

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 Cities Service Oil & Gas Corp
Address 3545 NW 58th Street
Oklahoma City, Oklahoma
City/State/Zip 73112

Purchaser Northern Natural Pipeline Co

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

Contractor: License # 3098
Name Exeter Drilling Company

Wellsite Geologist Andrew Howell
Phone (405) 949-4400

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
10-21-87 10-24-87 2-16-88
Spud Date Date Reached TD Completion Date
2730' 2677'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 711 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. 15-129-20893-00-00
County Morton
NE/4 SW/4 SW/4 Sec. 18 Twp. 34S. Rge. 40 East West

1250 Ft North from Southeast Corner of Section
4030 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

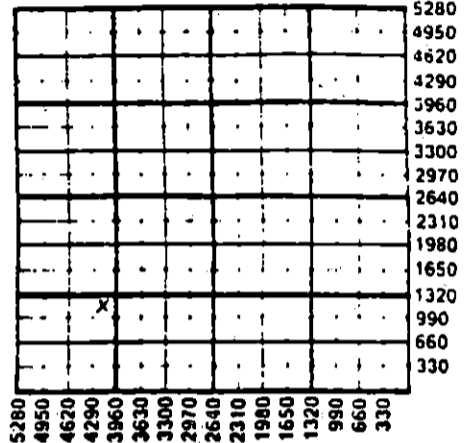
Lease Name Waymire A Well # 3

Field Name Kansas Hugoton Gas

Producing Formation Chase

Elevation: Ground 3382' KB 3393'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket #

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).....Purchased..... (purchased from city, R.O.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 Del G. Oliver

Title Assistant Manager of Prod. Date 2-17-88

Subscribed and sworn to before me this 17th day of February, 1988

Notary Public Jessa Jo Rowlett

Date Commission Expires 4-24-89

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

FEB 23 1988

Form ACO-1 (5-86)

CONSERVATION DIVISION Wichita, Kansas

Operator Name ... Cities Service Oil & Gas Corp ... Lease Name ... Waymire A ... Well No. ... 3

Sec. ... 18 ... Twp. ... 34S ... Rge. ... 40 ... East West ... County ... Morton

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 & GR, CNL-LDT w/GR & Caliper & Microlog w/GR from 2710-710'. Ran CBL/CCL/Variable Density w/GR Logs from 2669-700'. Ran CET log from 2669-700'.

Name	Top	Bottom
Red Bed	0	712'
Sand	712	1350'
Lime & Shale	1350	2730'
TD		2730'
PBTD		2677'

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	30"	20"		25'	Red-Mix	25 yds	
Surface	12-1/4"	8-5/8"	24#	711'	Cl C	325	6% gel; 2% CaCl ₂
Production	7-7/8"	5-1/2"	15.5#	2729'	Cl C	450	6% gel; 1/4# per :sx LCM; 6% 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	
1	Chase: 2565-2566'; 2550-64'; 2535-40'; 2501-17'; 2485-2501'; 2476-2485'; 2448-64'; 2432-48'; 2416-32'; 2404-16'; (one extra hole @ 2499 & 2405.5')(120'; 126 holes)			5000 gal. 2% KCLW Fraced w/107,403 gal. N ₂ foam		2404-2566'	
TUBING RECORD		Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		2-3/8"	2386'				
Date of First Production		Producing Method					
Waiting on PL Connection		<input type="checkbox"/> Flowing <input checked="" 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	
		Bbls	706 MCF	34 Bbls	CFPB		

METHOD OF COMPLETION

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

Production Interval

Chase
 2404-2566'