

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53401

4/10

Well Name & No. Group # 1 Test No. 1 Date 7-12-13
 Company Northern Lights Oil Co LLC Elevation 2252 KB 2247 GL
 Address PO Box 164 Anderson MO 67002
 Co. Rep / Geo. Jeff Chubberson Rig Mullard 1
 Location: Sec. 20 Twp. 5 Rge. 23w Co. Norton State Ks

Interval Tested 3521 3550 Zone Tested LKC H
 Anchor Length 29 Drill Pipe Run 3226 Mud Wt. 9.1
 Top Packer Depth 3516 Drill Collars Run 298 Vis 55
 Bottom Packer Depth 3521 Wt. Pipe Run 0 WL 6.4
 Total Depth 3550 Chlorides 500 ppm System LCM 1
 Blow Description 1st Pull to 3"
Blow No Blow
1st Pull to 2"
Blow No Blow

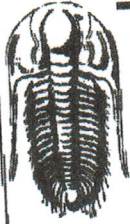
Rec	Feet of	%gas	%oil	%water	%mud
<u>8</u>	<u>MCO</u>	<u>65</u>		<u>35</u>	
<u>120</u>	<u>MW</u>		<u>70</u>	<u>30</u>	

Rec Total 128 BHT 106 Gravity _____ API RW 180 @ 102 ° F Chlorides 4000 ppm

(A) Initial Hydrostatic 1723 Test _____ T-On Location 11:45
 (B) First Initial Flow 12 Jars _____ T-Started 3:00
 (C) First Final Flow 41 Safety Joint _____ T-Open 15:00
 (D) Initial Shut-In 1212 Circ Sub NA T-Pulled 18:00
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 19:55
 (F) Second Final Flow 77 Mileage 100 RT Comments _____
 (G) Final Shut-In 1164 Sampler _____
 (H) Final Hydrostatic 1718 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Accessibility _____
 Sub Total _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Northern Lights Oil Co. LLC

20-5s-23w

PO Box 164
Andover KS 67002

Goings #1

Job Ticket: 53401

DST#: 1

ATTN: Jieff Christenson

Test Start: 2013.07.12 @ 13:00:00

GENERAL INFORMATION:

Formation: Lan H
Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 15:01:00

Tester: Wilbur Steinbeck

Time Test Ended: 19:53:45

Unit No: 44

Interval: 3521.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations: 2252.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Outside

Press@RunDepth: 76.81 psig @ 3522.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.12

End Date:

2013.07.12

Last Calib.: 2013.07.12

Start Time: 13:00:00

End Time:

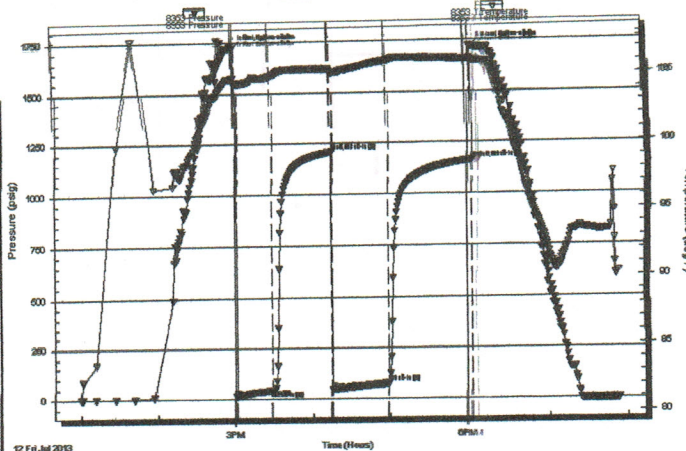
19:53:45

Time On Btm: 2013.07.12 @ 15:00:30

Time Off Btm: 2013.07.12 @ 18:05:00

TEST COMMENT: 30 IF; Built to 3"
45 IS; No Blow
45 FF; Built to 2"
60 FS; No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.30	104.82	Initial Hydro-static
1	11.67	104.30	Open To Flow (1)
28	40.58	104.95	Shut-in(1)
74	1211.93	105.49	End Shut-in(1)
75	45.83	105.27	Open To Flow (2)
118	76.81	106.07	Shut-in(2)
183	1163.65	106.14	End Shut-in(2)
185	1717.64	106.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 30%M 70%W	0.59
8.00	MCO 35%M 65%O	0.04

