**Operator:** Northern Lights Oil Co., LC  
**Address:** P.O. Box 164  
**City/State/Zip:** Andover, KS 67002  
**Purchaser:** NCRA  
**Operator Contact Person:** Kurt Smith  
**Phone:** (316) 733-1515  
**Contractor:** Mallard JV  
**License:** 4958  
**Wellsite Geologist:** Kurt Smith  
**API No.** 15 - 065-22940-00-00  
**County:** Graham  
**n2 nw sw nw Sec. 12 Twp. 6 S R. 22**  
**1520 feet from S (circle one) Line of Section**  
**380 feet from E (circle one) Line of Section**  
**Footages Calculated from Nearest Outside Section Corner:**  
**NE SE NW SW (circle one)**  
**Lease Name:** Marie  
**Well #: 1**  
**Field Name:** WC  
**Producing Formation:** LKC  
**Elevation:** 2216  
**Kelly Bushing:** 2221  
**Total Depth:** 3718  
**Plug Back Total Depth:** 3711  
**Amount of Surface Pipe Set and Cemented at:** 281 Feet  
**Multiple Stage Cementing Collar Used?** Yes No  
**If yes, show depth set:** 1907 Feet  
**If Alternate II completion, cement circulated from:** 1907 Feet  
**Depth to:** 208 w/ 210 sx cmt.  
**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
**Chloride content: 4000 ppm**  
**Fluid volume: 2000 bbls**  
**Dewatering method used: Evaporate and Backfill**  
**Location of fluid disposal if hauled offsite:**  
**Operator Name:**  
**Lease Name:**  
**License No.:**  
**Quarter Sec. Twp. S R. East West**  
**County:**  
**Docket No.:**  

**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.

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.

**Signatures:**

**KCC Office Use ONLY**

- **Letter of Confidentiality Attached**
- **If Denied, Yes [ ] Date:**
- **Wireline Log Received**
- **Geologist Report Received**
- **UIC Distribution**

**Date Commission Expires:** July 14, 2005
Operator Name: Northern Lights Oil Co., LC  Lease Name: Marie  Well #: 1
Sec. 12  Twp. 6  S  R. 22  East ✓ West  County: Graham

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 gas pressure reached saturation, whether fluids are, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final charged. Attach extra if extra space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken
(Attach Additional Sheets)
✓ Yes  ☐ No

Log Formation (Top), Depth and Datum Sample
Name Top Datum
Anhydrite 1874 +347
LKC 3455 -1234
BKC 3646 -1425
Granite 3712 -1491

List All E. Logs Run:
dill/cdn/bhcs/cbl

CASING RECORD  ✓ New  Used
Report all strings set-conductor, surface, intermediate, production, etc.

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Used (In O.D.)</th>
<th>Weight Lbs./Ft</th>
<th>Setting Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12 1/4</td>
<td>8 5/8</td>
<td>23#</td>
<td>281'</td>
<td>60/40 Poz</td>
<td>180sx</td>
<td>2%gel3%CC</td>
</tr>
<tr>
<td>Production</td>
<td>7 7/8</td>
<td>5 1/2</td>
<td>15.5#</td>
<td>3716'</td>
<td>EA-2</td>
<td>150sx</td>
<td>5%calceal</td>
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ADDITIONAL CEMENTING / SQUEEZE RECORD

<table>
<thead>
<tr>
<th>Purpose:</th>
<th>Depth Top Bottom</th>
<th>Type of Cement</th>
<th>#Sacks Used</th>
<th>Type and Percent Additives</th>
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<tbody>
<tr>
<td>Perforate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protect Casing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Back TD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plug Off Zone</td>
<td></td>
<td></td>
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<td></td>
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Shots Per Foot

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3702-3711</td>
<td>1000 gal 15% FE</td>
</tr>
<tr>
<td>4</td>
<td>3605-3608</td>
<td>1000 gal 15% NE</td>
</tr>
<tr>
<td>4</td>
<td>3574-3579</td>
<td>1000 gal 15% NE</td>
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</table>

TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
<th>Yes ✓ No</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 7/8</td>
<td>3700</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Date of First, Resumed Production, SWD or Envir.

