

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

Purchaser Northern Natural

Operator Contact Person J. E. Dawson
Phone (303) 298-2696

Contractor: License # 9137
Name Unit Drilling & Exploration

Wellsite Geologist R. C. Stever
Phone (303) 298-2294

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If ONWO: old well info as follows:
Operator _____
Well Name _____
Comp. Date _____ Old Total Depth _____

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
1-21-86 2-3-86 2-28-86
Spud Date Date Reached TD Completion Date
6600' 6488*
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 1773 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 3191-93 feet
If alternate 2 completion, cement circulated from _____ feet depth to _____ w/ _____ SX cmt

API NO. 15-189-20883-00-00

County Stevens

NE SW Sec. 24 Twp. 33S Rge. 35 East West

1980 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

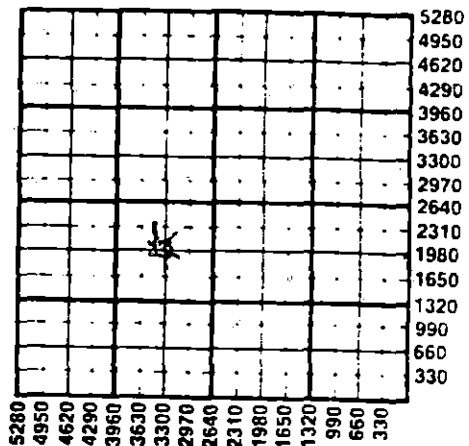
Lease Name Groethe 1-A Unit Well # 2

Field Name Wildcat

Producing Formation Morrow

Elevation: Ground 2967 KB 2983

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: T86-15
Division of Water Resources Permit # 165' NE of gas well

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) _____ (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 J. E. Dawson

Title Production Accounting Supervisor Date 7.25.86

Subscribed and sworn to before me this 29 day of April 1986

Notary Public Claudia C. Aoustek

Date Commission Expires 2-9-88

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

Sec. 24 Twp. 33S Rge. 35 W

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Groethe 1-A Unit Well # 2

Sec. 24 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

Frac Record:

8,000 gals 70QN
 3,000 gals 70QN₃ w/1 ppg 20/40 sand
 3,000 gals 70QN₃ w/2 ppg 20/40 sand
 4,000 gals 70QN₃ w/3 ppg 20/40 sand
 Flush w/30,850 15% N₂

Name	Top	Bottom
Stone Corral	1753	
Chase	2692	
Council Grove	2994	
Wabaunsee	3389	
Shawnee	3824	
Lansing	4353	
Marmaton	4642	
Cherokee	5305	
Morrow	5769	
Chester	6117	
St. Louis	6472	

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#	1773'	"H"	250	
					65/35POZ	650	3% CaCl ₂
					"H"	100	3% CaCl ₂
Production	7-7/8"	5-1/2"	15.5#	6596'	3-P	85	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	
4	6014-21			(see frac record above)			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size		Set At	Packer at				
2-7/8"		*5900'	5900'				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
Estimated Production Per 24 Hours	--- Bbls	--- MCF	--- Bbls	--- CFPB			

METHOD OF COMPLETION

Production Interval:

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 6014-21'
 Used on Lease Dually Completed
 Commingled

* 150 sx 50/50 POZ w/2% CaCl₂