

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 N.W. 58th Street
City/State/Zip Okla. City, Okla. 73112

Purchaser Northern Natural Pipeline Co.

Operator Contact Person Raymond Hui
Phone (405) 949-4400

Contractor: License # 5141
Name Zenith 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 OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

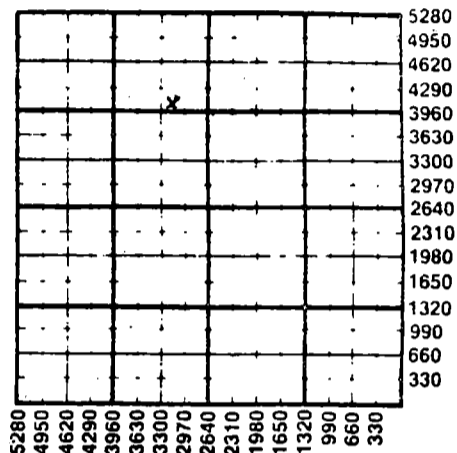
Drilling Method: Mud Rotary Air Rotary Cable
6-11-87 6-19-87 2-5-88
Spud Date Date Reached TD Completion Date
5020' 3071'
Total Depth PBT
Amount of Surface Pipe Set and Cemented at 1926 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/SX cmt

API NO. 15-055-20705-0000
County Finney
Approx. SE/4 NE/4 NW/4 Sec. 27 Twp. 24S Rge. 33 East West

3980 Ft North from Southeast Corner of Section
3040 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Tait C Well # 8
Field Name Panoma
Producing Formation Council Grove

Elevation: Ground 2911' KB 2922'
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 # 87-167
 Groundwater 3830 Ft North from Southeast Corner
(Well) 3040 Ft West from Southeast Corner of
Sec 27 Twp 24S Rge 33 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 duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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 here are complete and correct to the best of my knowledge.

Signature Del G. Oliver

Title Assistant Manager of Production Date 2-17-88

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

Notary Public Debra Jo Howell

Date Commission Expires 4-24-89

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

2-23-89

1st 27 Twp 24 Rge 33 S12

Operator Name Cities-Service Oil & Gas Corporation Lease Name Tait C Well # 8

Sec. 27 Twp. 24S Rge. 33 East West County Finney

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 CNL-LDT, Caliper-Microlog w/GR & SP from 5016'. Ran CBL/CCL/GR, CET w/GR & cmt. scan logs from 3065-1900'.

Name	Top	Bottom
Clay	0	800'
Cim. Anhy.	800	1927'
Red Bed	1927	2020'
Lime & Shale	2020	4955'
Shale	4955	5020'
TD		5020'
PBTD		3071'

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"	21"		69'	Red 1-MIX	7 yds.	
Surface	12-1/4"	8-5/8"	24#	1926'	Cl C	725	6% gel; 2% CaCl ₂
Production	7-7/8"	5-1/2"	14#	3129'	Cl C	370	6% gel; 12% salt
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	Council Grove; 2842-52'; 2856-66'; 2875-87'; (32'; 67' holes)			200 gals 10% acetic acid Fraced w/72,960 gal foam		2842-2887' 2842-2887'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size	Set At	Packer at					
2-3/8"	2858'						
Date of First Production		Producing Method					
Waiting on PL Conn.		<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	
CAOF		Bbls	502 MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

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

Council Grove
 2842-2887'

Rec'd check \$100⁰⁰ 5-4-87 APPLICATION FOR TEMPORARY PERMIT
T 89-167



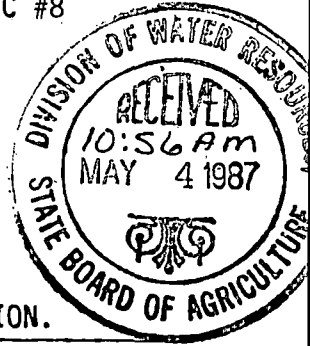
Area 4
GMD3

TO USE GROUNDWATER
 TO USE SURFACE WATER
(check one)

Tait C #8

THE STATE OF KANSAS

Submit To:
CHIEF ENGINEER-DIRECTOR
Division of Water Resources
Kansas State Board of Agriculture
109 SW Ninth Street
Topeka, Kansas 66612-1283



A STATUTORY FILING FEE OF \$20.00 MUST ACCOMPANY THIS APPLICATION.

(1) APPLICANT

NAME Cities Service Oil & Gas Corporation
STREET 3545 NW 58th Street
RURAL ROUTE _____
CITY Oklahoma City, OK 73112
(state) (zip)
TELEPHONE NO. (405) 949-4400
(area code)

(4) OWNER OF LAND UPON WHICH POINT OF DIVERSION IS LOCATED:
Circle Land & Cattle Company, Garden City Kansas
IF OTHER THAN APPLICANT, SUBMIT STATEMENT SHOWING OWNER'S PERMISSION TO INSTALL DIVERSION WORKS HAS BEEN OBTAINED.
Permission from Oil Gas Lease

(2) LOCATION OF POINT OF DIVERSION

Sec. 27, Twp. 24S, Rng. 33 (W),
Finney County, Kansas.

