

DRILL STEM TEST REPORT

Prepared For: **Northern Lights Oil Co.**

P.O. Box 164
Andover, KS 67002

ATTN: Kurt

11/17/23

Sargent 1

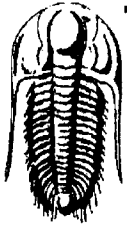
Start Date: 2005.02.17 @ 17:32:46

End Date: 2005.02.18 @ 01:07:16

Job Ticket #: 20553 DST #: 1

11 - 117 - R23

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Northern Lights Oil Co.

Sargent 1

P.O. Box 164
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11/17/23

ATTN: Kurt

Job Ticket: 20553

DST#: 1

Test Start: 2005.02.17 @ 17:32:46

GENERAL INFORMATION:

Formation: **Cher Sand**

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

Time Tool Opened: 19:42:46

Time Test Ended: 01:07:16

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 20

Interval: **4340.00 ft (KB) To 4423.00 ft (KB) (TVD)**

Total Depth: 4423.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 2455.00 ft (KB)

2450.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press@RunDepth: 61.82 psig @ 4407.00 ft (KB)

Start Date: 2005.02.17

End Date:

2005.02.18

Start Time: 17:32:46

End Time:

01:07:16

Capacity: 7000.00 psig

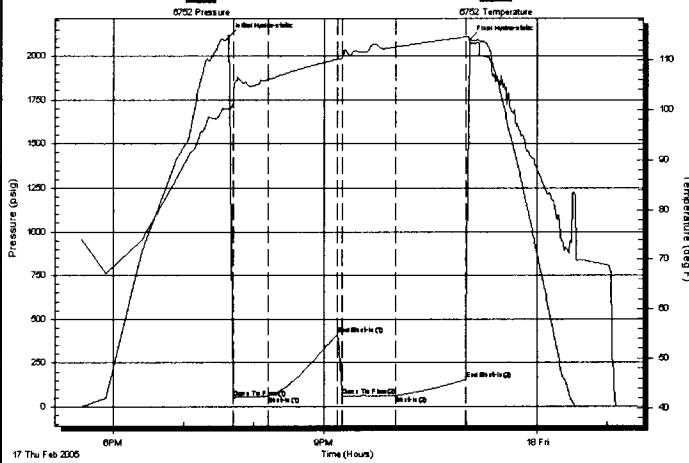
Last Calib.: 1899.12.30

Time On Btm: 2005.02.17 @ 19:38:46

Time Off Btm: 2005.02.17 @ 23:02:46

TEST COMMENT: F-Weak blow . Built to 1 inch. Steadily dying.
IS- No blow back
FF-Weak surface blow . Died in 10 minutes.
FS- No blow back.

Pressure vs. Time



PRESSURE SUMMARY

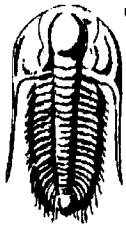
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.42	100.19	Initial Hydro-static
4	52.14	103.32	Open To Flow (1)
34	61.13	106.05	Shut-In(1)
93	413.22	110.19	End Shut-In(1)
97	59.31	110.69	Open To Flow (2)
142	61.82	112.63	Shut-In(2)
201	155.19	114.65	End Shut-In(2)
204	2091.25	114.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100% mud	0.15

Gas Rates

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



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TOOL DIAGRAM

Northern Lights Oil Co.

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11/17/23

Job Ticket: 20553

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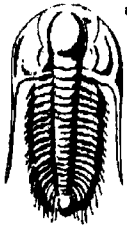
Test Start: 2005.02.17 @ 17:32:46

Tool Information

Drill Pipe:	Length: 4078.00 ft	Diameter: 3.80 inches	Volume: 57.20 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: 20000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4340.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			4314.00	
Shut In Tool	5.00			4319.00	
Hydraulic tool	5.00			4324.00	
Jars	5.00			4329.00	
Safety Joint	2.00			4331.00	
Packer	5.00			4336.00	27.00 Bottom Of Top Packer
Packer	4.00			4340.00	
Stubb	1.00			4341.00	
Change Over Sub	1.00			4342.00	
Drill Pipe	63.00			4405.00	
Change Over Sub	1.00			4406.00	
Perforations	1.00			4407.00	
Recorder	0.00	6752	Inside	4407.00	
Perforations	13.00			4420.00	
Recorder	0.00	13630	Inside	4420.00	
Bullnose	3.00			4423.00	83.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



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FLUID SUMMARY

Northern Lights Oil Co.

Sargent 1

P.O. Box 164
Andover, KS 67002

11/17/23

Job Ticket: 20553

DST#: 1

ATTN: Kurt

Test Start: 2005.02.17 @ 17:32:46

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:	3700 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100% mud	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW=1.472@ 79F=3700

