

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

Operator: License # 3248
Name Masters Operating Company
Address P. O. Box 3356
City/State/Zip Wichita, KS 67201

Purchaser Koch Oil Company
P. O. Box 2256, Wichita, KS 67201

Operator Contact Person Bob Stolzle
Phone 316 945-9123

Contractor: License # 5929
Name Duke Drilling Company, Inc.

Wellsite Geologist Bob Stolzle
Phone 316 945-9123

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)

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

WELL HISTORY

Drilling Method:
X Mud Rotary Air Rotary Cable

.12-9-87... ..12-17-87... ..3/23/88...
Spud Date Date Reached TD Completion Date
3840
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 302 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set...feet
If alternate 2 completion, cement circulated
from...feet depth to...w/...SX cmt
Cement Company Name
Invoice #

API NO. 15-185-22,484-0000
County Stafford
NE SE SE Sec 29 Twp 21 Rge 14 East
990 Ft North from Southeast Corner of Section
330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

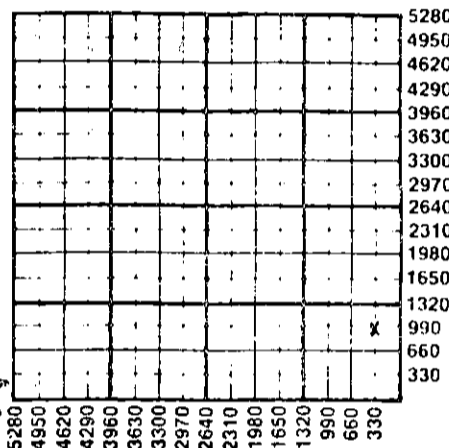
Lease Name 7-8 Lincoln Well # 1

Field Name Lincoln

Producing Formation Kansas City

Elevation: Ground 1942 KB 1947

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: Drilled water well
Division of Water Resources Permit # 187-548

X Groundwater 990 Ft North from Southeast Corner
(Well) 330 Ft West from Southeast Corner of
Sec 29 Twp 21 Rge 14 East X 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 Wayne Merchant
Title Geologist Date 9/23/88

Subscribed and sworn to before me this 23rd day of September 1988.
Notary Public Sally R. Byers
Date Commission Expires 12/6/88



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)
9-26-88

CONSERVATION DIVISION
Wichita, Kansas

RECEIVED
STATE CORPORATION COMMISSION
SEP 26 1988
CONSERVATION DIVISION
Wichita, Kansas
9-26-1988

Sec 29 Twp 21 Rge 14

Operator Name Masters Operating Company Lease Name..... 7-8 Lincoln Well #..... 1

Sec. 29 Twp. 21 Rge. 14 East West County..... Stafford

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 type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample
--	--

DST #1 3560-3577
 15 30 120 120
 Recovered 370' GCWO
 IFP 76# IBHP 894#
 FFP 123# FBHP 896#

SEE ATTACHED

Name	Top	Bottom
Anhydrite	862	887
Heebner	3294	
Toronton	3324	
Douglas	3340	
Br. Lime	3412	
Kansas City	3422	
Base K.C.	3650	
Viola	3694	
Simpson Shale	3737	
Simpson Shale	3760	
Arbuckle	3798	
RTD	3840	

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"	20	302'	60/40 Pozmix	195	2% gel, 3% C.C.
Production	7 7/8"	4 1/2"	9 1/2	3839'	60/40 Pozmix	175	2% gel, 7 1/2% salt per sack, w/10 bbls. salt flush ahead of cement
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
4 shots	3801-03			Acidized w/200 gal. 15%		3803'	
8	3768-72			Acidized w/250 gal. 15%		3772'	
8	3566-70					3570'	
8	3548-50			Acidized w/750 gal. 15%		3550'	
TUBING RECORD Size 2-3/8"		Set At 3800'	Packer at 3820'	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production 3-17-88		Producing Method <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 18 oil bbls	Gas MCF	Water 118 Bbls	Gas-Oil Ratio 'CFPB	Gravity 27.4	

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3548'-3772'
 Used on Lease Dually Completed
 Commingled

TRILOBITE TESTING COMPANY

15-185.22484.0000

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 1 Date 12-13-87
Company Masters Operating Company Zone Tested LKC 'I'
Address P.O. Box 3356 Wichita, Ks. 67202 Elevation 1947
Co. Rep./Geo. Bob Stolzie cont. Duke #1 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State Ks.

