

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53402

4/10

Well Name & No. Goings #1 Test No. 2 Date 7-13-13
 Company Northern Lights Oil Co. LLC Elevation 2252 KB 2247 GL
 Address PO Box 164 Andover Ks 67002
 Co. Rep / Geo. Jeff Christenson Rig Mallard 1
 Location: Sec. 20 Twp. 5s Rge. 23w Co. Norton State Ks

Interval Tested 3549 3580 Zone Tested Lan J
 Anchor Length 31 Drill Pipe Run 3235 Mud Wt. 91
 Top Packer Depth 3544 Drill Collars Run 298 Vis 56
 Bottom Packer Depth 3549 Wt. Pipe Run 0 WL 6.4
 Total Depth 3580 Chlorides 700 ppm System LCM 1

Blow Description 1F; No Blow
1S1; No Blow
FF; No Blow
FSL; No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
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

Rec Total 5 BHT 104° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1743 Test _____ T-On Location 4:20
 (B) First Initial Flow 12 Jars _____ T-Started 4:31
 (C) First Final Flow 18 Safety Joint _____ T-Open 7:00
 (D) Initial Shut-In 60 Circ Sub NA T-Pulled 9:00
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 10:38
 (F) Second Final Flow 21 Mileage 100 RT Comments _____
 (G) Final Shut-In 50 Sampler _____
 (H) Final Hydrostatic 1714 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total _____
 Day Standby _____ Total _____
 Accessibility _____ MP/DST Disc't _____
 Sub Total _____

Approved By _____ Our Representative Wilbur Storkel

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

20-5a-23w

PO Box 1664
Andover Ks 67002

Goings #1

Job Ticket: 53402

DST#: 2

ATTN: Jeff Christenson

Test Start: 2013.07.13 @ 04:31:00

GENERAL INFORMATION:

Formation: **Lan J**

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

Time Tool Opened: 06:59:30

Time Test Ended: 10:37:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Wilbur Steinbeck**

Unit No: **44**

Interval: **3549.00 ft (KB) To 3580.00 ft (KB) (TVD)**

Total Depth: **3580.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **IFair**

Reference Elevations: **2252.00 ft (KB)**

2247.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8353

Outside

Press@RunDepth: **21.13 psig @ 3550.00 ft (KB)**

Start Date: **2013.07.13**

End Date:

2013.07.13

Capacity: **8000.00 psig**

Last Calib.: **2013.07.13**

Start Time: **04:31:00**

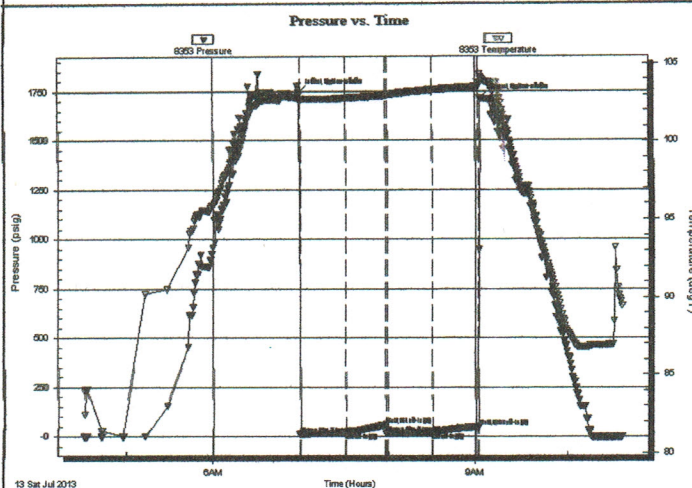
End Time:

10:37:30

Time On Btm: **2013.07.13 @ 06:59:00**

Time Off Btm: **2013.07.13 @ 09:03:30**

TEST COMMENT: 30 IF: No Blow
30 IS: No Blow
30 FF: No Blow
30 FS: No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.75	103.03	Initial Hydro-static
1	11.71	102.58	Open To Flow (1)
32	18.38	102.80	Shut-in(1)
59	60.45	102.97	End Shut-in(1)
60	15.41	103.01	Open To Flow (2)
92	21.13	103.33	Shut-in(2)
123	50.13	103.50	End Shut-in(2)
125	1714.23	104.13	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

