

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

Purchaser Citgo Petroleum

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

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
2-12-85 2-20-85 3-26-85
Spud Date Date Reached TD Completion Date
3440' 3415'
Total Depth PBTB

Amount of Surface Pipe Set and Cemented at 8 5/8" @ 253' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1348' feet
If alternate 2 completion, cement circulated from 1348' feet depth to surface / 350 SX cmt
50-50 pos, 6% gel

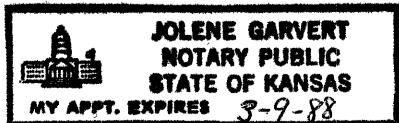
INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.
Information on side two of this form will be held 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 3-29-85

Subscribed and sworn to before me this 29th day of March 1985
Notary Public Jolene Garvert

Date Commission Expires 3-9-88



API NO. 15-163-22,631-00-00
County Rocks
SE SW NE Sec. 16 Twp. 7s Rge. 19 East West

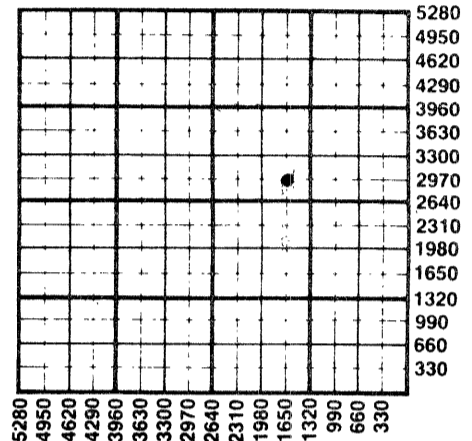
2970 Ft North from Southeast Corner of Section
1650 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name McCauley Well #. 5
Field Name GROVER, WEST

Producing Formation Arbuckle & Kansas City

Elevation: Ground 1920' KB 1925'

Section Plat



WATER SUPPLY INFORMATION

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

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. #)

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)
APR 1 1985

Sec. 16 Twp. 7 Rge. 19W

SIDE TWO

Operator Name Liberty Operations & Completions, Inc. Lease Name McCauley Well # 5

Sec. 16 Twp. 7S Rge. 19 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: 3260-3293/30-60-30-60. Blow good throughout. IF 33-66, FF 91-117, Shut-in 1049-975. Rec. 440' gas 220' cl. gassy oil, 60' mud-cut oil.

DST #2: 3364-3389/30-30-30-30. Blow weak, dec. to dead. IF 16-16, FF 16-16, Shut-in 41-33. Rec. 10' oil cut mud.

DST #3: 3364-3394/35-30-30-30. Blow IF weak to dead, FF flushed. IF 25-25, FF 25-33, Shut-in 100-66. Rec. 20' oil cut mud.

LOG TOPS

Anhydrite 1406 (+519)
 Topeka 2867 (-942)
 Heebner 3070 (-1145)
 Toronto 3094 (-1169)
 Lansing/KC 3110 (-1185)
 Base/KC 3325 (-1400)
 Arbuckle 3368 (-1443)

Name	Top	Bottom
sand and shale	0'	254'
shales and sand	254'	600'
shale and sand	600'	918'
shale and sand	918'	1413'
anhydrite	1413'	1446'
shale and limes	1446'	1864'
shales	1864'	1963'
shale and limes	1963'	2005'
shale and lime	2005'	2117'
lime and shale	2117'	2149'
lime and shale	2149'	2252'
lime and shale	2252'	2465'
lime and shale	2465'	2643'
lime and shale	2643'	2802'
lime and shale	2802'	2976'
lime and shale	2976'	3083'
lime and shale	3083'	3190'
lime and shale	3190'	3293'
lime and shale	3293'	3315'
lime and shale	3315'	3377'
lime and shale	3377'	3389'
arbuckle	3389'	3394'
arbuckle	3394'	3440'
	3400'	R.T.D.

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#	253'	60-40pos	180	2%gel 3%cc
Production (bottom)	7 7/8"	4 1/2"	10 5#	3425'	60-40pos	125	5%gilsonite 2%gel
Production (top)	7 7/8"	4 1/2"		3425'	50-50pos	350	6%gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
4/foot	3389-3392'			Treated w/250 gal. 15% I.N.S.			3389-3392'
2 each	3306' - 3284' 3262'			Retreated w/750 gal. 15% w/5% checker-sol			
				Treated w/750 gal. 15% mud			3306' - 3284'
				Acid. Retreat w/2500 gal. 15%			3262'
4/foot	3212-3214'			w/5% checker-sol. Retreat w/5000 gal. 20% Non-I			
				Treated w/250 gal. 15% Mud			3212-3214'
TUBING RECORD		Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2 3/8"	3398'				
Date of First Production		Producing Method					
3-26-85		<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	
		15 Bbis	MCF	10 Bbis	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) D-V tool set @ 3212-3392'
 Used on Lease Dually Completed 1348'

