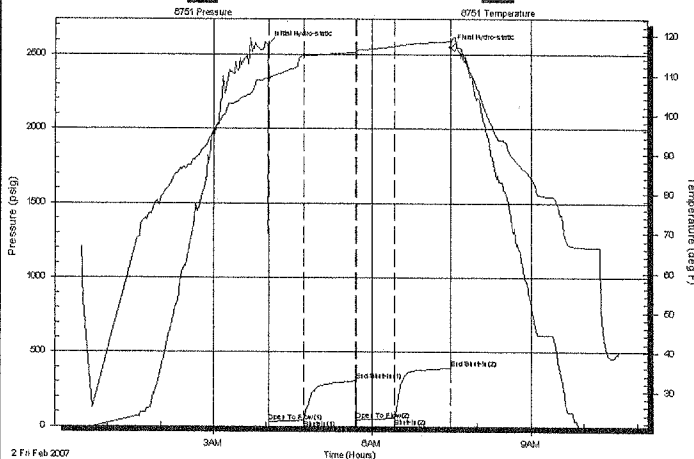
10:40:57

Time On Btm: 2007.02.02 @ 04:02:12

Time Off Btm: 2007.02.02 @ 07:29:27

TEST COMMENT: IF Good building blow BOB 17 min NO GTS
ISI Would not close or lots of blow back???
FF Strong blow BOB ASAO NO GTS
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

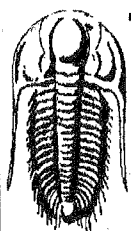
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2564.30	109.14	Initial Hydro-static
1	31.74	108.68	Open To Flow (1)
41	42.56	114.95	Shut-In(1)
100	306.64	115.76	End Shut-In(1)
101	41.93	115.68	Open To Flow (2)
145	54.67	117.27	Shut-In(2)
207	393.95	118.56	End Shut-In(2)
208	2546.13	119.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	10%G 90%M	0.66

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil CO Inc

Hazen 1-15

PO Box 372
Hays KS 67601-0372

15 32 21 Clark KS

Job Ticket: 24476

DST#: 1

ATTN: Al Dow ning

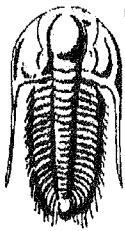
Test Start: 2007.02.02 @ 00:30:57

Tool Information

Drill Pipe:	Length: 5093.00 ft	Diameter: 3.80 inches	Volume: 71.44 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 174.00 ft	Diameter: 2.25 inches	Volume: 0.86 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	72.30 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	5270.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	95.00 ft				
Tool Length:	123.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5243.00	
Shut In Tool	5.00			5248.00	
Hydraulic tool	5.00			5253.00	
Jars	5.00			5258.00	
Safety Joint	3.00			5261.00	
Packer	5.00			5266.00	28.00 Bottom Of Top Packer
Packer	4.00			5270.00	
Stubb	1.00			5271.00	
Perforations	1.00			5272.00	
Change Over Sub	1.00			5273.00	
Drill Pipe	62.00			5335.00	
Change Over Sub	1.00			5336.00	
Recorder	0.00	6751	Inside	5336.00	
Perforations	25.00			5361.00	
Recorder	0.00	11018	Inside	5361.00	
Bullnose	4.00			5365.00	95.00 Bottom Packers & Anchor
Total Tool Length:		123.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil CO Inc

Hazen 1-15

PO Box 372
Hays KS 67601-0372

15 32 21 Clark KS

Job Ticket: 24476

DST#: 1

ATTN: Al Downing

Test Start: 2007.02.02 @ 00:30:57

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	10%G 90%M	0.664

Total Length: 135.00 ft

Total Volume: 0.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

15 32 21 Clark KS

Dow nung Nelson Oil CO Inc

Inside

Serial #: 6751

Pressure vs. Time

