

* Amended 7/30/86

5
SIDE ONE

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 # 6666
Name NRG Drilling, Inc.

Wellsite Geologist J. M. 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 OWNO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

.....12-3-85.....12-9-85.....3-17-86.....
Spud Date Date Reached TD Completion Date
.....2847.....2837.....
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1434 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. 15-189-20886 60-00
County Stevens
SE SE 5 34S 38 East
..... Sec..... Twp..... Rge..... West

1250 Ft North from Southeast Corner of Section
1250 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Forward #1 Unit Well # 3
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3222 3233 KB

Section Plat

Grid showing section plat with coordinates 5280-330 on both axes.

STATE CORPORATION COMMISSION
JAN 14 1987
CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket # CD-57811
(C-19,354)

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)..... (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 6.25.86

Subscribed and sworn to before me this 31st day of July 1986
Notary Public My Commission Expires

J.A. Williams for J.E. Dawson
This amended form is subscribed & sworn to before me this 31st day of July, 1986.

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)

Form ACO-1 (7-84)

Deborah Cavette - Notary
MY COMMISSION EXPIRES 7/2/90

Sec 5 Twp 34 Rge 38

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Forward #1 Unit Well # 3
 Sec. 5 Twp. 34S Rge. 38 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:

23,000 gals BF
 8,000 gals BF w/1 ppg 12/20 sd
 8,000 gals BF w/2 ppg 12/20 sd
 10,000 gals BF w/3 ppg 12/20 sd
 13,000 gals BF w/4 ppg 12/20 sd
 13,000 gals BF w/5 ppg 12/20 sd
 2,700 gals BF

Base Fluid: 2% KCL water
 (30# gelled crosslinked system)

Name	Top	Bottom
T/Taloga	649	
B/Taloga	793	
T/Glorietta	1156	
T/Stone Corral	1691	
B/Stone Corral	1757	
T/Chase (Herrington)	2567	
T/L. Krider	2628	
T/Winfield	2676	
T/Towanda	2740	
T/Fort Riley	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#	1434			
Production	7-7/8"	5-1/2"	15.5#	2847	6.5/35% "H"	460 130	6% salt, 4% H ₂ O 8% salt, 4% H ₂ O
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	2810-25 2763-2798 2750-60 2697-2703 2638-73 2610-26 2580-84 2572-74			(See above)			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size	Set At	Packer at			
		2-3/8"	2837'	2542			
Producing Method		Date of First Production					
<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain)							
Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity		
1100							

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation 2572-2825 O.A.
 Sold Other (Specify)
 Used on Lease Dually Completed
 Commingled