

15-051-25605



## DRILL STEM TEST REPORT

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

PO Box 372  
Hays KS 67601

ATTN: Ron Nelson

**10 14S 16W Ellis KS**

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### Glick #1-10

Start Date: 2007.01.18 @ 12:57:02

End Date: 2007.01.18 @ 18:37:26

Job Ticket #: 25270                      DST #: 1

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



**TRILOBITE  
TESTING, INC**

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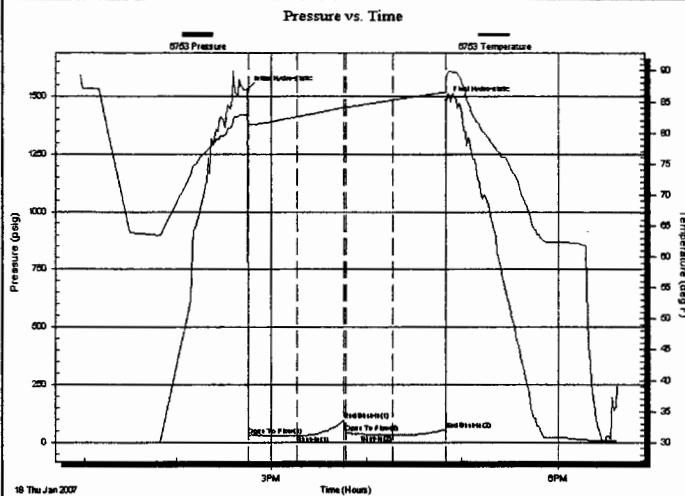
Test Start: 2007.01.18 @ 12:57:02

## GENERAL INFORMATION:

Formation: **LKC A-C**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 14:45:57  
 Time Test Ended: 18:37:26  
 Interval: **3145.00 ft (KB) To 3222.00 ft (KB) (TVD)**  
 Total Depth: **3222.00 ft (KB) (TVD)**  
 Hole Diameter: **7.85 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Ray Schwager  
 Unit No: 28  
 Reference Elevations: 1921.00 ft (KB)  
 1916.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6753**      **Inside**  
 Press@RunDepth: 32.74 psig @ 3155.02 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2007.01.18      End Date: 2007.01.18      Last Calib.: 2007.01.18  
 Start Time: 12:57:02      End Time: 18:37:26      Time On Btm: 2007.01.18 @ 14:45:27  
 Time Off Btm: 2007.01.18 @ 16:49:57

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	1526.95	82.93	Initial Hydro-static
1	30.42	81.42	Open To Flow (1)
31	31.29	82.56	Shut-In(1)
61	97.23	84.11	End Shut-In(1)
62	44.24	84.05	Open To Flow (2)
92	32.74	85.27	Shut-In(2)
124	56.41	86.57	End Shut-In(2)
125	1482.39	88.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 2%O 98%M	0.14

## Gas Rates

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



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**TOOL DIAGRAM**

Downing-Nelson Oil Co Inc

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Job Ticket: 25270

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2007.01.18 @ 12:57:02

### Tool Information

Drill Pipe:	Length: 3130.00 ft	Diameter: 3.80 inches	Volume: 43.91 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
		<b>Total Volume:</b>	<b>43.91 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 31000.00 lb
Depth to Top Packer:	3145.00 ft			Final 31000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.02 ft			
Tool Length:	98.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3125.00	
Shut In Tool	5.00			3130.00	
Hydraulic tool	5.00			3135.00	
Packer	5.00			3140.00	21.00 Bottom Of Top Packer
Packer	5.00			3145.00	
Stubb	1.00			3146.00	
Perforations	5.00			3151.00	
Recorder	0.01	13534	Outside	3151.01	
Perforations	4.00			3155.01	
Recorder	0.01	6753	Inside	3155.02	
Blank Spacing	64.00			3219.02	
Bullnose	3.00			3222.02	77.02 Bottom Packers & Anchor

**Total Tool Length: 98.02**



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**FLUID SUMMARY**

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Test Start: 2007.01.18 @ 12:57:02

**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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 2%O 98%M	0.140

