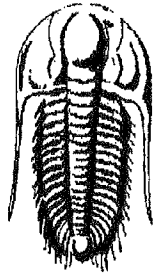


15-195-22461

34-14s-21w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

34-14s-21w-Trego KS

Befort Trust # 1-34

Start Date: 2007.07.11 @ 20:03:56

End Date: 2007.07.12 @ 02:40:56

Job Ticket #: 28653 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co., Inc.

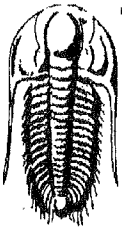
Befort Trust # 1-34

34-14s-21w-Trego KS

DST # 1

Cherokee

2007.07.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing-Nelson Oil Co., Inc.

Befort Trust # 1-34

PO Box 372
Hays KS 67601-0372

34-14s-21w-Trego KS

ATTN: Ron Nelson

Job Ticket: 28653

DST#: 1

Test Start: 2007.07.11 @ 20:03:56

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 22:05:56

Time Test Ended: 02:40:56

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3780.00 ft (KB) To 3831.00 ft (KB) (TVD)**

Total Depth: 3831.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2073.00 ft (KB)

2068.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: 254.23 psig @ 3783.00 ft (KB)

Start Date: 2007.07.11

End Date:

2007.07.12

Start Time: 20:04:01

End Time:

02:40:55

Capacity: 7000.00 psig

Last Calib.: 2007.07.12

Time On Btm: 2007.07.11 @ 22:05:26

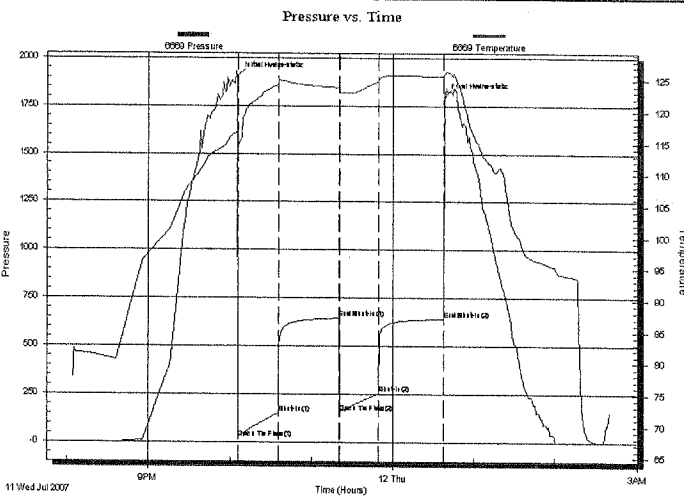
Time Off Btm: 2007.07.12 @ 00:38:26

TEST COMMENT: IF- Strong B.O.B. min.

IS- Dead

FF- Strong B.O.B.

FS- Dead



PRESSURE SUMMARY

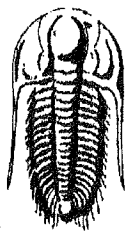
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.32	116.88	Initial Hydro-static
1	21.87	114.40	Open To Flow (1)
30	152.58	124.40	Shut-In(1)
75	644.75	123.83	End Shut-In(1)
75	155.63	123.13	Open To Flow (2)
104	254.23	124.84	Shut-In(2)
152	641.70	125.57	End Shut-In(2)
153	1796.48	125.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
531.00	MSW-with oil scum on top	7.18

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.

Befort Trust # 1-34

PO Box 372
Hays KS 67601-0372

34-14s-21w-Trego KS

Job Ticket: 28653

DST#: 1

ATTN: Ron Nelson

Test Start: 2007.07.11 @ 20:03:56

Tool Information

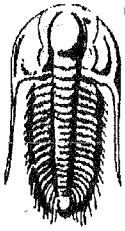
Drill Pipe:	Length: 3743.00 ft	Diameter: 3.80 inches	Volume: 52.50 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume:	52.65 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3780.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 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			3761.00	
Shut In Tool	5.00			3766.00	
Hydraulic tool	5.00			3771.00	
Packer	4.00			3775.00	20.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Stubb	1.00			3781.00	
Perforations	1.00			3782.00	
Change Over Sub	1.00			3783.00	
Recorder	0.00	6669	Inside	3783.00	
Blank Spacing	31.00			3814.00	
Recorder	0.00	11084	Outside	3814.00	
Change Over Sub	1.00			3815.00	
Perforations	13.00			3828.00	
Bullnose	3.00			3831.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co., Inc.

