

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

12/15/12

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 5474  
Name: Northern Lights Oil Co., L.C.  
Address 1: P.O. Box 164  
Address 2: \_\_\_\_\_  
City: Andover State: KS Zip: 67002 +  
Contact Person: Robert Sutherland  
Phone: (316) 305-0493  
CONTRACTOR: License # 4958  
Name: Mallard JV, Inc.  
Wellsite Geologist: Jeff Christian  
Purchaser: None

**KCC**  
**DEC 15 2010**  
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Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

8/19/10    8/26/10    8/26/10  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date  
*per oper*

API No. 15 - 165-21896-6000  
Spot Description: 1810 South, 1093 West, from NE corner  
NW SE NE Sec. 15 Twp. 17 S. R. 20  East  West  
1,810 Feet from  North /  South Line of Section  
1,093 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Rush  
Lease Name: Nathalie Well # 1  
Field Name: None  
Producing Formation: None  
Elevation: Ground: 2104 Kelly Bushing: 2109  
Total Depth: 4020 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 214 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

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**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 3000 ppm Fluid volume: 2500 bbls  
Dewatering method used: Evaporate and backfill

Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]  
Title: Manager Date: 12/15/10

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: 12/15/10 - 12/15/12  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: Northern Lights Oil Co., L.C.

Lease Name: Nathalie

Well #: 1 DEC 15 2010

Sec. 15 Twp. 17 S. R. 20  East  West

County: Rush

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INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1345	+764
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3481	-1372
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lansing	3526	-1417

List All E. Logs Run:  
**Guard**

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20	214'	Class A	150	3% cc 2%gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 036811

**CONFIDENTIAL**

PERMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend

DATE <u>8-19-10</u>	SEC. <u>15</u>	TWP. <u>17S</u>	RANGE <u>20W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:20 AM</u>	JOB FINISH <u>8:00 PM</u>
LEASE <u>Nathale</u>	WELL # <u>1</u>	LOCATION <u>McGracken East To</u>		COUNTY <u>Rush</u>	STATE <u>KS</u>		
OLD OR <b>NEW</b> (Circle one)		<u>170 RD 1/2 North West in To</u>					

CONTRACTOR Mallard OWNER Northern Lights

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 214 CEMENT

CASING SIZE 8 3/4 DEPTH 214 AMOUNT ORDERED 150SX Class A

TUBING SIZE DEPTH 3% gel 2% gel

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON @

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15 GEL @

PERFS. CHLORIDE @

DISPLACEMENT 12.50 BBLs ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER Wayne - D

# 181 HELPER Bob - R

BULK TRUCK @

# 344 DRIVER Bill

BULK TRUCK @

# DRIVER @

HANDLING @

MILEAGE @

**REMARKS:**

Pipe on Bottom Bore  
Circulation with Rig mud  
hook up To Cement line  
Mix 150SX Class A 3% gel 2% gel  
Shut Down Release plug  
Displace BBLs fresh water  
Cement circulated Shut in  
wash up Rig Down

TOTAL @

SERVICE @

DEPTH OF JOB 214

PUMP TRUCK CHARGE @

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

@

@

CHARGE TO: Nathale - Light TOTAL @

STREET

CITY STATE ZIP

**PLUG & FLOAT EQUIPMENT**

@

@

@

@

@

TOTAL @

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Kyle Juergensen

SIGNATURE Kyle Juergensen

214

Only 5+50

2405

RECEIVED  
FEB 17 2011  
KCC WICHITA

# ALLIED CEMENTING CO., LLC.

30806

Fede

**CONFIDENTIAL**

PERMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Liberia KS

DATE <u>8.11.15</u>	SEC. <u>15</u>	TWP. <u>17S</u>	RANGE <u>20W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Nathalie</u> WELL# <u>1</u> LOCATION <u>Vec of McCracken</u>						COUNTY <u>Rush</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>			K.S.				

CONTRACTOR Mallard Drilling

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D.

CASING SIZE 8 5/8 DEPTH 214

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT

AMOUNT ORDERED 300sk 60/40

4% gel 1/4# Floceam

**EQUIPMENT**

PUMP TRUCK CEMENTER Kenny

# 366 HELPER Cesar

BULK TRUCK

# DRIVER

BULK TRUCK

# DRIVER

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
<u>Light + Weight + 300</u>	@	<u>14.05</u>	<u>4215.00</u>
<u>Floceam</u>	@	<u>2.50</u>	<u>187.50</u>
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING	@	<u>300</u>	<u>720.00</u>
MILEAGE			<u>1500.00</u>

**REMARKS:**

50sk @ 3990

50sk @ 1410

80sk @ 500

50sk @ 250

20sk @ 60

30sk Rat H.

20sk Mouse H.

THANK YOU!

