

RELEASED

SIDE ONE

4127/89

20-6-20W

MAY 1 1989

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
FROM CONFIDENTIAL 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 Empasis 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 OWNO: old well info as follows:

Operator
Well Name
Comp. DateOld 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 #

API NO. 15-163-22.981

County...BOOKS

East
NW..NW..NE... Sec 20.. Twp 6S..Rge.20... X West

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

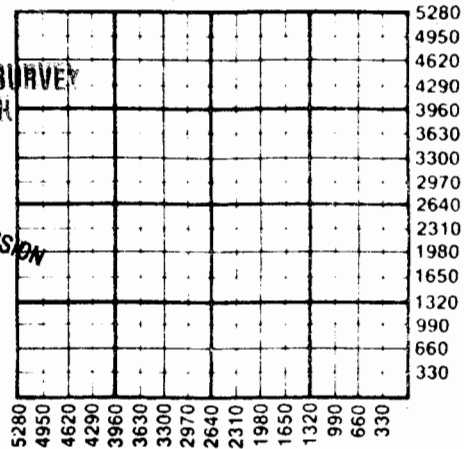
Lease Name..States.....Well #..5....

Field Name...TODD.NE.....

Producing Formation.....ARBUCKLE.....

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

Section Plat



KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

RECEIVED
STATE CORPORATION COMMISSION

APR 27 1988

CONSERVATION DIVISION
Wichita, Kansas

MAY 12 1989 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 West

Other (explain).....

Table with 5 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity. Row 1: Estimated Production Per 24 Hours, 10 Bbls, MCF, 0 Bbls, CFPB.

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold

Open Hole Perforation
 Other (Specify)

W-11-0-01

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'	240'
Shale & Sand Stks.	240'	1049'
Dakota Sand	1049'	1125'
Red Bed	1125'	1375'
Cedar Hills	1375'	1578'
Red Bed	1578'	1855'
Anhydrite	1855'	1886'
Shale	1886'	2982'
Shale & Lime Stks.	2982'	3227'
Lime (R.T.D.)	3227'	3755'

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 1/4"	8 5/8"	20#	235'	60-40poz	165	Quick Set
Production casing	7 7/8"	4 1/2"	10.5#	3751'	60-40poz	150	8% salt, 2% gel, 6% 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				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At		Packer at			
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).....					