12-1-2003

Producing Method

Flowing ✓ Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours

Oil Bbls.  Gas Mcf Water Bbls. Gas-Oil Ratio Gravity
100            —       —       —       —        —             37

Disposition of Gas

☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION

☐ Open Hole ✓ Perf. Dually Comp. ☐ Commingled

Production Interval

KCC DEC 02 2003

CONFIDENTIAL
**Test Ticket**

**Well Name & No.** MARIE #1  
**Company** NORTHERN LIGHTS OIL CO., LLC  
**Zone Tested** OREAD A  
**Address** P.O. BOX 164 ANDOVER, KS 67002  
**Elevation** 2221 KB 2216 GL  
**Co. Rep / Geo.** KURT SMITH  
**Cont.** MALLARD  
**Est. Ft. of Pay** Por.  
**Location:** Sec. 12 Twp. 65 Rge. 22W Co. GRAHAM State KS  
**No. of Copies** Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

<table>
<thead>
<tr>
<th>Interval Tested</th>
<th>3357 to 3376</th>
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<tbody>
<tr>
<td>Anchor Length</td>
<td>19'</td>
</tr>
<tr>
<td>Top Packer Depth</td>
<td>3352</td>
</tr>
<tr>
<td>Bottom Packer Depth</td>
<td>3357</td>
</tr>
<tr>
<td>Total Depth</td>
<td>3376</td>
</tr>
<tr>
<td>Mud Wt.</td>
<td>8.9 LCM</td>
</tr>
<tr>
<td>Vis.</td>
<td>44 W 8.2</td>
</tr>
<tr>
<td>Blow Description</td>
<td>IF - STRONG 80, 8, 10-min</td>
</tr>
<tr>
<td></td>
<td>I SJ - WEAK SURFACE BLOWBACK</td>
</tr>
<tr>
<td></td>
<td>FF - STRONG 80, 8, 18-min.</td>
</tr>
<tr>
<td></td>
<td>FF - DEAD</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>GIP</th>
<th>80</th>
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<tbody>
<tr>
<td>%gas</td>
<td>5</td>
</tr>
<tr>
<td>%oil</td>
<td>95</td>
</tr>
<tr>
<td>%water</td>
<td>%mud</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>REC</th>
<th>600</th>
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<tbody>
<tr>
<td>Feet of</td>
<td>GASSY OIL</td>
</tr>
<tr>
<td>%gas</td>
<td>95</td>
</tr>
<tr>
<td>%oil</td>
<td>5</td>
</tr>
<tr>
<td>%water</td>
<td>%mud</td>
</tr>
</tbody>
</table>

**BHT** 109°F Gravity 30 API D @ 80°F Corrected Gravity 28°F API

**Chlorides** ppm Recovery 2000 ppm System

**AK-1**

<table>
<thead>
<tr>
<th>Initial Hydrostatic Mud</th>
<th>1629 PSI</th>
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<tbody>
<tr>
<td>Recorder No. (depth)</td>
<td>6741</td>
</tr>
<tr>
<td></td>
<td>3359</td>
</tr>
<tr>
<td>First Initial Flow Pressure</td>
<td>28 PSI</td>
</tr>
<tr>
<td>Recorder No. (depth)</td>
<td>13308</td>
</tr>
<tr>
<td></td>
<td>3373</td>
</tr>
<tr>
<td>First Final Flow Pressure</td>
<td>156 PSI</td>
</tr>
<tr>
<td>Recorder No. (depth)</td>
<td>1042</td>
</tr>
<tr>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Initial Shut-In Pressure</td>
<td>162 PSI</td>
</tr>
<tr>
<td>Recorder No. (depth)</td>
<td>1022</td>
</tr>
<tr>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Final Shut-In Pressure</td>
<td>219 PSI</td>
</tr>
<tr>
<td>Recorder No. (depth)</td>
<td>1605</td>
</tr>
<tr>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Final Hydrostatic Mud</td>
<td>605 PSI</td>
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<tr>
<td>Initial Opening</td>
<td>45</td>
</tr>
<tr>
<td>Final Flow</td>
<td>16:00</td>
</tr>
<tr>
<td>Final Shut-In</td>
<td>17:32</td>
</tr>
<tr>
<td>T-On Location</td>
<td>19:17</td>
</tr>
<tr>
<td>T-Started</td>
<td>21:48</td>
</tr>
<tr>
<td>T-Open</td>
<td>23:58</td>
</tr>
<tr>
<td>T-Pulled</td>
<td>80</td>
</tr>
<tr>
<td>T-Out</td>
<td>80</td>
</tr>
</tbody>
</table>

