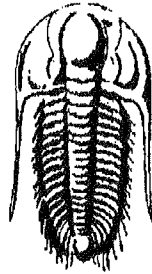


15-195-22605

13-12s-23w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 372
Hays Ks 67601-0372

ATTN: Ron Nelson

13-12s-23w Trego KS

Reidel Brothers #1-13

Start Date: 2009.05.08 @ 03:29:00

End Date: 2009.05.08 @ 08:52:54

Job Ticket #: 36300 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Downing-Nelson Oil Co Inc

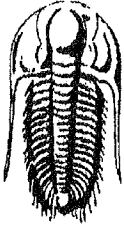
Reidel Brothers #1-13

13-12s-23w Trego KS

DST # 1

LKC-C-D

2009.05.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

ATTN: Ron Nelson

Job Ticket: 36300

DST#: 1

Test Start: 2009.05.08 @ 03:29:00

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:30:00

Time Test Ended: 08:52:54

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3720.00 ft (KB) To 3762.00 ft (KB) (TVD)**

Total Depth: 3762.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2427.00 ft (KB)

2419.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 3727.01 ft (KB)

Start Date: 2009.05.08

End Date: 2009.05.08

Capacity: 7000.00 psig

Start Time: 03:29:00

End Time: 08:52:54

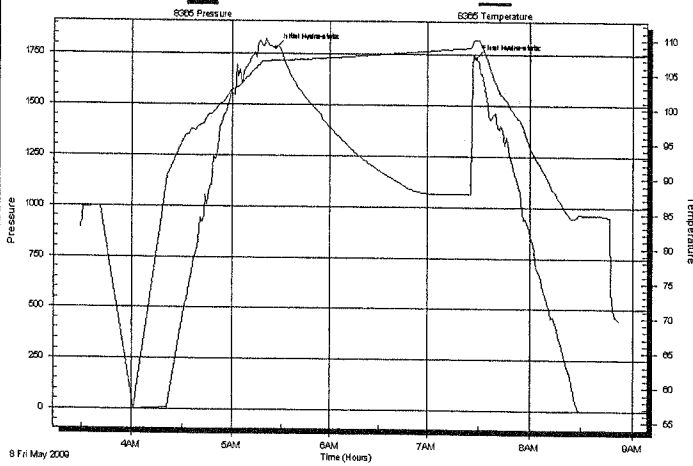
Last Calib.: 2009.05.08

Time On Btm: 2009.05.08 @ 05:26:25

Time Off Btm: 2009.05.08 @ 07:28:25

TEST COMMENT: IFP-surface bl died in 20 min
FFP-no bl
Times 30-30-30-30

Pressure vs. Time



PRESSURE SUMMARY

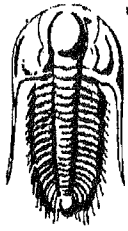
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.09	106.89	Initial Hydro-static
122	1731.44	109.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	fluid	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36300 **DST#: 1**

ATTN: Ron Nelson

Test Start: 2009.05.08 @ 03:29:00

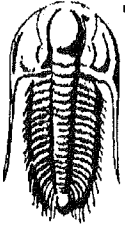
Tool Information

Drill Pipe:	Length: 3701.00 ft	Diameter: 3.80 inches	Volume: 51.92 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: 75000.00 lb
		Total Volume: 52.07 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3720.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.02 ft			
Tool Length:	63.02 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			3700.00	
Shut In Tool	5.00			3705.00	
Hydraulic tool	5.00			3710.00	
Packer	5.00			3715.00	21.00 Bottom Of Top Packer
Packer	5.00			3720.00	
Stubb	1.00			3721.00	
Perforations	6.00			3727.00	
Recorder	0.01	8365	Inside	3727.01	
Recorder	0.01	6625	Outside	3727.02	
Blank Spacing	32.00			3759.02	
Bullnose	3.00			3762.02	42.02 Bottom Packers & Anchor

Total Tool Length: 63.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36300

DST#: 1

ATTN: Ron Nelson

Test Start: 2009.05.08 @ 03:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.68 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	fluid	0.000

