

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15-175-20942-R 0001

County Seward

NW/4 NW/4 SW/4 Sec. 12 Twp. 32S Rge. 34 East X West

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

2600 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)
(Formerly Hoffman S #1)

Lease Name Hoffman E Well # 4

Purchaser Northern Natural Gas Co.

Field Name Kansas Hugoton Gas I N F I L L

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

Producing Formation Chase

Elevation: Ground 2837' KB 2846'

Contractor: License #
Name H-30 Drilling Company

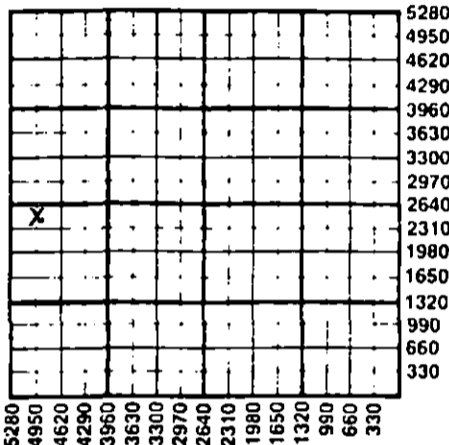
Wellsite Geologist Robert Vicks
Phone (405) 749-2000

Designate Type of Completion
X New Well Re-Entry Workover
Oil SWD Test
X 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

RECEIVED
STATE CORPORATION COMMISSION
11-2-1988
CONSERVATION DIVISION
Wichita, Kansas

Section Plat



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 # T87-240

X Groundwater 2480 Ft North from Southeast Corner
(Well) 5000 Ft West from Southeast Corner of
Sec 12 Twp 32S Rge 34 East X 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. #)

WELL HISTORY

Drilling Method: X Mud Rotary Air Rotary Cable
6-24-1987 7-4-1987 8-17-88
Spud Date Date Reached TD Completion Date
5800' 2803'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1647' feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt
Cement Company Name
Invoice #

or I

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 10-21-1988

Subscribed and sworn to before me this 21st day of October 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 Time log Received

Distribution

X KCC SWD/Rep NGPA
X KGS Plug Other (Specify)

11-2-88
Form ACO-1 (5-86)

Sec 12 Twp 32S Rge 34W

SIDE TWO

Operator Name **OXY USA Inc.** Lease Name **Hoffman F.** Well # **4**

Sec. **12** Twp. **32S** Rge. **34** 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 Dual Induction -SFL w/GR, CNL w/GR and Caliper & Micro w/GR from 5798' to 1648'. Ran CBL & CET w/GR & CC logs from 2803' to surface.

Name	Top	Bottom
Cin. Anhy.	0	1648'
Lime & Shale	1648	5800'
PBTD		2803'
TD		5800'

Set CIBP at 5560'. Perf. 4 holes to squeeze at 2860'. Cemented 5-1/2" csg. to surf. w/50 sx Cl C w/6% total gel & 1/4#/sx Flo., followed by 230 sx Cl w/6% total gel & 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
Conductor Pipe	32"	20"		50'	Redi-Mix	6 sx	
Surface	12-1/4"	8-5/8"	24#	1647'	Cl C	725	6% gel; 2% CaCl ₂
Production	7-7/8"	5-1/2"	15.5#/14#	5799'	Cl C	250	6% gel; 1/4# LCM/sx; 12% salt
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	Gen. 5622-37' (15' : 60 holes) (squeezed)			Acidized w/2250 gal. 15% SC-1			
1 Chase	2618-2644'; 2574-2604'; 2562-2567'; 2548-2557'; 2542-2546'; 2528-2530'; 2516-2524'			w/2000 gal. 28% HCL Frac'd w/94 bbls 2% KCLW Acidized w/5000 gal. 15% HCL Frac'd w/42,000 gal. 25# HPG gel.			
TUBING RECORD		Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
8-17-1988							
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
0 Bbls		267 MCFPD MCF		0 Bbls		CFPB	

METHOD OF COMPLETION

Production Interval

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

2516-2644'