

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 # 6663  
Name Damae Drilg., Great Bend, KS

Wellsite Geologist Pinar Yilmaz  
Phone 303/298-2555

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Completion  
 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  
5/24/84 5/28/84 8/4/84  
Spud Date Date Reached TD Completion Date  
3200' 3148'  
Total Depth PBT

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. 15-189-20690-00-00

County Stevens

.....NW. Sec. 5... Twp. 33S Rge. 35...  
 East  West

.3960.... Ft North from Southeast Corner of Section  
.3960.... Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

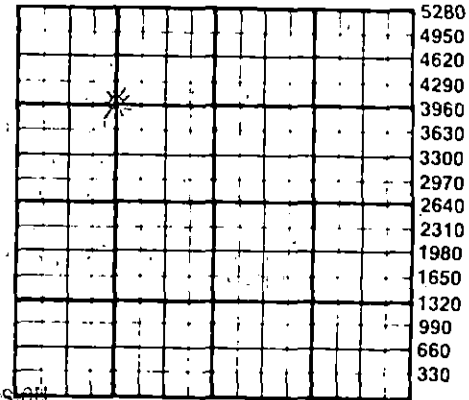
Lease Name Mam #4 Ut. Well #6

Field Name PANOMA

Producing Formation Council Grove

Elevation: Ground 2970' KB 2978'

Section Plat



RECEIVED

STATE CORPORATION COMMISSION  
NOV 19 1984

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  Repressuring  
Cockett # 03-82,408  
C(C-13821)

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  
City of Hugoton, KS

Other (explain)...  
(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 Alberta Lopez for J. E. Dawson  
Producing Accounting Supervisor  
Title Date 11-14-84

Subscribed and sworn to before me this 14 day of November 1984  
Notary Public Judith A. Olsen  
Date Commission Expires 11-28-84

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)

NEW PANOMA WELL  
PRODUCER CODE 6010

Sec 5 Twp 33 Rge 35 W

Operator Name Mobil Oil Corporation Lease Name Mann #4 Ut. Well # 6

Sec. 5 Twp. 33S Rge. 35  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	2618	
Council Grove	2968	

Acid/frac Record

8/4/84: Acidize 2000 gals. 15% HCL, 6 gals. A-200, 20 gals. H-47, 4 gals. F-78. Pump and drop 54 ball sealers at 135 gals. Frac - pumps to 5 1/2" csg. Frac as follows: 15M pad, 10M gals. 2/10M# 20-40 sand at 1#/gal. 10M gals. w/20M# 20-40 sand at 2#/gal. 75M gals w/225M# 20-40 sand at 3#/gal. Flushed 3M gals. frac wtr. containing 2400# WS-11, 120 gals, suds, 120# E8W-3 and 12 gals. BE-3.

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"	24#	658'	Class H	335	12% gel + 3% CaCl <sub>2</sub>
Production	7 7/8"	5 1/2"	15.5#	3200'	Class H	680	3% CaCl <sub>2</sub> 6% gel + 1/4# 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	2996-3002 2988-2994			See acid/frac record detailed above			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size 2 3/8"		Set At 3029.78'		Packer at	
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

Production Interval

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

Dually Completed  
 Commingled

2988-3002-02

NEW PANOMA WELLS  
 PRODUCER OF