COPY

RELEASED

CONFIDENTIAL

SIDE ONE

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

NOV 13 1990

FROM CONFIDENTIAL

API NO. 15- 135-23,495

County NESS

sw sw nw Sec. 31 Twp. 16S Rge. 21 East X West

3630 Ft. North from Southeast Corner of Section

4620 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Thompson"B" Well # 3

Field Name Unnamed

Producing Formation ------

Elevation: Ground 2348 KB 2356

Total Depth 4381 PBTD --------

Operator: License # 5474

Name: Northern Lights Oil Co., L.P.

Address P.O. Box 164

City/State/Zip Andover, KS 67002

Purchaser: ---

Operator Contact Person: John W. Sutherland Jr.

Phone (316) 733-1515

Contractor: Name: Mallard JV

License: 4958

Wellsite Geologist: Kevin Howard

Designate Type of Completion
____ New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ Temp. Abd.
____ Gas ____ Inj ____ Delayed Comp.
XX Dry ____ Other (Core, Water Supply, etc.)

If OWWO: old well info as follows:
Operator:

Well Name:

Comp. Date ____ Old Total Depth ____

Drilling Method:
XX Mud Rotary ____ Air Rotary ____ Cable

10-23-90 Spud Date
10-30-90 Date Reached TD
10-30-90 Completion Date

5280 4950 4620 4290 3960 3630 3300 2970 2640 2310 1980 1650 1320 990 660 330

Alt II Dfd

Amount of Surface Pipe Set and Cemented at 260.15 Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Jon W. Sutherland Jr.

Title General Partner Date 11-19-90

Subscribed and sworn to before me this 19th day of November, 19 90.

Notary Public

Date Commission Expires 7-3-1993

KURT L. SMITH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-3-1993

K.C.C. OFFICE USE ONLY
F ✓ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ____ Drillers Timelog Received

Distribution
✓ KCC ____ SWD/Rep ____ NGPA
✓ KGS ____ Plug ____ Other (Specify)

NOV 20 1990

Form ACO-1 (7-89)

CONFIDENTIAL SIDE TWO

Operator Name NORTHERN LIGHTS OIL CO., L.L.C. Lease Name Thompson B Well # 3

Sec. 31 Twp. 16S Rge. 21 ☐ East ☒ West County Ness

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.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

(4248-4261) Cherokee
DST #1 20-0-0-0 Off Bottom 18'
Rec. 30' Oil Spkd Mud, 60' Mud,
180' Salt Water
IFP:16-108 FFP--------
ISIP-------- FSIP---------

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	1628	1665
Heebner	3747	
Lansing	3788	
BKC	4054	
Labette Sh	4230	
Cherokee	4252	
Eros. Miss	4340	
RTD	4380	
LTD	4381	

CASING RECORD ☒ New ☐ 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 Perce Additives
Surface	12 ¼	8 5/8	20	260.15	60/40 POZ	170	3%CC2%Gel

PERFORATION RECORD Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First Production	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 ☐ Perforation ☐ Dually Completed ☐ Commingled
☐ Other (Specify)

Production Interval