

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 Damac 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 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
6/24/84 6/30/84 9/7/84
Spud Date Date Reached TD Completion Date
3200' 3142'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 1744 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

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 C. J. Park
Producing Accounting Supervisor
Title Date 10-30-84

Subscribed and sworn to before me this 30th day of October 1984
Notary Public Mary Ellen McFarland
Date Commission Expires June 16, 1984

NEW PANOMA WELL
PRODUCER CODE 6010

API NO. 15-189-20,736-00-00
County Stevens
C NW Sec. 27 Twp. 33S Rge. 35

3960 Ft North from Southeast Corner of Section
3993 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

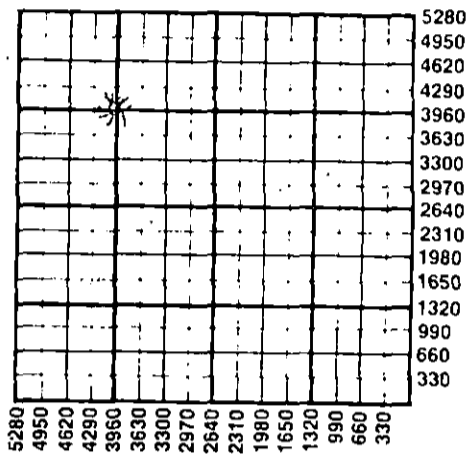
Lease Name Hilbig No. 2A Ut. Well #3

Field Name Panoma

Producing Formation Council Grove

Elevation: Ground 2982' 2992' KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # CD-3805 Repressuring
(C-19,820)

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

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

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
RECEIVED
STATE CORPORATION COMMISSION

Form ACO-1 (7-84) 1984
11-3-84
CONSERVATION DIVISION
Wichita, Kansas

Sec 27 Twp 33S Rge 35W

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Hilbig No. 2A Ut. Well # 3

Sec. 27 Twp. 336 Rge. 35 County Stevens

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

Chase 2650
 Council Grove 3014
 (A-zone)

Acid/frac Record

9/5/84 - Swabbed fluid in casing down to top of perms. Acidized perms and dropped 63 ball sealers. Breakdown 2700-600 psi. MIP 3200 psi, AIP 450 psi. MIR 13 BPM, AIR 12 BPM. Balled off, MKOB. Pumped remainder of acid into formation. Frac perf interval with WG-11 fluid and additives and 122,500 lbs. 20/40 sand and 3030 gals. flush. MIP 1000 psi., AIP 800 psi. AIR 61 BPM. ISIP 100 psi. Ran frac temperature survey log.

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#	1744'	Class H	575	2% CaCl ₂
Production	7.7/8"	5.1/2"	15.5#	3190'	Class H	410	.6% gal. 8% salt
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	3034-3040			Acid/frac record detailed above			
	3042-3046						
TUBING RECORD				Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Size 2 3/8"		Set At 3070'		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

Production Interval

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

Dually Completed
 Commingled

3034-3046

NEW RAYMOND WELL