

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 # 5447  
Name OXY USA Inc.  
Address P.O. Box 26100  
Oklahoma City, OK 73126-0100  
City/State/Zip

Purchaser Northern Natural Gas

Operator Contact Person Raymond Hui  
Phone (405) 949-4268

Contractor: License # 3098  
Name Exeter Drilling Company

Wellsite Geologist Robert Vick  
Phone (405) 949-4400

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

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

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
..2-3-1988.. ..2-4-1988... ..7-11-1988..  
Spud Date Date Reached TD Completion Date  
Re-Entry  
6480 .. 6426  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1606 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set DV Tool 3329 feet  
If alternate 2 completion, cement circulated  
from .. feet depth to .. w/ .. SX cmt  
Cement Company Name  
Invoice #

API NO. 15-175-01002  
County Seward  
SE/4 NE/4 NE/4 Sec. 32 Twp. 33S Rge. 33 East  
X West

4617 Ft North from Southeast Corner of Section  
657 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

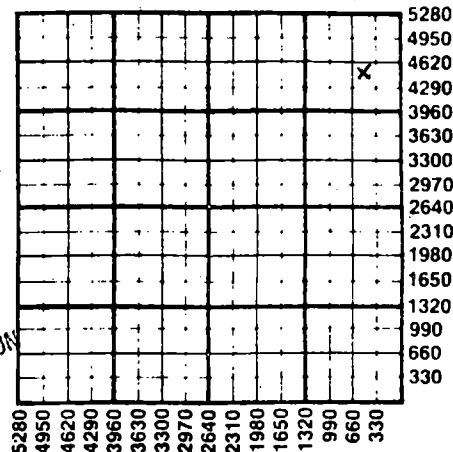
Lease Name Smith T Well # 1

Field Name Kansas Hugoton Gas

Producing Formation Chase

Elevation: Ground 2844' KB 2854'

Section Plat



RECEIVED  
AUG 12 1988  
STATE CORPORATION COMMISSION  
CONSERVATION DIVISION  
Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water:  
Division of Water Resources Permit # T88-46

Groundwater 4717 Ft North from Southeast Corner  
(Well) 557 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 triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 Bryan Humphries  
Title Engineering Manager Date 8-11-1988

Subscribed and sworn to before me this 11th day of August 1988  
Notary Public Marsha G. Wilson  
Date Commission Expires 4-1-92

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)  
8-12-88

Operator Name OXY USA Inc. Lease Name Smith T Well # 1

Sec. 32 Twp. 33S Rge. 33  East  West County Seward

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

Ran CBL/CET w/GR & CCL from 6426' to 1400'. TOC above 1400'.

Name	Top	Bottom
Marmaton		est. 5074
Morrow		5684
St Louis		6404
	TD	6480
	PBTD	6426

Production Casing Record

Cemented 1st stage w/500 gal mud flush, 50 sx C1 H Pozmix w/6% gel & 1/4# Flo., 210 sx 65/35 C1 H Pozmix w/6% gel + 1/4# Flo. and 430 sx 50/50 CL H Pozmix w/2% gel, 12% salt 0.5% Halad-9, 2% CaCl<sub>2</sub>.

Cemented 2nd stage w/500 gal mud flush, 500 sx of 65/35 C1 C Poz. w/6% gel & 1/4# Flo. & 315 sx 50/50 C1 C Poz. w/2% gel, 5#/sx Cal-Seal, 0.4% Halad-4, 2% CaCl<sub>2</sub> + 1/4#/sx Flo.

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"	24#	1606'	C1 H	unknown	
Production	7-7/8"	5-1/2"	15.5#	6479'	(Please refer to casing info above.)		
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated					Depth	
4	Upper Chester 5986-6012' (26'; 104 holes)			250 gal of 15% HM SCS-1 Acid from 6012 to 5742'			
				Acidized w/2600 gal of 20% HCL			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Set At		Packer at			
Waiting for pipeline connection.		2-3/8"		5969'			
Producing Method		Oil		Gas		Water	
<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....							
Estimated Production Per 24 Hours		CAOF		MCF		CFPB	
		1570					

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... 5986-6012  
 Used on Lease  Dually Completed .....  
 Conmingled