Befort Trust # 1-34

PO Box 372
Hays KS 67601-0372

34-14s-21w-Trego KS

Job Ticket: 28653 **DST#: 1**

ATTN: Ron Nelson

Test Start: 2007.07.11 @ 20:03:56

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:	33000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
531.00	MSW-w ith oil scum on top	7.175

Total Length: 531.00 ft Total Volume: 7.175 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6669

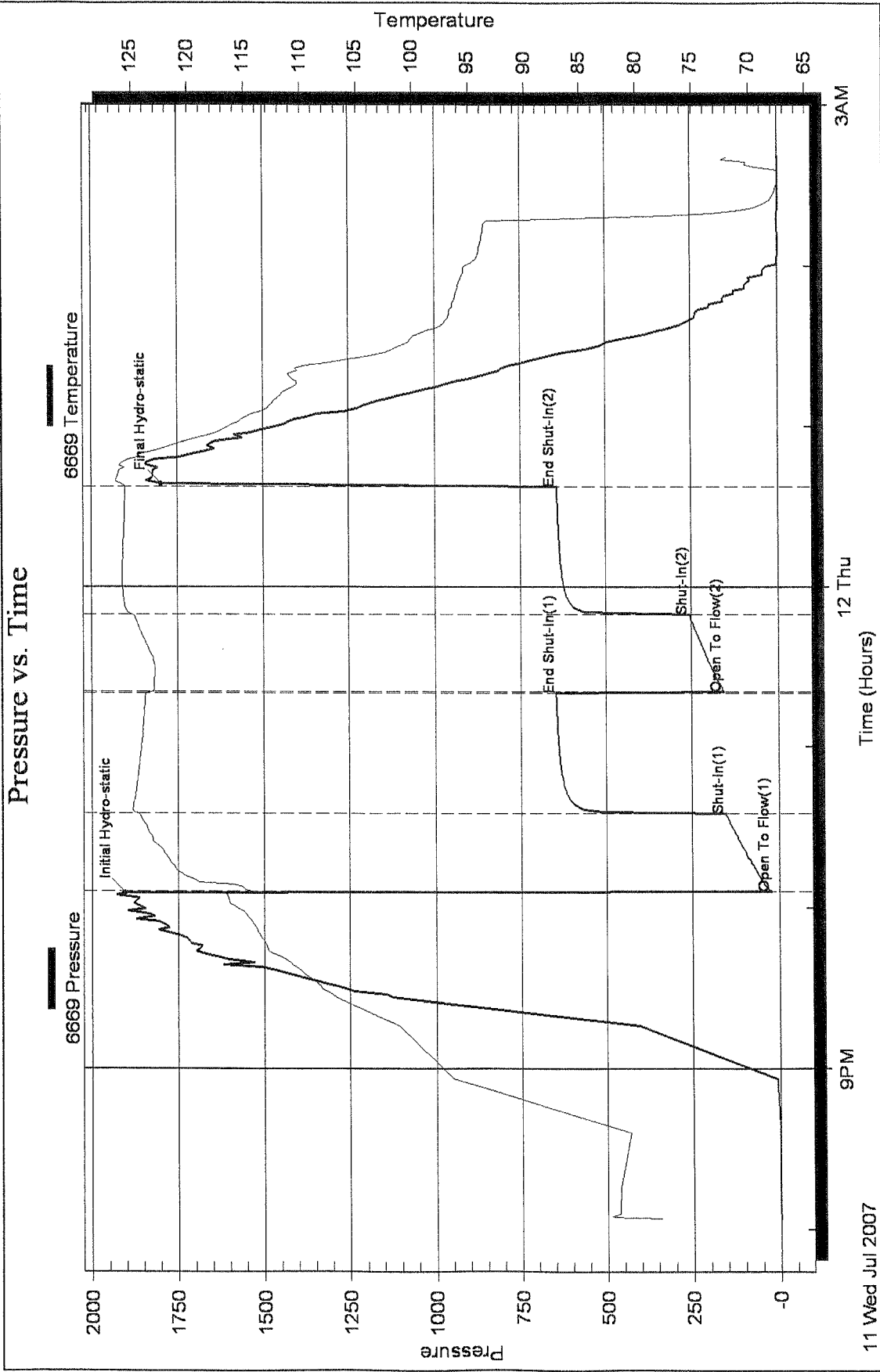
Inside

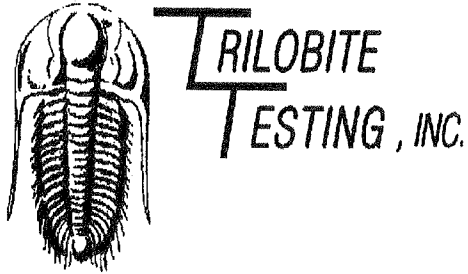
Dowling-Nelson Oil Co., Inc.

34-14s-21w - Trego KS

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

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

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

34-14s-21w-Trego KS

Befort Trust # 1-34

Start Date: 2007.07.12 @ 18:12:03

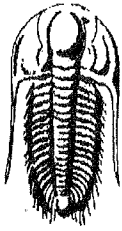
End Date: 2007.07.13 @ 00:09:03

Job Ticket #: 28654 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing-Nelson Oil Co., Inc.

