

22-16-42w

Northern Lights Oil Company LC

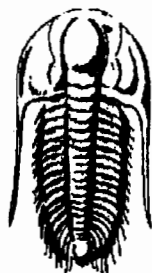
Cattle Co. #1

22-16S-42W Greeley

DST # 1

Upper Morrow

2004.08.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Company LC**

P. O. Box 164
Andover KS. 67002

ATTN: Kurt Smith

22-16S-42W Greeley

Cattle Co. #1

Start Date: 2004.08.04 @ 15:32:22

End Date: 2004.08.04 @ 22:16:07

Job Ticket #: 19050 DST #: 1

RELEASED
FROM
CONFIDENTIAL

**KCC
OCT 12 2004
CONFIDENTIAL**

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

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Northern Lights Oil Company LC

Cattle Co. #1

P. O. Box 164
Andover KS. 67002

22-16S-42W Greeley

Job Ticket: 19050 DST#: 1

ATTN: Kurt Smith

Test Start: 2004.08.04 @ 15:32:22

GENERAL INFORMATION:

Formation: **Upper Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:13:07

Time Test Ended: 22:16:07

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4958.00 ft (KB) To 4988.00 ft (KB) (TVD)**

Reference Elevations: 2818.00 ft (KB)

Total Depth: 4988.00 ft (KB) (TVD)

2808.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6798 Inside

Press@RunDepth: 225.73 psig @ 4959.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.08.04

End Date: 2004.08.04

Last Calib.: 1899.12.30

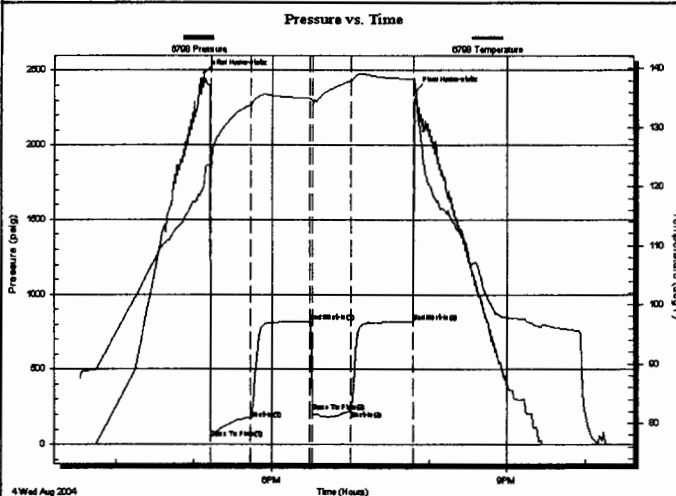
Start Time: 15:32:24

End Time: 22:16:07

Time On Btrt: 2004.08.04 @ 17:07:07

Time Off Btrt: 2004.08.04 @ 19:49:52

TEST COMMENT: F; Fair to strong off btm in 4 mins
IS; Weak to fair off btm in 20 mins
FF; Fair to strong off btm in 2 mins
FS; GTS w hile bleeding off (Does burn)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2478.32	119.96	Initial Hydro-static
6	42.56	122.56	Open To Flow (1)
37	166.92	133.89	Shut-In(1)
82	818.86	134.91	End Shut-In(1)
84	217.29	133.97	Open To Flow (2)
113	225.73	137.88	Shut-In(2)
160	817.56	138.23	End Shut-In(2)
163	2367.78	134.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
270.00	GOCM 25%g 20%o 55%m	1.33
90.00	CGO 15%g 85%o	0.44
360.00	GSOWCM 30%g 5%o 10%w 55%m	3.06
	GTS on Final Shut-in	

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Northern Lights Oil Company LC

Cattle Co. #1

P. O. Box 164
Andover KS. 67002

22-16S-42W Greeley

Job Ticket: 19050

DST#: 1

ATTN: Kurt Smith

Test Start: 2004.08.04 @ 15:32:22

Tool Information

Drill Pipe:	Length: 4358.00 ft	Diameter: 3.80 inches	Volume: 61.13 bbl	Tool Weight: 2000.00 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 63.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4958.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4937.00	
Hydraulic tool	5.00			4942.00	
Jars	5.00			4947.00	
Safety Joint	2.00			4949.00	
Packer	5.00			4954.00	26.00 Bottom Of Top Packer
Packer	4.00			4958.00	
Stubb	1.00			4959.00	
Recorder	0.00	6798	Inside	4959.00	
Perforations	24.00			4983.00	
Recorder	0.00	13276	Outside	4983.00	
Bullnose	5.00			4988.00	30.00 Bottom Packers & Anchor

Total Tool Length: 56.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Northern Lights Oil Company LC