**Test B, Hole 80**

**Elec. Rec.** Jars  
**Safety Jt.**  
**Circ Sub.**  
**Sampler**  
**Straddle**  
**Ext. Packer**  
**Shale Packer**  
**Mileage** 80

**Approved By**   
**Our Representative**
## Test Ticket

**Well Name & No.** MARIE #1  
**Test No.** 2  
**Date** 10-13-03

**Company** NORTHERN LIGHTS OIL, CO., LC  
**Zone Tested** GREAD-B

**Address**  
**Elevation** 2221, KB 2216, GL

**Co. Rep / Geo.** KURT SMITH  
**Cont.** MALLARD  
**Est. Fl. of Pay**  
**Por.** %

**Location: Sec.** 12  
**Twp.** 6S  
**Rge.** 22W  
**Co.** GRAHAM  
**State** KS

**No. of Copies**  
**Distribution Sheet (Y, N)**  
**Turnkey (Y, N)**  
**Evaluation (Y, N)**

---

**Interval Tested** 3379 to -3400  
**Anchor Length** 21

**Top Packer Depth** 3379  
**Bottom Packer Depth** 3379

**Total Depth** 3400  
**Mud Wt.** 9.0 LCM  
**Vis.** 46  
**WL** 8.2

**Hole Size** 7 7/8"  
**Rubber Size** 6 3/4"  
**Wt. Pipe Run** 0  
**Drill Collar Run** 247

**Blow Description** FF-STONG 80.8, 1-min, FSX-GOOD BLOW BACK 2 1/2"in FF-STONG 80.8, 1-min, FSX-GOOD BLOW BACK 3 1/2"in

---

**Recovery - Total Feet** 1160  
**GIP** 260  
**Fl. in DC** 247  
**Fl. in DP** 913

**Rec.** 1160  
**Feet of** GASSY OIL  
**% gas** 10  
**% oil** 90  
**% water**  
**% mud**

**Rec.**  
**Feet of**  
**% gas**  
**% oil**  
**% water**  
**% mud**

**Rec.**  
**Feet of**  
**% gas**  
**% oil**  
**% water**  
**% mud**

**Rec.**  
**Feet of**  
**% gas**  
**% oil**  
**% water**  
**% mud**

**BHT**  
**F Gravity** 32  
**API D @ 80**  
**F Corrected Gravity** 30  
**API**

**RW**  
**AK-1**  
**Chlorides** ppm  
**Recovery** Chlorides ppm  
**System** 2,000 ppm

---

**TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGES 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.**

---

**Approved By**  
**Our Representative** John J. Schmaider

---

**Test** B.HOLE  
**Elec. Rec.**  
**Jars**  
**Safety Jt.**  
**Circ Sub**  
**Sampler**  
**Straddle**  
**Ext. Packer**  
**Shale Packer**  
**Mileage** 80  
**Sub Total:**

**KCC**

---

**Other**  
**Total:**

**CONFIDENTIAL**
Test Ticket

Well Name & No.  MARIE *1  Test No.  # 3  Date  10-13-03
Company  NORTHERN LIGHTS OIL CO.  Zone Tested  TRONTO 4-L, K-24
Address  KURT SMITH  Cont.  MALLARD  Est. Ft. of Pay  %
           Elev.  2221  KB  2216  GL
Co. Rep / Geo.  KURT SMITH  Est. Ft. of Pay  %
Location: Sec.  12  Twp.  6S  Rge.  22W  Co.  GRAHAM  State  KS
No. of Copies  Distribution Sheet (Y, N)  Turnkey (Y, N)  Evaluation (Y, N)

Interval Tested  3405 TO 3460  Initial Str Wt/Lbs.  36,000  Unseated Str Wt/Lbs.  33,000
Top Packer Depth  3400  Wt. Set Lbs.  25,000  Wt. Pulled Loose/Lbs.  50,000
Bottom Packer Depth  3405  Tool Weight  3,000
Total Depth  3460  Hole Size  7 7/8"  Rubber Size  6 3/4"
Mud Wt.  9.0  LCM  4.6  WL  6.3  Wt. Pipe Run  0  Drill Collar Run  247
Blow Description  FF-STRONG B.O. 1 Min.  Drill Pipe Size  4 5/8"  Ft. Run  3148
G.T.S. IN 15-MIN ON F.S.T. WILL BURN  T.S.T.G.

