

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

API NO. 15-167-22790-0000

County Russell

CSE/4 SE/4 NE/4 Sec. 5 Twp. 15S. Rge. 12 East West

2970 Ft North from Southeast Corner of Section
330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Schartz A Well # 10

Field Name Hall-Gurney

Producing Formation Gorham Sand

Elevation: Ground 1751' KB 1756'

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) 949-4268

Contractor: License # 5671
Name Revlin Drilling Company

Wellsite Geologist
Phone

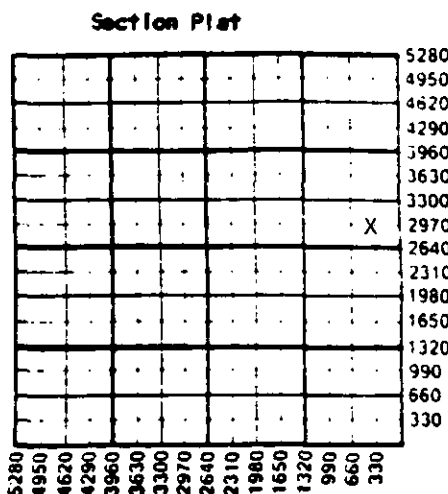
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If ONWO: old well into as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
10-12-87 10-18-87 11-18-87
Spud Date Date Reached TD Completion Date
3325' 3225'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 724 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 #



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.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. Rules 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 Special Projects Manager Date 1-14-88

Subscribed and sworn to before me this 14 day of January 1988
Notary Public Cheryl Fuller

Date Commission Expires January 8, 1990

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)

STATE CORPORATION COMMISSION
Form ACO-1 (5-86)

1-21-88

JAN 21 1988

Operator Name **Cities Service Oil & Gas Corp** Lease Name **Schartz A** Well # **10**

Sec. **5** Twp. **15S** Rge. **12** East West County **Russell**

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 Bond-CCL-GR log.

| Name | Top | Bottom |
|-----------|-------|--------|
| Anhydrite | 677' | |
| Topeka | 2580' | |
| LKC | 2900' | |
| TD | | 3325' |
| PBTD | | 3225' |

| 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# | 724 | 50/50 Poz A | 475 | 2% CaCl ₂ & #1 Flox |
| Production | 7-7/8" | 5-1/2" | 14# | 3324 | 50/50 Poz Cl A | 50 75 | 2% gel; 10% salt 10% salt; #1/sx Flo |
| 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 | 3235-3236' (set CIBP at 3225') | | | Not treated | | | |
| 4 | 3190-3191' | | | | | | |
| 4 | 3191-3192' | | | | | | |
| 4 | 3190-3192' | | | | | | |
| 4 | 3192-3193' | | | | | | |
| TUBING RECORD | | Size | Set At | Packer at | Liner Run | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| | | 2-7/8" | 3200 | | | | |
| Date of First Production | Producing Method | | | | | | |
| 11-5-87 | <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 | | |
| | 14 Bbls | MCF | 130 Bbls | CFPB | | | |

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3190-3193'
 Used on Lease Dually Completed
 Commingled