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

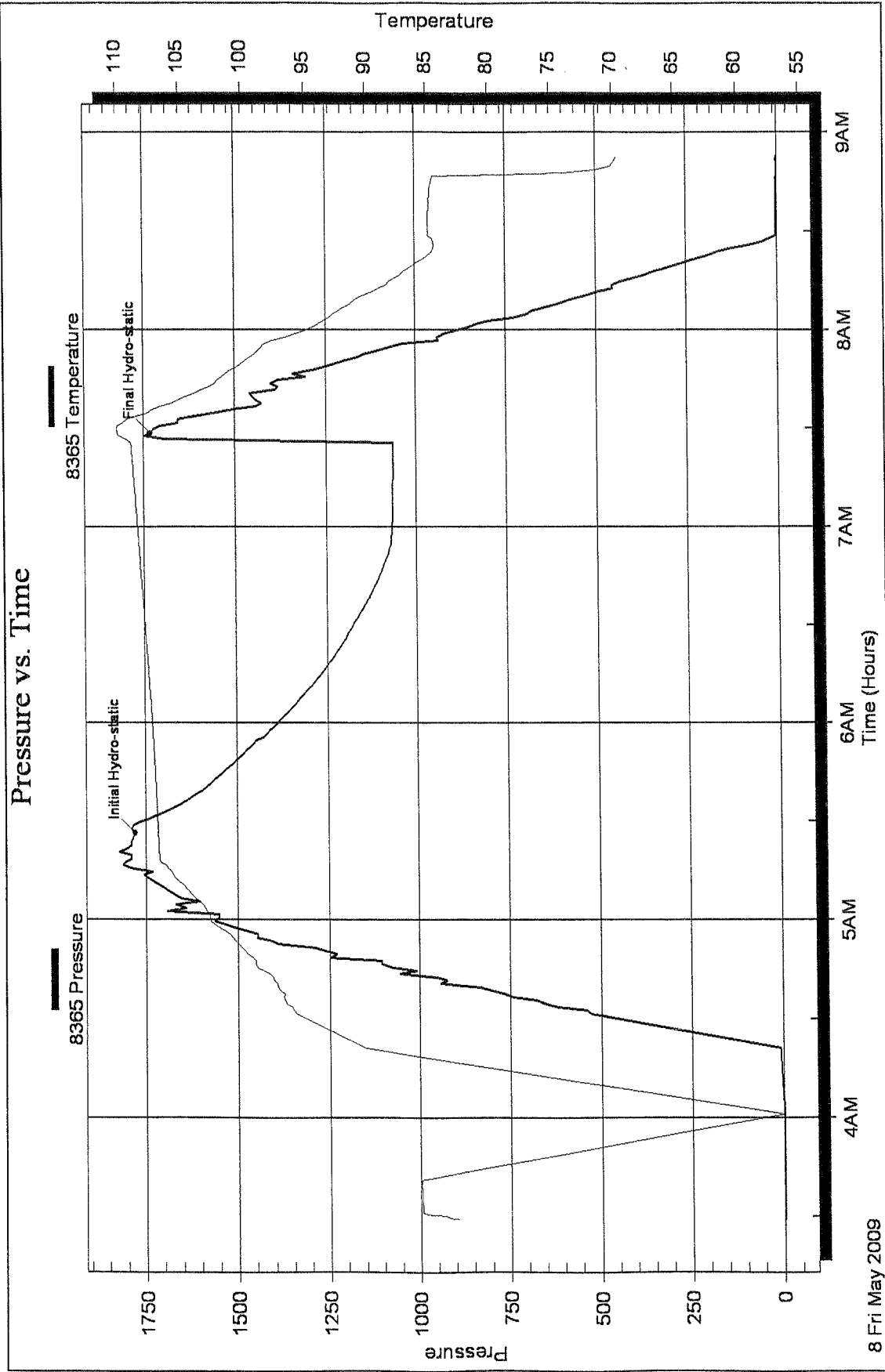
Serial #:

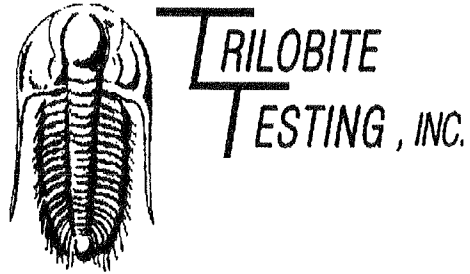
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

PO Box 372
Hays Ks 67601-0372

ATTN: Ron Nelson

13-12s-23w Trego KS

Reidel Brothers #1-13

Start Date: 2009.05.08 @ 10:05:00

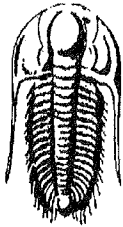
End Date: 2009.05.08 @ 15:38:00

Job Ticket #: 36426 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

ATTN: Ron Nelson

Job Ticket: 36426

DST#: 2

Test Start: 2009.05.08 @ 10:05:00

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:15:00

Time Test Ended: 15:38:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3720.00 ft (KB) To 3762.00 ft (KB) (TVD)**

Total Depth: 3762.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2427.00 ft (KB)

2419.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: 46.35 psig @ 3727.01 ft (KB)

Start Date: 2009.05.08

End Date:

2009.05.08

Capacity: 7000.00 psig

Last Calib.: 2009.05.08

Start Time: 10:05:23

End Time:

