4/31/87
KCC
Fnd

SIDE ONE

RELEASED
Date: MAY 1 1987
FROM CONFIDENTIAL

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. 15-163-22,859 20-6-20W

County Rooks

SW NE NE Sec 20 Twp 6S Rge 20 East / X 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' KB 2225'

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.

CONFIDENTIAL

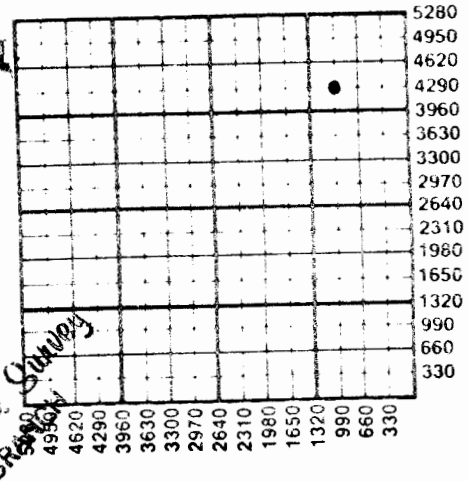
Wellsite Geologist Kevin Adams
Phone 913-628-6698

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover

X 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

Section Plat



07 1986
State Geological Survey
WICHITA BRANCH

WELL HISTORY

Drilling Method:
X 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

Amount of Surface Pipe Set and Cemented at 8 5/8" @ 247' feet
Multiple Stage Cementing Collar Used? ___ Yes X 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

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

SIDE TWO

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

20 Twp 6s Rge 20 [ ] East [X] West County Rooks

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	15 Bbls	MCF	35 Bbls	CFPB	

METHOD OF COMPLETION Production Interval

Disposition of gas: [X] Vented [ ] Open Hole [X] Perforation 3686-3716'

Drill Stem Tests Taken [X] Yes [ ] No
Samples Sent to Geological Survey [ ] Yes [X] No
Cores Taken [ ] Yes [X] No

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)

Formation Description
[X] Log [ ] Sample

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'
	3766'	R.T.D.

CASING RECORD [X] New [ ] 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#	247'	60-40pos	175	3%cc 2%gel
Production	7 7/8"	4 1/2"	9.5#	3753.49'	Econolite	300	
"	"	"	"	"	60-40pos	125	6%gilsonite 2%gel 8%salt

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated
4/foot	3710-3716'
4/foot	3686-3690'

Acid, Fracture, Shot, Cement Squeeze Record

(Amount and Kind of Material Used)	Depth
500 gal. 15% D.F.E., 5% checker-sol	3710-16'
750 gal. 15% I.N.S. retr. w/ 1500 gal. 15% NON-E, retr. w/ 1500 gal. 15% NON-E	3686-90'

TUBING RECORD Size 2 3/8" Set At 3729.78' Packer at

Liner Run [ ] Yes [X] No

Date of First Production 1-31-86

Producing Method [ ] Flowing [X] Pumping [ ] Gas Lift [ ] Other (explain)