CHARGE TO: Northern Lights Oil Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

**SERVICE**

DEPTH OF JOB		<u>3990</u>	
PUMP TRUCK CHARGE			<u>1185.00</u>
EXTRA FOOTAGE	@		
MILEAGE	@	<u>50</u>	<u>350.00</u>
MANIFOLD	@		
	@		
	@		

TOTAL \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

N/A

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL 0

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

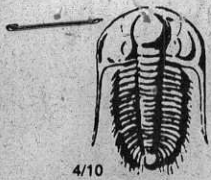
PRINTED NAME Francis Symank

SIGNATURE Francis Symank

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 040334

Well Name & No. Nathalie #1 Test No. 2 Date 8-25-10  
 Company Northern Lights Oil Co. Elevation 2109 KB 2104 GL  
 Address PO Box 164 Andover KS 67002  
 Co. Rep / Geo. Jeff Christian Rig Mallard  
 Location: Sec. 15 Twp. 17S Rge. 20W Co. Rush State KS

Interval Tested 3929 - 3957 Zone Tested Cherokee  
 Anchor Length 28 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 3924 Drill Collars Run 247 Vis 43  
 Bottom Packer Depth 3929 Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth 3957 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_  
 Blow Description JF - BOB in 24 min

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Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>oil spotted vs wcm</u>		<u>10</u>	<u>90</u>	
<u>120</u>	<u>wcm</u>		<u>30</u>	<u>70</u>	
<u>240</u>	<u>oil spotted mcm</u>		<u>65</u>	<u>35</u>	
<u>260</u>	<u>water</u>				
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

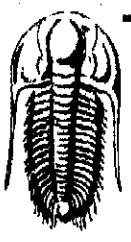
Rec Total 680 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 52000 ppm

(A) Initial Hydrostatic 1893  Test \_\_\_\_\_ T-On Location 1:25  
 (B) First Initial Flow 132  Jars \_\_\_\_\_ T-Started 1:37  
 (C) First Final Flow 325  Safety Joint \_\_\_\_\_ T-Open 3:37  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub \_\_\_\_\_ T-Pulled 3:52  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby \_\_\_\_\_ T-Out 6:12  
 (F) Second Final Flow \_\_\_\_\_  Mileage 39x2 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1891  Straddle \_\_\_\_\_  
 Initial Open 15  Shale Packer \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_  Extra Packer \_\_\_\_\_  
 Final Flow \_\_\_\_\_  Extra Recorder \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Day Standby \_\_\_\_\_  
 Sub Total \_\_\_\_\_  Accessibility \_\_\_\_\_  
 Sub Total \_\_\_\_\_

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 FEB 17 2011  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature] KCC WICHITA

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.  
 PO Box 164 Andover Ks 67002  
 ATTN: Jeff Christian

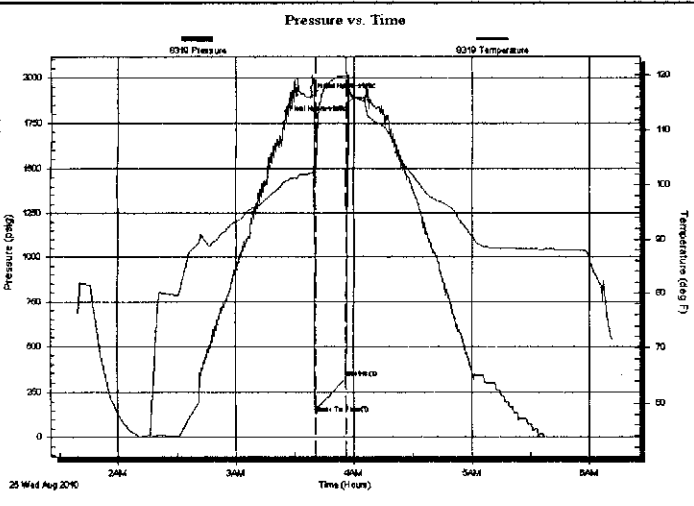
**Nathalie #1**  
 15-17s-20w, Rush, Ks  
 Job Ticket: 040334 DST#: 2  
 Test Start: 2010.08.25 @ 01:39:02

**GENERAL INFORMATION:**

Formation: Cherokee  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:40:32  
 Time Test Ended: 06:12:02  
 Interval: 3929.00 ft (KB) To 3957.00 ft (KB) (TVD)  
 Total Depth: 3957.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole  
 Tester: Brett Dickinson  
 Unit No: 47  
 Reference Elevations: 2109.00 ft (KB)  
 2104.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 8319 Outside  
 Press@RunDepth: psig @ 3954.02 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.08.25 End Date: 2010.08.25 Last Calib.: 2010.08.25  
 Start Time: 01:39:02 End Time: 06:12:02 Time On Btm: 2010.08.25 @ 03:38:02  
 Time Off Btm: 2010.08.25 @ 03:59:32