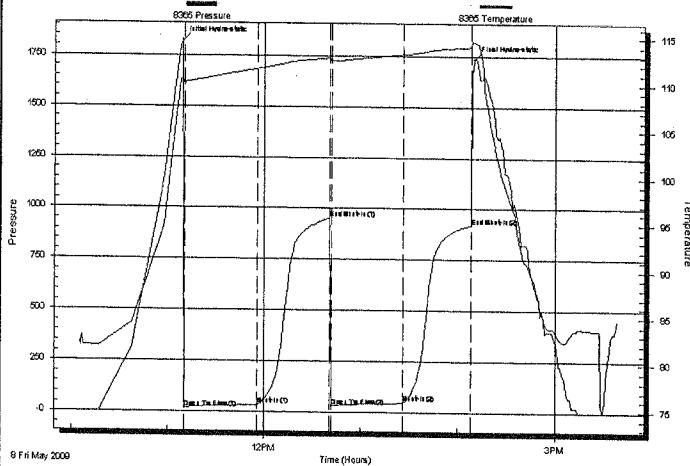
15:38:17

Time On Btm: 2009.05.08 @ 11:08:48

Time Off Btm: 2009.05.08 @ 14:10:18

TEST COMMENT: IFP-wk to a gd bl 1/4"to6"bl
FFP-wk to strg in 35 min
Times 45-45-45-45

Pressure vs. Time



PRESSURE SUMMARY

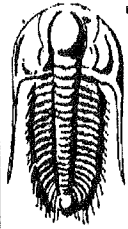
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.99	110.64	Initial Hydro-static
1	15.57	109.97	Open To Flow (1)
47	33.07	111.66	Shut-In(1)
92	952.05	112.83	End Shut-In(1)
93	28.72	112.54	Open To Flow (2)
138	46.35	113.23	Shut-In(2)
180	918.86	114.05	End Shut-In(2)
182	1733.41	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MGO 20%G50%O30%M	0.60
15.00	HO&GCM 10%G30%O60%M	0.21
0.00	355'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36426 **DST#: 2**

ATTN: Ron Nelson

Test Start: 2009.05.08 @ 10:05:00

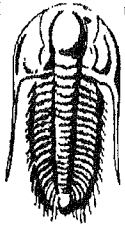
Tool Information

Drill Pipe:	Length: 3701.00 ft	Diameter: 3.80 inches	Volume: 51.92 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: 75000.00 lb
		<u>Total Volume:</u>	<u>52.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3720.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.02 ft			
Tool Length:	63.02 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			3700.00	
Shut In Tool	5.00			3705.00	
Hydraulic tool	5.00			3710.00	
Packer	5.00			3715.00	21.00 Bottom Of Top Packer
Packer	5.00			3720.00	
Stubb	1.00			3721.00	
Perforations	6.00			3727.00	
Recorder	0.01	8365	Inside	3727.01	
Recorder	0.01	6625	Outside	3727.02	
Blank Spacing	32.00			3759.02	
Bullnose	3.00			3762.02	42.02 Bottom Packers & Anchor

Total Tool Length: 63.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

ATTN: Ron Nelson

Job Ticket: 36426

DST#: 2

Test Start: 2009.05.08 @ 10:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 8.66 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MGO 20%G50%O30%M	0.596
15.00	HO&GCM 10%G30%O60%M	0.210
0.00	355'GIP	0.000

