

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
City/State/Zip Plainville, Ks. 67663

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

Contractor: license # 5665
name Pioneer Drilling Company, Inc.

Wellsite Geologist Kevin E. Adams
Phone 913-628-6698

PURCHASER Citgo Petroleum

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

10-04-84 10-12-84 11-9-84
Spud Date Date Reached TD Completion Date
3413' 3382'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 8 5/8" @ 260' feet

Multiple Stage Cementing Collar Used? Yes No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated
from 0 feet depth to 1380 w/ 350 SX cmt

API NO. 15- 163-22,482 -00-00
County Rooks
NE NW SE Sec 16 Twp 7s Rge 19 East
(location) West

2310 Ft North from Southeast Corner of Section
1650 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

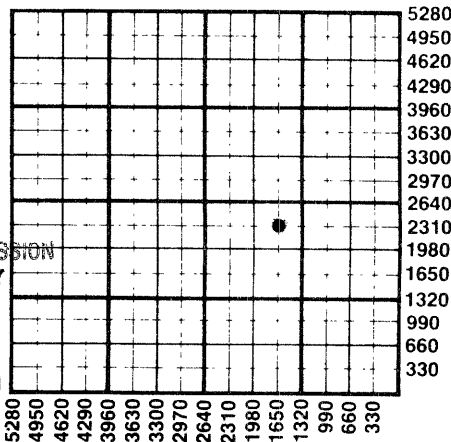
Lease Name McCauley Well# 4

Field Name GROVER, WEST

Producing Formation Arbuckle & Kansas City

Elevation: Ground 1949' KB 1954'

Section Plat



RECEIVED
STATE CORPORATION COMMISSION
NOV 19, 1984
Wichita, Kansas

WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #
 Groundwater Ft North From Southeast Corner and
(Well) Ft. West From Southeast Corner of
Sec Twp Rge East West
 Surface Water 330 Ft North From Southeast Corner and
(Stream, Pond etc.) 660 Ft West From Southeast Corner
Sec 8 Twp 7S Rge 19 East West
 Other (explain)
(purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring
Docket # CD-38314 (C-21, 862)

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. Rules 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.

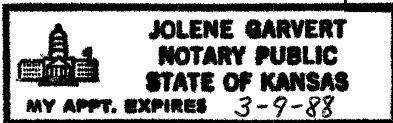
All requirements of the statutes, rules, and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Charles G. Comeau
Title Petroleum Geologist Date 11-15-84

Subscribed and sworn to before me this 15th day of November 19 84

Notary Public Jolene Garvert
Date Commission Expires Jolene Garvert

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



SIDE TWO

Operator Name Liberty Operations & Completions, Inc. Lease Name McCauley Well# 4 SEC 16 TWP. 7s RGE. 19 East West

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: 3043-3099, 30-60-60-60. Blow weak but steady throughout test. Pressures IF 58-75, FF 117-151, Shut-in 1041-990. Recovery 250' muddy water.

DST #2: 3192-3248, 30-30-30-30. Blow weak throughout test. Pressures IF 46-46, FF 54-54, Shut-in 827-795. Recovery 60' oil-specked mud.

DST #3: 3282-3361, 30-60-15-0. Blow IF weak throughout, FF no blow, flushed tool, no return, pulled tool. Pressures IF 78-78, FF 78, Shut-in 101. Recovery 30' oil-specked mud.

DST #4: 3392-3413, 30-60-60-60. Blow weak, slowly increasing to good. Pressures IF 51-76, FF 109-134, Shut-in 1025-975. Recovery 270' clean, gassy oil, 80' very heavily oil cut mud, 60' gas.

Name	Top	Bottom
sand and shale	0'	44'
sand and shale	44'	261'
shale and sand	261'	1290'
anhydrite	1290'	1442'
anhydrite	1442'	1481'
shale and lime	1481'	1818'
shale and lime	1818'	2026'
shale and lime	2026'	2052'
shale and lime	2052'	2190'
shale and lime	2190'	2453'
lime and shale	2453'	2652'
lime and shale	2652'	2855'
lime and shale	2855'	2937'
lime and shale	2937'	2961'
lime and shale	2961'	3072'
lime and shale	3072'	3097'
lime and shale	3097'	3099'
lime and shale	3099'	3142'
lime and shale	3142'	3238'
lime and shale	3238'	3248'
lime and shale	3248'	3307'
lime and shale	3307'	3361'
lime and shale	3361'	3403'
lime and shale	3403'	3413'
	3413'	R.T.D.

Log Tops

Anhydrite	1444	(+510)
Topeka	2898	(-944)
Heebner	3100	(-1146)
Toronto	3128	(-1174)
Lansing/KC	3142	(-1188)
Base/KC	3357	(-1403)
Arbuckle	3400	(-1446)

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#	260'	60-40pos	145	2%gel 3%cc
Production	7.7/8"	4.1/2"	10.5#	3400'	60-40pos	150	8%salt 2%gel 5%gilsonite and 1 sk.gelflush
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. per 1'	3338-3339, 3316-3317, 3294-3295			1500 gal. 15% mud acid, retreat w/			3338-39, 3316
				3000 gal. 15% C.R.A.			17, 3294-95
				250 gal. 15% mud acid w/5% checkersol			open hole 3400-3412.5'
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing method					
11-9-84		<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	
	25 Bbls	MCF	0 Bbls	CFPB			

Disposition of gas: vented sold used on lease

METHOD OF COMPLETION
 open hole perforation
 other (specify) _____

PRODUCTION INTERVAL

2294-3339

Open hole 3400-3412.5'

