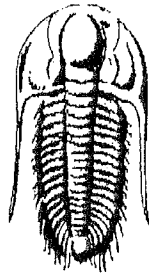


23-13s-21w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

23-13s-21w Trego

Greg Kroeger #1-23

Start Date: 2005.05.20 @ 17:29:58

End Date: 2005.05.20 @ 22:38:27

Job Ticket #: 22666 DST #: 1

15-195-22291-00-00

NE SW SE

980 BSL 1470 FEL

RECEIVED
AUG 05 2005
KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co Inc

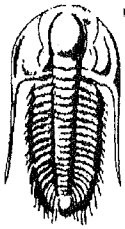
Greg Kroeger #1-23

23-13s-21w Trego

DST # 1

Marmaton

2005.05.20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

Greg Kroeger #1-23

P O Box 372
Hays Ks 67601

23-13s-21w Trego

Job Ticket: 22666

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.05.20 @ 17:29:58

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:57

Time Test Ended: 22:38:27

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3897.00 ft (KB) To 3948.00 ft (KB) (TVD)**

Reference Elevations: 2277.00 ft (KB)

Total Depth: 3948.00 ft (KB) (TVD)

2268.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8167 Inside

Press@RunDepth: 32.40 psig @ 3912.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2005.05.20

End Date: 2005.05.20

Last Calib.: 2005.05.20

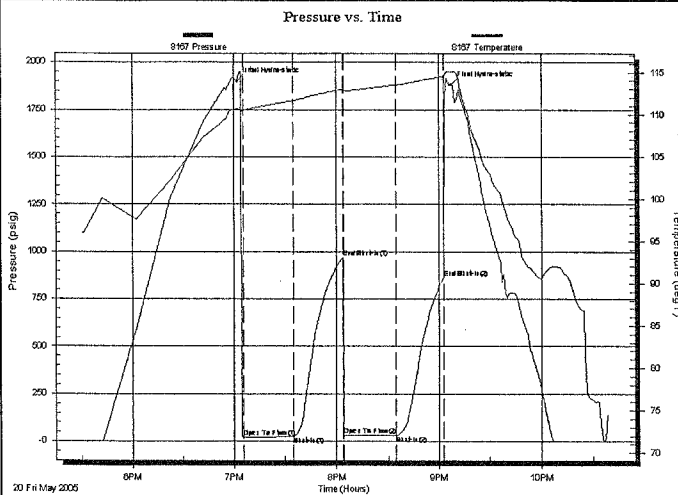
Start Time: 17:29:58

End Time: 22:38:27

Time On Btm: 2005.05.20 @ 19:01:27

Time Off Btm: 2005.05.20 @ 21:07:27

TEST COMMENT: IFF-surface bl died in 10 min
FFP-no bl
Times 30-30-30-30



PRESSURE SUMMARY

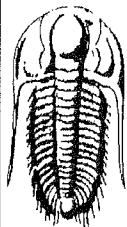
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1900.05	110.63	Initial Hydro-static
4	22.27	110.46	Open To Flow (1)
33	24.68	111.64	Shut-In(1)
62	970.68	112.96	End Shut-In(1)
63	29.57	112.65	Open To Flow (2)
93	32.40	113.51	Shut-In(2)
122	862.77	114.50	End Shut-In(2)
126	1882.91	115.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 3%O 97%M	0.02

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

Greg Kroeger #1-23

P O Box 372
Hays Ks 67601

23-13s-21w Trego

Job Ticket: 22666

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.05.20 @ 17:29:58

Tool Information

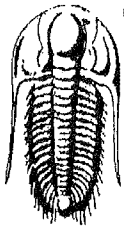
Drill Pipe:	Length: 3857.00 ft	Diameter: 3.80 inches	Volume: 54.10 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3897.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.02 ft			
Tool Length:	72.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3877.00	
Shut In Tool	5.00			3882.00	
Hydraulic tool	5.00			3887.00	
Packer	5.00			3892.00	21.00 Bottom Of Top Packer
Packer	5.00			3897.00	
Stubb	1.00			3898.00	
Perforations	14.00			3912.00	
Recorder	0.01	8167	Inside	3912.01	
Blank Spacing	33.00			3945.01	
Recorder	0.01	13534	Outside	3945.02	
Bullnose	3.00			3948.02	51.02 Bottom Packers & Anchor

Total Tool Length: 72.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

Greg Kroeger #1-23

P O Box 372
Hays Ks 67601

23-13s-21w Trego

Job Ticket: 22666

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.05.20 @ 17:29:58

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM.3%O 97%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

