FORM MUST BE TYPED

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5474
Name: NORTHERN LIGHTS OIL CO., L.P.
Address: P.O. BOX 164
Andover, KS 67002
City/State/Zip

Purchaser:___________
Operator Contact Person: Kurt Smith
Phone (316) 733-1515
Contractor: Name: Mallard JV
License:___________

Wellsite Geologist: Kurt Smith

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover
Oil ___ SWD ___ SIGN ___ Temp. Abd.
Gas ___ EHKR ___ SIGN ___
Dry ___ Other (Core, SW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:
Operator:
Well Name:
Comp. Date _______ Old Total Depth

Deepening ___ Re-perf. ___ Conv. to Inj/SWD
Plug Back ___ PBDT
Commingle __ Docket No.
Dual Completion __ Docket No.
Other (SWD or Inj?) __ Docket No.
1.20.96 Date Reached TD Completion Date

API NO. 15-065-227630000
County Graham
ne-sw-sw Sec. 2 Twp. 7S Age. 22W
990 Feet from NW (circle one) Line of Section
990 Feet from NW(circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Ft. Hays _______ Well # 3
Field Name Mt Etna N.
Producing Formation D&A
Elevation: Ground 2437 KB 2442
Total Depth 3715 PBDT
Amount of Surface Pipe Set and Cemented at 256 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 cm.

Drilling Fluid Management Plan B & A
(Data must be collected from the Reserve Pit)
Chloride content 1600 ppm Fluid Volume 500 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite:
Operator Name
Lease Name ___________ License No. 39-96
County Quarter Sec. Twp. S Rng. E/W

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado
Derby Building, 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 on 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.

Signature
Title Exploration Manager Date 2-8-96
Subscribed and sworn to before me this 8th day of Feb 1996.
Notary Public
Date Commission Expires

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
KCC SWD/Rep NGPA
KSS Plug Other
(Specify)

Form ACO-1 (7-91)
INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

Samples Sent to Geological Survey

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

Cores Taken

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

Electric Log Run (Submit Copy.)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

List All Logs Run:

### CASING RECORD

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Set (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>20#</td>
<td>266</td>
<td>60/40 poz</td>
<td>180</td>
<td>2%gel13%cc</td>
</tr>
</tbody>
</table>

### ADDITIONAL CEMENTING/SQUEEZE RECORD

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

### PERFORATION RECORD - Bridge Plugs Set/Type

<table>
<thead>
<tr>
<th>Shots Per Foot</th>
<th>Specify Footage of Each Interval Perforated</th>
<th>Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)</th>
<th>Depth</th>
</tr>
</thead>
</table>

### TUBING RECORD

<table>
<thead>
<tr>
<th>Size</th>
<th>Set At</th>
<th>Packer At</th>
<th>Liner Run</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

Date of First, Resumed Production, SWD or Inj.

Producing Method

- □ Flowing
- □ Pumping
- □ Gas Lift
- □ Other (Explain)

Estimated Production Per 24 Hours

- Oil Bbls.
- Gas Mcf
- Water Bbls.
- Gas-Oil Ratio
- Gravity

Disposition of Gas

- □ Vented
- □ Sold
- □ Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

- □ Open Hole
- □ Perf.
- □ Dually Comp.
- □ Commingled

- □ Other (Specify)

Production Interval
OPERATOR: Northern Lights Oil Co., L. P.  
P. O. Box 164  
Andover, KS 67002

WELL: Ft. Hays #3

API #: 15-065-227630000

LOCATION: NE SW SW  
990' FSL, 990' FWL  
Section 2, Township 7 S, Range 23 W  
Graham County, Kansas

COMPLETED: January 25, 1996

TOTAL DEPTH: 3915'

ELEVATION: 2437' GL, 2442' KB

---

STATUS: Dry and Abandoned - Marmaton formation

SPUD: 2:50 am 1/20/96

SIZE HOLE DRILLED: 12-1/4" x 270'

SURFACE CASING SIZE: 8-5/8" x 20# x 260.07' (6 Jts.)