Interval Tested 3560 - 3577 Drill Pipe Size 4 1/2" FH
Anchor Length 17 Top Choke — 1" _____
Top Packer Depth 3555 Bottom Choke — 3/4" _____
Bottom Packer Depth 3560 Hole Size — 7/8" _____
Total Depth 3577 Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____ Ft. Run 941
Drill Collar — 2.25 _____ Ft. Run _____
Mud Wt. 9.8 lb./gal. Viscosity 45 Filtrate 12
Tool Open @ 1" 51 p.m. Initial Blow 1 1/2" blow building to bottom of bucket in 4 minutes
2" blowback on shut-in
Final Blow 2" blow building to bottom of bucket in 2 minutes

RECEIVED
STATE CORPORATION COMMISSION
DEC 20 1988
CONSERVATION DIVISION
Wichita, Kansas

Recovery — Total Feet 370 Flush Tool? _____
Rec. 1230 Feet of gas in pipe
Rec. 250 Feet of gassy oil 25% gas, 75% oil
Rec. 120 Feet of oil cut watery mud 5% oil, 35% water, 60% mud
Rec. _____ Feet of _____
Rec. _____ Feet of _____
BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity 18 est °API
RW 125 @ 60 °F Chlorides 80,000 ppm Recovery Chlorides 54,000 ppm System
(A) Initial Hydrostatic Mud 1922.8 PSI AK1 Recorder No. 13337 Range 3975
(B) First Initial Flow Pressure 76.9 PSI @ (depth) 3576 w/Clock No. 27585
(C) First Final Flow Pressure 68.6 PSI AK1 Recorder No. 13339 Range 4000
(D) Initial Shut-In Pressure 735.4 PSI @ (depth) 3571 w/Clock No. 25810
(E) Second Initial Flow Pressure 123.7 PSI Initial Opening 15
(F) Second Final Flow Pressure 197.5 PSI Initial Shut-In 30
(G) Final Shut-In Pressure 768.5 PSI Final Flow 120
(H) Final Hydrostatic Mud 1870.7 PSI Final Shut-In 120

Our Representative Paul Simpson TOTAL PRICE \$ 400.00
Printcraft Printers - Hays, KS

TRILOBITE TESTING COMPANY

P.O. BOX 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. 7-8 Lincoln #1 Test No. 2 Date 12-14-87
Company Masters Operating Co. Zone Tested LKC 'K'
Address P.O. Box 3356 Wichita, Ks. 67202 Elevation 1947 KB
Co. Rep./Geo. Bob Stolzle Cont. Duke #1 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 21s Rge. 14w Co. Stafford State Ks.

Interval Tested 3600 - 3627 Drill Pipe Size 4 1/2" FH
Anchor Length 27 Top Choke -1"
Top Packer Depth 3595 Bottom Choke -3/4"
Bottom Packer Depth 3600 Hole Size -7/8"
Total Depth 3627 Rubber Size -6 3/4"
Wt. Pipe I.D. -2.7 Ft. Run 941
Drill Collar -2.25 Ft. Run _____
Mud Wt. 9.6 lb./gal. Viscosity 47 Filtrate 12.4

Tool Open @ 6:50 a.m. Initial Blow 1" blow building to bottom of bucket in 6 minutes

Final Blow Very weak surface blow building to bottom of bucket in 11 minutes

Recovery - Total Feet 1020 Flush Tool? _____

Rec. 120 Feet of oil cut mud 50% oil, 50% mud
Rec. 180 Feet of gassy oil cut watery mud 10% gas, 35% oil, 10% water, 4
Rec. 240 Feet of gassy oil cut water 10% gas, 10% oil 80% water
Rec. 480 Feet of gassy oil specked water
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .164 @ 66.3 °F Chlorides 50,000 ppm Recovery Chlorides 51,000 ppm System