Recovery - Total Feet  2295  GIP  G.T.S.  Ft. in DC  247  Ft. in DP  2048
Rec.  2295  Feet of  GASSY OIL
Rec.  Feet of
Rec.  Feet of
Rec.  Feet of
Rec.  Feet of
Rec.  Feet of
BHT  110  °F Gravity  37  API D @ 60  °F Corrected Gravity  37  API
RW  -  @  - °F  Chlorides  ppm Recovery  -  Chlorides  2000 ppm System

(A) Initial Hydrostatic Mud  1673 PSI  Recorder No.  6741  Test B, HOLE
(B) First Initial Flow Pressure  471 PSI  Recorder No.  3411  Elec. Rec.  V
(C) First Final Flow Pressure  652 PSI  Recorder No.  11084  Jars
(D) Initial Shut-In Pressure  1121 PSI  Recorder No.  3443  Safety Jt.
(E) Second Initial Flow Pressure  692 PSI  Recorder No.  Ext. Packer
(F) Second Final Flow Pressure  863 PSI  Recorder No.  Shale Packer
(G) Final Shut-In Pressure  1118 PSI  Initial Opening  15
(Q) Final Hydrostatic Mud  1610 PSI  Initial Shut-In  15

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Approved By  John J. Schmidt
Our Representative  

* Dec 03  2003  Confidential  KCC  Wichita  N°  18830  DEC  02  2003  KCC  DEC  02  2003  DEC  02  2003  DEC  02  2003
## Well Name & No.
**MARIE #1**

## Company
**NORTHER LIGHTS OIL CO., LC.**

## Address
- KURT SMITH<br>- Cont.<br>- Est. Ft. of Pay<br>- Por.<br>- %

## Location
- Sec. 12<br>- Twp. 63<br>- Rge. 22 W<br>- Co. GRAHAM<br>- State KS

## No. of Copies
- Disbtribution Sheet (Y, N)<br>- Turnkey (Y, N)<br>- Evaluation (Y, N)

## Interval Tested
3470 to 3494

## Anchor Length
24'

## Top Packer Depth
3465

## Bottom Packer Depth
3470

## Total Depth
3494

## Mud Wt.
- 9.0 LCM<br>- 46 WL 8.0

## Blow Description
- IF STRONG B.O.B 4-min.<br>- PSI: STRONG BLOW BACK 10-min.

## Recovery - Total Feet
500'

## GIP
- 680'

## FL in DC
247

## FL in DP
253

## Recorder No. (depth)
- 1713 PSI
- 40 PSI
- 120 PSI
- 829 PSI
- 146 PSI
- 184 PSI
- 825 PSI
- Initial Opening 6
- Initial Shut-In 4.5
- Final Flow 45
- Final Shut-In 45
- T-On Location 06:00
- T-Started 06:40
- T-Open 08:31
- T-Pulled 10:31
- T-Out 12:31

## Test B. HOLE
- Elec. Rec.
- Jars
- Safety Jt.
- Circ Sub
- Sampler
- Straddle
- Ext. Packer
- Shale Packer
- Mileage 80

## Sub Total:

## Total:

---

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Approved By: [Signature]

Our Representative: [Signature]
**TRILOBITE TESTING INC.**
P.O. Box 362 • Hays, Kansas 67601

