

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 # 5208
Name Mobil Oil Corporation
Address P. O. Box 5444
City/State/Zip Denver, CO 80217-5444

Purchaser Northern Natural Gas Company

Operator Contact Person J. L. Douglass
Phone 303/298-2047

Contractor: License # 6666
Name NRG Drlg. Inc.

Wellsite Geologist Kathy Stollenwerk
Phone 303/298-3771

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
10/19/84 10/23/84 1/31/85
Spud Date Date Reached TD Completion Date
3200 3174
Total Depth PBD
693
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

API No. 15-189-20,777-00-00
County Stevens
SE SE NW Sec. 4 Twp. 33S Rge. 35 East West

2970 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

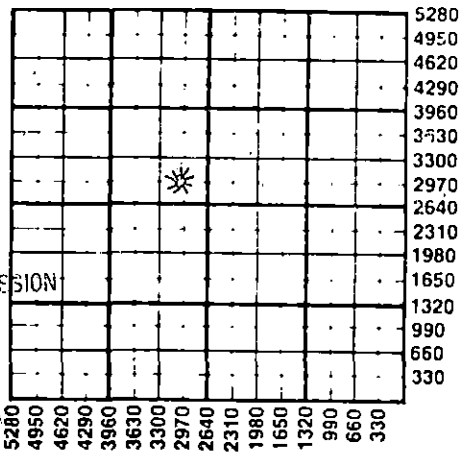
Lease Name Harmon Unit Well # 2

Field Name Panoma

Producing Formation Council Grove

Elevation: Ground 2950' KB 2958'

Section Plat



RECEIVED
STATE CORPORATION COMMISSION
MAR 04 1985
WICHITA, KANSAS

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # CP-82,408-C (10-13,821)

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 Crawford Irrigation Well
 Other (explain) Hugoton, KS (purchased from city, R.W.D. #)

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 J. E. Dawson
Producing Accounting Supervisor
Date 2-28-85

Subscribed and sworn to before me this 28th day of February 1985
Notary Public
Date Commission Expires December 10th 1988

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

NEW PANOMA WELL
PRODUCER CODE 6010

Sec. 4, Twp. 33S, Rge. 35W

Operator Name Lease Name..... Well #.....

Sec. 4 Twp. 33S Rge. 35W. East West County..... Stevens

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

Chase 2565
 Council Grove 2960
 T.D. 3200

Acid/Frac Record:

Breakdown perforations w/2100 gals. of 15% HCL at a maximum rate of 10 BPM. Frac down casing with 30#/1,000 gals. of non X-linked gel, + 1/gal./1,000 gals. breaker + .1 gal./1000 gals. bactericide and 1 gal./1,000 gals. suds surfactant.

CASING RECORD <input checked="" 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"	32#	693'	Class H	375	12% gel, 3% CaCl ₂
Production.....	7 7/8"	5 1/2"	15.5#	3189'	Class H Class H	365 115	6% gel + 1/2# Cellophane
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
2.....	2982' / 2988' O.A.			See acid/frac record detailed above			
	2990' / 2992'						
	2994' / 2996'						
	2998' / 3002'						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size 2 3/8"		Set At 3008.65'		Packer at			
Date of First Production		Producing Method					
		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
-		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

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

