

2/8/89

TIGHT HOLE

SIDE ONE

RELEASED  
MAR 1 1989

Date: STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
FROM CONFIDENTIAL  
WELL COMPLETION OR RECOMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 5046  
Name Raymond Oil Company  
Address P. O. Box 48788  
Wichita, KS 67201  
City/State/Zip

Purchaser Inland Purchasing

Operator Contact Person Pat Raymond  
Phone 316-267-4214

Contractor: License # 6033  
Name Murfin Drilling Company

Wellsite Geologist Clarke T. Sandberg  
Phone 316/267-4214

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

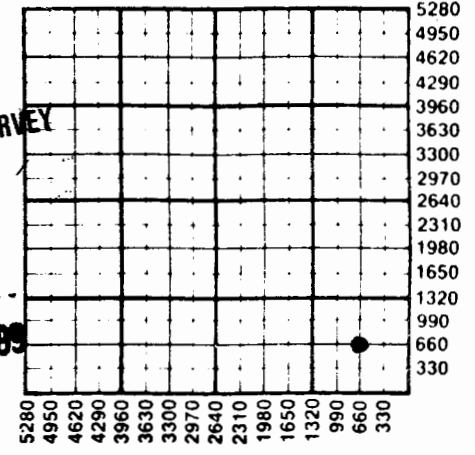
Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
10-22-87 10-31-87 1-2-88  
Spud Date Date Reached TD Completion Date  
4700' 4425'  
Total Depth PBTB  
8-5/8" @ 372'  
Amount of Surface Pipe Set and Cemented at.....feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt  
Cement Company Name  
Invoice #

API NO. 15-193-20,452  
County Thomas  
C. SE SE Sec 25 Twp 9 Rge 32 East West

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

Lease Name Engelhardt Well # 1  
Field Name Wildcat - New Field Discovery  
Producing Formation Lansing-Kansas City  
Elevation: Ground 3059' KB 3064'

Section Plat



KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

APR 03 1989

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket #  Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water: Hauled.  
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).....Hauled  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 Clarke T. Sandberg  
Title Geologist Date 2-1-88

Notary Public Shirley Wilkie  
Date Commission Expires January 29, 1992



FEB 04 1988  
KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

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

Sec. 25 Twp. 9 Rge. 32

Form ACO-1 (5-86)

69707

SIDE TWO

TIGHT HOLE

Operator Name Raymond Oil Company Lease Name Engelhardt Well # 1

Sec. 25 Twp. 9S Rge. 32 East West County Thomas

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 [X] Yes [ ] No
Samples Sent to Geological Survey [X] Yes [ ] No
Cores Taken [ ] Yes [X] No
DST #1: 4210'-4248', 30-60-45-75, Strong blow bottom bucket 20 min. rec. 10' OCWM, 5% oil, 45% W, 50% M, 840' Mdy. wtr. IFP 60-264, FFP 294-426, ISIP 1353, FSIP 1393, Temp. 126°.
DST #2: 4259'-4305', 30-30-30-30, Rec. 20' MW, weak blow, died in 30 min. IFP 50-50, FFP 50-50, ISIP 517, FSIP 335, Temp. 128°.
DST #3: 4309'-4334', 30-60-45-75, Weak blow throughout, Rec. 90' SLOCM, 2% oil, 98% M, 120' Mdy Wtr., 55% W, 45% M, IFP 30-40, FFP 45-71, ISIP 1345, FSIP 1333, Temp. 128°.
DST #4: 4333'-4400', 30-60-45-75, Strong blow off bottom for 6 mins. Rec. 848' GIP, 213' CGO, 40°, 427' GMCO (55% oil, 20% G, 25% M), 244' GMCWO (60% oil, 10% G, 20% M), 122' GOCM (25% oil, 20% G, 55% M, 305' GOCMW, (5% oil, 10% G, 65% W,

Formation Description
[X] Log [ ] Sample
Name Log Top Bottom
B. Anhydrite 2661'
Topeka 3832'
Heebner 4044'
Lansing 4085'
Stark Shale 4297'
B. Kansas City 4361'
Cherokee Shale 4585'
Miss. 4669'
LTD 4698'

DST #4 (Cont'd):
20% M), Total fluid 1311'. IFP 41-315, FFP 355-537, ISIP 1363, FSIP 1353, Temp. 129°

CASING RECORD [X] New [ ] Used
Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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" 20# 372' 60-40 Poz 250 2% gel, 3% cc
Production 7-7/8" 5-1/2" 14# 4463.79' 200 7 1/2% salt

PERFORATION RECORD Acid, Fracture, Shot, Cement Squeeze Record
Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth

Table with 3 columns: Shots Per Foot, Specify Footage of Each Interval Perforated, (Amount and Kind of Material Used) Depth.
2 4342'-4348' 250 gals. mud acid 4348'

TUBING RECORD Size Set At Packer at Liner Run [ ] Yes [X] No
2" 4422.68' none

Date of First Production 1-2-88 Producing Method [ ] Flowing [X] Pumping [ ] Gas Lift [ ] Other (explain).....

Table with 6 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity.
Estimated Production Per 24 Hours: Oil 110 Bbls, Gas none MCF, Water 2 Bbls, Gas-Oil Ratio -- CFPB, Gravity 40°

METHOD OF COMPLETION Production Interval

Disposition of gas: [ ] Vented [ ] Sold [ ] Used on Lease [ ] Open Hole [X] Perforation [ ] Other (Specify) ..... 4342' to 4348' [ ] Dually Completed [ ] Commingled