

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. LC 029489-A	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESER. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Cities Service Oil and Gas Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 1919 - Midland, Texas 79702		8. FARM OR LEASE NAME Federal AA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface 990'FNL & 1980'FEL At top prod. interval reported below Same as above At total depth Same as above		9. WELL NO. 1	
14. PERMIT NO.		DATE ISSUED APR 03 1985	
10. FIELD AND POOL, OR WILDCAT Undesignated (Queen)		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 9-T18S-R33E	
12. COUNTY OR PARISH Lea		13. STATE New Mexico	
15. DATE SPUDDED 10-31-84	16. DATE T.D. REACHED 12-24-85	17. DATE COMPL. (Ready to prod.) 3-30-85	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3966' GR
19. ELEV. CASINGHEAD 3966'		20. TOTAL DEPTH, MD & TVD 13,825'	
21. PLUG, BACK T.D., MD & TVD 4850'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS 0 - T.D. 13,825'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4228 - 4238' - Queen	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN CNL-LDT-NGT-Cal, DLL-Micro SFL, BHC Sonic-Cal., Deviation Survey	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
CASING SIZE 13-3/8" 9-5/8" 5-1/2"		WEIGHT, LB./FT. 48# 36# 17 & 20#	
DEPTH SET (MD) 430' 5100' 13825'		HOLE SIZE 17-1/2" 12-1/4" 7-7/8"	
CEMENTING RECORD 420 sacks 3300 sacks 3100 sacks		AMOUNT PULLED Circulated Circulated TOC @ 3600'	
29. LINER RECORD		30. TUBING RECORD	
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD)		SIZE DEPTH SET (MD) PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number) 4 SPF @ 4428 thru 4438 (Total 44 holes, 0.46" dia & 21.0" pen)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 4428 - 4438' AMOUNT AND KIND OF MATERIAL USED 2500 gals 15% NeFe HCL acid + 20,000 gals Stra Frac II (95% KCL water & 5% Diesel) + 48,000# 12/20 sand	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented	
DATE FIRST PRODUCTION 3-22-85		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) Producing		35. LIST OF ATTACHMENTS Above listed logs and Deviation Survey	
DATE OF TEST 3-30-85		HOURS TESTED 13-1/2	
CHOKE SIZE 1"		PROD'N. FOR TEST PERIOD 271	
OIL—BBL. 271		GAS—MCF. 30	
WATER—BBL. 0		GAS-OIL RATIO 110	
FLOW. TUBING PRESS. 30#		CASING PRESSURE packer	
CALCULATED 24-HOUR RATE 482		OIL—BBL. 482	
GAS—MCF. 53		WATER—BBL. -0-	
OIL GRAVITY-API (CORR.) 31.9°		TEST WITNESSED BY APR 4 1985 C. Nichols	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		SIGNED [Signature] TITLE Region Petroleum Engineer DATE 4-01-85	

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			(SEE ATTACHED SHEET FOR DST'S)	Rustler Yates Queen San Andres Delaware Mtn. Group Bone Springs 1st Dolo. 1st Sand 2nd Dolo. 2nd Sand 4th Dolo. 3rd Sand Wolfcamp Penn Strawn Atoka Sand Atoka Lm. Morrow Chester T.D. 13825'	1536' 2960' 4189' 4969' 5914' 6478' 8137' 8208' 8507' 8942' 9635' 9708' 9904' 11681' 12293' 12686' 13011' 13251' 13696'	

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FEDERAL BUREAU OF INVESTIGATION

Cities Service Oil and Gas Corporation #1 Federal AA
Sec. 9-T18S-R33E, Lea County, New Mexico

Attachment

DST #1 9647 - 9667' (Bone Springs 4th Dolomite) No W.B., Opened tool w/a very weak blow in 15 min., closed tool for 60 min. ISIP. Reopened tool w/a continuous weak blow during 60 min. final flow. Closed tool for 120 min. FSIP. Pulled tool loose and recovered 270' drilling mud (0.8 Bbl) w/no show of oil or gas. Sample chamber contained 500cc slightly gas cut mud @ -0- psig. No gas in sample chamber. Pit sample chlorides 55,000, top of fluid 60,000 ppm chlorides, sample chamber 110,000 ppm chlorides. Sample chamber was set @ 9613'.

	<u>1st Recorder @ 9660'</u>	<u>2nd Recorder @ 9654'</u>
Init Flow Tm	15 min.	15 min.
ISI Time	60 min.	60 min.
IHP	4533	4547
ISIP	3611	3607
IFP	21-24	31-34
FF Time	60 min.	60 min.
FSIP	3573	3582
FHP	4508	4573
FSI Time	120 min.	120 min.
BH Temp.	140 ⁰ F	

DST #2 9922 - 9999' (Wolfcamp) No W.B., opened tool w/very weak blow increasing to 11 oz. in 5 min., 19 oz. in 10 min. and 24 oz. in 15 min. Closed tool for 60 min. ISIP. Re-opened tool w/5 oz. in 3 min. increasing to 2 psig in 60 min. on 0.125 bubble hose. Closed tool for 120 min. FSIP. Pulled tool loose and recovered 3900' sulphur water. Sample chamber @ 9887' contained 1200cc sulphur water @ 1200 psig w/1.5 cu ft. of gas.

	<u>1st Recorder @ 9992'</u>	<u>2nd Recorder @ 9981'</u>
Init Flow Tm	15 min.	15 min.
ISI Time	60 min.	60 min.
IHP	4684	4621
ISIP	3106	3068
IFP	46-87	23-87
FF Time	60 min.	60 min.
FFP	89-1680	89-1718
FSIP	3068	3043
FHP	4659	4634
FSI Time	120 min.	120 min.
BH Temp.	140 ⁰ F	

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