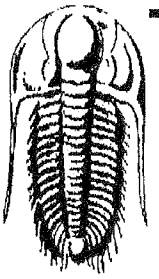
15-195-22482 28-13s-21w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

28 13 21W Trego KS

Jackie #1-28

Start Date: 2007.08.24 @ 21:03:03
End Date: 2007.08.25 @ 03:20:57
Job Ticket #: 29189 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Downing-Nelson Oil Co Inc
Jackie #1-28
28 13 21W Trego KS
DST # 1
Cher Sd
2007.08.24

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29189 **DST#: 1**

Test Start: 2007.08.24 @ 21:03:03

GENERAL INFORMATION:

Formation: **Cher Sd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:31:28
Time Test Ended: 03:20:57

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

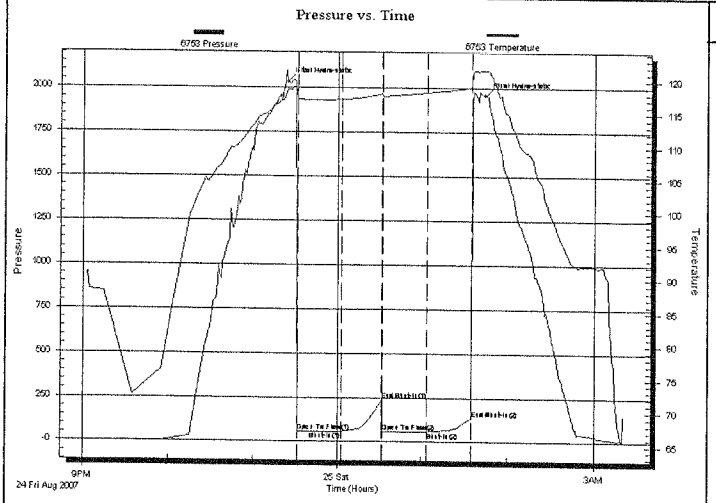
Interval: 4063.00 ft (KB) To 4115.00 ft (KB) (TVD)
Total Depth: 4115.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2343.00 ft (KB)
2335.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**
Press@RunDepth: 57.45 psig @ 4065.01 ft (KB)
Start Date: 2007.08.24 End Date: 2007.08.25
Start Time: 21:03:03 End Time: 03:20:57

Capacity: 7000.00 psig
Last Calib.: 2007.08.25
Time On Btm: 2007.08.24 @ 23:24:28
Time Off Btm: 2007.08.25 @ 01:43:57

TEST COMMENT: IFP Wk bl thru-out 1/4 " bl
FFP No bl
Times 30 30 30 30



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2034.75	118.69	Initial Hydro-static
7	59.19	117.30	Open To Flow (1)
39	58.62	117.18	Shut-In(1)
67	235.63	118.04	End Shut-In(1)
68	56.50	117.59	Open To Flow (2)
99	57.45	118.22	Shut-In(2)
131	132.13	119.04	End Shut-In(2)
140	1958.98	121.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29189 **DST#: 1**

Test Start: 2007.08.24 @ 21:03:03

Tool Information

Drill Pipe:	Length:	4030.00 ft	Diameter:	3.80 inches	Volume:	56.53 bbl	Tool Weight:	25000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	2200.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	56.68 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	46000.00 lb
Depth to Top Packer:		4063.00 ft					Final	46000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		52.02 ft						
Tool Length:		73.02 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			4043.00		
Shut In Tool	5.00			4048.00		
Hydraulic tool	5.00			4053.00		
Packer	5.00			4058.00	21.00	Bottom Of Top Packer
Packer	5.00			4063.00		
Stubb	1.00			4064.00		
Perforations	1.00			4065.00		
Recorder	0.01	6753	Inside	4065.01		
Blank Spacing	33.00			4098.01		
Recorder	0.01	13534	Outside	4098.02		
Perforations	14.00			4112.02		
Bullnose	3.00			4115.02	52.02	Bottom Packers & Anchor
Total Tool Length:	**73.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29189 **DST#: 1**

Test Start: 2007.08.24 @ 21:03:03

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.94 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