(A) Initial Hydrostatic Mud 1933.8 PSI AK1 Recorder No. 13337 Range 3975
(B) First Initial Flow Pressure 74.8 PSI @ (depth) 3626 w/Clock No. 27585
(C) First Final Flow Pressure 186.1 PSI AK1 Recorder No. 13339 Range 4000
(D) Initial Shut-In Pressure 885.7 PSI @ (depth) 3621 w/Clock No. 25810
(E) Second Initial Flow Pressure 255.7 PSI Initial Opening 30
(F) Second Final Flow Pressure 476.1 PSI Initial Shut-In 60
(G) Final Shut-In Pressure 863.7 PSI Final Flow 60
(H) Final Hydrostatic Mud 1832.6 PSI Final Shut-In 120

Our Representative Paul Simpson TOTAL PRICE \$ 400.00

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	7-8 Lincoln #1	Test No.	3	Date	12/15/87				
Company	Masters Operating Company	Zone Tested	Simpson Sand						
Address	P.O. Box 3356 Wichita, KS 67202	Elevation	1947 K.B.						
Co. Rep./Geo.	Bob Stolzle	cont.	Duke #1	Est. Ft. of Pay					
Location: Sec.	29	Twp.	21s	Rge.	14w	Co.	Stafford	state	KS

Interval Tested	3755-3777	Drill Pipe Size	4 1/2" F.H.		
Anchor Length	22	Top Choke	1"		
Top Packer Depth	3750	Bottom Choke	3/4"		
Bottom Packer Depth	3755	Hole Size	7 7/8"		
Total Depth	3777	Rubber Size	6 3/4"		
Wt. Pipe I.D. - 2.7		Ft. Run	941		
Drill Collar - 2.25		Ft. Run			
Mud Wt.	9.7 lb./gal.	Viscosity	43	Filtrate	10.8
Tool Open @	8:46 A.M.	Initial Blow	1" blow building to 5"		

Final Blow no blow- flush tool- no blow after surge flushed again- surged tool & lost 20 of mud 2" blow decreasing & died.

Recovery - Total Feet	130	Flush Tool?	2nd open
Rec.	130	Feet of	slightly oil cut mud less than 5% oil 95% mud.
Rec.		Feet of	
Rec.		Feet of	
Rec.		Feet of	
Rec.		Feet of	

BHT		°F	Gravity		°API @		°F	Corrected Gravity		°API		
RW		@		°F	Chlorides		ppm	Recovery	Chlorides		ppm	System
(A) Initial Hydrostatic Mud	2050.4	PSI	AK1 Recorder No.	13337	Range:	3975						
(B) First Initial Flow Pressure	32.2	PSI	@ (depth)	3776	w/Clock No.	27585						
(C) First Final Flow Pressure	54.4	PSI	AK1 Recorder No.	13339	Range	4000						
(D) Initial Shut-In Pressure	54.4	PSI	@ (depth)	3771	w/Clock No.	25810						
(E) Second Initial Flow Pressure	70	PSI	Initial Opening	30								
(F) Second Final Flow Pressure	70	PSI	Initial Shut-In	60								
(G) Final Shut-In Pressure	70	PSI	Final Flow	60								
(H) Final Hydrostatic Mud	2023.4	PSI	Final Shut-In	60								

Our Representative Paul Simpson TOTAL PRICE \$ 400

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	7-8 Lincoln #1	Test No.	4	Date	12-15-87				
Company	Masters Operating Company	Zone Tested	Arbuckle						
Address	P.O. Box 3356 Wichita, Ks. 67202	Elevation	1947 KB						
Co. Rep./Geo.	Bob Stolzle	Cont.	Duke #1	Est. Ft. of Pay					
Location: Sec.	29	Twp.	21s	Rge.	14w	Co.	Stafford	State	Ks.

