

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 # 5198
name A. Scott Ritchie
address 125 N. Market, Suite 950
City/State/Zip Wichita, KS 67202

Operator Contact Person Galen Babcock
Phone (316) 267-4375

Contractor: license # 6033
name Murfin Drilling Co.

Wellsite Geologist Rocky Milford
Phone (316) 267-4375

PURCHASER Koch Oil Co.

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
4/27/84 5/6/84 6/9/84
Spud Date Date Reached TD Completion Date

4630' RTD n/a
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 299' feet

Multiple Stage Cementing Collar Used? Yes No
If Yes, Show Depth Set 2492' feet

If alternate 2 completion, cement circulated
from 299 feet depth to surface w/ 200 SX cmt

API NO. 15 063-20,761
County Gove County, Kansas
SW SW SE Sec 17 Twp 11S Rge 31
(location)
330 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

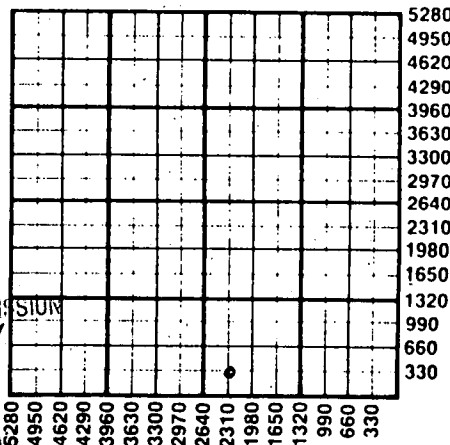
Lease Name Engel Well# 1

Field Name Unknown PENNY

Producing Formation Lansing & Cherokee

Elevation: Ground 2975' KB 2980'

Section Plat



RECEIVED
STATE CORPORATION COMMISSION
10-26-1984
OCT 26 1984

CONSERVATION DIVISION
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..... 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.

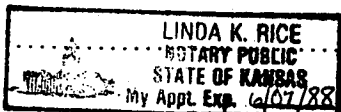
One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 Robert L. Milford
Title Geologist Date 9/04/84

Subscribed and sworn to before me this 4th day of September 1984

Notary Public Linda H. Rice
Date Commission Expires 6/07/88



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)

Sec. 17 Twp. 11S Rge. 31W

SIDE TWO

Operator Name A. Scott Ritchie Lease Name Engel Well# 1 SEC 17 TWP 11S RGE 31 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 from 3972' to 4004' (Toronto). Recovered 140' oil spotted watery mud.

IFP:69-93#/30"; ISIP:1230#/45";
 FFP:116-116#/30"; FSIP:1150#/45".

DST #2 from 4136' to 4226' (140', 160', & 180' zones).

Recovered 122' of gassy muddy water & 360' of gassy very slightly oil spotted watery mud.

IFP:255-301#/30"; ISIP:1495#/30";
 FFP:289-301#/30"; FSIP:1380#/30".

DST #3 from 4225' to 4290' (200' & 220' zones). Recovered

100' of clean gassy oil, 420' of heavy frothy mud cut oil & 1500' of gas in pipe.

IFP:208-243#/30"; ISIP:1023#/30";
 FFP:220-243#/30"; FSIP:1023#/30".

DST #4 from 4285' to 4345' (Marmaton). Recovered 260' of muddy water, no show of oil.

IFP:104-127#/30"; ISIP:1369#/45";
 FFP:162-174#/30"; FSIP:1323#/45".

DST #5 from 4429' to 4468' (Myrick Station). Recovered 10' of mud.

IFP:46-46#/30"; ISIP:93#/30";
 FFP:58-58#/30"; FSIP:81#/30".

DST #6 from 4497' to 4564' (Johnson zone). Recovered 80' of gassy oil cut mud.

IFP:81-81#/30"; ISIP:1081#/45";
 FFP:104-104#/30"; FSIP:1081#/45". (Cont. on next column).

Name	Top	Bottom
Anhydrite	2487'	(+ 493)
B/Anhydrite	2512'	(+ 468)
Topeka	3744'	(- 764)
Heebner	3968'	(- 984)
Toronto	3995'	(-1015)
Lansing	4010'	(-1030)
B/KC	4288'	(-1308)
Marmaton	4322'	(-1342)
Pawnee	4406'	(-1426)
Myrick Station	4454'	(-1474)
Ft. Scott	4478'	(-1498)
Cherokee Sh.	4504'	(-1524)
Johnson zone	4546'	(-1566)
Mississippi	4588'	(-1608)
LTD	4631'	(-1651)

DST #7 from 4622' to 4630' (Mississippi).

Recovered 70' oil spotted watery mud.

IFP:35-35#/45"; ISIP:1127#/45";
 FFP:58-58#/45"; FSIP:1081#/45".

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	12 1/4"	8-5/8"	24#	299'	quickset	200	none
Production	7-7/8"	4 1/2"	10.5#	4626'	60/40 pozmix	220	10% salt, & 20 bbls. brine preflush.

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 SSB	4551' - 4557'	Acidized w/850 gal. of 15% NE	4551'-57'
2 SSB	4273' - 4279'		

TUBING RECORD

size set at packer at Liner Run Yes No

Date of First Production Producing method flowing pumping gas lift Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
40.00 Bbls		MCF	26.69 Bbls	CFPB	

METHOD OF COMPLETION

Disposition of gas: vented sold used on lease
 open hole perforation
 other (specify) Dually Completed.
 Commingled.

PRODUCTION INTERVAL

..... same as above
 Lansing & Cherokee