

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

S

API NO. 15-179-20,878-00-00  
County Sheridan  
NE. NE. SW. Sec. 1 Twp. 7S. Rge. 26 East  
X West

Operator: License # 5474  
Name Northern Lights Oil Co.  
Address 212 N. Market, Suite 400  
City/State/Zip Wichita, Kansas 67202

2310 Ft North from Southeast Corner of Section  
2970 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser Mobil Oil Corporation  
Dallas, Texas

Lease Name Heskett Well # 1  
Field Name Wildcat Huntington, NW  
Producing Formation Base Kansas City

Operator Contact Person John W. Sutherland, Jr  
Phone (316) 263-1008

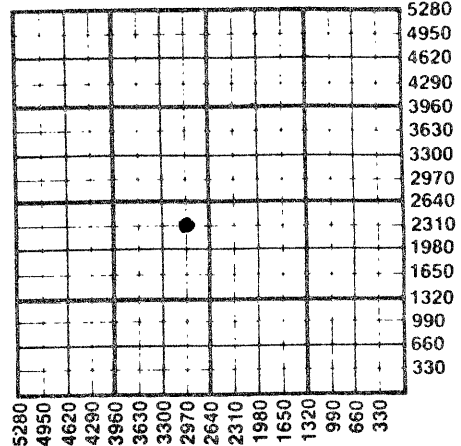
Elevation: Ground 2576 KB 2684

Contractor: License # 4958  
Name J.V. Mallard, Inc.

Wellsite Geologist Kurt L. Smith  
Phone (316) 263-1008

Designate Type of Completion  
X New Well Re-Entry Workover  
X Oil SWD Temp Abd  
Gas Inj Delayed Comp.  
Dry Other (Core, Water Supply etc.)

Section Plat



If OWNO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # Repressuring

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable  
11/29/86 12/5/86 12/5/86  
Spud Date Date Reached TD Completion Date  
3920  
Total Depth PBTD 300ft 307.68  
Amount of Surface Pipe Set and Cemented at feet  
Multiple Stage Cementing Collar Used? Yes X No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated  
from 3920 feet depth to surface 375 SX cmt  
Cement Company Name Allied  
Invoice # 47728

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #  
Groundwater Ft North from Southeast Corner  
(Well) Ft West from Southeast Corner of  
Sec Twp Rge East West  
Surface Water Ft North from Southeast Corner  
(Stream, pond etc) Ft West from Southeast Corner  
Sec Twp Rge East West  
Other (explain)  
(purchased from city, R.W.D. #)

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. 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 John W. Sutherland  
Title General Partner Date 1/19/87

Subscribed and sworn to before me this 9th day of January 1987  
Notary Public Kristy A. Gerstner

Date Commission Expires



K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C [X] Wireline Log Received  
C Drillers Timelog Received  
Distribution  
[X] KCC SWD/Rep NGPA  
[X] KGS Plug Other  
(Specify)

JAN 22 1987 Form ACO-1 (5-86)

CONSERVATION DIVISION  
Wichita, Kansas 1-22-87

Sec. 1 Twp. 7 Rge. 26

Operator Name Northern Lights Oil Co. Lease Name Heskett Well # 1

Sec. 1 Twp. 7S Rge. 26W  East  West County Sheridan

WELL LOG

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample
--	--

	Name	Top	Bottom
DST #1 3658 - 3705	Anhydrite	2191	+393
30 - 30 - 10 -	Heebner	3659	-1072
Weak Blow	Toronto	3680	-1096
Rec: 70' OCM (10% oil)	Lansing	3696	-1112
SIP - 916	B/KC	3900	-1316
FP - 32 - 32/54 - 54			
DST #2 3712 - 3730			
30 - 30 - 30 - 30			
Strong Blow			
Rec: 15' FO			
600' MW, scum oil			
SIP 991 - 969			
FP 86 - 183			
237 - 270			
DST #3 3734 - 3771			
30 - 30 - 30 - 30			
Strong Blow			
Rec: 820 MW, few spks oil			
SIP 980 - 937			
FP 86 - 237			
291 - 356			
DST #4 3833 - 3855			
30 - 30 - 45 - 45			
Weak Blow Bldg to			
Strong in 25"			
Rec: 300 MGO			
(70% O, 10% G, 20% M)			
SIP 1269 - 1269			
FP 32-64/86-129			