Gas Rates

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

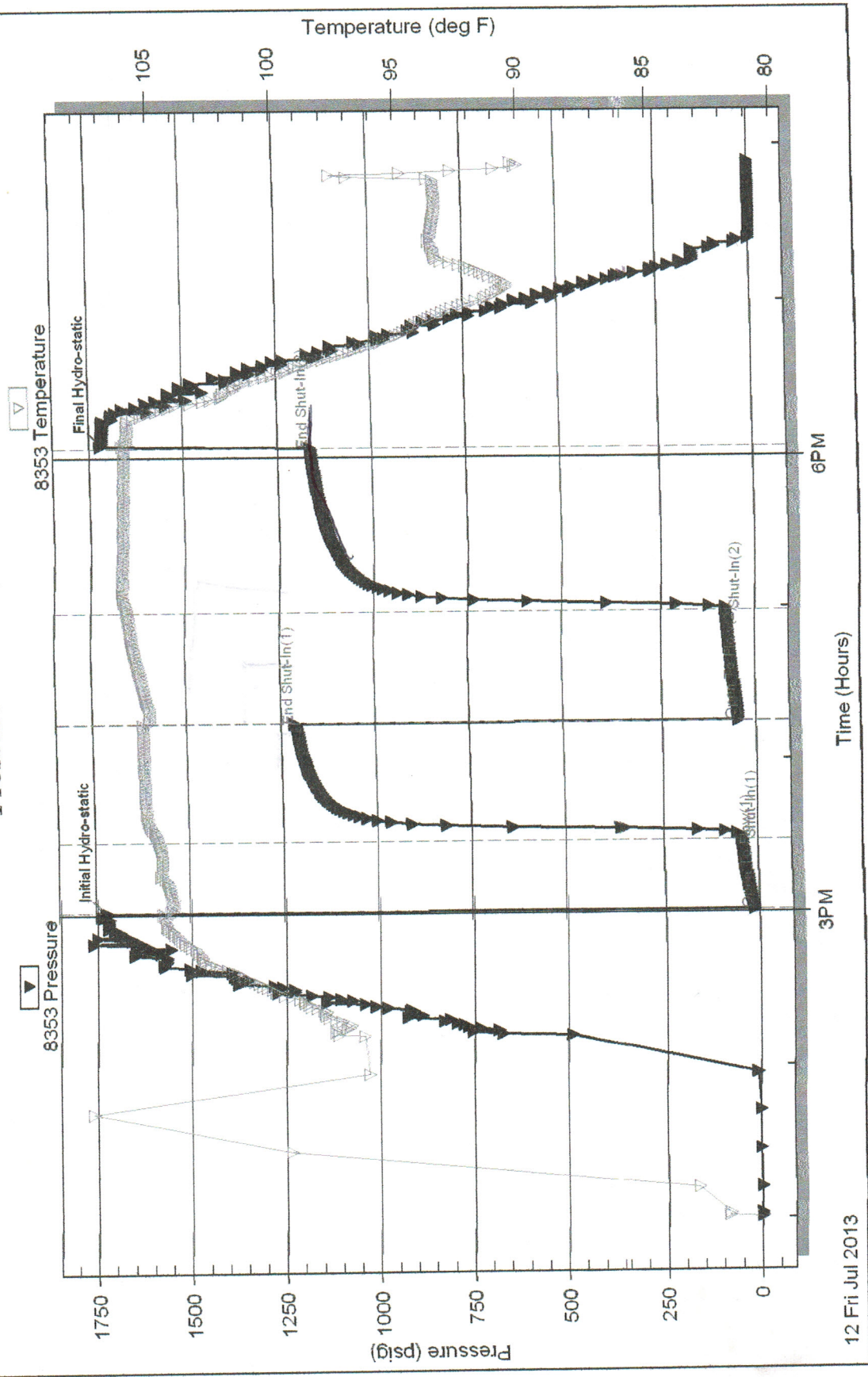
DST Test Number: 1

Golgs #1

Outside Northern Lights Oil Co. LLC

Serial #: 8353

Pressure vs. Time



12 Fri Jul 2013

Printed: 2013.07.12 @ 20:10:58

Ref. No: 53401

Trilobite Testing, Inc