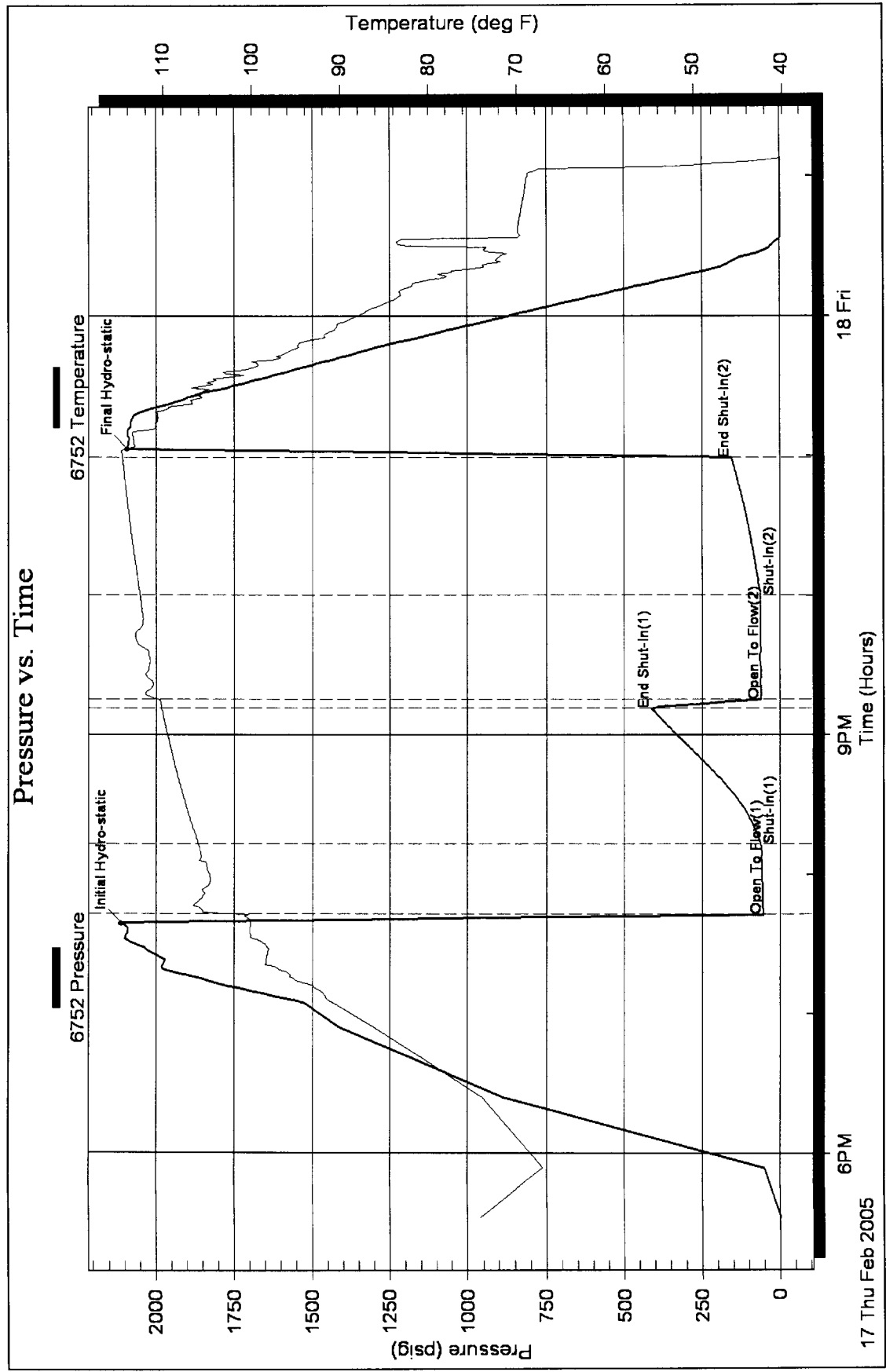
Serial #: 6752

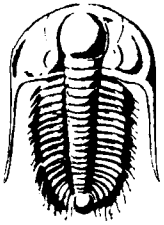
Inside

Northern Lights Oil Co.

11/17/23

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV
7223

X

No 20553

05/03

Test Ticket

Well Name & No. Sargent - 1 Test No. _____ Date 2-17-05
 Company Northern Lights Oil Co. Zone Tested Chel Sand
 Address P.O. Box 164 Andover, KS 67002 Elevation 2455 KB 2450 GL _____
 Co. Rep / Geo. Kurt Cont. _____ Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 11 Twp. 17 Rge. 23 Co. Ness State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4340 - 4423 Initial Str Wt./Lbs. 57K Unseated Str Wt./Lbs. 57K
 Anchor Length 83' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 80K
 Top Packer Depth 4335 Tool Weight 2000
 Bottom Packer Depth 4340 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4423 Wt. Pipe Run N/A Drill Collar Run 246
 Mud Wt. 9.3 LCM 8#2 Vis. 52 WL 11 Drill Pipe Size 4 1/2 XH Ft. Run 4078
 Blow Description IF - Weak Blow - Built to lunch, Steadily Dying,
ISI - No Blow Back
FF - Weak surface blow Died in 10 min.
FSI - No Blow back.

Recovery - Total Feet 30 GIP _____ Ft. in DC 30 Ft. in DP _____
 Rec. 30 Feet of Mud %gas _____ %oil _____ %water 100 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 115 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 1.472 @ 79 °F Chlorides 3700 ppm Recovery _____ Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2110	PSI	Recorder No.	6752 (5:30)	Test	Conventional
(B) First Initial Flow Pressure			52	PSI	(depth)	4407	Elec. Rec.	<input checked="" type="checkbox"/>
(C) First Final Flow Pressure			61	PSI	Recorder No.	13630	Jars	<input checked="" type="checkbox"/> 200
(D) Initial Shut-In Pressure			413	PSI	(depth)	4420	Safety Jt.	<input checked="" type="checkbox"/> 50
(E) Second Initial Flow Pressure			59	PSI	Recorder No.		Circ Sub	
(F) Second Final Flow Pressure			62	PSI	(depth)		Sampler	
(G) Final Shut-In Pressure			155	PSI	Initial Opening	30	Straddle	
(Q) Final Hydrostatic Mud			2091	PSI	Initial Shut-In	60	Ext. Packer	
					Final Flow	45	Shale Packer	
					Final Shut-In	60	Mileage	<input checked="" type="checkbox"/> X 140 140
					T-On Location	1600	Sub Total:	1390. 95
					T-Started	1730	Std. By	x1.0
					T-Open	1945	Other	
					T-Pulled	2300	Total:	1420
					T-Out	0100		

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Approved By _____
 Our Representative Dustin Roth/Chris

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

