

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

ORIGINAL

API NO. 15- 135-23,651-00-00

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: John Sutherland, Jr.

Phone (316) 733-1515

Contractor: Name: Mallard JV

License: 4958

Wellsite Geologist: Kurt L. Smith

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, MSW, 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 PBD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

2-10-92 2-17-92 2-17-92

Spud Date Date Reached TD Completion Date

County NESS

110'E nw se-ne Sec. 6 Twp. 17S Rge 22 XX

1650 Feet from S/N (circle one) Line of Section

880 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(NE) SE, NW or SW (circle one)

Lease Name Higgins Well # 1-6

Field Name Unnamed

Producing Formation LKC

Elevation: Ground 2355 KB 2363

Total Depth 4450 PBD ---

Amount of Surface Pipe Set and Cemented at 254 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.

Drilling Fluid Management Plan ACT II DSA
(Data must be collected from the Reserve Pit)

RECEIVED de content 4000 ppm Fluid volume 6000 bbls
STATE CORPORATION COMMISSION Dewatering method used Evaporation

MAR 3 1992
3-3-92
CONSERVATION DIVISION
Wichita, Kansas
Location of fluid disposal if hauled offsite: _____

Operator Name _____
Wichita, Kansas

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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 [Signature]

Title General Partner Date 2-20-92

Subscribed and sworn to before me this 20th day of FEBRUARY, 19 92.

Notary Public [Signature]

Date Commission Expires 7-3-93

KURT L. SMITH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-3-93

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name NORTHERN LIGHTS OIL CO., L.P. Lease Name HIGGINS Well # 1-6

East County ness

Sec. 6 Twp. 17S Rge. 22W West

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.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input 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	Anhy	1672	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heeb	3760	
List All E.Logs Run: <u>CD/N Dual Induction</u>		LKC	3798	
		Ft Scott	4274	
		Cher	4293	
		A-Snd	4295	
		Miss	4378	

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	254	60/40	155	2%G 3%CC

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 (Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, (SWD or Inj.)	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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-135-23651-00-00

ORIGINAL

Drill-Stem Test Data

Well Name HIGGINS #1-6 Test No. 1 Date 2/16/92
Company NORTHERN LIGHTS OIL CO Zone Tested CHEROKEE
Address P.O. BOX 164 ANDOVER KS 67002 Elevation 2363 K.B.
Co. Rep./Geo. MR KURT SMITH Cont. MALLARD #1 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 17S Rge. 22W Co. NESS State KS

Interval Tested 4285-4298 Drill Pipe Size 4.5 XH
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4280 Drill Collar - 2.25 Ft. Run 301
Bottom Packer Depth 4285
Total Depth 4298

Mud Wt. 9.6 lb / gal. Viscosity 43 Filtrate 6

Tool Open @ N/A/ Initial Blow HIT BRIDGE 10 STANDS OFF BOTTOM-LOST CIRCULATION
Final Blow MISRUN

Recovery - Total Feet _____ Flush Tool? _____

Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. 13 Feet of _____
BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RECEIVED
STATE CORPORATION COMMISSION

MAR - 3 1992

CONSERVATION DIVISION
Wichita, Kansas

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2155.8 PSI Ak1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure _____ PSI @ (depth) 4289 w/Clock No. 8179
(C) First Final Flow Pressure _____ PSI AK1 Recorder No. 13849 Range 4375
(D) Initial Shut-in Pressure _____ PSI @ (depth) 4294 w/Clock No. 26199
(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-in Pressure _____ PSI Initial Opening _____ Final Flow _____
(H) Final Hydrostatic Mud 2155.8 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative DAN BANGLE TOTAL PRICE \$ 650

TRILOBITE TESTING COMPANY, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-135-23651-00-00

ORIGINAL

Drill-Stem Test Data

Well Name HIGGINS #1-6 Test No. 2 Date 2/16/92
Company NORTHERN LIGHTS OIL CO Zone Tested CHEROKEE
Address P.O. BOX 164 ANDOVER KS 67002 Elevation 2363 K.B.
Co. Rep./Geo. MR KURT SMITH Cont. MALLARD #1 Est. Ft. of Pay _____
Location: Sec. 6 Twp. 17S Rge. 22W Co. NESS state KS

Interval Tested 4351-4378
Anchor Length 27
Top Packer Depth 4346
Bottom Packer Depth 4351
Total Depth 4378

Drill Pipe Size 4.5 XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 301

Mud Wt. 9.3 lb / gal. Viscosity 48 Filtrate 6

Tool Open @ 4:30 PM Initial Blow WEAK-1/2" STEADY BLOW

Final Blow NO BLOW

Recovery - Total Feet 3 Flush Tool? NO

Rec. 3 Feet of DRILLING MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2210.6 PSI Ak1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 61.2 PSI @ (depth) 4355 w/Clock No. 8179

(C) First Final Flow Pressure 61.2 PSI Ak1 Recorder No. 13849 Range 4375

(D) Initial Shut-In Pressure 61.2 PSI @ (depth) 4374 w/Clock No. 26199

(E) Second Initial Flow Pressure 61.2 PSI Ak1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 61.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 61.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2160.7 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLR

TOTAL PRICE \$ 800



15-135-23651-0000

ORIGINAL

REMITTANCE ADVICE

INVOICE DATE
02/17/92

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: B.J. SERVICES P.O. BOX 297476 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 627868
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AUTHORIZED BY 627868

PURCH. ORDER REF. NO.

NORTHERN LIGHTS OIL COMPANY

BOX 164
ANDOVER KS 67002

WELL NUMBER : 1-6 CUSTOMER NUMBER : 2585 - 0

LEASE NAME AND NUMBER TIGGINS	STATE 15	COUNTY/PARISH 1551	CITY	DISTRICT NAME HAYES	DISTR. NO. 583
JOB LOCATION/FIELD DA	MTA DISTRICT		DATE OF JOB 02/17/92	TYPE OF SERVICE LAND-PLUG AND ABANDON	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10102102	1.00	CEMENTING THRU TUBING 0 TO 300 FEE	474.00		474.00
10109005	18.00	MILEAGE CHRG, FROM NEAREST BASE OF	2.47		44.46
10410504	141.00	CLASS "A" CEMENT	5.74	CF	805.34
10415016	94.00	FLY ASH	3.16	CFT	297.04
10420145	1200.00	BJ-TITAN GEL, BENTONITE, BULK SALE	0.15	LB	180.00
10430539	1.00	Ø 5/8" TOP HOLE (SURFACE) PLUG	12.00	EA	12.00
10880001	255.00	MIXING SERVICE CHRG DRY MATERIALS,	1.16		295.80
10940101	192.60	DRAYAGE, PER TON MILE	0.79		152.15

RECEIVED
STATE CORPORATION COMMISSION
DISCOUNT 2,264.79
747.37
MAR - 3 1992
3,517.42
CONSERVATION DIVISION
Wichita, Kansas 64.50

ACCOUNT	4.2500% KANSAS	TOTAL	1,581.92
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*FOR CEMENT SERVICES
PLUGGING*

TAX EXEMPTION STATUS:	PAY THIS AMOUNT	1,581.92
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