Befort Trust # 1-34

PO Box 372
Hays KS 67601-0372

34-14s-21w-Trego KS

ATTN: Ron Nelson

Job Ticket: 28654

DST#: 2

Test Start: 2007.07.12 @ 18:12:03

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:47:03

Time Test Ended: 00:09:03

Test Type: Conventional Straddle

Tester: John Schmidt

Unit No: 31

Interval: **3657.00 ft (KB) To 3770.00 ft (KB) (TVD)**

Total Depth: 3957.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2073.00 ft (KB)

2068.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: 224.24 psig @ 3660.00 ft (KB)

Start Date: 2007.07.12

End Date:

2007.07.13

Start Time: 18:12:08

End Time:

00:09:02

Capacity: 7000.00 psig

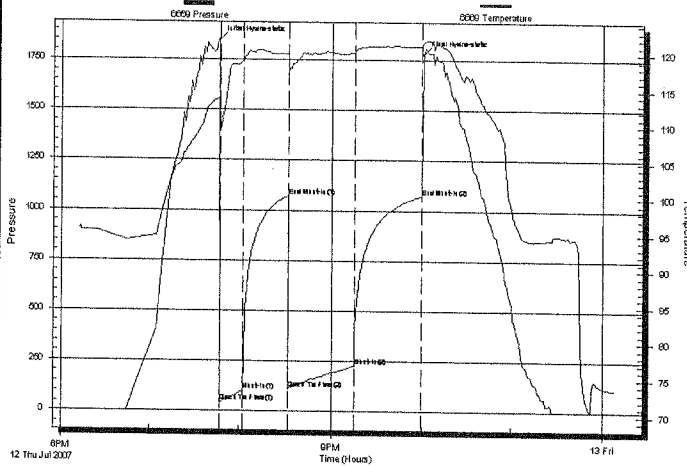
Last Calib.: 2007.07.13

Time On Btm: 2007.07.12 @ 19:46:33

Time Off Btm: 2007.07.12 @ 22:00:33

TEST COMMENT: IF- Strong B.O.B. 10 min.
IS- Dead
FF- Strong B.O.B. 12 min.
FS- Dead

Pressure vs. Time



PRESSURE SUMMARY

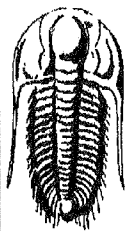
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1847.25	113.94	Initial Hydro-static
1	42.93	110.15	Open To Flow (1)
16	100.73	119.00	Shut-In(1)
45	1070.40	119.97	End Shut-In(1)
46	112.55	118.47	Open To Flow (2)
89	224.24	120.11	Shut-In(2)
133	1071.99	121.12	End Shut-In(2)
134	1778.18	121.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	SOWCM-2%O-10%W-88%M	4.15
125.00	Mud	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co., Inc.

Befort Trust # 1-34

PO Box 372
Hays KS 67601-0372

34-14s-21w-Trego KS

Job Ticket: 28654 **DST#: 2**

ATTN: Ron Nelson

Test Start: 2007.07.12 @ 18:12:03

Tool Information

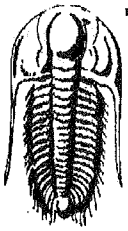
Drill Pipe:	Length: 3621.00 ft	Diameter: 3.80 inches	Volume: 50.79 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 50.94 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3657.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	3770.00 ft			
Interval between Packers:	113.00 ft			
Tool Length:	322.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3638.00	
Shut In Tool	5.00			3643.00	
Hydraulic tool	5.00			3648.00	
Packer	4.00			3652.00	20.00 Bottom Of Top Packer
Packer	5.00			3657.00	
Stubb	1.00			3658.00	
Perforations	1.00			3659.00	
Change Over Sub	1.00			3660.00	
Recorder	0.00	6669	Inside	3660.00	
Blank Spacing	93.00			3753.00	
Perforations	16.00			3769.00	
Recorder	0.00	13308	Outside	3769.00	
Blank Off Sub	1.00			3770.00	113.00 Tool Interval
Packer	0.00			3770.00	
Stubb	1.00			3771.00	
Perforations	1.00			3772.00	
Change Over Sub	1.00			3773.00	
Recorder	0.00	11084		3773.00	
Blank Spacing	186.00			3959.00	189.00 Bottom Packers & Anchor

Total Tool Length: 322.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

Befort Trust # 1-34

PO Box 372
Hays KS 67601-0372

34-14s-21w-Trego KS

Job Ticket: 28654

DST#: 2

ATTN: Ron Nelson

Test Start: 2007.07.12 @ 18:12:03

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	SOWCM-2%O-10%W-88%M	4.145
125.00	Mud	1.753

Total Length: 440.00 ft Total Volume: 5.898 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6669

Inside

Downing-Nelson Oil Co., Inc.

34-14s-21w - Trego KS

DST Test Number: 2

Pressure vs. Time

