

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 # 3536
Name Ramco Drilling Services, Inc.
Address P. O. Box 99
City/State/Zip Belpre, Ohio 45714

Purchaser NA

Operator Contact Person Bob Williamson/David Gocke
Phone 614-423-9591

Contractor: License # 5302
Name Red Tiger Drilling Company

Wellsite Geologist Scott Alberg
Phone (316) 672-5729

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas SI 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
10/16/87 10/27/87
Spud Date Date Reached TD Completion Date
5,250'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 669.55 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

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 [Signature]

Title Vice President/Exploration Date 1/5/88

Subscribed and sworn to before me this 5th day of January 1988

Notary Public [Signature]

Date Commission Expires January 20, 1991

To Ann Watson, Notary Public, State of Ohio, My Commission Expires January 20, 1991.

API NO. 15-033-20,714

County Comanche
4950' FSL;
4950' FEL NW/4 Sec. 19 Twp. 32S Rge. 19W East West

4950 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

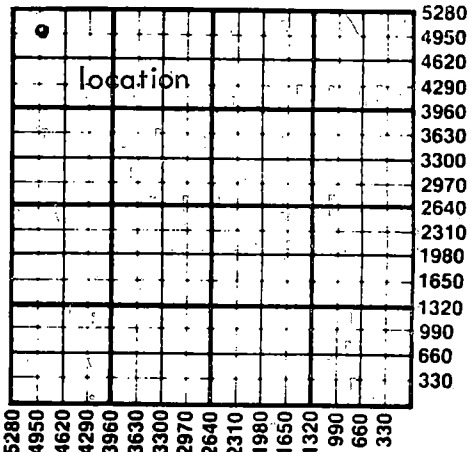
Lease Name Lawrence Rich Well # 1

Field Name Protection

Producing Formation Mississippian

Elevation: Ground 1951' KB 1956'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket #

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # % 87-449

Groundwater 4950 Ft North from Southeast Corner
(Well) 4950 Ft West from Southeast Corner of
Sec 19 Twp 32S Rge 19 East West
Kenneth Webb, Protection, KS. 67127

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)

Sec. 19 Twp. 32S Rge. 19W

SIDE TWO

Operator Name Ramco Drilling Services, Inc. Lease Name Lawrence Rich Well # 1

Sec. 19 Twp. 32S Rge. 19W East West County Comanche

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 - Lansing/Kansas City 4740' - 4777' 30-45-30-60
 IHP 2333' FHP 2267; IFP 60-60; FFP 60-60;
 SIP's 1181-1517; Recovery: 65' of oil speckled mud.

DST #2 - Upper Mississippian 5125' - 5155' Temp. 110°
 30-45-30-60 IHP 2517; FHP 2483; IFP 509-254;
 FFP 356-170; SIP's 1014-862; Recovery: 129' gassy
 drilling mud; G.T.S. immediately no gauge on 1st
 opening, 2nd opening: 5 min 822,000 CFGPD;
 10 min 1,630,000 CFGPD; 15 min 1,450,000 CFGPD;
 20 min 1,250,000 CFGPD; 25 min 1,020,000 CFGPD;
 30 min 1,020,000 CFGPD.

DST #3 - Lower Mississippian 5156' - 5200' Temp. 110°
 30-30-30-30 IHP 2567; FHP 2550; IFP 51-51;
 FFP 28-38; SIP's 85-85; Recovery: 10' drilling mud.

Name	Top	Bottom
Heebner Shale	4210 (-2254)	
Douglas Shale	4300 (92344)	
Brown Lime	4403 (-2447)	
Lansing	4423 (-2467)	
Marmaton	4909 (25333)	
Cherokee Shale	5030 (-3074)	
Mississippian	5116 (-3160)	

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
Conductor	17 1/2"	13 3/8"	48#	88.30	40/60 Poz	100	2% Gel 3%CC
Surface	12 1/4"	8 5/8"	23#	678'	40/60 Poz	535	2% Gel 3%CC
Production	7 7/8"	5 1/2"	15.5#	5,244'	60/40 Poz	125	18% Salt, .75% CRZ

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 shots/ft.	5129 - 5133'		

TUBING RECORD Size Set At Packer at Liner Run Yes No

Date of First Production shut-in Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity
		660			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease

5129 - 5153'

Dually Completed Commingled

1991.02