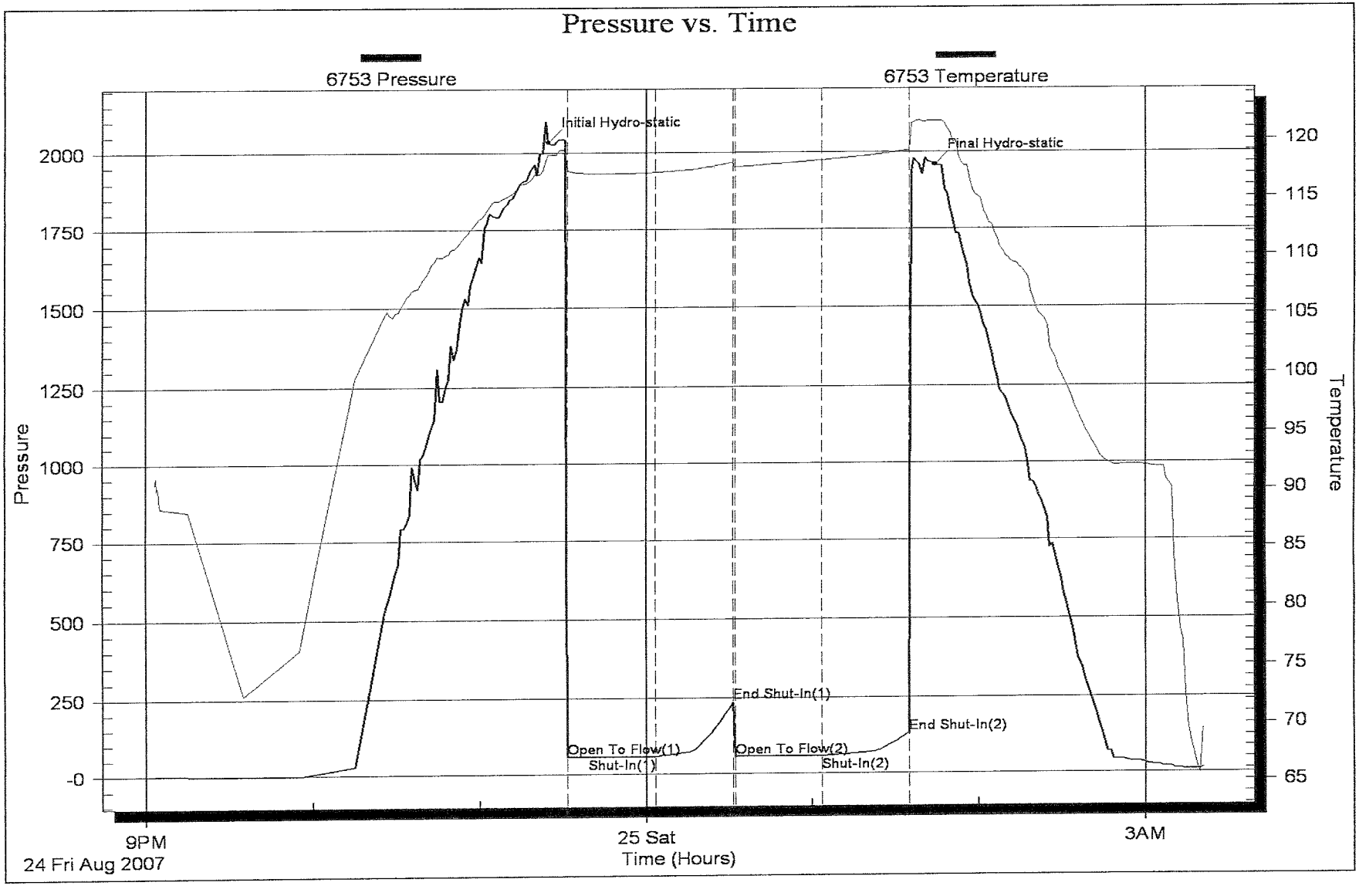
Length ft	Description	Volume bbl
5.00	Mud	0.025