Total Length: 77.00 ft

Total Volume: 0.806 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

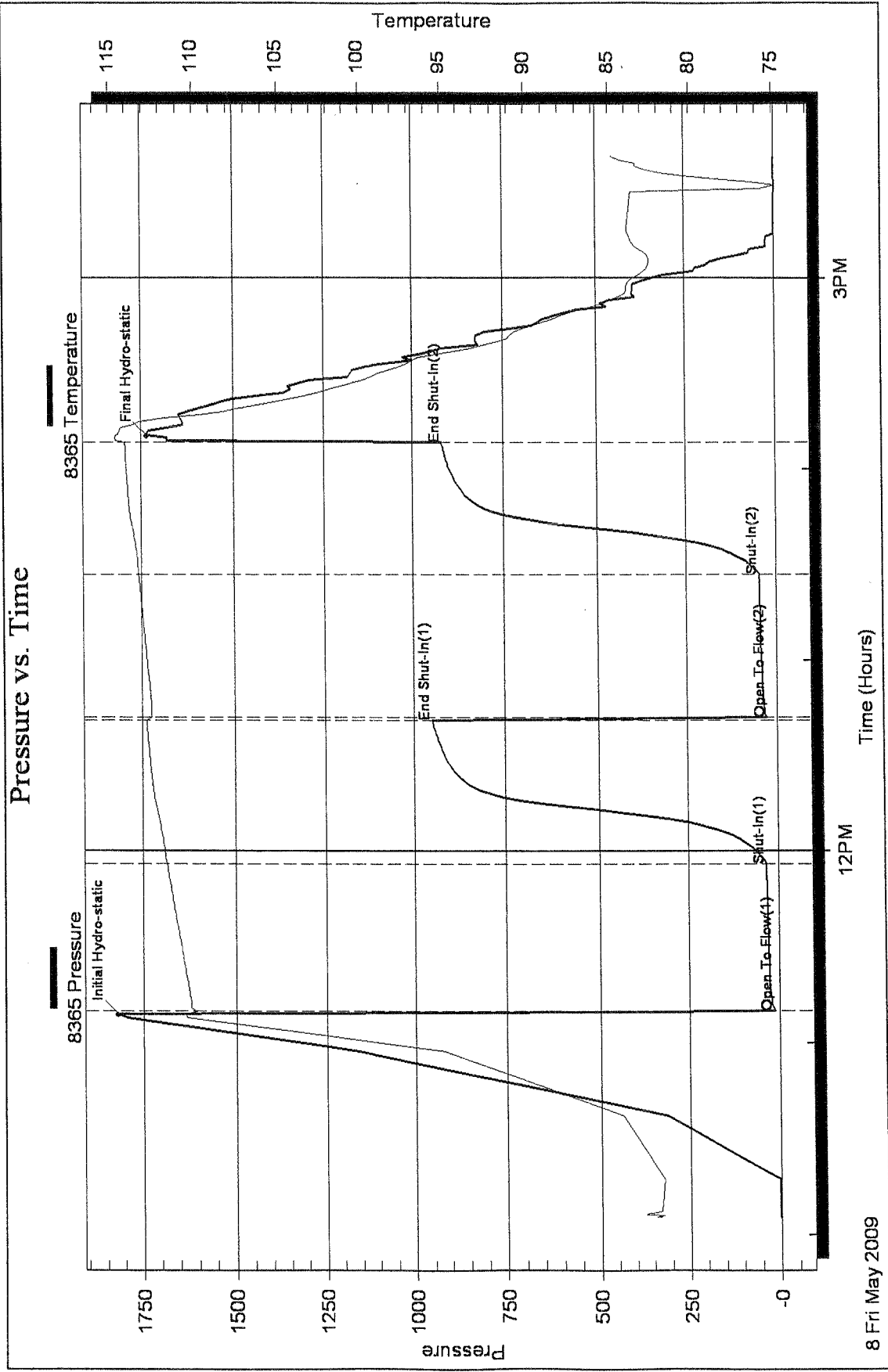
Serial #:

Laboratory Name:

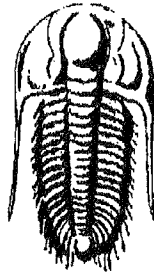
Laboratory Location:

Recovery Comments:

Pressure vs. Time



8 Fri May 2009



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 372
Hays Ks 67601-0372

ATTN: Ron Nelson

13-12s-23w Trego KS

Reidel Brothers #1-13

Start Date: 2009.05.08 @ 22:20:48

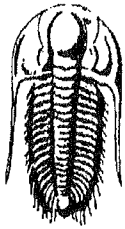
End Date: 2009.05.09 @ 04:21:42

Job Ticket #: 36427 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

ATTN: Ron Nelson

Job Ticket: 36427

DST#: 3

Test Start: 2009.05.08 @ 22:20:48

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:40:13

Time Test Ended: 04:21:42

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **3760.00 ft (KB) To 3779.00 ft (KB) (TVD)**

Total Depth: 3779.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2427.00 ft (KB)

2419.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: 46.64 psig @ 3761.01 ft (KB)

Start Date: 2009.05.08

End Date:

2009.05.09

Start Time: 22:20:48

End Time:

04:21:42

Capacity: 7000.00 psig

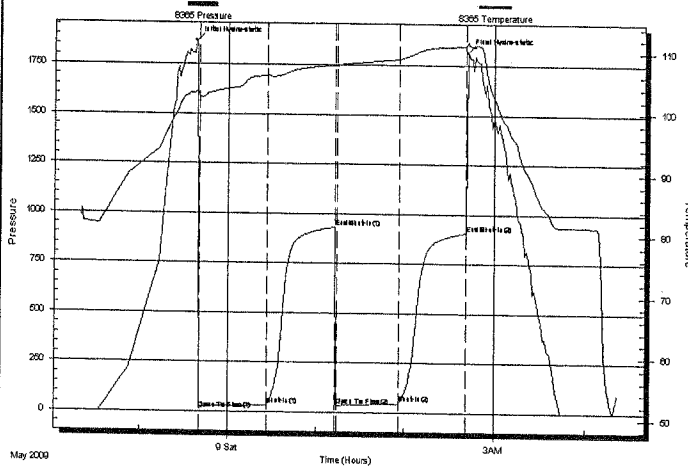
Last Calib.: 2009.05.09

Time On Btm: 2009.05.08 @ 23:38:13

Time Off Btm: 2009.05.09 @ 02:42:12

TEST COMMENT: IFP-wk to a fr bl 1/4" to 3 1/2" bl
FFP-wk to a fr bl 1" to 5" bl
Times 45-45-45-45
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