**Test Ticket**

<table>
<thead>
<tr>
<th>Well Name &amp; No.</th>
<th>MARIE #1</th>
<th>Test No.</th>
<th>5</th>
<th>Date</th>
<th>10-14-03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>NORTHERN LIGHTS OIL Co., LLC</td>
<td>Zone Tested</td>
<td>1, KC - D</td>
<td>Elevation</td>
<td>2221 KB 2216 GL</td>
</tr>
<tr>
<td>Address</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co. Rep / Geo.</td>
<td>KURT SMITH</td>
<td>Cont.</td>
<td>MALLARD</td>
<td>Est. Ft. of Pay</td>
<td>Por.</td>
</tr>
<tr>
<td>Location: Sec.</td>
<td>12</td>
<td>Twp.</td>
<td>05</td>
<td>Rge. 22 W</td>
<td>Co.</td>
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<tr>
<td>No. of Copies</td>
<td></td>
<td>Disbtribution Sheet (Y, N)</td>
<td></td>
<td>Turnkey (Y, N)</td>
<td>Evaluation (Y, N)</td>
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<table>
<thead>
<tr>
<th>Interval Tested</th>
<th>3490 To 3505</th>
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<tr>
<td>Anchor Length</td>
<td>15'</td>
</tr>
<tr>
<td>Top Packer Depth</td>
<td>3485'</td>
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<tr>
<td>Bottom Packer Depth</td>
<td>3490</td>
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<tr>
<td>Total Depth</td>
<td>3505</td>
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<tr>
<td>Mud Wt.</td>
<td>9.1 LCM - Vis. 50 WL 6.0</td>
</tr>
<tr>
<td>Blow Description</td>
<td>IF-STRONG B.O. 1:MIN. IT 1 WAKE SURFACE BLOW BACK FF-STRONG F.O. 2:MIN. FS1 WAKE SURFACE BLOW BACK</td>
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<table>
<thead>
<tr>
<th>Initial Str Wt./Lbs.</th>
<th>45,000</th>
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<tbody>
<tr>
<td>Unseated Str Wt./Lbs.</td>
<td>48,000</td>
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<tr>
<td>Wt. Set Lbs.</td>
<td>2,500</td>
</tr>
<tr>
<td>Wt. Pulled Loose/Lbs.</td>
<td>52,000</td>
</tr>
<tr>
<td>Tool Weight</td>
<td>2,000</td>
</tr>
<tr>
<td>Hole Size 7 7/8&quot;</td>
<td></td>
</tr>
<tr>
<td>Rubber Size 6 3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Drill Collar Run</td>
<td>247</td>
</tr>
<tr>
<td>Drill Pipe Size 4 1/2XH</td>
<td>Ft. Run 323</td>
</tr>
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<table>
<thead>
<tr>
<th>Recovery - Total Feet</th>
<th>1000</th>
</tr>
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<tbody>
<tr>
<td>Feet of 5W</td>
<td>500</td>
</tr>
<tr>
<td>Feet of 60CMW</td>
<td>250</td>
</tr>
<tr>
<td>Feet of 60CMW</td>
<td>290</td>
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<tr>
<td>Feet of FREE OIL</td>
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<table>
<thead>
<tr>
<th>BHT</th>
<th>F Gravity</th>
<th>API D</th>
<th>F Corrected Gravity</th>
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<tr>
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<table>
<thead>
<tr>
<th>RW</th>
<th>@</th>
<th>46 °F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Chlorides 109,000 ppm Recovery</td>
</tr>
</tbody>
</table>

| (A) Initial Hydrostatic Mud | 1737 | PSi | Recorder No. | 6741 |
| (B) First Initial Flow Pressure | 217 | PSi | (depth) | 3492 |
| (C) First Final Flow Pressure | 277 | PSi | Recorder No. | 13308 |
| (D) Initial Shut-In Pressure | 748 | PSi | (depth) | 3502 |
| (E) Second Initial Flow Pressure | 336 | PSi | Recorder No. | |
| (F) Second Final Flow Pressure | 438 | PSi | (depth) | |
| (G) Final Shut-In Pressure | 748 | PSi | Initial Opening | 10 |
| (Q) Final Hydrostatic Mud | 1689 | PSi | Initial Shut-In | |
| (C) Final Shut-In Pressure | 1689 | PSi | Final Flow | 20 |
| (D) Final Shut-In Pressure | 1689 | PSi | Final Shut-In | 45 |
| (E) Final Hydrostatic Mud | 1689 | PSi | T-On Location | 17:15 |
| (F) Final Hydrostatic Mud | 1689 | PSi | T-Started | 6:18:05 |
| (G) Final Hydrostatic Mud | 1689 | PSi | T-Open | 19:28 |
| (H) Final Hydrostatic Mud | 1689 | PSi | T-Pulled | 21:28 |
| (I) Final Hydrostatic Mud | 1689 | PSi | T-Out | 23:30 |

**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.**

Approved By

Our Representative

John J. Johnson

**Test B.HOLE**

Elec. Rec.

Jars

Safety Jt.