Cattle Co. #1

P. O. Box 164
Andover KS. 67002

22-16S-42W Greeley

Job Ticket: 19050

DST#: 1

ATTN: Kurt Smith

Test Start: 2004.08.04 @ 15:32:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
270.00	GOCM 25%g 20%o 55%m	1.328
90.00	CGO 15%g 85%o	0.443
360.00	GSONCM 30%g 5%o 10%w 55%m	3.064
	GTS on Final Shut-in	

Total Length: -999279.00 ft

Total Volume:

4.835 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

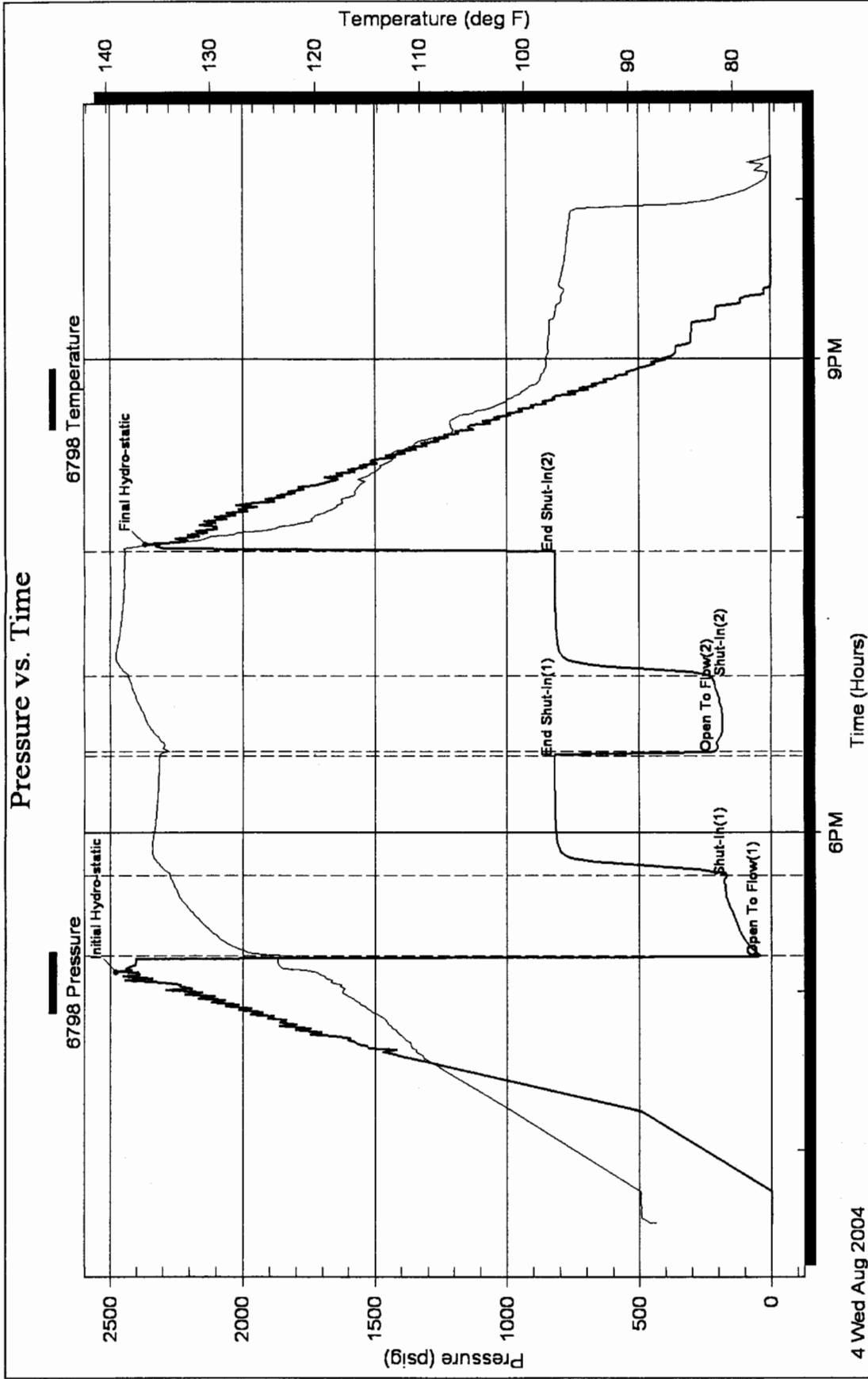
Serial #: 6798

Inside

Northern Lights Oil Company LC

22-16S-42W/Greeley

DST Test Number: 1



4 Wed Aug 2004

Triobite Testing, Inc

Ref. No: 19050

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