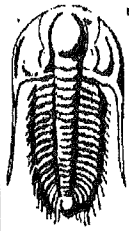
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.42	103.50	Initial Hydro-static
2	12.30	102.75	Open To Flow (1)
48	36.66	106.14	Shut-In (1)
95	931.59	107.85	End Shut-In (1)
96	32.29	107.87	Open To Flow (2)
138	46.64	108.93	Shut-In (2)
183	906.13	111.11	End Shut-In (2)
184	1815.52	111.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	HO&GCM 10%G40%O50%M	0.60
40.00	MGO 10%G70%O20%M	0.56
0.00	320'GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36427

DST#: 3

ATTN: Ron Nelson

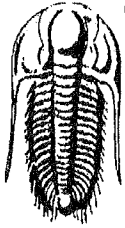
Test Start: 2009.05.08 @ 22:20:48

Tool Information

Drill Pipe:	Length: 3735.00 ft	Diameter: 3.80 inches	Volume: 52.39 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: 75000.00 lb
			<u>Total Volume: 52.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3760.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.02 ft			
Tool Length:	40.02 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			3740.00	
Shut In Tool	5.00			3745.00	
Hydraulic tool	5.00			3750.00	
Packer	5.00			3755.00	21.00 Bottom Of Top Packer
Packer	5.00			3760.00	
Stubb	1.00			3761.00	
Recorder	0.01	8365	Inside	3761.01	
Recorder	0.01	6625	Outside	3761.02	
Perforations	15.00			3776.02	
Bullnose	3.00			3779.02	19.02 Bottom Packers & Anchor
Total Tool Length:	40.02				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36427 **DST#: 3**

ATTN: Ron Nelson

Test Start: 2009.05.08 @ 22:20:48

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.70 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	HO&GCM 10%G40%O50%M	0.596
40.00	MGO 10%G70%O20%M	0.561
0.00	320'GIP	0.000

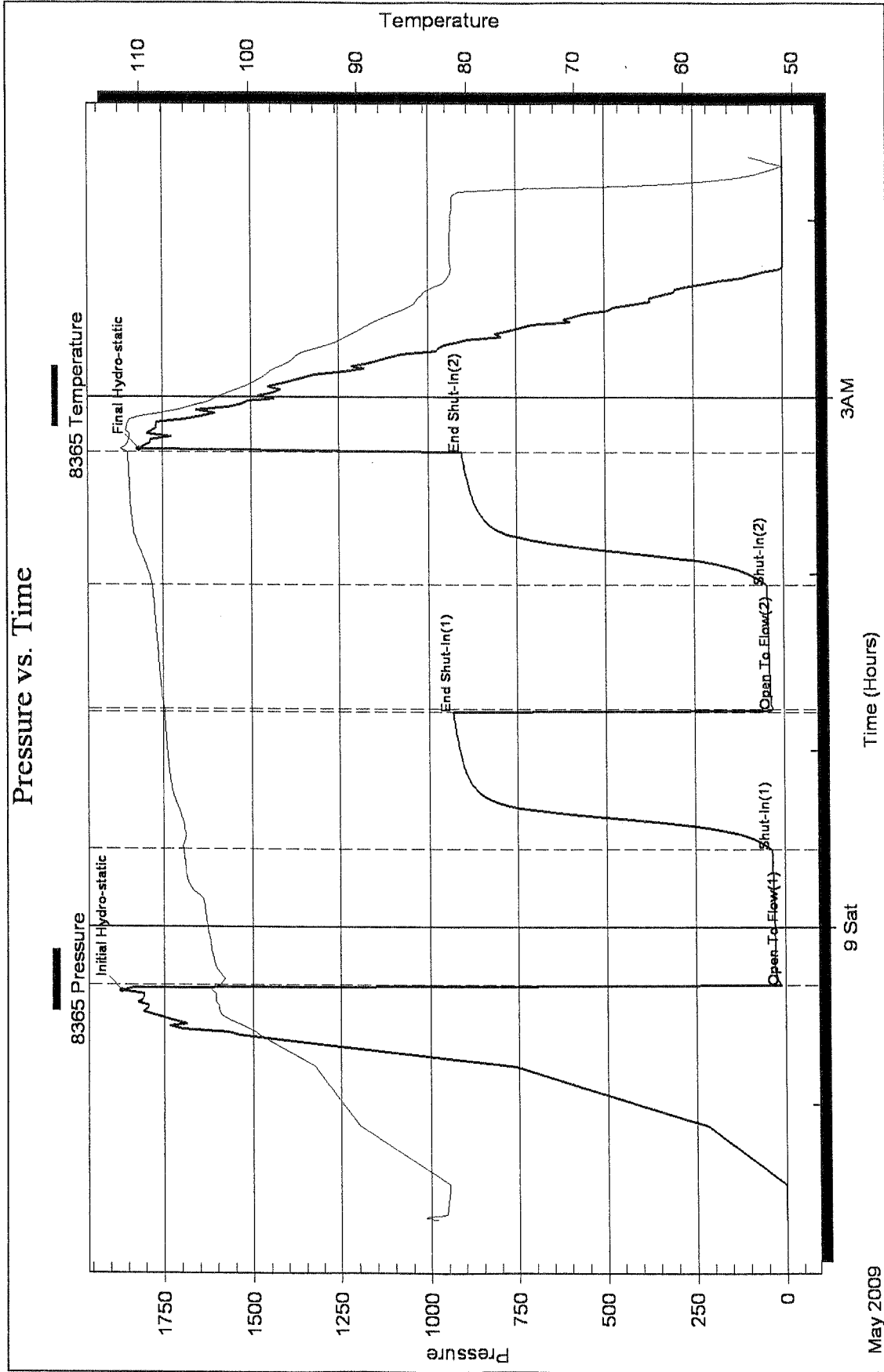
Total Length: 102.00 ft Total Volume: 1.157 bbl