Circ Sub

Sampler

Straddle

Ext. Packer

Shale Packer

Mileage 90

Sub Total:

Std. By:

Other:

Total:
TRILOBITE TESTING INC.
P.O. Box 362 - Hays, Kansas 67601

Test Ticket

Well Name & No. MARIE #1 Test No. 45 Date 10-15-03
Company NORTHERN LIGHTS OIL CO., INC Zone Tested 1 - KC - E1F
Address
Co. Rep / Geo. KURT SMITH Cont. MALLARD Est. Ft. of Pay 12
Location: Sec. 12 Twp. 6S Rge. 22W Co. GRAHAM State KS
No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3503 to 3524 Initial Str Wt/Lbs. 35,000 Unseated Str Wt/Lbs. 38,000
Anchor Length 21' Wt. Set Lbs. 2500 Wt. Pulled Loose/Lbs. 59,000
Top Packer Depth 3498 Tool Weight 2200
Bottom Packer Depth 3503 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 3524 Wt. Pipe Run Drill Collar Run 247
Mud Wt. 9.1 LCM Vis. 52 WL 5.5 Drill Pipe Size 4 3/4" Ft. Run 3242
Blow Description FF STRONG B.O. 8.5 min. TS1 STRONG BLOW BACK B.O. 8.20 min.

Recovery - Total Feet 500 GIP 1050 Ft. in DC 247 Ft. in DP 253
Rec. 100 Feet of GMCO 25%gas 60%oil %water 15%mud
Rec. 400 Feet of GASSY OIL 10%gas 90%oil %water %mud
Rec. Feet of %gas %oil
Rec. Feet of %gas %oil
Rec. Feet of %gas %oil
Rec. Feet of %gas %oil
BHT 109 °F Gravity 42 API D @ 70 °F Corrected Gravity 41 °API

Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud
(B) First Initial Flow Pressure
(C) First Final Flow Pressure
(D) Initial Shut-In Pressure
(E) Second Initial Flow Pressure
(F) Second Final Flow Pressure
(G) Final Shut-In Pressure
(Q) Final Hydrostatic Mud

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGES 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 OPINIONS 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.

Approved By

Our Representative

Test B. HOLE
Jars
Safety Jt.
Circ Sub
Sampler
Straddle
Ext. Packer
Shale Packer
Mileage 80
Sub Total:
Total:

04:30 05:00
06:40
08:42
10:50

TRILOBITE TESTING INC.
P.O. Box 362 - Hays, Kansas 67601
**Test Ticket**

**Well Name & No.:** MARIE #1  
**Test No.:** 7  
**Date:** 10-15-03

**Company:** NORTHERN LIGHTS OIL CO., INC.  
**Zone Tested:** LKC - K+L

**Address:**  
**Elevation:** 2221 KB 2216 GL

**Co. Rep / Geo.:** KURT SMITH  
**Cont.:** MALLARD  
**Est. Ft. of Pay:** Por. %

**Location:** Sec. 12  
**Twp.:** 6S  
**Rge.:** 22W  
**Co.:** GRAHAM  
**State:** KS

**No. of Copies:**  
**Distribution Sheet:** Y  
**Turnkey:** Y  
**Evaluation:** Y

**Interval Tested:** 3611 TO 3645  
**Initial Str Wt./Lbs.:** 35000  
**Unseated Str Wt./Lbs.:** 35000

**Anchor Length:** 34'  
**Wt. Set Lbs.:** 25000  
**Wt. Pulled Loose/Lbs.:** 40000

**Top Packer Depth:** 3606  
**Tool Weight:** 25000

**Bottom Packer Depth:** 3611  
**Hole Size 7 7/8"**  
**Rubber Size 6 3/4"**

**Total Depth:** 3645  
**Wt. Pipe Run:** 0  
**Drill Collar Run:** 247

**Mud Wt.** 91 LCM  
**Vis.:** 50 WL 6.0  
**Drill Pipe Size:** 4 1/4"  
**Ft. Run:** 3356

**Blow Description:**  
**F. WEAK DEAD IN 13 MIN.**  
**FF - DEAD**

---

**Recovery - Total Feet** 5'  
**GIP:** 0  
**Feet of DRILLING MUD:** %gas %oil %water %mud

<table>
<thead>
<tr>
<th>Rec.</th>
<th>%gas</th>
<th>%oil</th>
<th>%water</th>
<th>%mud</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**BHT:** 107°F  
**F Gravity:** API D @  
**F Corrected Gravity:** API