Interval Tested	3773 - 3810	Drill Pipe Size	4 1/2" FH			
Anchor Length	37	Top Choke	1"			
Top Packer Depth	3768	Bottom Choke	3/4"			
Bottom Packer Depth	3773	Hole Size	7 7/8"			
Total Depth	3810	Rubber Size	6 3/4"			
Wt. Pipe I.D. — 2.7		Ft. Run	941			
Drill Collar — 2.25		Ft. Run				
Mud Wt.	9.6	lb./gal.	Viscosity	42	Filtrate	11
Tool Open @	10:54 p.m.	Initial Blow	Sled tool 5' when opening 3" blow building to 6 1/2"			
Final Blow	surface blow building to 5 1/2"					

Recovery — Total Feet	320	Flush Tool?										
Rec.	20	Feet of	Heavily oil cut watery mud 45% oil, 5% water, 50% mud									
Rec.	180	Feet of	Slightly oil cut watery mud 5% oil, 30% water, 65% mud									
Rec.	120	Feet of	oil specked muddy water 80% water, 20% mud									
Rec.		Feet of										
Rec.		Feet of										
BHT	122	°F	Gravity		°API @		°F	Corrected Gravity		°AP		
RW	.219	@	46	°F	Chlorides	55,000	ppm	Recovery	Chlorides	54,000	ppm	System
(A) Initial Hydrostatic Mud		PSI	AK1 Recorder No.	13337	Range	3975						
(B) First Initial Flow Pressure	70	PSI	@ (depth)	3809	w/Clock No.	27585						
(C) First Final Flow Pressure	82.3	PSI	AK1 Recorder No.	13339	Range	4000						
(D) Initial Shut-in Pressure	1223.6	PSI	@ (depth)	3804	w/Clock No.	25810						
(E) Second Initial Flow Pressure	108	PSI	Initial Opening	30								
(F) Second Final Flow Pressure	180.5	PSI	Initial Shut-in	60								
(G) Final Shut-in Pressure	1256.7	PSI	Final Flow	90								
(H) Final Hydrostatic Mud	1980	PSI	Final Shut-in	90								

Our Representative Paul Simpson

TOTAL PRICE..... \$ 400.00

Printcraft Printers • Hays, KS

TRILOBITE TESTING COMPANY

P. O. Box 362 • Hays, Kansas 67601

TEST TICKET

No 984

Well Name & No. D-8 Lincoln #1 Test No. 4 Date 12/15/87
Company Meaders Operating Company Zone Tested Arbuckle
Address P.O. Box 3356 Wichita KS 67207 Elevation 1947 KB
Co. Rep./Geo. Bob Stolzle cont. Duke #1 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 21S Rge. 14W Co. Stafford state KS

Interval Tested 3773-3810 Drill Pipe Size 4 1/2 FH
Anchor Length 37 Top Choke — 1" _____
Top Packer Depth 3768 Bottom Choke — 3/4" _____
Bottom Packer Depth 3773 Hole Size — 7 7/8" _____
Total Depth 3810 Rubber Size — 6 3/4" _____
Wt. Pipe I.D. — 2.7 _____ Ft. Run 941
Drill Collar — 2.25 _____ Ft. Run _____
Mud Wt. 96 lb./gal. Viscosity 42 Filtrate 11
Tool Open @ 10:54 P.M. Initial Blow solid tool 5' when opening 3" blow building to 6 1/2"
Final Blow Surface blow building to 5' 2"

Recovery — Total Feet 320 Flush Tool? _____
Rec. 20 Feet of HOCWM 45 oil 5H₂O 50 mud
Rec. 180 Feet of SOCWM 50% oil 30 H₂O 65% mud
Rec. 120 Feet of oil speckled muddy H₂O 80% H₂O 20% mud
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 1219 @ 46 °F Chlorides 55,000 ppm Recovery Chlorides 54,000 ppm System
(A) Initial Hydrostatic Mud 1993 PSI AK1 Recorder No. 13337 Range 3775
(B) First Initial Flow Pressure 73 PSI @ (depth) 3809 w/Clock No. 27585
(C) First Final Flow Pressure 83 PSI AK1 Recorder No. 13339 Range 4000
(D) Initial Shut-In Pressure 1221 PSI @ (depth) 3804 w/Clock No. 25810
(E) Second Initial Flow Pressure 104 PSI Initial Opening 30
(F) Second Final Flow Pressure 177 PSI Initial Shut-In 60
(G) Final Shut-In Pressure 1251 PSI Final Flow 90
(H) Final Hydrostatic Mud 1983 PSI Final Shut-In 90

