

COPY

SIDE ONE

17-31-34w

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 # 5293
Name Helmerich & Payne Inc.
Address P.O. Box 558
City/State/Zip Garden City, Kansas 67846
Purchaser Northern Natural Gas

Operator Contact Person Millard Lindsay
Phone 316-276-3693

Contractor: License #
Name H-30 Rig 3

Wellsite Geologist Robert Owens
Phone 405-348-7196

Designate Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover
☒ Oil ☐ SMD ☐ Temp Abd
☒ Gas ☐ Inj ☐ Delayed Comp.
☐ Dry ☐ Other (Core, Water Supply etc.)
If OWD: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

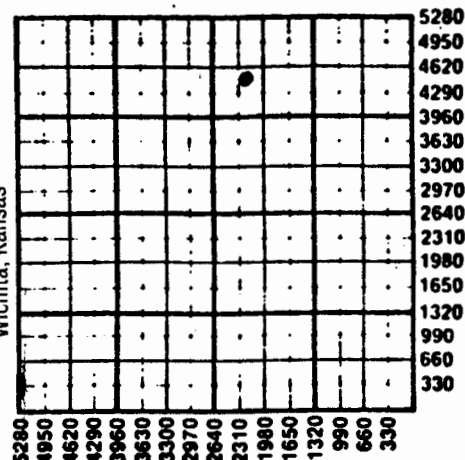
Drilling Method:
☒ Mud Rotary ☐ Air Rotary ☐ Cable
11-7-88 11-17-88 2-4-90
Spud Date Date Reached TD Completion Date
5801 4040
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1634 feet
Multiple Stage Cementing Collar Used? Yes ☒ No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from 1634 feet depth to surf. w/ 8705X cmt
Cement Company Name Dowell
Invoice # 3-12-1262

API NO. 15-175-21057
County Seward
NW NE Sec 17 Twp 31S Rge 34 East
4586 Ft North from Southeast Corner of Section
2190 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)
Lease Name Young Well 1-2
(Formerly Home Royalty A-1)
Field Name Hugoton

Producing Formation Hugoton
Elevation: Ground 2816 KB 2829

Section Plat



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 4586 Ft North from Southeast Corner
(Well) 2190 Ft West from Southeast Corner of
Sec 17 Twp 31S Rge 34 East ☒ West

Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge East West

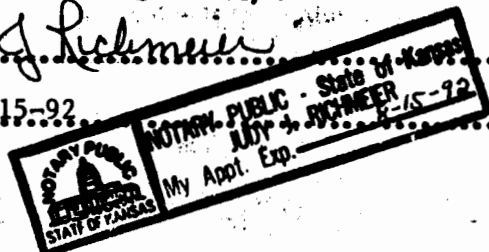
Other (explain)
(purchased from city, R.W.D. #)

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 Millard Lindsay
Title District Production Manager Date 2-13-90

Subscribed and sworn to before me this 13th day of February 1990
Notary Public Judy J. Richmeier
Date Commission Expires 8-15-92



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C ☒ Wireline Log Received
C Drillers Time Log Received

Distribution
☒ KCC ☐ SMD/Rep ☒ NGPA
☒ KGS ☐ Plug ☐ Other (Specify)

Operator Name Helmerich & Payne Inc. Lease Name Young Well # 1-2
(Formerly Home Royalty A-1)

Sec. 17 Twp. 31S Rge. 34 ☐ East ☒ West County Seward

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

DST #1 Lower Morrow 5352-5363 Misrun

DST #2 Lower Morrow 5140-5363
IHP - 2325
30" IFP - 93 to 93
60" ISIP - 132
60" FFP - 106 to 106 Temp 132 Degrees
120" FSIP - 132 Rec: 90' mud
FHP 2429

DST #3 Lower Morrow 5354-5397 Misrun

DST #4 Lower Morrow 5140-5397
IHP - 2561
30" IFP - 193 to 241
60" ISIP - 564
60" FFP - 251-267 Temp 139 Degree F.
120" FSIP - 496 Rec: 60' mud
FHP - 2554

DST #5 Lansing A 4076-4097 Misrun

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Herrington	2427	
Winfield	2532	
Council Grove	2749	
Admire	3001	
Heebner	3934	
Lansing A	4054	
Lansing B	4105	
Base KC	4646	
Marmaton	4666	
Cherokee	4860	
Atoka	5116	
Morrow	5178	
Chester	5390	
St. Gen	5488	
St. Louis	5557	
DTD	5800	
LTD	5801	

CASING RECORD ☒ New ☐ Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole	Size Casing	Weight	Setting	Type of	#Sacks	Type and
Conductor	Drilled	Set (in O.D.)	Lbs/Ft.	Depth	Cement	Used	Percent
	32	22	80	50		5 yds.	Additives
Surface	12 1/4	8 5/8	24	1634	Class H	150	2% CC
Production	7 7/8	5 1/2	15.5	4227	Litegate	330	1/4 # flake
					50/50 Poz	540	2% CC, 1/4 # flake
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	4108-4112	Lansing B		1000 gal	15% Swab	21 bswph	
4	4084-4088	Lansing A		Natural	Swab	19 bswph	CIBP @ 4C
2	Herrington	2453 - 2474		Frac w/	55000 gal	75 quality	from
2	Krider	2485 - 2508		8000#	100 mesh sand and	124600#	
2	Winfield	2532 - 2549		12-20 sand			
2	U. Ft. Riley	2576 - 2600					
TUBING RECORD				Liner Run ☐ Yes ☒ No			
Date of First Production	Producing Method						
1-31-90	☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	0 Bbls	480 MCF	0 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☒ Sold
☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)
☐ Dually Completed
☐ Coning/Led

Hugoton
2453 - 2600 O.A.