

* Amended

SIDE ONE

16-32-34W

2nd

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) 749-2471

Contractor: License # 3098
Name Exeter Drilling Company

Wellsite Geologist Craig Corbett
Phone (405) 749-2000

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover

☒ 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:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

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

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

API NO. 15-175-21029
County Seward
C- NW/4 SW/4 Sec. 16 Twp. 32S Rge. 34 East
West

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

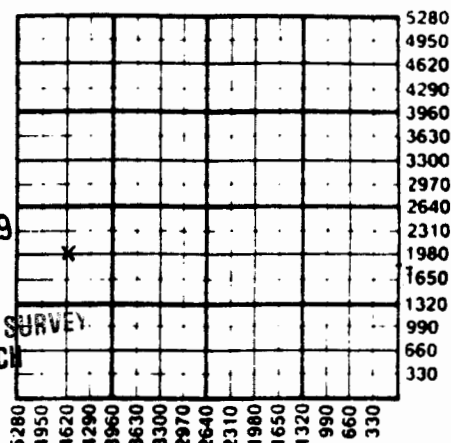
Lease Name Kapp A Well # 3

Field Name N. Hitch

Producing Formation Lower Morrow Sand

Elevation: Ground 2946' KB 2957'

Section Plat



JAN 21 1989

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

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

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

KCC SWD/Rep NGPA
KGS Plug Other
(Specify)

Form ACO-1 (5-86)

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

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

Formation Description
☐ Log ☒ Sample

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

*Cement Information:

Cemented 1st stage w/500 gal mud flush, 50 sx 65/35 Cl H Poz. w/6% total gel & 1/4# Flocc., followed by 435 sx 65/35 Cl H Poz. w/6% total gel and 1/4# flo. Tailed in w/460 50/50 Cl 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 Cl C Poz. w/6% total gel + 1/4# sx Flo., 300 sx 65/35 Cl C Poz. w/6% total gel + 1/4#/sx flocc. & 560 sx 50/50 Cl C Poz. w/2% total gel, 5#/sx Cal Seal.

CASING RECORD ☒ New ☐ 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'	Cl. C	625	6% total gel, 2% CaCl + 1/4#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 5764-5770' 5800' to 2385' Frac'd w/ 26500 gal. of CO ₂ foam + 35000 bbls 20/40 sand			
TUBING RECORD		Size	Set At	Packer at	Liner Run	☐ Yes ☐ No	
Date of First Production		Producing Method					
Waiting for pipeline connection		☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio		Gravity
		Bbls	open flow 1020 MCF	0 Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

5764-5770'

☐ Dually Completed
☐ Commingled