CASING RECORD <input 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"	23#	307.68'	60/40 poz	175	3% CC, 2% gel
production	7 7/8"	5 1/2"	14#	3919'	ATL & 60/40 poz	275 100	10 salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used			Depth
2	3848 - 52 ft			250MCA, 1500SGA			3848-52
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production				Producing Method			
1/3/87				<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....			
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	50					35	
	Bbls	MCF	Bbls	CFPB			

**METHOD OF COMPLETION** Production Interval

Disposition of gas:  Vented  Open Hole  Perforation 3848-52  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed .....  
 Commingled .....

DRILLERS' LOG

15-179-20878-00-00

COMPANY: Northern Lights Oil Co. WELL: Heskett #1  
 CONTRACTOR: Mallard Drilling API#: 15-179-20, 878  
 PO Box 905  
 McPherson, Ks., 67460 LOCATION: NE NE SW  
 COMMENCED: November 28, 1986 Sec. 1, Twp. 7S, Rge. 26W  
 COMPLETED: December 5, 1986 COUNTY: Sheridan  
 TOTAL DEPTH: 3920' ELEVATION: 2576'G. L.  
2684'K. B.

\*\*\*\*\*

FORMATION	FROM	TO	
Soil, sand	0'	312'	
Shale	312	1786	
Shale, lime	1786	1810	
Cedar Hills	1810	1974	
Shale	1974	2193	
Anhydrite	2193	2226	
Shale	2226	3500	
Shale, lime	3500	3705	
Lansing, Kansas City	3705	3920	R.T.D.

Cut 12 1/4" hole to 312' and ran 7 jts. 8 5/8" x 23# x 298.18' surface casing. Set at 307.68' and cemented with 175 sacks - 60/40 Poz Mix, 3% Cal. Chl., and 2% gel. Cement did circulate. Plug down at 8:30 p.m. 11/28/86

Ran 123 jts. 5 1/2" x 14# x 3915' casing. Set at 3919' and cemented with 20 bbl. salt flush, 275 sacks A.T.L., and 100 sacks 60/40 Poz Mix with 10% salt. Bumped plug with 1000# at 9:30 p.m. 12/5/86

Ran 4 DST's and logged.

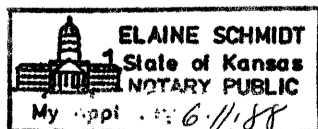
\*\*\*\*\*

STATE OF KANSAS )  
 ) SS:  
 COUNTY OF McPHERSON)

I, BRYAN HESS of MALLARD DRILLING, do hereby certify that this is a true and correct copy of the log of the Heskett #1 well as reflected by the files of Mallard Drilling.

*Bryan Hess*  
 Bryan Hess, Gen. Mgr.

Subscribed and sworn to before me this 16th day of December, 1986.



*Elaine Schmidt*  
 Notary Public

STATE CORPORATION COMMISSION

JAN 22 1987

1-22-87

CONSERVATION DIVISION  
Wichita, Kansas

Copies mailed to KCC

SIDE ONE

Corrective

200-00

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

S

API No. 15-179-20,878

County... Sheridan

NE. NE. SW. .... Sec. 1... Twp. 7S... Rge. 26...  East  West

2310 Ft North from Southeast Corner of Section  
2970 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name... Heskett... Well #... 1...