SET AT: 266.67'

CEMENT: 180 sacks 60/40 Pozmix, 2% gel, 3% cc

SIZE HOLE DRILLED: 7-7/8" x 4915'

PLUGGED HOLE WITH: 200 sacks 60/40 Pozmix, 6% gel, 1/4# floseal per sack as follows:

- 25 sx @ 2115'
- 100 sx @ 1350'
- 40 sx @ 320'
- 10 sx @ 40'
- 15 sx rathole,
- 10 sx mousehole

P. D.: 2:00 am 1/25/96

DRILL STEM TESTS: 1

ELECTRIC LOG: None

RESERVE PIT: 1600 ppm chlorides, 500 bbls free fluid content
TRILOBITE TESTING L.L.C.  15-065-22763
P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Well Name & No.  FT. Hays #3  Test No. 1  Date 1-24-96
Company Northern Lights Oil Co.  Zone Tested I  L.K.C
Address  P.O. Box 164 Andover, KS 67002  Elevation 2442  KB 2487  GL
Co. Rep / Geo.  Kurt L. Smith  Cont.  Mallard #1  Est. Ft. of Pay  __  Por. __
Location: Sec. 2  Twp. 7  Rge. 23  Co. Graham  State KS
No. of Copies 6  Distribution Sheet (Y, N)  N  Turnkey (Y, N) N  Evaluation (Y, N)

Interval Tested  3845 - 3872  Initial Str Wt./Lbs. 55,000  Unseated Str Wt./Lbs. 55,000
Anchor Length 27  Wt. Set Lbs. 20,000  Wt. Pulled Loose/Lbs. 55,000
Top Packer Depth 3840  Hole Size — 7 7/8"  Rubber Size — 6 3/4"
Bottom Packer Depth 3845  Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth 3872  Drill Collar — 2.25 Ft. Run 248
Mud Wt. 9.7  LCM  Vis. 45  WL 5  Drill Pipe Size 4 5/8" X 4 1/2"  Ft. Run 3599
Blow Description  F.F. Weak 4" blow — Died in 18 min.

F.F. No blow — Flushed Tool — No help

Recovery — Total Feet 5  Feet Of  Ft. in DC 5  Feet Of  Ft. in WP  Ft. in DP
Rec. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Rec. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Rec. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Rec. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Rec. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
BHT 105  °F Gravity 41  °API D@ 0  °F Corrected Gravity 0  °API
RW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(A) Initial Hydrostatic Mud 2006  PSI  Recorder No. 13754  T-Started 1215
(B) First Initial Flow Pressure 19  PSI  @ (depth) 3848  T-Open 1340
(C) First Final Flow Pressure 19  PSI  Recorder No. 13849  T-Pulled 1450
(D) Initial Shut-in Pressure 29  PSI  Recorder No. 3869  T-Out 1600
(E) Second Initial Flow Pressure 19  PSI  @ (depth)
(F) Second Final Flow Pressure 19  PSI
(G) Final Shut-in Pressure 19  PSI
(H) Final Hydrostatic Mud 1986  PSI

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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

TOTAL PRICE $
**ALLIED CEMENTING CO., INC.**

**REMIT TO:** P.O. BOX 31
**RUSSELL, KANSAS 67665**

**SERVICE POINT:** Russell

**DATE:** 12-20-94  **SEC:** 2  **TWP:** 7S  **RANGE:** 23W  **CALLED OUT:** 4:00am

**LEASE:** Ft. Hays  **WELL #:** 3  **LOCATION:** Hill City 7N 34W 4N

**OLD OR NEW (Circle one):**

**CONTRACTOR:** MAHARD DRILL, INC.
**TYPE OF JOB:** SURFACE

**HOLE SIZE:** 12 1/4"  **T.D.:** 270'  **DEPTH:** 266'
**CASING SIZE:** 8 5/8" 24#  **DEPTH:**
**TUBING SIZE:**
**DRILL PIPE:**
**TOOL:**
**PRES. MAX:** MINIMUM
**MEAS. LINE:** SHOE JOINT

**CEMENT LEFT IN CSG.:** 15'  **16 8/16**
**PERFS.:**

**EQUIPMENT**

**PUMP TRUCK**
**# 177**

**CEMENTER**

**HELPER**

**BULK TRUCK**
**# 282**

**DRIVER**

**BULK TRUCK**

**DRIVER**

**AMOUNT ORDERED:** 180 54 60% 270 GEL

**CEMENT:**

- **COMMON:** 10 @ $1.10 = $110.00
- **POZMIX:** 7 @ $3.15 = $22.05
- **GEL:** 3 @ $9.50 = $28.50
- **CHLORIDE:** 5 @ $28.00 = $140.00

**HANDLING:** @ $10.50 = $187.00

**MILEAGE:** 68m @ 0.4 = $27.20

**TOTAL:** $1,732.20

**REMARKS:** Cement circulated

**CHARGE TO:** NORTHERN LIGHTS OIL & Gas, L.P.
**STREET:** P.O. Box 164
**CITY:** Andover  **STATE:** Kan  **ZIP:** 67002

**FLOTT Equipment**

<table>
<thead>
<tr>
<th>Depth of Job Pump Truck Charge</th>
<th>445.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra Footage</td>
<td></td>
</tr>
<tr>
<td>Plug</td>
<td>45.00</td>
</tr>
</tbody>
</table>

**TOTAL:** $6,492.80