

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

S

API NO. 15-^{NA} 15-129-01004-0001
County... Morton
C SE NW Sec... 4 Twp... 35 Rge... 41 East
X West

Operator: License 5447
Name... Cities Service Oil and Gas Corp.
Address... 3545 NW 58th Street
City/State/Zip... Oklahoma City, OK 73112

660 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser... Northern Natural Gas Company
2223 Dodge St., Omaha NE 68102

Lease Name... Gore "D" Well #... 2
Field Name... Greenwood
Producing Formation... Topeka

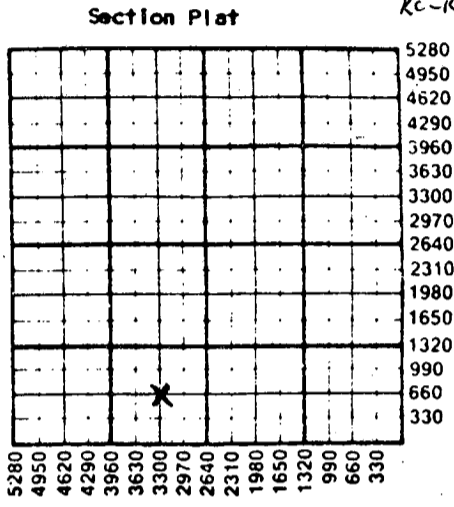
Operator Contact Person... Richard E. Adams
Phone... (405) 949-4256

Elevation: Ground... 3494' KB... NA
Kc-KU

Contractor: License #... N.A.
Name...

Wellsite Geologist
Phone...

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



If OWWO: old well info as follows:
Operator... Cities Service Oil & Gas Corp.
Well Name... Wilburton Morrow Sand Unit #2302
Comp. Date... 2/15/62 Old Total Depth... 5258'

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY

Drilling Method:
X Mud Rotary Air Rotary Cable
1/17/62 2/6/62 1/8/74
Spud Date Date Reached TD Completion Date
5258' 4945'
Total Depth PBDT

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

Amount of Surface Pipe Set and Cemented at 1504 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 #

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 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... Delbert G. Oliver
Title... Region Engineering Manager Date... 9/15/86

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)

Subscribed and sworn to before me this 15 day of Sept 1986
Notary Public... Jan Thompson
Date Commission Expires... 6-24-89

9-17-86
SEP 17 1986

Sec. 4 Twp. 35 Rge. 41 W

Operator Name Cities Service Oil and Gas Corp. Lease Name..... Gore "D" Well #..... 2

Sec..... 4 Twp..... 35 Rge..... 4J 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

Name	Top	Bottom
Sand and shale	0	163
Sand, Red Bed & Gyp	163	670
Red Bed	670	885
Gyp	885	955
Red Rock, Shale & Gyp	955	1045
Sand & Shale	1045	1494
Anhydrite	1494	1505
Anhyd-Gray Dol	1505	1580
Shale & Lime	1580	5258
T.D.		5258

CASING RECORD <input 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 Production	12 1/2"	8 5/8"	24#	1504'	Common	974	
	7 1/2"	5 1/2"	14#	4982'	Pozmix	300	4% gel

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	3216-3226'	Acidized w/Dowell	3216-
2	3262-3266'	15% HCL & BDA approx	3266
		24000 gallons	

TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Size	Set At	Packer at			
1 1/2"	3272'	4856'			

Date of First Production	Producing Method				
1/8/74	<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
	--- Bbls	CAOF 2505 MCF	---	Bbls	CFPB

METHOD OF COMPLETION

Production Interval

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

Topeka

 3216-3266'