Field Name... Wildcat Huntington, NW

Producing Formation... Lsg. Kansas City I zone

Elevation: Ground... 2576... KB... 2684

Operator: License # 5474  
Name Northern Lights Oil Co.  
Address 212 N. Market, Suite 400  
City/State/Zip Wichita, Kansas, 67202

Purchaser Mobil Oil Corporation  
Dallas, Texas

Operator Contact Person John W. Sutherland, Jr  
Phone (316) 263-1008

Contractor: License # 4958  
Name J.V. Mallard, Inc.

Wellsite Geologist Kurt L. Smith  
Phone (316) 263-1008

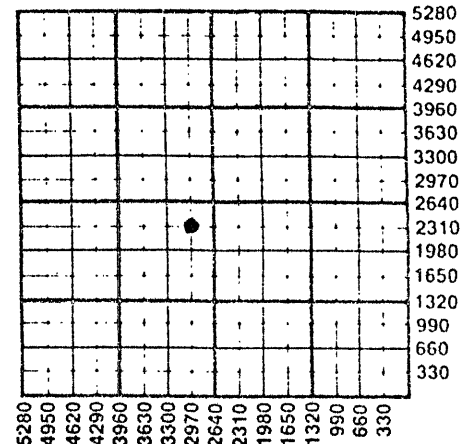
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If ~~OWN~~ old well, info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
11/29/86 12/5/86 12/5/86  
Spud Date Date Reached TD Completion Date  
3920  
Total Depth PBTD 300ft 307.68  
Amount of Surface Pipe Set and Cemented at...feet  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set...feet  
If alternate 2 completion, cement circulated from...feet depth to... surface, 375 cmt  
Cement Company Name Allied  
Invoice # 47728

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket #  Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #

Groundwater...Ft North from Southeast Corner (Well) ...Ft West from Southeast Corner of Sec Twp Rge East West

Surface Water...Ft North from Southeast Corner (Stream, pond etc)...Ft West from Southeast Corner Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D. #)

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. 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 John W. Sutherland  
Title General Partner Date 1/9/87

Subscribed and sworn to before me this 9th day of January 1987.  
Notary Public Kristy A. Gerstner

Date Commission Expires



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)

STATE CORPORATION COMMISSION Form ACO-1 (5-86)

FEB 6 1987 2-6-87

CONSERVATION DIVISION  
Wichita, Kansas

Sec. 1, Twp. 7, Rge. 26

Operator Name Northern Lights Oil Co. Lease Name Heskett Well # 1

Sec. 1 Twp. 7S Rge. 26W  East  West County Sheridan

WELL LOG

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  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

DST #1 3658 - 3705 30 - 30 - 10 - Weak Blow Rec: 70' OCM (10% oil) SIP - 916 FP - 32 - 32/54 - 54	DST #3 3734 -3771 30 - 30 - 30 - 30 Strong Blow Rec: 820 MW, few spks oil SIP 980 - 937 FP 86 - 237 291 - 356
DST #2 3712 - 3730 30 - 30 - 30 - 30 Strong Blow Rec: 15' FO 600' MW, scum oil SIP 991 - 969 FP 86 - 183 237 - 270	DST #4 3833 - 3855 30 - 30 - 45 - 45 Weak Blow Bldg to Strong in 25" Rec: 300 MGO (70% O, 10% G, 20% M) SIP 1269 - 1269 FP 32-64/86-129

Name	Top	Bottom
Anhydrite	2191	+393
Heebner	3659	-1072
Toronto	3680	-1096
Lansing	3696	-1112
B/KC	3900	-1316

CASING RECORD <input 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 production	12 1/4"	8 5/8"	23#	307.68'	60/40 poz	175	3% CC, 2% gel 10 salt
	7 7/8"	5 1/2"	14#	3919'	ATL &	275	
					60/40 poz	100	
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
2	3848 - 52 ft			250MCA, 1500SGA			3848-52
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
1/3/87		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	50 Bbls	MCF	Bbls	CFPB		35	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Sold  Used on Lease  
 Open Hole  Perforation  Other (Specify) .....  
 Dually Completed  Commingled

3848-52