

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. 15-093-20750-0000
County.....Kearney.....
SW NE NE
..... Sec. 12, Twp 24S, Rge. 35 East
4030 West
..... Ft North from Southeast Corner of Section
1250 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

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

Lease Name.....Garden City E Well #.2.....

Purchaser.....K-N Energy Inc.....

Field Name.....Hugoton.....

Operator Contact PersonRaymond Hui.....
Phone(405) 949-4432.....

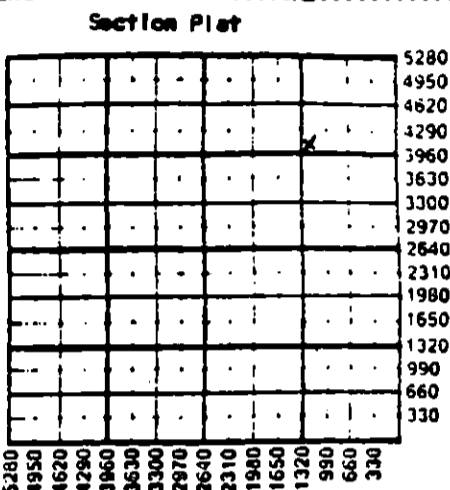
Producing Formation.....Chase.....

Contractor: License #
Name Wakefield Drilling Company.....

Elevation: Ground.....2935'.....
.....XX DF. 2940'.....

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 OWNED: old well info as follows:
Operator
Well Name
Comp. DateOld Total Depth.....

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:
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. #)

WELL HISTORY

Drilling Methods:
 Mud Rotary Air Rotary Cable
..1/2/82... 2/9/82..... 3/22/83
Spud Date Date Reached TD Completion Date
2670 2526'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 2380
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set...DV. Total @ 835...feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name
Invoice #

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
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 ..2/18/87.....

Subscribed and sworn to before me this ..18...day of ..February...
19.....
Notary Public.....
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)
STATE CORPORATION COMMISSION

Form ACO-1 (5-86)
FEB 23 1987

2-23-87

Operator Name Cities Service Oil & Gas Corp. Lease Name Garden City E. (Vol) # 2

NW/4 SE/4 SE/4

Sec. 12 Twp. 24S Rge. 35 East West County Kearney

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time test open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rate 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 Schlumberger depth control log. Ran Dual Induction/SFL, formation Density/Compensated Neutron, GR.

Core #1 2400-2460' (60')
 Core #2 2460-2520' (60')
 Core #3 2529-2567' (47')

Drill Stem Tests - See attachments.

*DV at 835' w/650 sx
 CIBP at 2590'
 Top of cement at 1366'

| Name | Top | Bottom |
|--------------------|------|--------|
| Sand, Shale & Clay | 0 | 1037 |
| Sand & Redbed | 1037 | 1315 |
| Salt & Gyp | 1315 | 1775 |
| Gyp, Redbed & Sand | 1775 | 1975 |
| Lime & Shale | 1975 | 2115 |
| Shale & Lime | 2115 | 2385 |
| Lime | 2385 | 2400 |
| Shale | 2400 | 2460 |
| Lime | 2460 | 2468 |
| Lime & Shale | 2468 | 2567 |
| Shale | 2567 | 2572 |
| Lime, Shale & Sand | 2572 | 2670 |
| TD | | 2670 |
| PBTD | | 2526 |

| 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" | | 57' | Class H | 250 | |
| Surface | 13-3/4" | 9-5/8" | 36# | 2380' | Cl. H; 65/30 Poz. | 850 | gel. & Ca. Cl |
| Production | 8-3/4" | 7" | 23# | 2663' | Cl. H | 200 | 10% salt. D-29; D46 & D-65 |
| 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 | 2594-97' | | | 500 gals. 15% HCL | | 2594-97' | |
| 4 | 2585-88' | | | 500 gals. 15% HCL | | | |
| TUBING RECORD | | | | | | | |
| Size | Set At | Packer at | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | |
| Date of First Production | | Producing Method | | | | | |
| This well has not been completed and currently is under a S.I. status. | | <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 | MCF | Bbls | CFPB | | | |

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 2585-88'
 Used on Lease Dually Completed
 Comingled