TEST COMMENT: IF-BOB in 2.25min

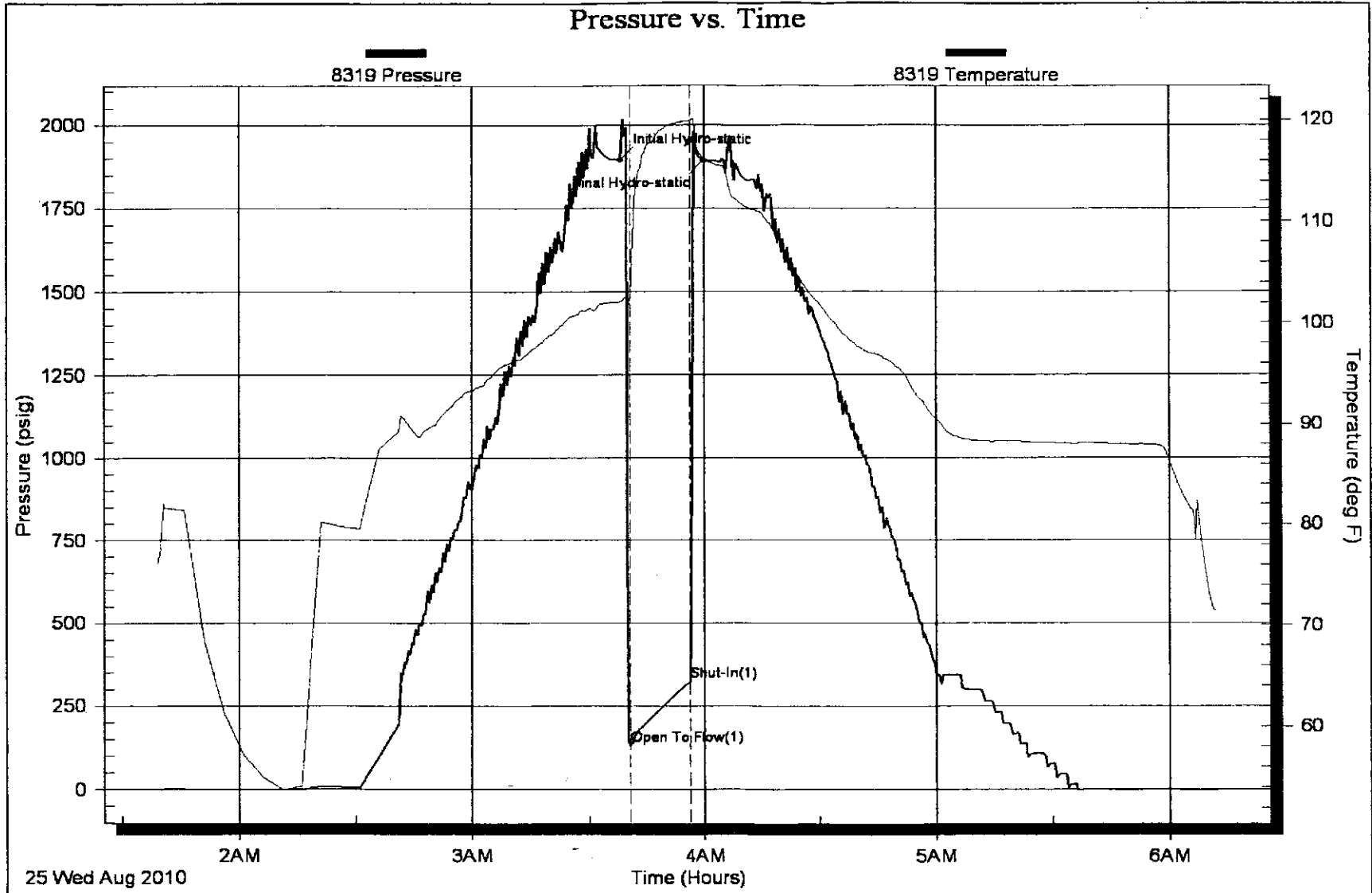


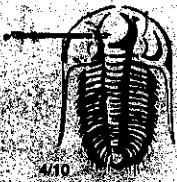
PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.85	102.08	Initial Hydro-static
3	132.58	102.63	Open To Flow (1)
18	325.24	119.89	Shut-In(1)
22	1891.91	116.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
260.00	Water	1.40
240.00	Oilspotted MCW 65%W 35%M	3.37
120.00	WCM 30%W 70%M	1.68
60.00	Oilspotted VSWCM 10%W 90%M	0.84

Gas Rates			
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

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 KCC WICHITA





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

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**Test Ticket****NO. 040333**

