

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 Gas

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

Contractor: License # 6666  
Name NRG Drilling Inc.

Wellsite Geologist J. Bauman  
Phone (303) 298-3706

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

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

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
3/21/86 3/26/86 4/30/86  
Spud Date Date Reached TD Completion Date  
3140 3075  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1112 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. 15-055-20638-0000  
County Finney  
NW NW SE 34 24S 34  East  
Sec Twp Rge  West

2290 Ft North from Southeast Corner of Section  
2410 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

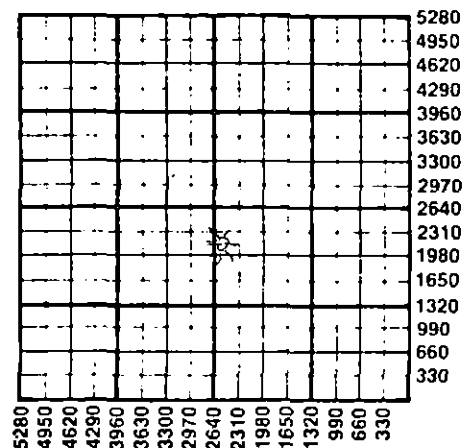
Lease Name Brown #28 Farm Well # 29

Field Name Panoma

Producing Formation Council Grove 'A'

Elevation: Ground 2993 KB 3004

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # CD-4809  Repressuring

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  
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  
Riverside Ranch

Other (explain) 17-24-33 Finney Co...  
(purchased from city, R.W.D. #)  
Hauled via Latham

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 8.7.86

Subscribed and sworn to before me this 7th day of August 1986

Notary Public D. J. Cavette

Date Commission Expires MY COMMISSION EXPIRES 7/2/90

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)

8-12-86

AUG 12 1986

Sec 34 Twp 24 Rge 34W

Operator Name Mobil Oil Corporation Lease Name Brown #28 Farm Well # 29

Sec. 34 Twp. 24S Rge. 34  East  West County Finney

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 Data Report:

60 gals 15% MSR acid  
 68 gals 2% KCl  
 48 gals Fre-Flo<sup>®</sup> prepad  
 310 gals YF 3 X-L pad  
 120 gals YF 3 X-L w/1 ppg 12/20 sd.  
 120 gals YF 3 X-L w/2 ppg 12/20 sd.  
 143 gals YF 3 X-L w/3 ppg 12/20 sd.  
 167 gals YF 3 X-L w/4 ppg 12/20 sd.  
 167 gals YF 3 X-L w/5 ppg 12/20 sd.  
 67 gals 2% KCl Flush

Name	Top	Bottom
Glorietta	1460	
Stone Corral	1882	
Chase	2494	
Council Grove	2800	

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#	1112	"H"	330	12% gel + 3% CaCl <sub>2</sub>
					"H"	100	3% CaCl <sub>2</sub>
Production	7 7/8"	5 1/2"	15.5#	3120	"H"	370	6% gel + 4% Halad-4
					"H"	130	2% gel
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	2820-2844			(See Above)			
TUBING RECORD				Size	Set At	Packer at	Liner Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				2 3/8"	2878		
Date of First Production		Producing Method					
n/a		<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

2820-2844