TABLE I
SUMMARY OF TESTING RESULTS FOR GARDEN CITY F-2
DST'S 1-20

| Test Number | Test Date | Test Interval | Initial Pressure (psia) | Final Recorded Pressure (psia) | Test Duration (hours) | RFT Results | Comments |
|-------------|------------|---------------------------------|-------------------------|--------------------------------|-----------------------|------------------|--|
| DST #1 | 1/9/82 | 2415'-2420' | 23.08 ^x | 62.07 ^x | 5 | 45 psi at 2417' | Tight or damaged zone. |
| DST #2 | 1/11/82 | 2475'-2480' | 29.96 ^x | 82.60 ^x | 3 | 22 psi at 2478' | Tight or damaged zone. |
| DST #3 | 1/12-13/82 | 2470'-2475' | 55.65 ^x | 288.58 | 33.5 | | Fair permeability, pressure. P* = 289 psia |
| DST #4 | 1/13-14/82 | 2464'-2469' | 26.65 ^x | 105.40 ^x | 12 | | Tight or damaged zone. |
| DST #5 | 1/14/82 | 2450'-2455' | 262.12 | 275.13 | 3 | 248 psi at 2452' | Extremely high permeability. P* = 276 psia |
| DST #5A | 1/14/82 | 2450'-2455' | 245.96 | 272.32 | 1.25 | | A retest of #5 |
| DST #6 | 1/15/82 | 2444'-2449' | 256.11 | 274.16 | 4.5 | | Same zone as DST #6 P* = 275 psia. |
| DST #7 | 1/15-16/82 | ^{2439'} 2459'-2444' | 76.38 | 82.43 | 12.5 | 62 psi at 2442' | Packer leak; not tested due to hole condition. |
| DST #8 | 1/16-17/82 | 2409'-2414' | 87.14 | 662.68 | 30 | 31 psi at 2414' | Possible Lynes Packer leak. P* = 690.0 psia |
| DST #9 | 1/20-21/82 | 2546'-2551' | 59.99 | 61.23 | 5 | | Good pressure, good permeability. P* = 506.61 psia |
| DST #10 | 1/21-22/82 | 2538'-2543' | 81.60 | 489.98 | 13 | | Good pressure, good permeability. P* = 506.61 psia |

T SUMMARY CONTINUED

| Test Number | Test Date | Test Interval | Initial Pressure (psia) | Final Recorded Pressure (psia) | Test Duration (hours) | RFT Results | Comments |
|-------------|------------|-----------------------------|-------------------------|--------------------------------|-----------------------|-------------|---|
| DST #11 | 1/22/82 | 2528'-2533' | 83.93 | 89.21 | 2 | | Tight or damaged zone. |
| DST #12 | 1/22-23/82 | 2522'-2527' | 88.17 [*] | 97.15 | 8.5 | | Tight or damaged zone. |
| DST #13 | 1/23-24/82 | 2516'-2521' | 61.21 | 165.95 | 16 | | Tight or damaged zone. |
| DST #14 | 1/24-26/82 | 2505'-2510' | 76.75 | 493.07 | 45 | | Good pressure, fair permeability. P* = 568.71 |
| DST #15 | 1/26-28/82 | 2498'-2503' | 115.79 | 645.77 | 35.5 | | Good pressure, good permeability. Possible Lynes packer leak. P* = 680.11 psia |
| DST #16 | 1/29-31/82 | 2595'-2600' | 76.88 | 396.48 | 39.5 | | Good pressure, fair permeability. P* = 425.34 psia |
| DST #17 | 2/1-2/82 | 2585'-2590' | 74.53 | 399.70 | 30 | | Good pressure, fair permeability. P* = 418.99 psia |
| DST #18 | 2/4/82 | 2577'-2522' ²⁵⁸² | 100.09 | 276.48 | 4 | | Tight or damaged zone. |
| DST #19 | 2/4-5/82 | 2566'-2571' | 69.45 | 288.23 | 12 | | Tight or damaged zone. |
| DST #20 | 2/5-6/82 | 2558'-2563' | 70.96 | 414.45 | 19 | | Good pressure, good permeability. P* = 435.93 |



15-093-20750-0000

CITIES SERVICE OIL AND GAS CORPORATION
3545 N.W. 58TH ST. OKLAHOMA CITY, OK 73112

(405) 949-4400

February 19, 1987

Kansas State Corporation Commission
Conservation Division
200 Colorado Derby Building
Wichita, Kansas 67202

RE: Garden City "F" #2
NE/4 of Section 12-24S-35W
Kearney County, Kansas

Gentlemen:

Please find enclosed Form ACO-1 for the referenced well which was spudded on January 2, 1982 as a test well of the Chase formation prior to the commencement of the infill drilling program. As reflected in the report, the well has never been completed and is currently under a shut-in status. Separately, in another application, Cities Service is applying with the commission to reattribute the acreage of this lease so that the well will be utilized as an infill well under the amended Kansas Hugoton Field rules.

Yours truly,

CITIES SERVICE OIL AND GAS CORPORATION

Raymond Hui
Accounting Control Analyst

RH/tja

Enclosure

STATE CORPORATION COMMISSION

FEB 29 1987

CONSERVATION DIVISION
Wichita, Kansas