

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 # 5428 name Graves Drilling Co., Inc. address 910 Union Center Wichita, Kansas 67202 City/State/Zip

Operator Contact Person Betty Brandt Phone 316 265-7233

Contractor: license # 5428 name Graves Drilling Co., Inc.

Wellsite Geologist Richard E. Roby Phone 316 263-6401

Purchaser: KOCH OIL Designate Type of Completion [X] New Well [ ] Re-Entry [ ] Workover

[X] Oil [ ] Gas [ ] Dry [ ] SWD [ ] Inj [ ] Other [ ] Temp Abd [ ] Delayed Comp.

If OWWO: old well info as follows: Operator Well Name Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: [X] Mud Rotary [ ] Air Rotary [ ] Cable

Spud Date 5-17-84 Date Reached TD 5-26-84 Completion Date 6-11-84

Total Depth 4404' PBDT KC-KCC Amount of Surface Pipe Set and Cemented at 383 feet

Multiple Stage Cementing Collar Used? [ ] Yes [X] No If Yes, Show Depth Set feet

If alternate 2' completion, cement circulated from feet depth to w/ SX cmt

API NO. 15-007-21,817-00-00 County Barber SW NW SE Sec 35 Twp 31S Rge 12 West

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

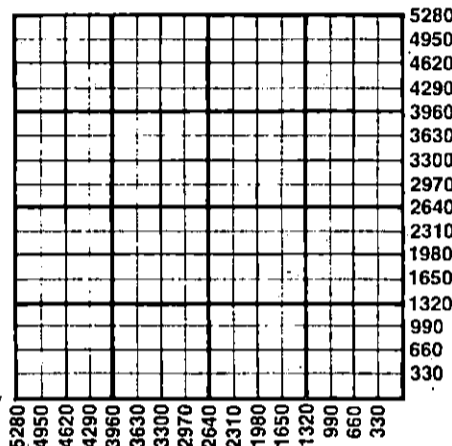
Lease Name Lawrence Well# 1

Field Name Pike, So.

Producing Formation Mississippi

Elevation: Ground 1571' KB 1582'

Section Plat



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 Ft North From Southeast Corner and (Stream, Pond etc.) Ft West From Southeast Corner Sec Twp Rge [ ] East [ ] West

[ ] Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: [ ] Disposal [ ] Repressuring

Docket #

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 Betty Brandt Title Secretary-Treasurer Date 6-15-84

Subscribed and sworn to before me this 15th day of June 19 84 Notary Public Tricia K. Glidewell Date Commission Expires 3-17-86

RECEIVED STATE CORPORATION COMMISSION JUN 18 1984 CONSERVATION DIVISION Wichita, Kansas

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

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Lawrence Well# 1 SEC 35 TWP. 31S RGE. 12  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

Red bed 0 - 383  
 Red bed & shale 383 - 1550  
 Shale 1550 - 1818  
 Shale & lime 1818 - 3720  
 Sand 3720 - 3750  
 Shale & lime 3750 - 4404  
 Rotary Total Depth 4404

Name	Formation Description	
	Top	Bottom
Elgin Sand	3450	(-1868)
Heebner	3580	(-1998)
Douglas Sand	3684	(-2102)
Lower Douglas Sand	3708	(-2126)
Lansing	3760	(-2178)
Stark Shale	4154	(-2572)
Mississippi	4329	(-2747)
LTD	4404	(-2822)

DST #1 3697-3720 30-45-60-45. On 1st open had gas to surface in 6". Gauged 700 Mcfg. in 15" & 893 Mcfg. in 30". On 2nd open gauged 1,346 Mcfg. in 15" & in 30", 45" & 60" stabilized @ 1,187 Mcfg. Rec. 675' of salt water. IFP & FFP 211-370# 391-508# IBHP & FBHP 1260-1239#

DST #2 4316-4344 30-45-90-90. Gas to surface on 2nd open. Gauged 7,660 cfg. in 15"; 12,500 cfg. in 30"; 9,500 cfg. in 45"; 10,400 cfg. in 60"; 10,100 cfg. in 75" & 9,970 cfg. in 90". Rec. 180' of total fluid, 60' of 10% oil-90% mud, 60' of 25% oil-40% mud & 60' of 58% oil-12% mud. IFP & FFP 95-95# 95-84#. IBHP & FBHP 1364-1427#.

DST #3 4344-4364 30-45-60-60. Recovered 70' of oil cut mud. IFP & FFP 63-63# 74-74#. IBHP & FBHP 275-360#.

DST #4 4364-4384 15-45-30-45. Recovered 65' of mud with few oil spots. IFP & FFP 63-74# 74-74#. IBHP & FBHP 137-116#

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	12 1/2"	8-5/8" N	23#	383'	common	250 sx.	2% Gel, 3% CC
Production	7-7/8"	5-1/2" U	14#	4403'	60-40 posm	100 sx.	500 gal. mud sweep ahead

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 shots	4332-4339	Acidized with 1500 gals. of 5% MA acid Fraced with 35,000# 10-20 sand	

TUBING RECORD			
size	set at	packer at	Liner Run
2"	4399'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production	Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	80	20 Mcfg.	0	35-1	28°
Estimated Production Per 24 Hours	Bbls	MCF	Bbls	CFPB	

Disposition of gas:  vented  sold  used on lease

METHOD OF COMPLETION:  open hole  perforation  other (specify)

PRODUCTION INTERVAL: 4332-4339

Dually Completed.  Commingled