**Chlorides (ppm):**  
**Recovery:**  
**Chlorides (ppm):**  
**System:**

<table>
<thead>
<tr>
<th>Chlorides ppm</th>
<th>Recovery</th>
<th>Chlorides ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**AK-1**  
Alpine 1798 PSI

- **Initial Hydrostatic Mud:**  
- **First Initial Flow Pressure:** 12 PSI  
- **First Final Flow Pressure:** 13 PSI  
- **Initial Shut-In Pressure:** 510 PSI  
- **Second Initial Flow Pressure:** 13 PSI  
- **Second Final Flow Pressure:** 16 PSI  
- **Final Shut-In Pressure:** 312 PSI  
- **Final Hydrostatic Mud:** 1682 PSI

**Initial Opening:** 20  
**Final Flow:** 45  
**Final Shut-In:** 20  
**T-Location:** 21:30

**Test B. Hole:**  
**Elec. Rec.:**  
**Jars:**  
**Safety Jt:**  
**Circ Sub:**  
**Sampler:**  
**Straddle:**  
**Ext. Packer:**  
**Shale Packer:**  
**Mileage:** 80

**T-Started:** 22:12  
**T-Open:** 23:47  
**T-Pulled:** 01:57  
**T-Out:** 03:20

**Sub Total:**  
**Std. By:**  
**Other:**  
**Total:**  

---

**Approved By:**  
**Our Representative:**
Test Ticket

Well Name & No. MARIE #1  Test No. 8  Date 10-16-03
Company NORTHERN LIGHTS OIL CO., INC.  Zone Tested C64G.
Address  
Co. Rep / Geo. KURT - SMITH  Cont. MALLARD  Est. Ft. of Pay  Por. %
Location: Sec. 12  Twp. 65  Rge. 22 W  Co. GRAHAM  State KS
No. of Copies  Distribution Sheet (Y, N)  Turnkey (Y, N)  Evaluation (Y, N)

Interval Tested 3669 TO 3717  Initial Str Wt/Lbs. 36000  Unseated Str Wt/Lbs. 32
Anchor Length 48'  Wt. Set Lbs. 25600  Wt. Pulled Loose/Lbs. 
Top Packer Depth 3664  Tool Weight 3000
Bottom Packer Depth 3669  Hole Size 7 7/8"  Rubber Size 6 3/4"
Total Depth 3717  Wt. Pipe Run 0  Drill Collar Run 247
Mud Wt. 9.1  LCM  -  Vis. 49  WL 8.0  Drill Pipe Size 4 1/2"X4H  Ft. Run 3418
Blow Description IF GOOD TO STRONG 8.0 OR 15-Min. TEST. WEAK SURFACE BLOWBACK.
IFI GOOD TO STRONG 8.0 OR 15-MIN. TEST. WEAK SURFACE BLOWBACK.

GOOD TO STRONG B.O. B 15-MIN. TEST. WEAK SURFACE BLOWBACK.

Recovery - Total Feet 485  GIP 10  Ft. in DC 247  Ft. in DP 238
Rec. of 485  Feet of 60
Rec.   %gas  %oil  %water  %mud
Rec.   %gas  %oil  %water  %mud
Rec.   %gas  %oil  %water  %mud
Rec.   %gas  %oil  %water  %mud
Rec.   %gas  %oil  %water  %mud
Rec.   %gas  %oil  %water  %mud
Rec.   %gas  %oil  %water  %mud
BHT 113°F Gravity 24°API D @ 70°F  F Corrected Gravity 23°API
RW  @  °F  Chlorides ppm Recovery  Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 1832 PSI  Recorder No. 6741  B. Hole
(B) First Initial Flow Pressure 20 PSI  Recorder No. 3672  Elec. Rec.
(C) First Final Flow Pressure 144 PSI  Recorder No. 11084  Jars
(D) Initial Shut-In Pressure 1088 PSI  Recorder No. 3704  Safety Jt.
(E) Second Initial Flow Pressure 150 PSI  Recorder No. 11040  Circ Sub
(F) Second Final Flow Pressure 197 PSI  Recorder No. 11040  Sampler
(G) Final Shut-In Pressure 1074 PSI Initial Opening 30
(Q) Final Hydrostatic Mud 1806 PSI Initial Shut-In 45

Initial Opening 30
Final Flow 45
Final Shut-In 18:00
T-On Location 19:15
T-Started 20:41
T-Open 23:13
T-Pulled 01:07
T-Out