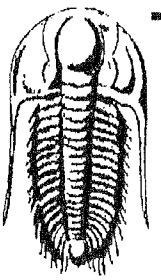
Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6753 Pressure
6753 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
-0
120
115
110
105
100
95
90
85
80
75
70
65
9PM
24 Fri Aug 2007
25 Sat
Time (Hours)
3AM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

28 13 21W Trego KS

Jackie #1-28

Start Date: 2007.08.25 @ 08:42:01
End Date: 2007.08.25 @ 15:05:25
Job Ticket #: 29190 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29190 **DST#: 2**

Test Start: 2007.08.25 @ 08:42:01

GENERAL INFORMATION:

Formation: **Cher Sd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:36:56
Time Test Ended: 15:05:25

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

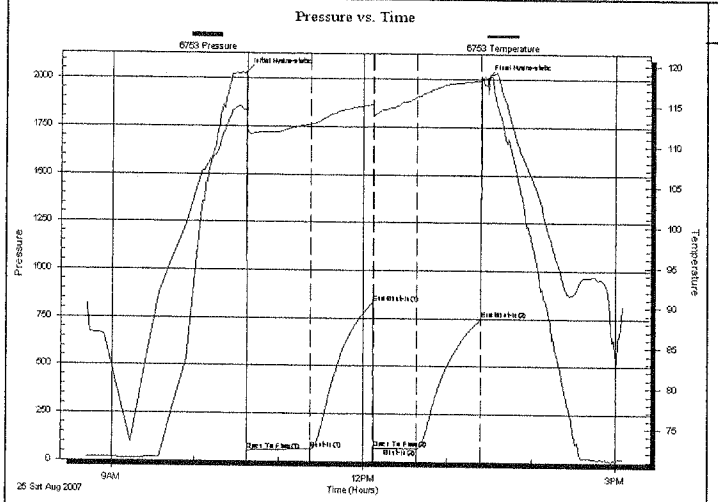
Interval: 4062.00 ft (KB) To 4127.00 ft (KB) (TVD)
Total Depth: 4127.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2343.00 ft (KB)
2335.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**
Press@RunDepth: 67.60 psig @ 4067.01 ft (KB)
Start Date: 2007.08.25 End Date: 2007.08.25
Start Time: 08:42:01 End Time: 15:05:25

Capacity: 7000.00 psig
Last Calib.: 2007.08.25
Time On Btm: 2007.08.25 @ 10:36:26
Time Off Btm: 2007.08.25 @ 13:28:25

TEST COMMENT: IFP Wk bl thru-out 1/4 " to 1 " bl
FFP No bl
Times 45 45 30 45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.98	114.32	Initial Hydro-static
1	56.87	111.81	Open To Flow (1)
46	63.57	112.67	Shut-In(1)
91	831.93	115.13	End Shut-In(1)
92	67.71	113.74	Open To Flow (2)
122	67.60	116.11	Shut-In(2)
168	747.73	118.11	End Shut-In(2)
172	2005.26	117.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	M	0.22

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29190 **DST#: 2**

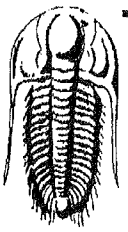
Test Start: 2007.08.25 @ 08:42:01

Tool Information

Drill Pipe:	Length:	4031.00 ft	Diameter:	3.80 inches	Volume:	56.54 bbl	Tool Weight:	25000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	2200.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	56.69 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight: Initial	47000.00 lb
Depth to Top Packer:		4062.00 ft					Final	47000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		65.02 ft						
Tool Length:		86.02 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			4042.00		
Shut In Tool	5.00			4047.00		
Hydraulic tool	5.00			4052.00		
Packer	5.00			4057.00	21.00	Bottom Of Top Packer
Packer	5.00			4062.00		
Stubb	1.00			4063.00		
Perforations	4.00			4067.00		
Recorder	0.01	6753	Inside	4067.01		
Blank Spacing	33.00			4100.01		
Recorder	0.01	13534	Outside	4100.02		
Perforations	24.00			4124.02		
Bullnose	3.00			4127.02	65.02	Bottom Packers & Anchor
Total Tool Length:	**86.02**					



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29190 **DST#: 2**

Test Start: 2007.08.25 @ 08:42:01

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.93 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