Well Name & No. Nathalia #1 Test No. 1 Date 8-24-10  
 Company Northern Lights Oil Co. Elevation 2109 KB 2884 GL  
 Address PO Box 164 Andover KS 67002  
 Co. Rep / Geo. Jeff Christian Rig Mallard  
 Location: Sec. 15 Twp. 17s Rge. 20w Co. Rush State KS

Interval Tested 3930-3952 Zone Tested Pawnee Sd.  
 Anchor Length 22 Drill Pipe Run 310 Mud Wt. 9.3  
 Top Packer Depth 3925 Drill Collars Run          Vis 43  
 Bottom Packer Depth 3930 Wt. Pipe Run          WL           
 Total Depth 3952 Chlorides          ppm System LCM  
 Blow Description IF-2 in blow built to 7 min  
ISI - No blow  
FT - Very weak surface blow died in 7 min  
ISI - No blow

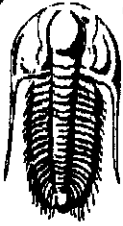
Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>oil spotted mud</u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
<u>60</u>	<u>VSOCM</u>	<u>5</u>	<u>5</u>	<u>        </u>	<u>95</u>
<u>10</u>	<u>VSOCM</u>	<u>        </u>	<u>10</u>	<u>        </u>	<u>90</u>
<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>
<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>

Rec Total 250' BHT 112 Gravity          API RW          @          F Chlorides 25.00 ppm

(A) Initial Hydrostatic 1920  Test          T-On Location W337  
 (B) First Initial Flow 109  Jars          T-Started 12:55  
 (C) First Final Flow 128  Safety Joint          T-Open 13:00  
 (D) Initial Shut-In 768  Circ Sub          T-Pulled 17:45  
 (E) Second Initial Flow 131  Hourly Standby          T-Out 20:10  
 (F) Second Final Flow 137  Mileage 3982 Comments           
 (G) Final Shut-In 753  Sampler           Ruined Shale Packer           
 (H) Final Hydrostatic 1914  Straddle           Ruined Packer           
 Shale Packer           Extra Copies           
 Extra Packer          Sub Total           
 Extra Recorder          Total           
 Day Standby          MP/DST Disc't           
 Accessibility          Sub Total         

Approved By [Signature] 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.

Nathalie #1

PO Box 164 Andover Ks 67002

15-17s-20w, Rush, Ks

ATTN: Jeff Christian

Job Ticket: 40333

DST#: 1

Test Start: 2010.08.24 @ 11:57:23

**GENERAL INFORMATION:**

Formation: Pawnee Sd.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:06:23

Time Test Ended: 20:07:53

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3930.00 ft (KB) To 3952.00 ft (KB) (TVD)

Total Depth: 3952.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2109.00 ft (KB)

2104.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Outside

Press@RunDepth: 137.32 psig @ 3931.02 ft (KB)

Start Date: 2010.08.24

End Date: 2010.08.24

Capacity: 8000.00 psig

Start Time: 11:57:23

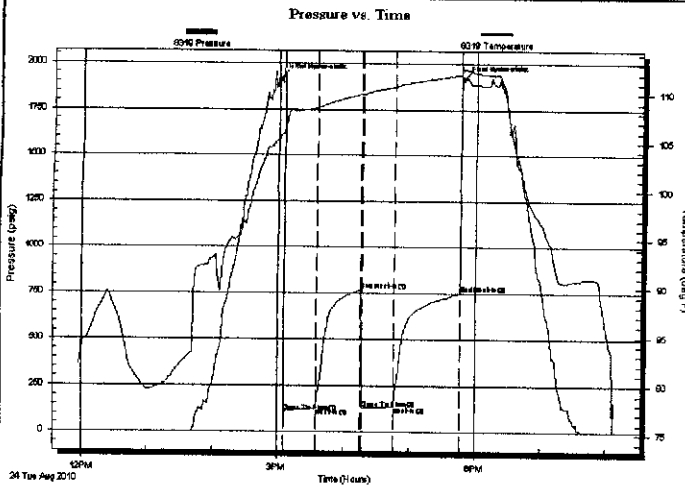
End Time: 20:07:53

Last Calib.: 2010.08.24

Time On Btm: 2010.08.24 @ 15:01:53

Time Off Btm: 2010.08.24 @ 17:48:23

**TEST COMMENT:** IF-2in blow built to 4in  
 IS-No blow  
 FF-Very weak surface blow died in 7min  
 FS-No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.68	105.75	Initial Hydro-static
5	109.29	106.21	Open To Flow (1)
34	128.02	108.60	Shut-in(1)
74	768.41	110.05	End Shut-in(1)
76	131.28	109.99	Open To Flow (2)
104	137.32	110.77	Shut-in(2)
165	753.00	112.02	End Shut-in(2)
167	1914.08	112.51	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	oilspotted mud	0.59
60.00	VSOCM 5% O 95% M	0.30
5.00	VSOCM 10% O 90% M	0.02

**Gas Rates**

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