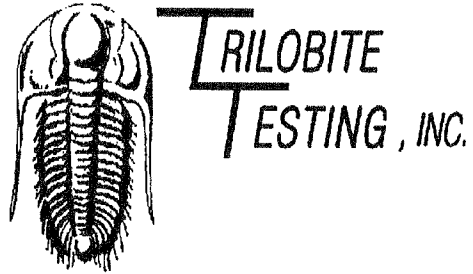
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

PO Box 372
Hays Ks 67601-0372

ATTN: Ron Nelson

13-12s-23w Trego KS

Reidel Brothers #1-13

Start Date: 2009.05.09 @ 19:11:10

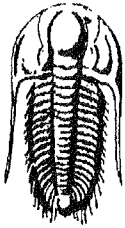
End Date: 2009.05.10 @ 01:52:04

Job Ticket #: 36428 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

ATTN: Ron Nelson

Job Ticket: 36428

DST#: 4

Test Start: 2009.05.09 @ 19:11:10

GENERAL INFORMATION:

Formation: **LKC I-J**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 20:49:05
 Time Test Ended: 01:52:04

Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **42**

Interval: **3850.00 ft (KB) To 3896.00 ft (KB) (TVD)**
 Total Depth: **3896.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Reference Elevations: **2427.00 ft (KB)**
2419.00 ft (CF)
 KB to GR/CF: **8.00 ft**

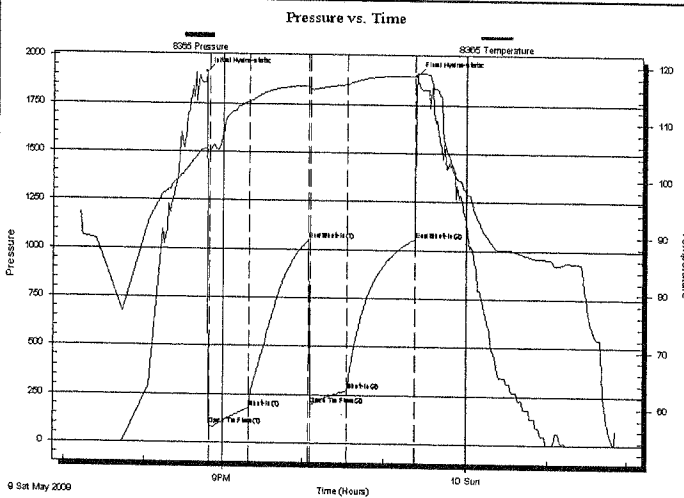
Serial #: 8365

Inside

Press@RunDepth: **273.34 psig @ 3861.01 ft (KB)**
 Start Date: **2009.05.09** End Date: **2009.05.10**
 Start Time: **19:11:10** End Time: **01:52:04**

Capacity: **7000.00 psig**
 Last Calib.: **2009.05.10**
 Time On Btm: **2009.05.09 @ 20:47:05**
 Time Off Btm: **2009.05.09 @ 23:24:05**

TEST COMMENT: IFF-strg bl in 1 min
 FFP-strg bl thru-out
 Times 30-45-30-45
 ISIP-strg bl bk in 15min, FSIP-strg bl bk in 21



PRESSURE SUMMARY

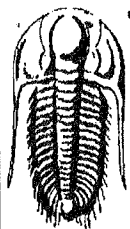
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1914.03	105.34	Initial Hydro-static
2	90.93	104.97	Open To Flow (1)
33	180.36	113.60	Shut-In(1)
78	1048.70	116.52	End Shut-In(1)
79	200.39	116.13	Open To Flow (2)
107	273.34	116.77	Shut-In(2)
156	1055.43	118.31	End Shut-In(2)
157	1901.77	118.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MGO 25%G60%O15%M	2.34
500.00	CO	7.01
0.00	1860'GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36428

