

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

API NO. 15-163-22,822 -00-00
County.....Rooks.....
NW NE NE..... Sec. 20 Twp. 6S Rge. 20 East
..... West

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

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

Purchaser.....Farmland Industries, Inc.....

Lease Name.....States.....Wall # 2
Field Name.....TOD, NE.....

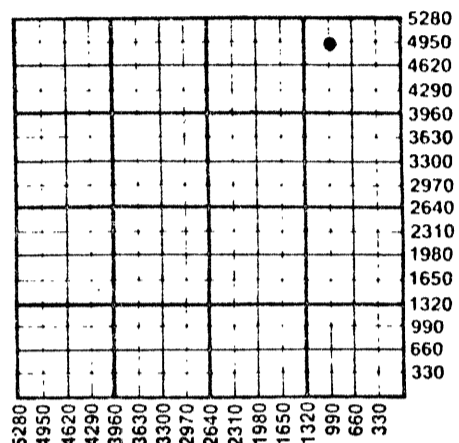
Operator Contact Person Charles G. Comeau
Phone 913-434-4686

Producing Formation.....Arbuckle.....
Elevation: Ground.....2209'.....2214'.....KB.....

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

Wellsite Geologist Kevin Adams
Phone 913-628-6698

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: _____ Disposal
Docket # _____ Repressuring

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. DateOld Total Depth.....

WELL HISTORY

Drilling Method:
 Mud Rotary _____ Air Rotary _____ Cable
11-19-85 11-25-85 12-12-85
Spud Date Date Reached TD Completion Date
3750' 3733'
Total Depth PBTD
Amount of Surface Pipe Set and Cemented at.....feet
Multiple Stage Cementing Collar Used? Yes _____ No
If yes, show depth set.....1757'.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name Allied Cementing Co., Inc.
Invoice # 45120

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

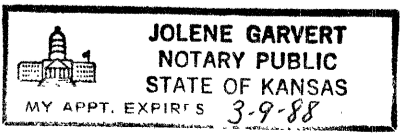
Source of Water:
Division of Water Resources Permit #.....
_____ Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge East West
 Surface Water.....4620'.....Ft North from Southeast Corner
(Stream, pond etc.).....330'.....Ft West from Southeast Corner
Sec 3 Twp 6S Rge 20 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 12-16-85

Subscribed and sworn to before me this 16th day of December 1985
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)
RECEIVED
STATE CORPORATION COMMISSION

Form ACO-1 (7-84)

12-17-85 DEC 17 1985

Operator Name Liberty Operations & Completions, Inc. Lease Name..... States..... Well # 2

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

LOG TOPS

Anhydrite 1825 (+389)
 Topeka 3222 (-1008)
 Heebner 3424 (-1210)
 Toronto 3449 (-1235)
 Lansing 3460 (-1246)
 Base/KC 3655 (-1441)
 Arbuckle 3687 (-1473)

Name	Top	Bottom
sand and shale	0	250'
shale	250	258'
sand and shale	258	682'
shale and sand	682	1660'
shale and sand	1660	1822'
anhydrite	1822	1854'
shale	1854	2200'
lime and shale	2200	2380'
shale and lime	2380	2650'
shale and lime	2650	2880'
shale and lime	2880	3110'
lime and shale	3110	3300'
lime and shale	3300	3445'
lime and shale	3445	3540'
lime and shale	3540	3640'
lime and shale	3640	3710'
arbuckle	3710	3750'
		R.T.D.

CONFIDENTIAL

RELEASED
 4-15-87
 APR 15 1987

FROM CONFIDENTIAL

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 Casing	12 1/4"	8 5/8"	20#	248.53'	60-40pos	160	3%cc 2%gel
Production (1)	7 7/8"	4 1/2"	10.5#	3749'	60-40pos	175	5%gil 2%gel
(2)	"	"	"	"	50-50pos	375	6%gel 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	
2/foot	3689-3700'			250 gal. 15% I.N.S. retreated		3689-3700'	
				w/1000 gal. 15% D.F.E. 5%			
				checker-sol, retreated w/1000			
				gal. 15% I.N.S.			
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						
12-13-85	<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	
	50 Bbls	MCF	0 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

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

3689-3700'

Dually Completed
 Commingled

