

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 Corp.  
Address P.O. Box 5444  
City/State/Zip Denver, Colorado 80217

Purchaser Northern Natural Gas

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

Contractor: License # 7547  
Name Patrick

Wellsite Geologist K. E. Stollenwerk  
Phone (303) 298-3748

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

8-14-85 8-18-85 9-16-85  
Spud Date Date Reached TD Completion Date  
3253' 3176'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 723 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. 15-189-20 765-00-00

County Stevens

SE SE NW Sec 13 Twp 34S Rge 37  East  West

2970... Ft North from Southeast Corner of Section  
2970... Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

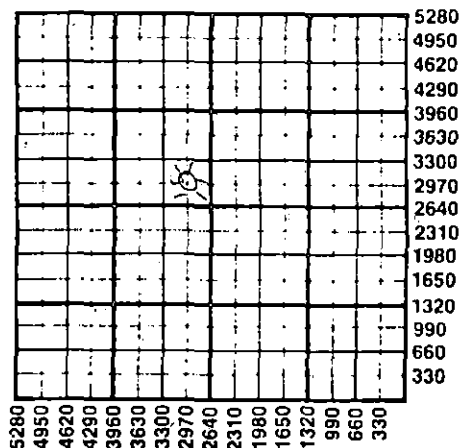
Lease Name Cunningham #1 Well # 4

Field Name Panoma

Producing Formation Council Grove

Elevation: Ground 3132 KB 3143

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  Repressuring  
Docket # CP-8787 (C-19,411)

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

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

Title Production Accounting Supervisor Date 3-21-88

Subscribed and sworn to before me this 25th day of March 1988

Notary Public Claudia C. Saustek

Date Commission Expires 2-9-88

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)

RECEIVED Form ACO-1 (7-84) STATE CORPORATION COMMISSION

APR - 3 1986

Sec 13, Twp 34, Rge 37

SIDE TWO

Operator Name Mobil Oil Corp Lease Name Cunningham #1 Unit Well # 4

Sec. 13 Twp. 34S Rge. 37  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'd down 5 1/2" casing w/78,000 gals.  
 Versagel 1,300 containing 220,000# 16/30 mesh sand @ 30 BPM.

| Name                   | Top  | Bottom |
|------------------------|------|--------|
| Ogallala               | 475  |        |
| Dakota SS-Base         | 700  |        |
| Taloga - Base          | 810  |        |
| Glorietta - Base       | 1160 |        |
| Stone Corral - Base    | 1775 |        |
| Chase                  | 2650 |        |
| Council Grove A - Zone | 3014 |        |
| Council Grove B - Zone | 3089 |        |

| 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 1/2"                                     | 8-5/8"  | 32#            | 723   | "H"            | 250   | 12% gel + 3% CaCl <sub>2</sub> |
|   |   |   |                |   | "H"            | 125   | 3% CaCl <sub>2</sub>           |
| Production  | 7-7/8"                                      | 5-1/2"  | 15.5#          | 3253  | Lite           | 500   | 4% Ha-4                        |
|   |   |   |                |   | "H"            | 130   | 8% salt + 4% Ha-4              |
| 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   | 3056-60                                     | 3078-84   |                |   |                |   |                                |
|   | 3064-68                                     | 3090-96   |                |   |                |   |                                |
|   | 3072-74                                     |   |                |   |                |   |                                |
| TUBING RECORD   |   | Size  | Set At         | Packer at                                   | Liner Run      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                |
|   |   | 2-7/8"  | 3091           |   |                |   |                                |
| 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) .....

3056-3096.0 A

Dually Completed  Commingled