DST#: 4

ATTN: Ron Nelson

Test Start: 2009.05.09 @ 19:11:10

Tool Information

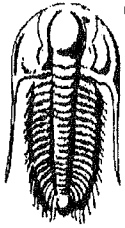
Drill Pipe:	Length: 3827.00 ft	Diameter: 3.80 inches	Volume: 53.68 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 53.83 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3850.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.02 ft			
Tool Length:	67.02 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			3830.00	
Shut In Tool	5.00			3835.00	
Hydraulic tool	5.00			3840.00	
Packer	5.00			3845.00	21.00 Bottom Of Top Packer
Packer	5.00			3850.00	
Stubb	1.00			3851.00	
Perforations	10.00			3861.00	
Recorder	0.01	8365	Inside	3861.01	
Recorder	0.01	6625	Outside	3861.02	
Blank Spacing	32.00			3893.02	
Bullnose	3.00			3896.02	46.02 Bottom Packers & Anchor

Total Tool Length: 67.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36428 **DST#: 4**

ATTN: Ron Nelson

Test Start: 2009.05.09 @ 19:11:10

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.67 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

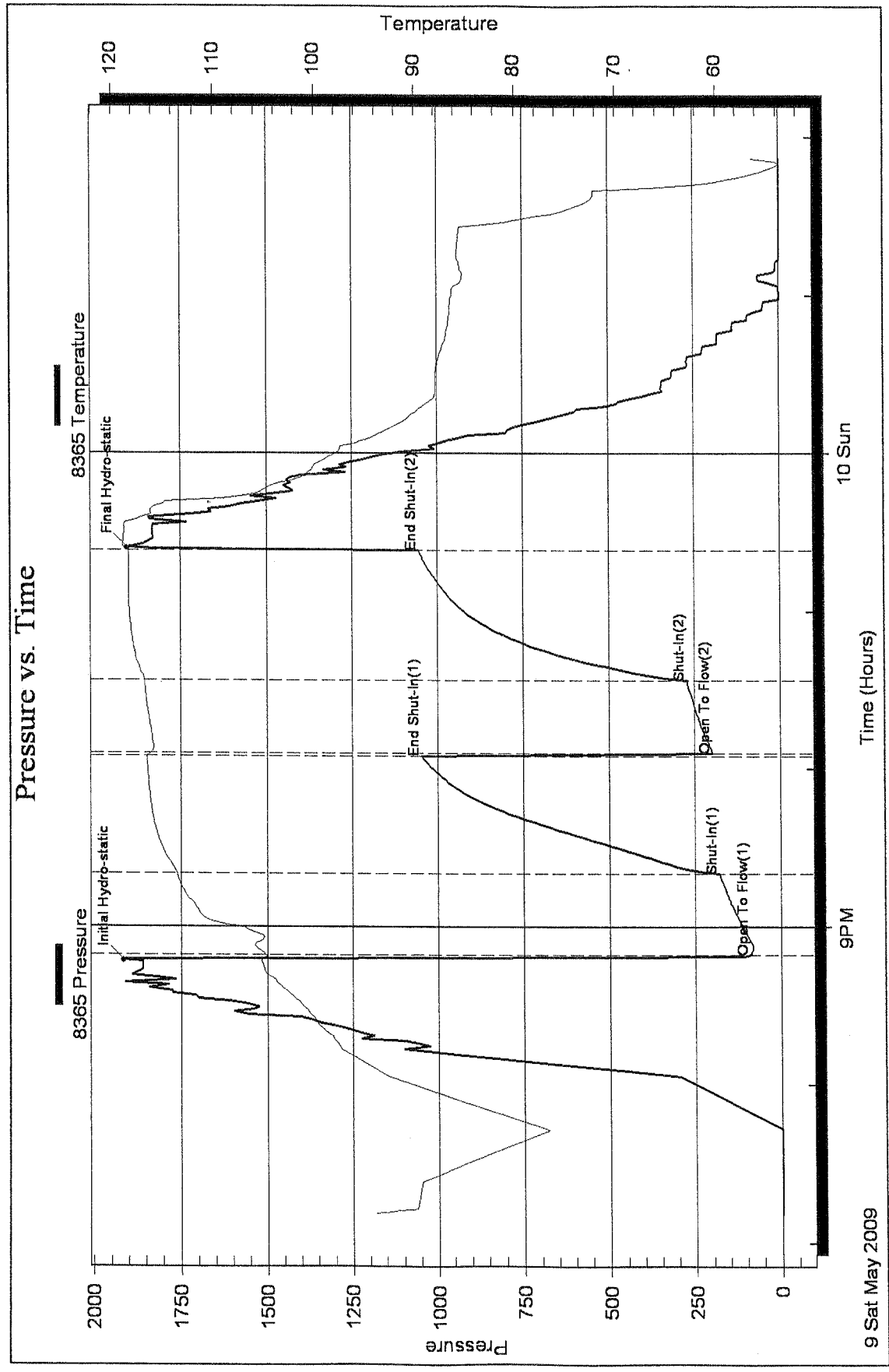
Length ft	Description	Volume bbl
186.00	MGO 25%G60%O15%M	2.336
500.00	CO	7.014
0.00	1860'GIP	0.000

