

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. 15-175-21045-0001
County Seward
C-SE/4 NE/4 Sec. 17 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

3300 Ft North from Southeast Corner of Section
660 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)
(formerly Jerman B #2)
Lease Name Jerman A Well # 3

Purchaser Northern Natural

Field Name Kansas Hugoton Gas

Operator Contact Person Raymond Hui
Phone (405) 749-2471

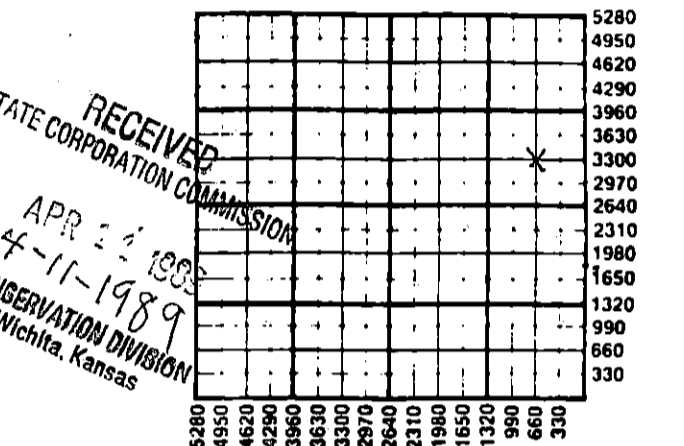
Producing Formation Chase
Elevation: Ground 2942' 2953' KB

Contractor License # 3098
Name Exeter Drilling Company

Wellsite Geologist Robert Vick
Phone (405) 749-2000

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

Section Plat



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

WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY

Drilling Method:
X Mud Rotary Air Rotary Cable
10-31-88 11-11-88 4-7-89
Spud Date Date Reached TD Completion Date
3250 3191
Total Depth PBTD

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water: T88-508
Division of Water Resources Permit #

X Groundwater 2660 Ft North from Southeast Corner
(Well) 70 Ft West from Southeast Corner of
Sec 17 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. #)

Amount of Surface Pipe Set and Cemented at 1713 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 #

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 slide 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 4-7-1989

Subscribed and sworn to before me this 7th day of April 1989
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)
4-11-89 X

Section Twp 32S Rge 34E

Operator Name VOXY USA Inc Lease Name Jerman A Well # 3

Sec. 17 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 DIL-SFL w/SP and GR log; CNL-Litho. w/GR & Caliper log & Microlog. Ran CBL, CET, CCL and cement scan logs from 3191 to 200'. Ran Natural GR log from 3070-2400'.

Spotted 100 sx CL H cmt. plug from 5550-5700'; pulled DP to 3300' & spotted 100 sx CI H cmt.

Name	Top	Bottom
Lime & Shale	0	1714
Shale	1714	2525
Dolomite	2525	3080
Lime	3080	4960
Shale	4960	5400
Lime & Shale	5400	5960
Lime	5960	6400
	TD	- 3250
	PBTD	3191

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"		37'	Red. mix	4 yds	
Surface	12-1/4"	8-5/8"	24#	1713'	CI C	635	6% gel; 2% CaCl ₂
Production	7-7/8"	5-1/2"	14#	3246'	CI H	1250	6% gel; 1#/sx Cello
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	Winfield 2730-2756'; Krider 2682-2714'; Herington 2661-2666'; 2651-2654'; Hollenberg 2624-2636'			Acidized w/5000 gal 15% HCL Frac'd w/60,500 gal of 70 quality 40# gal Nitrogen foam.		2624-2756'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production	Producing Method						
4-7-1989	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
Estimated Production Per 90 min.	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	---	3/4" choke 1407 MCF	---	---	---		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold Used on Lease Open Hole Other (Specify) Perforation
 Chase
 2624-2756'

PLAT AND CERTIFICATION OF ACREAGE ATTRIBUTABLE TO A GAS WELL

State Corporation Commission, Conservation Division
245 North Water Wichita, Kansas 67202

OPERATOR OXY USA Inc.
(Formerly Jerman B #2)
LEASE Jerman A
WELL NUMBER 3
FIELD Kansas Hugoton Gas

LOCATION OF WELL
3300 feet from the S line
660 feet from the E line
Of the NE/4 of Sec. 17 T. 32S R. 34W
COUNTY Seward

ORDER GRANTING ALLOWABLE ENTERED IN DOCKET NO. 163.635C (C-24.166)

NUMBER OF ACRES
ATTRIBUTABLE TO WELLS 640

DESCRIPTION OF ACREAGE:

P L A T

(Show location of Well and outline attributable acreage)

			x Jerman A #3
			RECEIVED STATE CORPORATION COMMISSION APR 11 1989 CONSERVATION DIVISION Wichita, Kansas

The undersigned hereby certifies that he is Raymond Hui for OXY USA Inc., a duly authorized agent, that all information shown hereon is true and correct to the best of his knowledge and belief, and that all acreage claimed as attributable to the well named herein is held by production from that well.

Subscribed and sworn to before me on this 7th day of April, 19 89.
Marsha G. Wilson
Notary Public

My Commission Expires 4-1-92