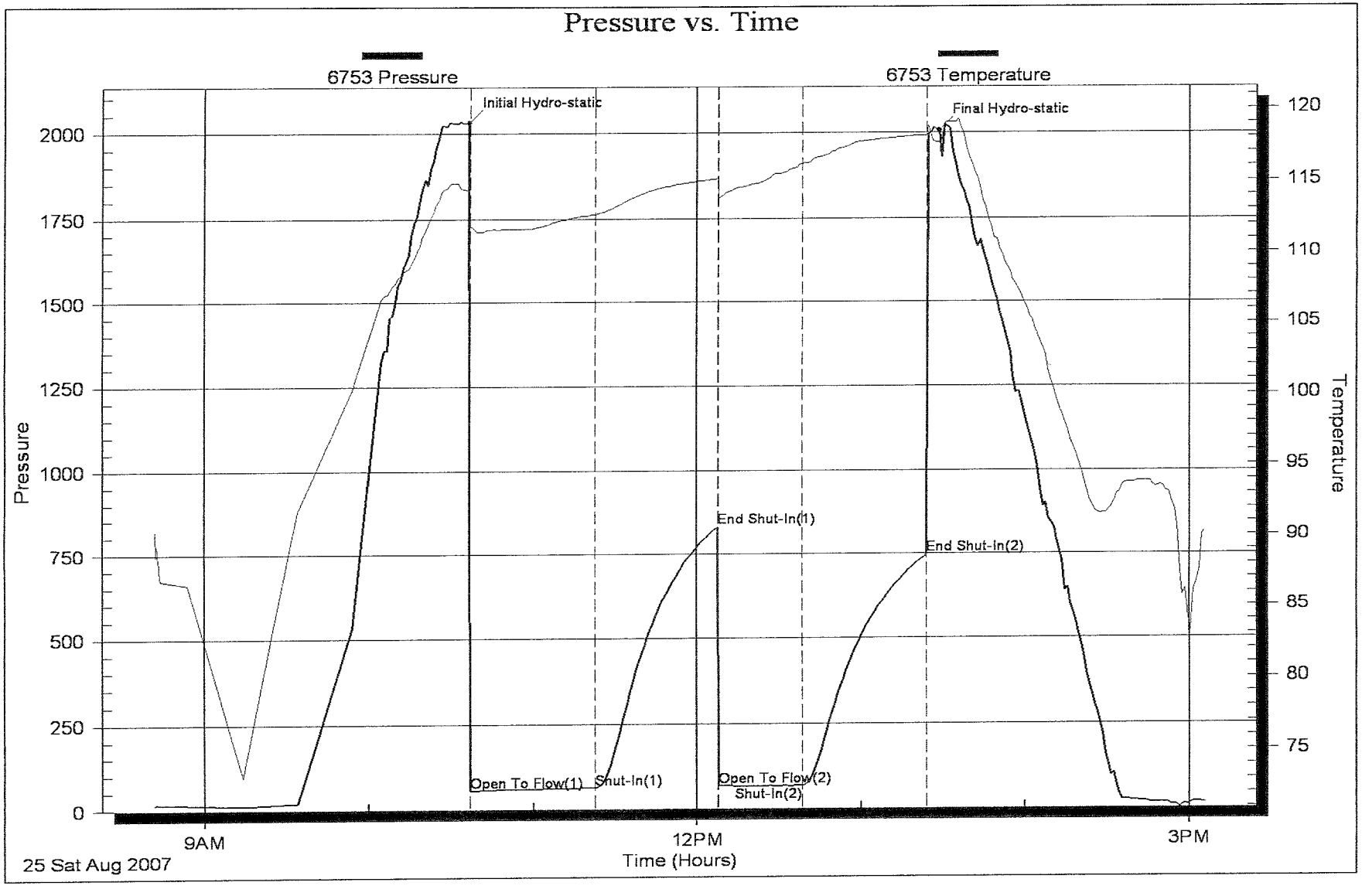
Length ft	Description	Volume bbl
35.00	M	0.218