Total Length: 686.00 ft Total Volume: 9.350 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

PO Box 372
Hays Ks 67601-0372

ATTN: Ron Nelson

13-12s-23w Trego KS

Reidel Brothers #1-13

Start Date: 2009.05.10 @ 21:27:09

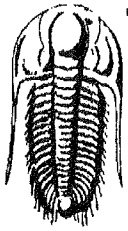
End Date: 2009.05.11 @ 03:00:03

Job Ticket #: 36429 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

ATTN: Ron Nelson

Job Ticket: 36429

DST#: 5

Test Start: 2009.05.10 @ 21:27:09

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:14:34

Time Test Ended: 03:00:03

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 4044.00 ft (KB) To 4095.00 ft (KB) (TVD)

Total Depth: 4095.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2427.00 ft (KB)

2419.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: 29.60 psig @ 4046.01 ft (KB)

Start Date: 2009.05.10

End Date:

2009.05.11

Start Time: 21:27:09

End Time:

03:00:03

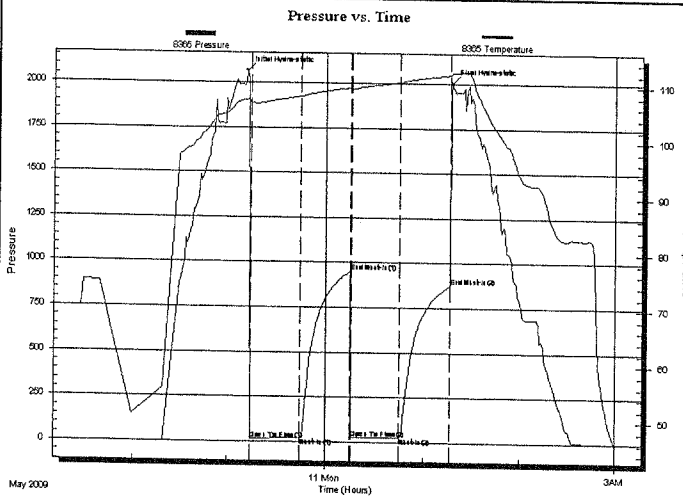
Capacity: 7000.00 psig

Last Calib.: 2009.05.11

Time On Btm: 2009.05.10 @ 23:12:04

Time Off Btm: 2009.05.11 @ 01:17:04

TEST COMMENT: IFP-wk bl thru-out 1/4"bl
FFP-surface bl died in 10 min
Times 30-30-30-30



PRESSURE SUMMARY

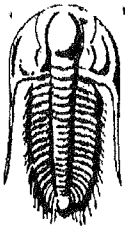
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2064.67	107.50	Initial Hydro-static
3	13.83	106.77	Open To Flow (1)
33	23.10	108.12	Shut-In(1)
63	951.50	109.69	End Shut-In(1)
64	24.35	109.38	Open To Flow (2)
93	29.60	110.69	Shut-In(2)
124	872.60	112.03	End Shut-In(2)
125	2002.57	112.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36429

DST#: 5

ATTN: Ron Nelson

Test Start: 2009.05.10 @ 21:27:09

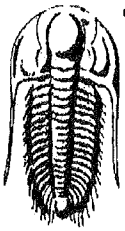
Tool Information

Drill Pipe:	Length: 4016.00 ft	Diameter: 3.80 inches	Volume: 56.33 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: 75000.00 lb
		Total Volume:	56.48 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4044.00 ft			Final 67000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4024.00	
Shut In Tool	5.00			4029.00	
Hydraulic tool	5.00			4034.00	
Packer	5.00			4039.00	21.00 Bottom Of Top Packer
Packer	5.00			4044.00	
Stubb	1.00			4045.00	
Perforations	1.00			4046.00	
Recorder	0.01	8365	Inside	4046.01	
Recorder	0.01	6625	Outside	4046.02	
Blank Spacing	32.00			4078.02	
Perforations	14.00			4092.02	
Bullnose	3.00			4095.02	51.02 Bottom Packers & Anchor

Total Tool Length: 72.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

Reidel Brothers #1-13

PO Box 372
Hays Ks 67601-0372

13-12s-23w Trego KS

Job Ticket: 36429

DST#: 5

ATTN: Ron Nelson

Test Start: 2009.05.10 @ 21:27:09

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: 9.16 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

