

SIDE ONE

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

Date 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 PBD

Ann 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

County Rooks

NE NW SE Sec 16 Twp 7s Rge 19 East
(location) X West

2310 Ft North from Southeast Corner of Section

1650 Ft West from Southeast Corner of Section

(Note: locate well in section plat below)

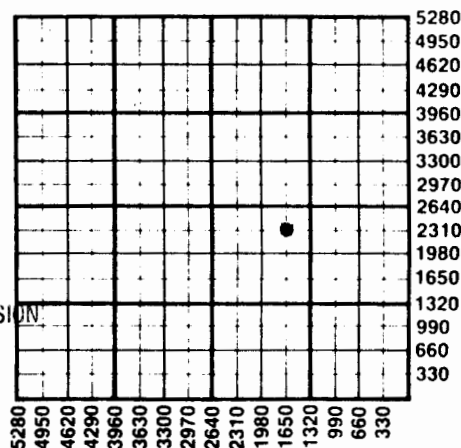
Lease Name McCauley Well# 4

Field Name

Producing Formation Arbuckle & Kansas City

Elevation: Ground 1949' KB 1954'

Section Plat



RECEIVED
STATE CORPORATION COMMISSION

CONSERVATION DIVISION
WELL HISTORY

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)

Liner Run ☐ Yes ☒ No

TUBING RECORD size 2 3/8" set at 3380.62' packer at

Date of First Production 11-9-84 Producing method ☐ flowing ☒ pumping ☐ gas lift ☐ Other (explain)

Estimated Production
Per 24 Hours

Oil Gas Water Gas-Oil Ratio Gravity
25 Bbls MCF 0 Bbls CFPB

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.

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)

Name	Top	Bottom
sand and shale	0'	44'
sand and shale	44'	261'
shale and sand	261'	1290'
anhydrite	1290'	14'
anhydrite	1442'	1481'
shale and lime	1481'	1818'
shale and lime	1818'	2026'
shale and lime	2026'	2052'
shale and lime	2052'	21'
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.

METHOD OF COMPLETION

☒ open hole ☐ perforation
☐ other (specify) _____

PRODUCTION INTERVAL

2294-3339

Open hole 3400-3412.5'

CASING RECORD

☒ 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#	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, 33
		3000. gal. 15% C.R.A.	17, 3294-95
		250. gal. 15% mud acid w/5% checkersol	3400-3412.5'