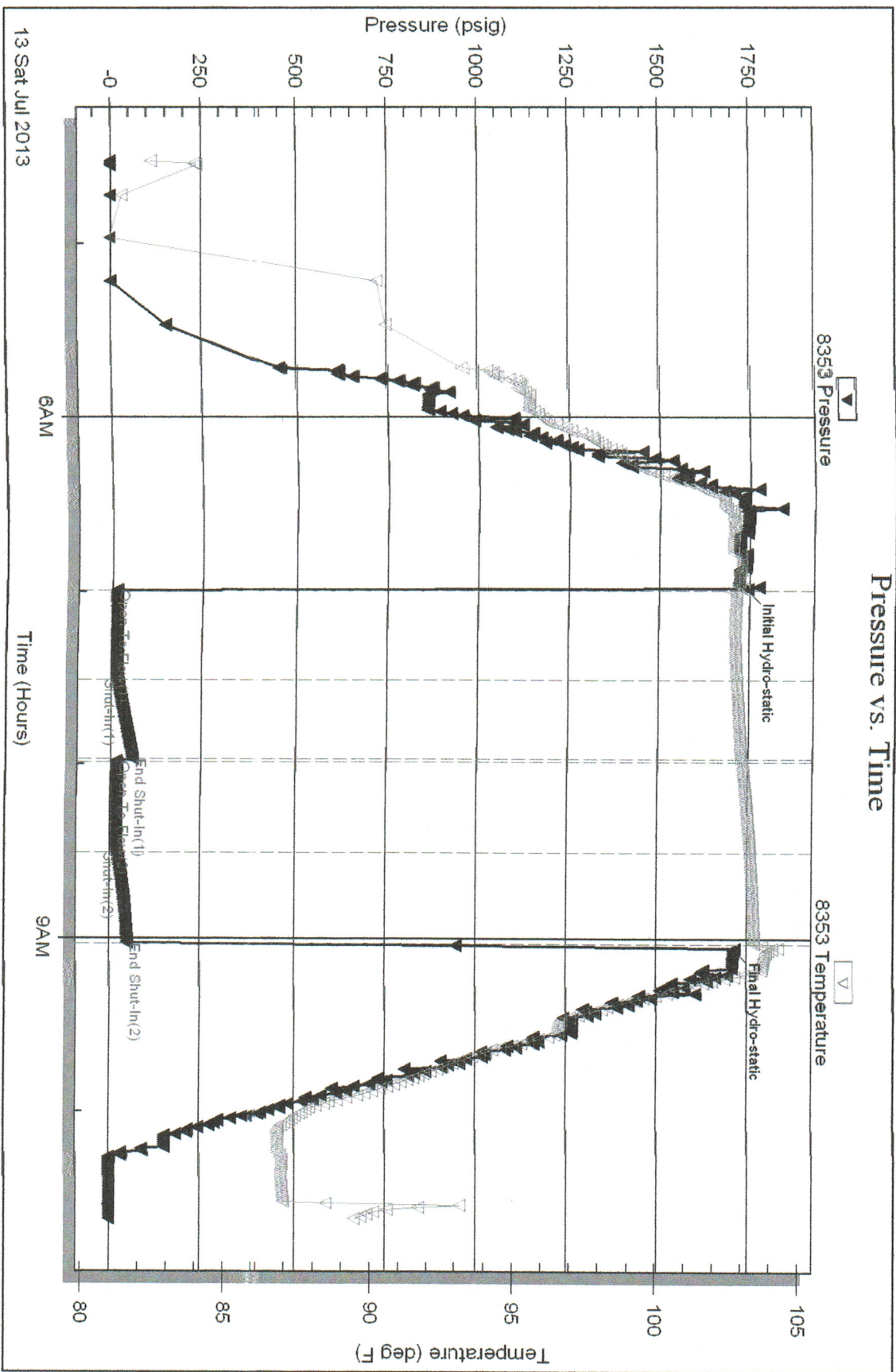
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8353

Outside Northern Lights Oil Co. LLC

Gauges #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53402

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