

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 Co

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

Contractor: License # 9137
Name Unit Drilling Company

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

4/14/84 4/27/84 11/14/84
Spud Date Date Reached TD Completion Date
6550' 3275'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1762 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

189-20,711-00-00

API NO. 15

County Stevens

NE NE NW 24 34S 36 East
Sec Twp Rge West

4933.6'
3006.7' Ft North from Southeast Corner of Section
Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

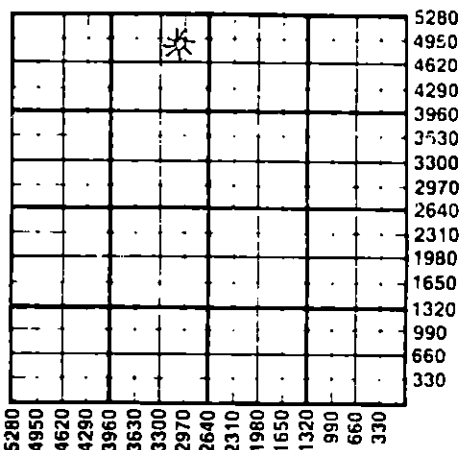
Lease Name Ha worth #2 Ut. Well # 3

Field Name Walkemeyer Field Panoma Gas Area

*Producing Formation Panoma Council Grove

Elevation: Ground 3047' 3063.5 KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # CD-3805 (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 # N/A when drilled

Groundwater...Ft North from Southeast Corner (Well) ...Ft West from Southeast Corner
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) (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

Title Producing Accounting Supervisor Date

Subscribed and sworn to before me this 3rd day of July 1985

Notary Public

Date Commission Expires Dec 10th 1985

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
RECEIVED
STATE CORPORATION COMMISSION

FORM 300-1 (7-84)

Sec 24 Twp 34 Rge 36W

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Haworth #2 Ut. Well # 3

Sec. 24 Twp. 34S Rge. 36 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	2620	
Council Grove	3036	
T.D.	6550	

Acid/Frac Record

Acidize formation down 5 1/2" casing w/2100 gals. 15% HCL acid at 15 BPM. Dropped 63 ball sealers through treatment. Good ball action. Frac'd formation w/110,000 gals. gelled water containing 270,000# 20/40 sand at the following concentrations:

- 10,000 gal. pad
- 10,000 gal w/1 ppg sand
- 10,000 gal w/2 ppg sand
- 10,000 gal w/3 ppg sand
- Flushed with 3,055 gals. water.

CASING RECORD <input 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"	9-5/8"	36#	1762'	Class H	530	12% gel, 3% CaCl ₂
Production	8-3/4"	5-1/2"	15.5#	3300'	Class H	125	3%
					Class H	580	12% gel, 3% CaCl ₂
					Class H	240	3 CaCl ₂
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	3056-3068 Council Grove			Acid/Frac Record			
	3070-3072 "A"			detailed above			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	Size 2-3/8"	Set At 3068'	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 Sold Used on Lease
 Open Hole Perforation Other (Specify)
 Dually Completed Commingled