(5) WATER IS TO BE USED FOR:
Drilling Oil/Gas Well

DISTANCE FROM SECTION LINES:

3830 FT. FROM
*(~~NORTH~~ SOUTH) SECTION LINE, AND
3040 FT. FROM
*(EAST ~~6~~) SECTION LINE.
*(delete one from each)

(briefly describe proposed use)

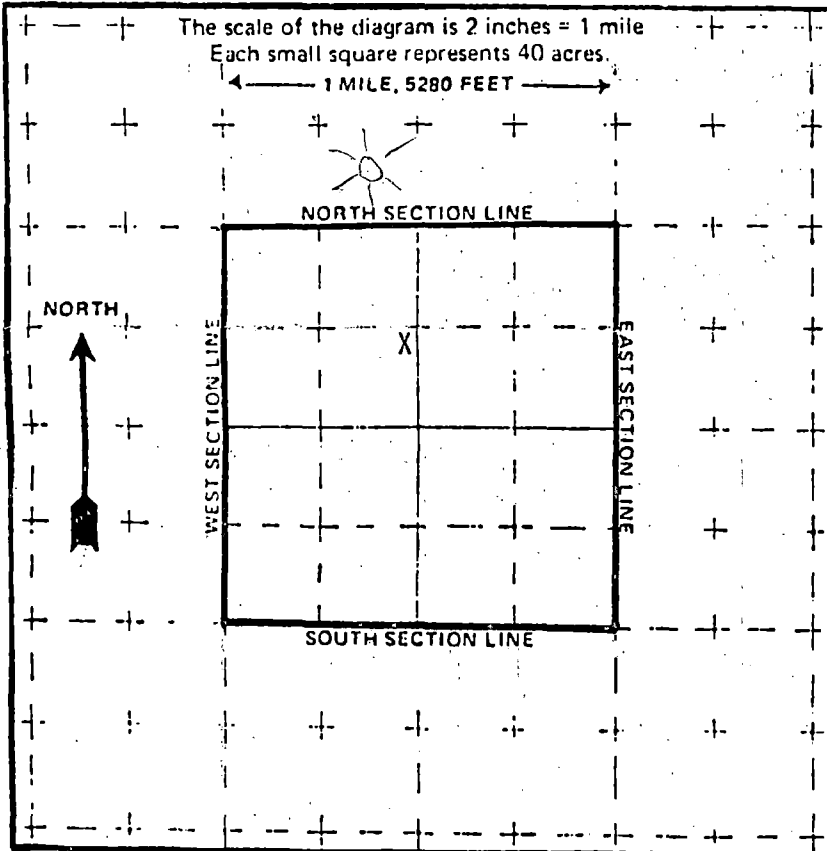
(6) LOCATION OF PLACE OF USE:

SE NE NW/4
3980 ' FSL, 3040 ' FEL
Sec. 27 - 24S-33W
Finney County, Kansas

(3) WATER USE DATA

PROPOSED MAX. PUMPING RATE (gpm) 60
AMOUNT REQUESTED (gallons) 375,000
(not to exceed one million gallons)
DEPTH OF WELL (feet) Est. 375, or
NAME OF STREAM _____

(7) PERIOD OF USE - (6 months max.)
May 7, 1987
(commencing - date)
November 6, 1987
(ending - date)



(8)

LOCATION OF THE PROPOSED POINT OF DIVERSION SHALL BE INDICATED ON THE DIAGRAM TO THE LEFT. USE THE CENTER SECTION.

IF SURFACE WATER, INDICATE ON THE DIAGRAM THE COURSE OF THE STREAM, AND ITS NAME.

(9) FOR GROUNDWATER USE, LIST BELOW ALL WELLS WITHIN 1/2 MILE OF THE PROPOSED WELL, AND PLOT LOCATIONS UPON THE DIAGRAM ON REVERSE SIDE. IF ADDITIONAL SPACE IS NEEDED, ATTACH SHEET.

OTHER WELLS - No known wells.

Well A OWNER(S): _____
ADDRESS : _____

Well B OWNER(S): _____
ADDRESS : _____

Well C OWNER(S): _____
ADDRESS : _____

(10) FOR SURFACE WATER USE, LIST BELOW THE NAMES AND ADDRESSES OF ALL LAND-OWNERS FROM A POINT ONE-HALF MILE UPSTREAM TO A POINT ONE-HALF MILE DOWNSTREAM OF THE TRACT OF LAND UPON WHICH THE POINT OF DIVERSION IS LOCATED. IF ADDITIONAL SPACE IS NEEDED, ATTACH SHEET.

TRACT A OWNER(S): _____
ADDRESS : _____

TRACT B OWNER(S): _____
ADDRESS : _____

TRACT C OWNER(S): _____
ADDRESS : _____

(11) THE APPLICANT STATES THAT THE INFORMATION SET HEREON IS TRUE AND ACCURATE TO THE BEST OF HIS/HER KNOWLEDGE.

Raymond Hui

Raymond Hui

5-1-87

SIGNATURE OF APPLICANT or AUTHORIZED REPRESENTATIVE
TITLE Accounting Control Analyst

DATE

DO NOT WRITE BELOW THIS LINE

CONDITIONS OF APPROVAL:

THE APPLICANT SHALL MAINTAIN RECORDS FROM WHICH THE QUANTITY OF WATER ACTUALLY DIVERTED MAY BE READILY DETERMINED.

THE USE OF WATER HEREIN AUTHORIZED SHALL NOT IMPAIR ANY USE UNDER EXISTING WATER RIGHTS NOR PREJUDICALLY AND UNREASONABLY AFFECT THE PUBLIC INTEREST.

The point of diversion authorized by the approval of this application for temporary permit is more particularly described as being located in the Northeast Quarter of the Southeast Quarter of the Northwest Quarter (NE 1/4 SE 1/4 NW 1/4) of Section 27, Township 24 South, Range 33 West, Finney County, Kansas.



APPLICATION APPROVED

PERMIT NUMBER 787-167
DATE ISSUED May 4-87
EXPIRATION DATE NOV 4-87

Sup Ellis Hydrologist
David L. Pope, P.E. Chief Engineer - Director
Division of Water Resources
Kansas State Board of Agriculture
Larry Sheets Hydrologist