Approved by Robert Stolzle Test \$ 400
Our Representative Paul Simpson Extra Equip
Extra Equip
TOTAL PRICE \$ 400
Printcraft Printers • Hays, KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	7-8 Lincoln #1	Test No.	5	Date	11/17/87				
Company	Masters Operating Company	Zone Tested	LKC "H,I,J,K"						
Address	P.O. Box 3356 Wichita, KS 67202	Elevation	1947						
Co. Rep./Geo.	Bob Stolzle	Cont.	Duke #1	Est. Ft. of Pay					
Location: Sec.	29	Twp.	21s	Rge.	14w	Co.	Stafford	State	KS

Interval Tested	3534-3630 (Straddle)	Drill Pipe Size	4 1/2" F.H.		
Anchor Length	96	Top Choke	— 1"		
Top Packer Depth	3529-3534	Bottom Choke	— 3/4"		
Bottom Packer Depth	3630	Hole Size	— 7 7/8"		
Total Depth	3840	Rubber Size	— 6 3/4"		
Wt. Pipe I.D. — 2.7		Ft. Run	680		
Drill Collar — 2.25		Ft. Run			
Mud Wt.	9.8 lb./gal.	Viscosity	45	Filtrate	8.0
Tool Open @	3:12 A.M.	Initial Blow	Strong blow built to 18" in 2 minutes		
	ISI: bled off blow no return				
Final Blow	Fair to strong built to 18" in 7 minutes				

Recovery — Total Feet	1640	Flush Tool?							
Rec.	400	Feet of	Gassy oily water cut mud — (32% gas 8% oil 10% water)						
Rec.	560	Feet of	Gassy mud & oil cut water (20% gas 2% oil 58% water 20% ^m)						
Rec.	680	Feet of	Salt water						
Rec.		Feet of							
Rec.		Feet of							
BHT	115 °F	Gravity		°API @		°F	Corrected Gravity		°API
RW	.14 @ 70 °F	Chlorides	54,000 ppm	Recovery	Chlorides	50,000 ppm	System		
(A) Initial Hydrostatic Mud	1910.7	PSI	AK1 Recorder No.	13615	Range	4575			
(B) First Initial Flow Pressure	224.6	PSI	@ (depth)	3621	w/Clock No.	3942			
(C) First Final Flow Pressure	550	PSI	AK1 Recorder No.	11074	Range	6650			
(D) Initial Shut-In Pressure	879.4	PSI	@ (depth)	3626	w/Clock No.	20272			
(E) Second Initial Flow Pressure	610.5	PSI	Initial Opening	30					
(F) Second Final Flow Pressure	820	PSI	Initial Shut-In	60					
(G) Final Shut-In Pressure	879.4	PSI	Final Flow	180					
(H) Final Hydrostatic Mud	1897.5	PSI	Final Shut-In	60					

Our Representative Rod Steinbrink

TOTAL PRICE \$ 650

TRILOBITE TESTING COMPANY

P. O. Box 362 • Hays, Kansas 67601

No. 860

TEST TICKET

Well Name & No. 7-8 Lincoln #1 Test No. 5 Date 11-17-87
Company Masters Operating Company zone Tested (L-KC) H.I.T. & K
Address P.O. Box 3356 Wichita, KS. 67202 Elevation 1947 KB.
Co. Rep./Geo. Bob Stolze cont. Duke Drlg #1 Est. Ft. of Pay _____
Location; Sec. 29 Twp. 21 S Rge. 14 W Co. Stafford state KS.

Interval Tested 3534 - 3630 Drill Pipe Size 4 1/2" FH.
Anchor Length 96' Top Choke — 1"
Top Packer Depth 3529 - 3534 Bottom Choke — 3/4"
Bottom Packer Depth 3630 Hole Size — 7/8"
Total Depth 3840 Rubber Size — 6 3/4"
Wt. Pipe I.D. — 2.7 Ft. Run 680'
Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.8 lb./gal. Viscosity 45 Filtrate 8.0
Tool Open @ 3:12 AM. Initial Blow Strong blow to 18" in 2 mins
TSI: Bled off blow - no return.
Final Blow Fair to strong blow built to 18" in 7 mins.

