

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, Inc.  
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 Greg Issinghoff  
Phone 913-628-3503

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

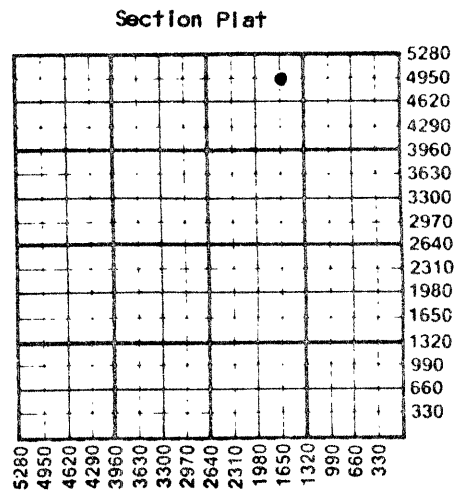
If OMWO: old well info as follows:  
Operator  
Well Name  
Comp. Date  
Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
1-06-86 1-12-86 1-25-86  
Spud Date Date Reached TD Completion Date  
3775' 3755'  
Total Depth PBSD  
8 5/8" @249'  
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 3775 feet depth to surface w/ SX cmt  
Cement Company Name Halliburton Services  
Invoice # 418908 w/Econo-lite cement

API No. 15-163-22,845 -00-00  
County Rooks  
NE.. NW.. NE. Sec. 20 Twp 6S Rge 20 East  
X West  
4950 Ft North from Southeast Corner of Section  
1650 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name States Well # 3  
Field Name TODD, NE  
Producing Formation Arbuckle & Marmaton  
Elevation: Ground 2220' KB 2225'



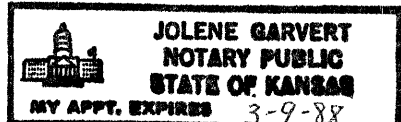
WATER SUPPLY INFORMATION  
Disposition of Produced Water: Disposal  
Docket # Repressuring

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 1-28-86  
Subscribed and sworn to before me this 28th day of January 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)  
JAN 29 1986  
1-29-86  
Conservation Division  
Wichita, Kansas

SIDE TWO

Operator Name Liberty Operations & Completions, Inc. Lease Name..... States OK Well # 3

Sec. 20 Twp. 6S Rge. 20  East  West County..... Rocks INTERRADIAN

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: 3664-3725/30-60-60-60. REC 300' total fluid, 120' gas above fluid, 120' clean gassy oil, 180' mud cut oil. IHP: 1018, IFP: 100-125, ISIP: 731, FFP: 159-192, FSIP: 689, FHP: 1008.

Name	Top	Bottom
surface shale	0'	40'
sand and shale	40'	250'
shale and sand	250'	1245'
shale and sand	1245'	2040'
shale	2040'	2330'
shale	2330'	2354'
shale and lime	2354'	2530'
shale and lime	2530'	2788'
shale and lime	2788'	3000'
lime and shale	3000'	3200'
lime and shale	3200'	3348'
lime and shale	3348'	3470'
lime and shale	3470'	3595'
lime and shale	3595'	3697'
lime and shale	3697'	3725'
arbuckle	3725'	3775'
		R.T.D.

LOG TOPS

Anhydrite	1865 (+360)
Topeka	3235 (-1010)
Heebner	3436 (-1211)
Toronto	3460 (-1235)
Lansing/KC	3472 (-1247)
Base/KC	3668 (-1443)
Marmaton	3683 (-1458)
Arbuckle	3702 (-1477)

RELEASED  
5-11-87

CASING RECORD  New  Used MAY 11 1987

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	Percent Additives
Surface Casing	12 1/4"	8 5/8"	20#	249'	60-40pos	175	3%cc 2%gel
Production	7 7/8"	4 1/2"	9.5#	3769-24'	60-40pos Econolite	125 325	8%salt 2%gel gilsonite

FROM CONFIDENTIAL

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4/foot	3708-3716'	1000 gal. 15% I.N.S.	3708-16'
5/foot	3684-3686.5'	750 gal. 15% D.F.E. w/5% checker-sol. retr. w/1000 gal. 15% C.R.A.	3684-86.5'

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8"	3735'			

Date of First Production	Producing Method
1-25-86	<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	Gas-Oil Ratio	Gravity
	30 Bbls	MCF	15 Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... 3684-3716'  
 Used on Lease

Dually Completed  
 Commingled

