

Amended  
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 # 5398  
Name ARCO OIL & GAS COMPANY  
Address P.O. Box 1610  
City/State/Zip Midland, Texas 79702

\* Purchaser Northern Natural Gas Company  
ARCO Oil & Gas Company

Operator Contact Person Ken W. Gosnell  
Phone 915/688-5672

Contractor: License # 03363  
Name Service Drilling

Wellsite Geologist  
Phone

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

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

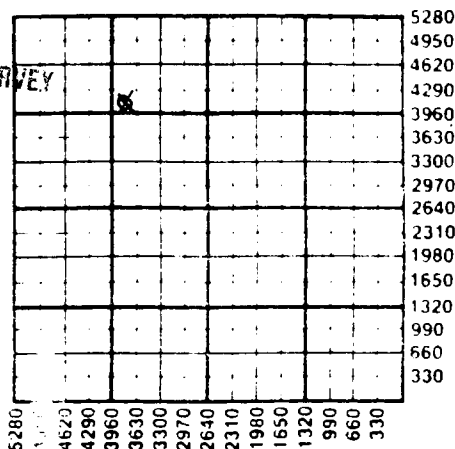
WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
...01/03/88... 01/12/88... 05/04/88...  
Spud Date Date Reached TD Completion Date  
...2800... 2757...  
Total Depth PBD  
Amount of Surface Pipe Set and Cemented at 773 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set... feet  
If alternate 2 completion, cement circulated from... feet depth to... w/... SX cmt  
Cement Company Name  
Invoice #

API NO. 15-... 067-20718  
County Grant  
...SW...NE...NW Sec. 24 Twp. 30 Rge. 38 East  
...3995... Ft North from Southeast Corner of Section  
...3860... Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name R. Keplex "D" Unit Well # 3  
Field Name Hugoton  
Producing Formation Chase  
Elevation: Ground 3140 KB 3149

Section Plat



KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH  
DEC 09 1988  
RECEIVED  
CORPORATION COMMISSION  
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 #.....  
 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) Trucked  
(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 OP-4 form with all plugged wells. Submit OP-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 Ken W. Gosnell  
Title Engineering Tech. Date 7-26-88

Subscribed and sworn to before me this 26 day of July  
1988...  
Notary Public Lois A. Gordy

Date of Commission Expires 6-6-92  
Notary Public, State of Texas  
My Comm. Expires: 6-6-92

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)

SIDE TWO

Operator Name ..... ARGO OIL & GAS COMPANY ..... Lease Name.. R.. Kopley.. "D".. Unit.. Well #... 3....

Sec.. 24..... Twp.... 30... Rge.... 38.....  East  West County..... Grant.....

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

Name	Top	Bottom
Glorieta Sand	1320	
Stone Corral	1700	
Chase	2455	
Krider	2490	
Winfield	2533	
Towando	2599	
Lower Ft. Riley	2650	
Flowrence	2700	
Wreford	2732	
Council Grove	2754	

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 .....	..... 773 .....	..... H .....	..... 550 .....	..... 2% CaCl <sub>2</sub> .....
..... Production.....	..... 7. 7/8 .....	..... 4. 1/2 .....	..... 9. 5 .....	..... 2800 .....	..... POZ .....	..... 625 .....	..... .....
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
..... 2 .....	..... 2652-2678, 2600-2632 .....			..... A.w/3900 gals. Frac.w/.....		..... .....	
..... 2 .....	..... 2466-2480, 2490-2510, 2528-2566 .....			..... 4826 bbls. 30 #. XL & 477,000 #. 12/20 .....		..... .....	
..... 2 .....	..... 2466-2480, 2490-2510, 2528-2566 .....			..... A.w/3300 gals .....		..... .....	
TUBING RECORD		Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
None							
Date of First Production		Producing Method					
04/01/88		<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	Gas	Water	Gas-Oil Ratio	Gravity	
.....		0 Bbls	1200 MCF	0 Bbls	NA	CFPB	.720 GAS

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... 2600 - 2678.....  
 Used on Lease  Dually Completed .....  
 Commingled