Recovery — Total Feet 1640' Flush Tool? no.
Rec. 400' Feet of GOWCM (32% gas 8% oil 10% water 50% mud)
Rec. 560' Feet of G MOCW (20% gas 2% oil 58% water 20% mud)
Rec. 680' Feet of Salt Water
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 115° °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW .14 @ 70° °F Chlorides 54,000 ppm Recovery Chlorides 50,000 ppm System

(A) Initial Hydrostatic Mud 1900 PSI AK1 Recorder No. 13615 Range 4575
(B) First Initial Flow Pressure 227 PSI @ (depth) 3621 w/Clock No. 3942
(C) First Final Flow Pressure 565 PSI AK1 Recorder No. 11074 Range 6650
(D) Initial Shut-In Pressure 876 PSI @ (depth) 3626 w/Clock No. 20272
(E) Second Initial Flow Pressure 600 PSI Initial Opening 60 AK-1 13850 R 4325
(F) Second Final Flow Pressure 819 PSI Initial Shut-In 60 @ depth 3835 Clock 27566
(G) Final Shut-In Pressure 876 PSI Final Flow 180
(H) Final Hydrostatic Mud 1865 PSI Final Shut-In 60

Approved by Bob Stolze Test \$ 400.00
Extra Equip
Straddle
Extra Equip 250.00
Our Representative Rod Steinbrink TOTAL PRICE \$ 650.00

MASTERS OPERATING COMPANY

RELEASED

Date: FEB 1 1989

FROM CONFIDENTIAL

DAILY DRILLING REPORT

STATE OF KANSAS
DEPARTMENT OF REVENUE
DIVISION OF OIL AND GAS

7-8 Lincoln #1

JAN 14 1988

NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$
Sec. 29 T 21 S-R 14 W
Stafford County, Kansas
Lincoln Field

CONSERVATION DIVISION
Wichita, Kansas

December 1987

Elevation: Ground 1942 ft.
K.B. 1947 ft.

Date:

- 9 Move in, rig up Duke Drlg. Rig #1
- 10 Drlg. at 1087', set 17 jts. 8 5/8" surf. csg. (302')
Anhydrite 865-887'
- 11 Drlg. at 2377'
- 12 Drlg. at 2950' begin mud up at 3000'
- 13 Circ. smpls. at 3577' LKC "I" zone. MW 9.8 Vis. 37, Chl. 54,000
W. L. 12.8 Heebner 3294'(-1347') Lansing 3422'(-1475')
- 14 Run DST #2 3600-27 LKC "K" zone. MW 9.6, Vis. 42, W.L. 12.4
DST #1 3560-77 LKC "I" Times 15-30-120-120. Rec: 1230' Gas,
250' GCO, 120' OCWM.
- 15 Run DST #3 3755-77 Simpson Sd. MW 9.7, Vis. 43, W.L. 10.8
BKC 3650(-1703), PBC 3682'(-1735'), Viola 3692'(-1747'),
Simpson 3737'(-1790'), Simpson Sd. 3760'(-1813)
DST #2 3600-27 LKC "K" zone: Times 30-60-60-120. Rec: 120'
OCM. 180' G&OCWM, 240' G&OCW, 480' G&OSW.
- 16 Circ. & cond. mud, TD 3840 Arbuckle fm., prep. to log.
MW 9.7, Vis. 41, W.L. 10.8. Arbuckle 3798'(-1851').
DST #3 Simpson Sd. 3755-77' Times: 30-60-60-60 Rec: 130' SOCM.
DST #4 Arbuckle 3773-3810' Times: 30-60-90-90 Rec: 20' HOCWM,
180' SOCM, 120' OSMW.
- 17 Run DST #5 straddle LKC "H-K" zones. Schlumberger Dual Later-
log and Comp. Neutron-Density logs indicated potential pay
zones in LKC "H-K" and 3' pay in Arbuckle.
DST #5 3534'-3630' LKC "H-K" zones. Times: 30-60-180-60
Rec: 400' G&OCWM, 560' G&OCMW, 680' SW.

Operations were turned over to Duke Drilling at 2:30 P.M. 12/17/87
on a checkerboard farmout, for them to make a completion attempt.
3840' of 4 1/2" casing was run to T.D.

KANSAS DEPT. OF REVENUE

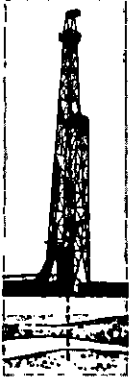
JAN 21 1988

P.O. BOX 782260
WICHITA, KANSAS 67278
(316) 733-2237

RELEASED

FEB 15 1989

FROM CONFIDENTIAL



15.185.22484.0000

DUKE DRILLING CO., INC.