Total Length: 35.00 ft Total Volume: 0.218 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6753 Pressure
6753 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
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90
85
80
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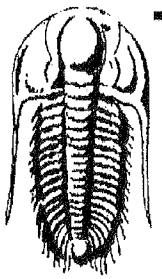
9AM
12PM
3PM
25 Sat Aug 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

28 13 21W Trego KS

Jackie #1-28

Start Date: 2007.08.25 @ 20:32:05
End Date: 2007.08.26 @ 01:28:29
Job Ticket #: 29191 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29191 **DST#: 3**

Test Start: 2007.08.25 @ 20:32:05

GENERAL INFORMATION:

Formation: **Cher-Congl**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:26:30
Time Test Ended: 01:28:29

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

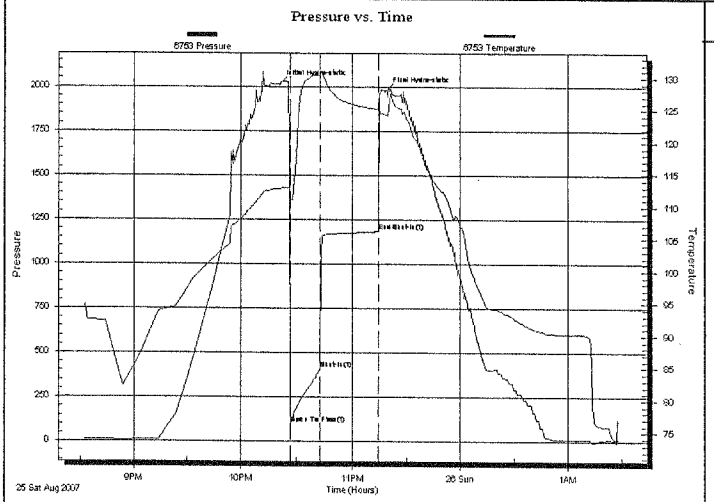
Interval: 4060.00 ft (KB) To 4138.00 ft (KB) (TVD)
Total Depth: 4138.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2343.00 ft (KB)
2335.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**
Press@RunDepth: 407.01 psig @ 4066.01 ft (KB)
Start Date: 2007.08.25 End Date: 2007.08.26
Start Time: 20:32:05 End Time: 01:28:29

Capacity: 7000.00 psig
Last Calib.: 2007.08.26
Time On Btm: 2007.08.25 @ 22:21:00
Time Off Btm: 2007.08.25 @ 23:18:30

TEST COMMENT: IFP Strg bl in 2 min
Times 15 30
No bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2014.08	112.89	Initial Hydro-static
6	99.86	110.95	Open To Flow (1)
22	407.01	130.41	Shut-In(1)
54	1181.77	125.17	End Shut-In(1)
58	1975.27	124.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
840.00	Water RW .3 @74F	11.51

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29191 **DST#: 3**

Test Start: 2007.08.25 @ 20:32:05

Tool Information

Drill Pipe:	Length:	4030.00 ft	Diameter:	3.80 inches	Volume:	56.53 bbl	Tool Weight:		25000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		2200.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	56.68 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight:	Initial	47000.00 lb
Depth to Top Packer:		4060.00 ft						Final	49000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		78.02 ft							
Tool Length:		99.02 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			4040.00		
Shut In Tool	5.00			4045.00		
Hydraulic tool	5.00			4050.00		
Packer	5.00			4055.00	21.00	Bottom Of Top Packer
Packer	5.00			4060.00		
Stubb	1.00			4061.00		
Perforations	5.00			4066.00		
Recorder	0.01	6753	Inside	4066.01		
Perforations	5.00			4071.01		
Recorder	0.01	13534	Outside	4071.02		
Blank Spacing	64.00			4135.02		
Bullnose	3.00			4138.02	78.02	Bottom Packers & Anchor
Total Tool Length:	**99.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Jackie #1-28

28 13 21W Trego KS

Job Ticket: 29191 **DST#: 3**

Test Start: 2007.08.25 @ 20:32:05

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:	23000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.92 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

