

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 CITGO

Operator Contact Person Raymond Hui  
Phone (405) 949-4432

Contractor: License #  
Name Holm Drilling Co.

Wellsite Geologist Unknown  
Phone

Designate Type of Completion  
New Well Re-Entry Workover

X Oil SWD Temp Abd  
Gas Inj Delayed Comp.  
Dry Other (Core, Water Supply etc.)

If ONNO: old well info as follows:  
Operator Cities Service Oil & Gas Corp.  
Well Name Hall K #4  
Comp. Date 8/9/60 Old Total Depth 5500'

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable  
5/11/60 6/4/60 3/23/87  
Spud Date Date Reached TD RE Completion Date  
5615' 5430'  
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 1837 feet  
Multiple Stage Cementing Collar Used? Yes X 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- NA  
County Haskell  
C NW NE Sec. 5 Twp. 29S Rge. 34 East West

4620 Ft North from Southeast Corner of Section  
1930 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

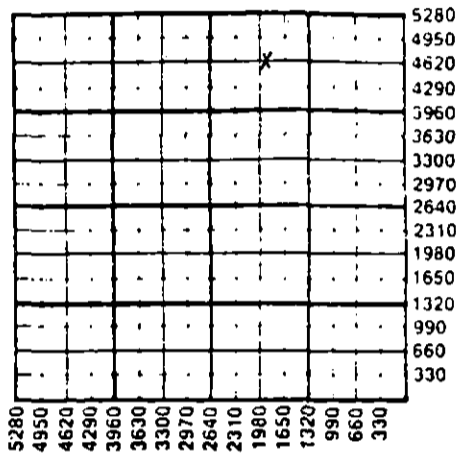
Lease Name Hall K Well # 4

Field Name Eubank

Producing Formation Chester

Elevation: Ground 3007' 3018' KB

Section Plat



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: Not needed.  
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.O. #)

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 Engineering Manager Date 4/13/87

Subscribed and sworn to before me this 20 day of April 1987

Notary Public Jan Thompson

Date Commission Expires 6-24-89

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  
RECEIVED (Specify)  
STATE CORPORATION COMMISSION  
APR 21 1987

Operator Name ... Cities Service Oil & Gas Corp ... Lease Name ... Well # ...

Sec. 5 Twp. 29S Rge. 34 East West County Haskell

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

Tagged cmt at 4408'

Name	Top	Bottom
Winfield	2623	
Heebner	3995	
Toronto	4015	
Lansing	4090	
Marm.	4685	
Cherokee	4825	
Morrow	5155	
Chester	5415	
St. Gen	5435	
St. Louis	5545	
TD		5615

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#	1837'	A	800	
Production	7 7/8"	5 1/2"	14#	5615'	A	1100	
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	Chester 5393-5402'			500 gals 15% retarded acid		5390-93'	
	Lansing 4545-4580' (squeezed off)					5400-5402'	
	Toronto 4032-4038 (squeezed off)						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
3/24/87		<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	
107 Bbls		0 MCF	23 Bbls		CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  Sold  Other (Specify) ..... 5390-5402'  
 Used on Lease  Dually Completed .....  
 Conmingled