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Approved By

Our Representative
<table>
<thead>
<tr>
<th>CHART NO.</th>
<th>TIME</th>
<th>RATE (BPM)</th>
<th>VOLUME (BBL-GAL)</th>
<th>PUMPS</th>
<th>PRESSURE (PSI)</th>
<th>DESCRIPTION OF OPERATION AND MATERIALS</th>
</tr>
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<tbody>
<tr>
<td>1330</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>on loc TO 3716</td>
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<tr>
<td>1335</td>
<td></td>
<td>KCC</td>
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<td></td>
<td></td>
<td>Rig Lay Down D.P.</td>
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<tr>
<td></td>
<td></td>
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<td></td>
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<td>ST CSG 3720’ mixed 14” &amp; 15.5”</td>
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<td></td>
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<td>Bletshoe</td>
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<td>CONFIDENTIAL</td>
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<td>Insert Floatshoe</td>
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<td></td>
<td></td>
<td>D.U. Latch Down Batt.</td>
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<td>RECEIVED</td>
<td></td>
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<td>Cent. on Collars 1, 2, 4, 5, 6, 7, 8, 9, 11, 12</td>
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<td>DEC 03 2003</td>
<td></td>
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<td>Cement Baskets on STs 49 &amp; 51</td>
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<td>D.U. on Top of ST 49 1907’</td>
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<td>KCC WICHITA</td>
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<td>20 Scratchers with wellbonding</td>
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<td>on Thru payzones</td>
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<tr>
<td>1515</td>
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<td>CSG on bottom circ w/mud &amp; Rotate</td>
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<tr>
<td>1625</td>
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<td></td>
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<td></td>
<td>Gash circ</td>
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<td>12 BBL</td>
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<td>Pump 500 mudflush</td>
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<td>26 BBL</td>
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<td>20 BBL KCl water</td>
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<td>150 SRS EA-2 CMT</td>
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<td>Finish CMT</td>
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<td>Release Latch Down Plug + ST Drop</td>
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<td>40 BBL water</td>
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<td>Release PS&amp;T Float head Drop opening</td>
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<td></td>
<td>1100</td>
<td></td>
<td></td>
<td></td>
<td>Open D.U. &amp; circ w/mud</td>
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<tr>
<td>2015</td>
<td></td>
<td>20 BBL</td>
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<td>ST Top Stage Plug Rats + Mouse w/25’</td>
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<td>Pump 20 BBL KCl water</td>
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<td>210 SRS SM0 CMT V</td>
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<td>116 BBL</td>
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<td></td>
<td>Release Top Plug + ST Drop</td>
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<td>2100</td>
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<td>1500 Plug Down CMT D100 with not circ</td>
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<td></td>
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<td></td>
<td></td>
<td>mud was real heavy at end</td>
</tr>
</tbody>
</table>

Witnessed by:

[Signatures]
### Allied Cementing Co., Inc.

**Date:** 12/31/23

**Type of Job:** Surface

**Hole Size:** 13.75 TD

**Casing Size:** DEPTH

**Tubing Size:** DEPTH

**Drill Pipe:** DEPTH

**Tool:** DEPTH

**Pres. Max:** MINIMUM

**Meas. Line:** SHOE JOINT

**Cement Left in Csg.:** 10

**Perfs.:**

**Displacement:** 19.5% Bbl.

**Equipment:**

- **Pump Truck #1:** 222
- **Cementer:** Paul
- **Helper:** Shane

- **Bulk Truck #1:** 222
- **Driver:** Scott

**Remarks:**

- Cement Circulated

**Charge To:** Northern Lights

**Street:**

**City:**

**State:**

**Zip:**

---

**To Allied Cementing Co., Inc.**

You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

**Signature:**

---

**Printed Name:**

---

**Date:** DEC 02 2003

**Location:** Bogue 2N 3W 41/2N

**County:** Graham

**State:** KS

**Servicr Point:** R

**Job Start:** 8:00 AM

**Job Finish:** 8:45 PM

**Cement Amount Ordered:** 180

**Pozmix:** 72

**Gel:** 3

**Chloride:** 5

**Handling:**

**Mileage:**

**Received:**

**Total:** 1967

**Depth of Job:**

**Charge:**

**Total:** 792

**Float Equipment:**

---

**Tax:**

**Total Charge:**

**Discount:**

**If Paid in 30 Days**