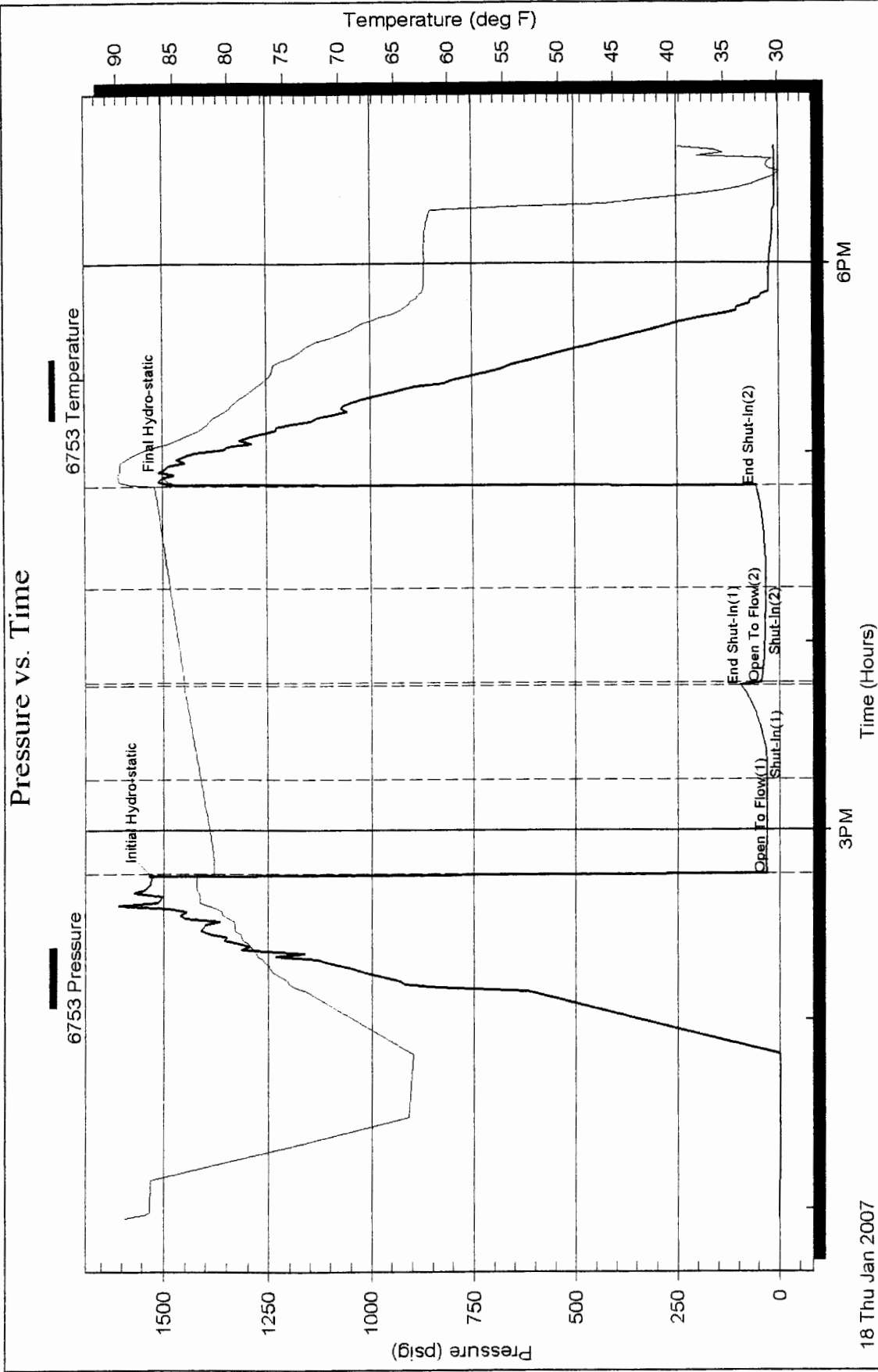
Total Length: 10.00 ft      Total Volume: 0.140 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



18 Thu Jan 2007

3PM

Time (Hours)

6PM