

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 W. Mill Street  
City/State/Zip Plainville, Kansas 67663

Purchaser...Farmland Industries

Operator Contact Person ..Roger Comeau  
Phone ..(913)-434-4686

Contractor: License # 8241  
Name Emphasis Oil Operations

Wellsite Geologist..Chris Mraz  
Phone...(913)-434-4686

Designate Type of Completion

New Well  Re-Entry  Workover  
 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:

Mud Rotary  Air Rotary  Cable

2/24/88 3/1/88 3/14/88  
Spud Date Date Reached TD Completion Date  
3755'  
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at..235 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set...1797.98 feet  
If alternate 2 completion, cement circulated  
from..1797.98 feet depth to..0...w/365 SX cmt  
Cement Company Name Allied  
Invoice # 5-11-88

API NO. 15-163-22-981-0000  
County...ROCKS  
NW..NW..NE... Sec 20.. Twp 6S..Rge 20... X East West

4950. Ft North from Southeast Corner of Section  
2310. Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

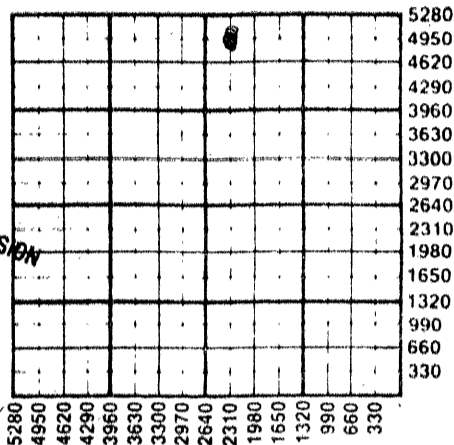
Lease Name...States Well #...5

Field Name...TODD.NE

Producing Formation...ARRUCKLE

Elevation: Ground...2237' KB...2242'

Section Plat



RECEIVED  
STATE CORPORATION COMMISSION  
APR 27 1988  
CONSERVATION DIVISION  
Wichita, Kansas  
4-27-88

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 1980.Ft North from Southeast Corner  
(Stream,pond etc) 4620.Ft West from Southeast Corner  
Sec 9 Twp 7S Rge 20 East X West

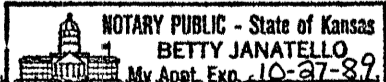
Other (explain).....  
(purchased from city, R.W.D. #)

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 [Signature]

Title... Date 4-26-88



Subscribed and sworn to before me this 26th day of April 1988

Notary Public... Betty Janatello

Date Commission Expires... 10-27-89

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

Sec. 20 Twp. 6 Rge. 20W

SIDE TWO

Operator Name Liberty Operations & Completions, Inc Lease Name States Well # 5

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: Arbuckle 3680'-3737'. 60-60-60-60.  
 Recovered 105' muddy oil, 61% oil. IFP: 58-70  
 FFP: 70-81, ISP: 408, FSP: 397.

Log Tops

Anhydrite	1852 (+390)
Base Anhydrite	1884 (+358)
Topeka	3250 (-1008)
Heebner	3450 (-1208)
Toronto	3474 (-1232)
Lansing	3486 (-1244)
Base/KC	3679 (-1437)
Marmaton	3694 (-1452)
Arbuckle	3715 (-1473)

Name	Top	Bottom
Top Soil, Sand, Clay & Shale	0'	to 240'
Shale & Sand Stks.	240'	to 1049'
Dakota Sand	1049'	to 1125'
Red Bed	1125'	to 1375'
Cedar Hills	1375'	to 1578'
Red Bed	1578'	to 1855'
Anhydrite	1855'	to 1886'
Shale	1886'	to 2982'
Shale & Lime Stks.	2982'	to 3227'
Lime (R.T.D.)	3227'	to 3755'

RELEASED

MAY 09 1989

3-9-89  
 FROM CONFIDENTIAL

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 casing	12 1/2"	8 5/8"	20#	235'	60-40oz	165	Quick Set
Production casing	7 7/8"	4 1/2"	10.5#	3751'	60-40oz	150	8% salt, 2% gel, 5% gilsonite
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
3	3728-3732			500 G 15% INS		3728-3739 OA	
3	3736-3739			750 G 15% D.F.E. 5% Checkersol			
				1500 G 15% A.O.G. 200 G 5% Checkersol			
TUBING RECORD							
Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
2 3/8"	3733	NA					
Date of First Production   Producing Method							
3/14/88		<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		
	10 Bbls	MCF	0 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

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