SIDE ONE

12-10-20W

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

API NO. 15-163-22,990

County Rooks

NW SW SE Sec. 12 Twp. 10 Rge. 20 __ East X West

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

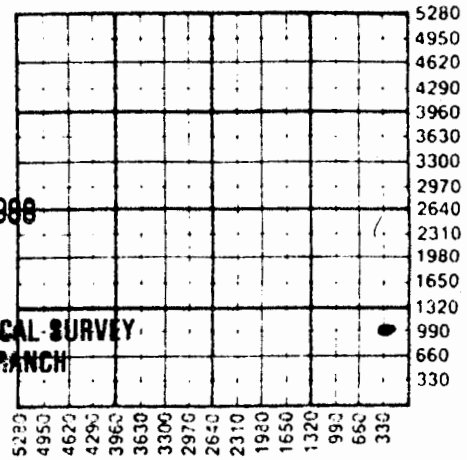
Lease Name McKenna Well # 4

Field Name

Producing Formation Arbuckle

Elevation: Ground 2138 KB 2143

Section Plat



MAR 2 1 1988

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Operator: License # 5293
Name Helmerich & Payne, Inc.
Address P.O. Box 558
City/State/Zip Garden City, Ks. 67846

Purchaser

Operator Contact Person Millard L. Lindsay
Phone 316-276-3693

Contractor: License # 9087
Name R & C Drilling Co., Inc.

Wellsite Geologist Roger Welty
Phone 913-674-5835

Designate Type of Completion
XX New Well __ Re-Entry __ Workover

__ Oil __ SWD __ Temp Abd
__ Gas __ Inj __ Delayed Comp.
XX 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:
XX Mud Rotary __ Air Rotary __ Cable

3/8/88 3/14/88 3-14-88
Spud Date Date Reached TD Completion Date

3845' 1625'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 264 feet
Multiple Stage Cementing Collar Used? __ Yes X No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from 264 feet depth to Surf w/ 150 SX cmt
Cement Company Name Halliburton
Invoice #

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:
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

X Other (explain) Hauled by private contractor
(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.

SIDE TWO

12-10-20W

Operator Name ..... Helmerich & Payne, Inc. ..... Lease Name ..... McKenna ..... Well # ....4....

Sec. 12 ..... Twp. 10 ..... Rge. 20 ..... ☐ East ☒ West County ..... Rooks .....

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
Anhydrite	1605	1643
Topeka	3195	
Heebner	3405	
Toronto	3422	
Lansing	3442	
BKC	3662	
Conglomerate	3711	
Arbuckle	3795	

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	12¼"	8-5/8"	24lb.	264	60/40poz	190	2%gel/3%cc

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

TUBING RECORD	Size	Set At	Packer at	Liner Run	☐ Yes	☐ No

Date of First Production	Producing Method
	☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....