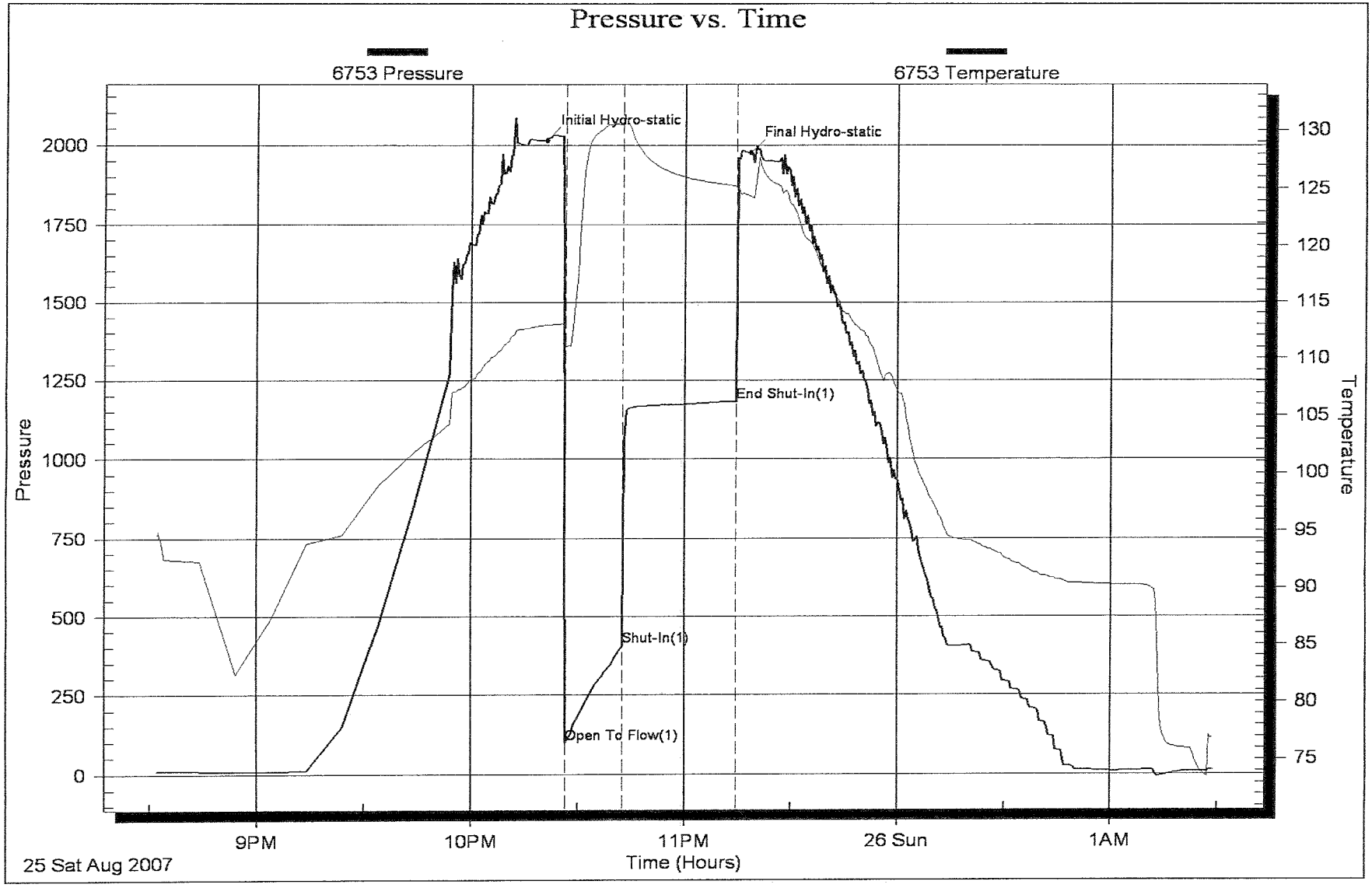
Length ft	Description	Volume bbl
840.00	Water RW .3 @74F	11.510

Total Length: 840.00 ft Total Volume: 11.510 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6753 Pressure
6753 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(1)
Open To Flow(1)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
130
125
120
115
110
105
100
95
90
85
80
75
9PM
10PM
11PM
26 Sun
1AM
25 Sat Aug 2007
Time (Hours)