CONTRACT DRILLING

OIL FIELD HAULING

P.O. Box 623
Great Bend, KS 67530
(316) 793-8366

310 West Central, Suite 117
Wichita, KS 67202
(316) 267-1331

September 23, 1988

STATE CORPORATION COMMISSION
200 Colorado Derby Building
Wichita, Kansas 67202

RE: Lincoln #1
29-21S-14W
Stafford County, Kansas.

Gentlemen:

Please find enclosed ACO-1 Form on the referenced Lincoln #1 well in Stafford County.

This well was sold to Duke Drilling for completion and has since been sold to:

MOHAWK Petroleum
P. O. Box 2082
Hutchinson, Kansas 67504

Yours very truly,

DUKE DRILLING CO., INC.

[Mrs.] Sally R. Byers
Office Manager - Wichita

Enclosure.

RECEIVED
STATE CORPORATION COMMISSION

SEP 26 1988

CONSERVATION DIVISION
Wichita, Kansas

DRILLER'S WELL LOG

DATE COMMENCED: December 9, 1987
 DATE COMPLETED: December 17, 1987

Masters Operating Company
 7-8 Lincoln #1
 NE SE SE
 Sec. 29-T21S-R14W
 Stafford County, KS.

0 - 862' Surf. Soil, Sand, Red Bed
 862 - 887' Anhydrite
 887 - 3294' Shale, Lime
 3294 - 3295' Shale
 3295 - 3340' Lime
 3340 - 3412' Shale
 3412 - 3422' Lime & Shale
 3422 - 3650' Lime
 3650 - 3694' Shale, Lime
 3694 - 3737' Chert, lime
 3737 - 3760' Shale
 3760 - 3798' Sand
 3798 - 3840' Dolomite
 3840' RTD

ELEVATION: 1947K.B.

Formation Data:

Anhydrite	862-887
Heebner	3294
Toronto	3324
Douglas	3340
Br. Lime	3412
Kansas City	3422
Base K.C.	3650
Viola	3694
Simpson Shale	3737
Simpson Shale	3760
Arbuckle	3798
RTD	3840

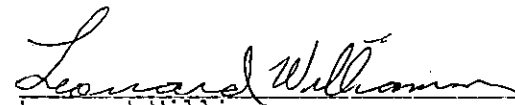
Surface Pipe: Set new 8-5/8"
 20# at 302' with 195 sacks
 60/40 pozmix, 2% gel, 3% c.c.

Production Pipe: Set used
 4½" casing, 9½# at 3839' with
 175 sacks 60/40 pozmix, 2% gel,
 7½# salt per sack with 10 BBLS
 salt flush ahead of cement.

A F F I D A V I T

STATE OF KANSAS
 COUNTY OF BARTON) ss

LEONARD WILLIAMSON of lawful age, does swear and state that the
 facts and statements herein are true and correct to the best of his knowledge.

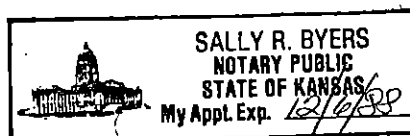

 Leonard Williamson


SUBSCRIBED AND SWORN to before me this 21st day of December, 1987.

RECEIVED
 STATE CORPORATION COMMISSION

SEP 29 1988

CONSERVATION DIVISION
 Wichita, Kansas




 Notary Public

DRILLER'S WELL LOG

DATE COMMENCED: December 9, 1987
 DATE COMPLETED: December 17, 1987

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 7-8 Lincoln #1
 NE SE SE
 Sec. 29-T21S-R14W
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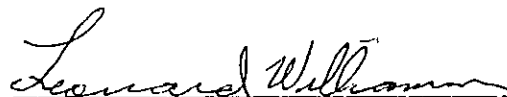
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 SEP 29 1988
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 Wichita, Kansas

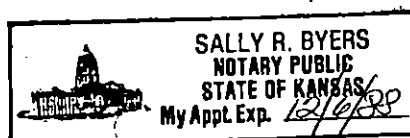
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 Notary Public