

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 # 8925  
Name Liberty Operations & Completions, Inc.  
Address 308 West Mill  
City/State/Zip Plainville, Ks 67663

Purchaser Farmland Industries, Inc.

Operator Contact Person Charles G. Comeau  
Phone 913-434-4686

Contractor: License # 5665  
Name Pioneer Drilling Company, Inc.

Wellsite Geologist Kevin Adams  
Phone 913-628-6698

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

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

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
1-15-86 1-21-86 1-31-86  
Spud Date Date Reached TD Completion Date  
3766' 3732'  
Total Depth PBTD

8 5/8" @ 247'  
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 3766 feet depth to surface w/ SX cmt  
Cement Company Name Halliburton Services  
Invoice # 098096 Econo-lite cement

API No. 15-163-22-859-0000  
County Rooks  
SW NE NE Sec 20 Twp 6S Rge 20 East  
West

4290 Ft North from Southeast Corner of Section  
990 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

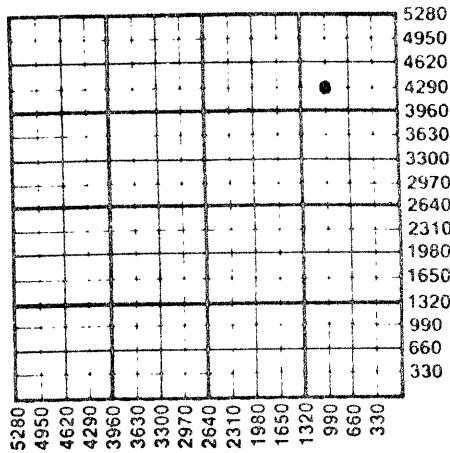
Lease Name States Well # 4

Field Name TODD, NE

Producing Formation Arbuckle & Marmaton

Elevation: Ground 2220' 2225' KB

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: Farm Pond  
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 duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.

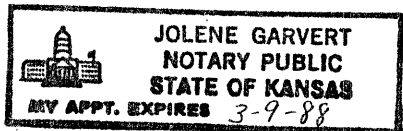
Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 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 Charles G. Comeau  
Title Petroleum Geologist Date 2-4-86

Subscribed and sworn to before me this 4th day of February 1986  
Notary Public Jolene Garvert

Date Commission Expires 3-9-88



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

Form ACO-1 (7-84)

FEB 10 1986 2-7-86

SIDE TWO

Operator Name Liberty Operations & Completions, Inc. Lease Name..... States OK Well # 4

Sec. 20 Twp. 6S Rge. 20  East  West County..... Rooks

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: 3671-3726'/30-60-60-60. REC 380' OCM, 60' SOCW. IF: 109-142, FF: 142-229, SIP: 733-645.

LOG TOPS

Anhydrite 1838 (+387)  
 Topeka 3235 (-1010)  
 Heebner 3438 (-1213)  
 Toronto 3462 (-1237)  
 Lansing/KC 3474 (-1249)  
 Base/KC 3669 (-1444)  
 Marmaton 3685 (-1460)  
 Arbuckle 3710 (-1485)

Name	Top	Bottom
sand and shale	0'	249'
sand and shale	249'	610'
shale and sand	610'	1640'
shale and sand	1640'	1838'
anhydrite	1838'	1876'
shale	1876'	1990'
shale	1990'	2030'
lime and shale	2030'	2188'
shale and lime	2188'	2410'
shale and lime	2410'	2640'
shale and lime	2640'	2855'
lime and shale	2855'	3068'
lime and shale	3068'	3225'
lime and shale	3225'	3365'
lime and shale	3365'	3494'
lime and shale	3494'	3601'
lime and shale	3601'	3700'
lime and shale	3700'	3726'
lime and shale	3726'	3766'
arbuckle	3766'	3766'
		R.T.D.

RELEASED  
 5-11-87  
 MAY 11 1987

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production							
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 Casing	12 1/4"	8 5/8"	20#	247'	60-40pos	175	3%cc 2%gel
Production	7 7/8"	4 1/2"	9.5#	3753.49'	Econolite	300	6%gilsonite 2%gel
"	"	"	"	"	60-40pos	125	8%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	
4/foot	3710-3716'			500 gal. 15% D.F.E., 5% checker-sol		3710-16'	
4/foot	3686-3690'			750 gal. 15% I.N.S. retr. w/ 1500 gal. 15% NON-E, retr. w/		3686-90'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At		Packer at			
2 3/8"		3729.78'					
Date of First Production		Producing Method					
1-31-86		<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	
15 Bbls		MCF		35 Bbls		Gas-Oil Ratio CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... 3686-3716'  
 Used on Lease

Dually Completed  
 Commingled

