

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 # 5056
Name F. G. Holl Company
Address P.O. Box 780167
6427 E. Kellogg
City/State/Zip Wichita, Ks. 67278-0167
Permian Corp.
Purchaser Northern Natural

Operator Contact Person Elwyn H. Nagel
Phone (316) 684-8481

Contractor: License # NA
Name

Wellsite Geologist NA
Phone

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 F. G. Holl Estate
Well Name Rudd Est. "A" 4-16
Comp. Date 6-80 Old Total Depth 4455

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
6-3-80 4-6-88
Spud Date Date Reached TD ReCompletion Date
4455 4370'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 252 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 #

dit I

API NO. 15- 047-20,688-0001
County Edwards
C. SW SW Sec. 16 Twp. 24 Rge. 16W West

660 Ft North from Southeast Corner of Section
4620 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

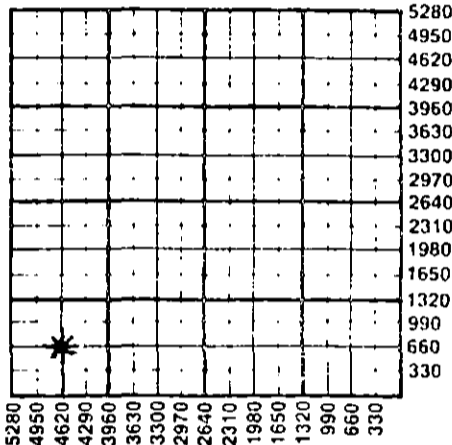
Lease Name Rudd Estate "A" Well # 4-16

Field Name Enlow

Producing Formation Conglomerate

Elevation: Ground 2092 KB 2101

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # D-24,135 Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # NA

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. #)

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 Elwyn H. Nagel
Title Manager Date 5/25/88

Subscribed and sworn to before me this 25 day of May
1988
Notary Public Mary D. Slagle

Date Commission Expires

MARY D. SLAGLE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 10/30/89

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution RECEIVED
 KCC STATE CORPORATION COMMISSION
 KGS STATE - Plug Other
MAY 25 1988
5-25-88 CONSERVATION DIVISION
Wichita, Kansas
Form ACO-1 (5-86)

Section 16, Twp 24, Rge 16W

SIDE TWO

Operator Name F.G. Holl Company Lease Name Ridd Estate "A" Well # 4-16

Sec. 16 Twp. 24 Rge. 16W County Edwards

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

Name	Top	Bottom
Heebner	3702	
Brown Lime	3838	
LKC	3847	
BKC	4128	
Cherokee	4251	
Conglomerate	4279	
Mississippi	4326	
Kinderhook sh	4349	
Kinderhook sd	4371	
Viola	4435	
RTD	4455	
LTD	4454	

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 .....	..... 12.1/4" .....	..... 8.5/8" .....	..... 28# .....	..... 252' KB .....	..... 60/40 .....	..... 225 .....	..... 3% CC
..... Production .....	..... 7.7/8" .....	..... 4.1/2" .....	..... 10.5# .....	..... 4447' KB .....	..... regular .....	..... 175 .....	..... NA
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
..... 1 .....	..... 4309-4316 .....			.....		.....
TUBING RECORD Size 23/8" Set At 4299 Packer at --				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production 4-6-88		Producing Method <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 Bbl's	Gas SIG MCF	Water Bbl's	Gas-Oil Ratio CFPB	Gravity	

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation Sold Other (Specify) 4309-16
 Used on Lease Dually Completed
 Commingled