

* Amended

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. 15-175-21029-0000
County Seward
NW/4 SW/4 Sec. 16 Twp. 32S Rge. 34 East West

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

1980 2310 Ft North from Southeast Corner of Section
4620 4950 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser Northern Natural Gas

Lease Name Kapp A Well # 3

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

Field Name Hitch

Contractor: License # 3098
Name Exeter Drilling Company

Producing Formation Lower Morrow Sand

Wellsite Geologist Craig Corbett
Phone (405) 749-2000

Elevation: Ground 2946' KB 2957'

Designate Type of Completion

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

If ONWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

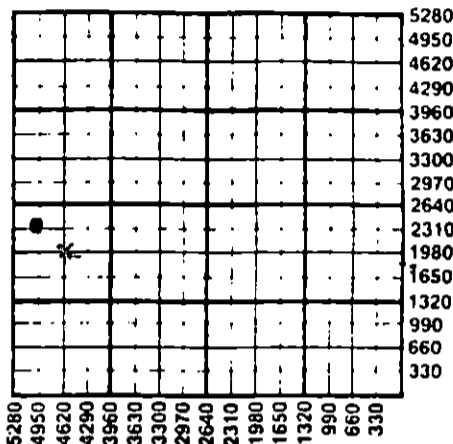
Drilling Method:

- X Mid Rotary Air Rotary Cable

6-3-1988 6-15-1988 8-5-1988
Spud Date Date Reached TD Completion Date
6450' 6155'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 1716 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set DV tool at 3208 feet
If alternate 2 completion, cement circulated
from feet depth to w/SX cmt
Cement Company Name
Invoice #

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: Provided by driller
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 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 12-12-1988

Subscribed and sworn to before me this 12th day of December 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)

RECEIVED STATE CORPORATION COMMISSION

DEC 16 1988
12-16-1988
CONSERVATION DIVISION
Wichita, Kansas

12-16-88
Form ACO-1 (5-86)

Sec 16 Twp 32S Rge 34E

Operator Name OXY USA Inc Lease Name Kapp A Well # 3

Sec. 16 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 BHC Sonic log. Ran DIL-SFL w/SP & GR, CNL-LDT w/GR & Caliper, Microlog w/GR & Caliper & BHC Sonic w/GR & Caliper from 6447' to 1700'.

Name	Top	Bottom
Red Bed	0	800
Cimarron Anhy. Shale	800	1719
	1719	6450
TD		6450
PBTD		6155

*Cement Information:

Cemented 1st stage w/500 gal mud flush, 50 sx 65/35 C1 H Poz. w/6% total gel & 1/4# Floc., followed by 435 sx 65/35 C1 H Poz. w/6% total gel and 1/4# flo. Tailed in w/460 50/50 C1 H Poz. w/2% total gel, 12% salt, 0.5% HALAD-9, 2% CaCl + 1/4# sx Flo. Cemented 2nd stage w/500 gal mud flush followed by 50 sx 65/35 C1 C Poz. w/6% total gel + 1/4# sx Flo., 300 sx 65/35 C1 C Poz. w/6% total gel + 1/4#/sx floc. & 560 sx 50/50 C1 C Poz. w/2% total gel, 5#/sx Cal Seal.

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'	Redi-Mix	4 yds	
Surface	12-1/4"	8-5/8"	24#	1716'	CJ.C	625	6% total gel 2% CaCl + 1#/sx Flo.
Production	7-7/8"	5-1/2"	15.5#	6439'	*(pls. refer to cement info above)		
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	Set CIBP at 6170' Lower Sand Morrow 5764-5770'			3593' gal. of diesel from 5800' to 2385' Frac'd w/ 26500 gal. of CO ₂ foam + 35000 bbls 20/40 sand		5764-5770'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing Method						
Waiting for pipeline connection	<input checked="" 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	
		opens flow 1020	0	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 5764-5770'
 Used on Lease Dually Completed
 Commingled