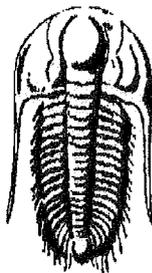


15-065-23661

27-9s-24w

IND



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co. Inc.**

PO Box 372  
Hays Ks 67601

ATTN: Al Downing

**27-9-24-Graham,Ks**

**Donnie # 1-27**

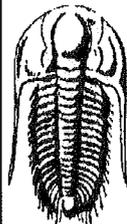
Start Date: 2010.08.01 @ 18:02:20

End Date: 2010.08.02 @ 01:05:50

Job Ticket #: 039911          DST #: 1

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

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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning Nelson Oil Co. Inc.

**Donnie # 1-27**

PO Box 372  
Hays Ks 67601

**27-9-24-Graham,Ks**

Job Ticket: 039911 **DST#: 1**

ATTN: Al Dow ning

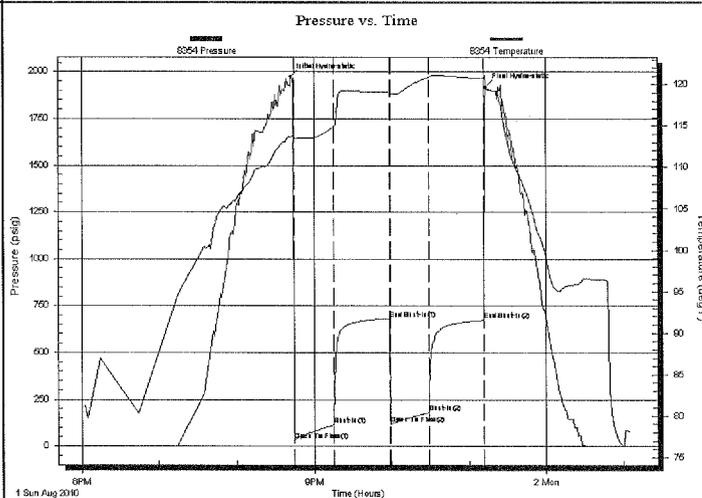
Test Start: 2010.08.01 @ 18:02:20

## GENERAL INFORMATION:

Formation: **H-I-J LKC**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 20:44:20  
 Time Test Ended: 01:05:50  
 Interval: **3930.00 ft (KB) To 4008.00 ft (KB) (TVD)**  
 Total Depth: **4008.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **38**  
 Reference Elevations: **2479.00 ft (KB)**  
**2471.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8354** **Inside**  
 Press@RunDepth: **179.57 psig @ 3933.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.08.01** End Date: **2010.08.02** Last Calib.: **2010.08.02**  
 Start Time: **18:02:21** End Time: **01:05:50** Time On Btm: **2010.08.01 @ 20:41:35**  
 Time Off Btm: **2010.08.01 @ 23:12:50**

**TEST COMMENT:** IF-Strong B-B in 15 min  
 ISI-Weak blow back for 20 min  
 FF-Weak building to 10" fair blow  
 FSI-Weak steady surface blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1972.60	113.65	Initial Hydro-static
3	31.42	113.47	Open To Flow (1)
34	113.84	114.87	Shut-In(1)
77	682.02	119.06	End Shut-In(1)
78	119.73	118.92	Open To Flow (2)
108	179.57	120.82	Shut-In(2)
151	672.84	120.68	End Shut-In(2)
152	1917.81	120.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	Wtr w / scum of oil	2.32
165.00	OCM 30%o 70%m	2.31
6.00	CO	0.08
0.00	185 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning Nelson Oil Co. Inc.

**Donnie # 1-27**

PO Box 372  
Hays Ks 67601

**27-9-24-Graham,Ks**

Job Ticket: 039911

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2010.08.01 @ 18:02:20

### Tool Information

Drill Pipe:	Length: 3895.00 ft	Diameter: 3.80 inches	Volume: 54.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3930.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	78.00 ft			
Tool Length:	98.00 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			3911.00	
Shut In Tool	5.00			3916.00	
Hydraulic tool	5.00			3921.00	
*Packer	5.00			3926.00	*20.00 Bottom Of Top Packer
Packer	4.00			3930.00	
Stubb	1.00			3931.00	
Perforations	1.00			3932.00	
Change Over Sub	1.00			3933.00	
Recorder	0.00	8354	Inside	3933.00	
Recorder	0.00	8520	Outside	3933.00	
Drill Pipe	63.00			3996.00	
Change Over Sub	1.00			3997.00	
Perforations	8.00			4005.00	
Bullnose	3.00			4008.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing Nelson Oil Co. Inc.

**Donnie # 1-27**

PO Box 372  
Hays Ks 67601

**27-9-24-Graham, Ks**

Job Ticket: 039911

**DST#: 1**

ATTN: Al Downing

Test Start: 2010.08.01 @ 18:02:20

## 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:

80000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	Wtr w/ scum of oil	2.322
165.00	OCM 30%o 70%m	2.315
6.00	CO	0.084
0.00	185 GIP	0.000

Total Length: 356.00 ft

Total Volume: 4.721 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .08 @ 80F

### Pressure vs. Time

