

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on
reverse side)Form approved,
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM-33121

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government AJ

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Undesignated Morrow

11. SEC., T. R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 8, T-20S, R-21E

12. COUNTY OR
PARISH

Eddy

13. STATE

New Mexico

14. PERMIT NO.

DATE ISSUED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Otherb. TYPE OF COMPLETION:
NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Cities Service Company

3. ADDRESS OF OPERATOR

Box 1919, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2310' FNL, 1980' FWL, Section 8, T-20S, R-21E,

At top prod. interval reported below Eddy County, New Mexico

At total depth Same as above

Same as above

15. DATE SPUDDED 8/4/79 16. DATE T.D. REACHED 9/18/79 17. DATE COMPL. (Ready to prod.) 10/20/79 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4616.7' GR 19. ELEV. CASINGHEAD 4616.7'

20. TOTAL DEPTH, MD & TVD 7968' 21. PLUG, BACK T.D., MD & TVD 7924' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY XX 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7604'—7617'

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN FDC - CNL - EPT, DLL-RXO 27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20" Conductor	--	30'	---	Redimix	None
13 3/8" OD	48	248.36'	17 1/2"	250 sx & 3 yds. Redimix	None
8 5/8" OD	24	1551'	12 1/2"	940 sacks	None
4 1/2" OD	9.5, 10.5, 11.6	7968'	7 7/8"	1250 sacks	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 1/2"	7497.48'	7481.2'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
26 0.38" holes from 7604' - 7617'		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		7604'—7617'	3600 gallons 7 1/2% MSA using 1000 SCF N ₂ /bbl & 32 RCNCB's.
			Fraced with 30,000 gallons MS Frac & 27,500# 20/40 mesh sand.

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
10/11/79		Flowing				Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/20/79	24	1"	→	--	244	--	--
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
12		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Well is shut in waiting on pipe line connection TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Deviation Test

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Region Operation Mgr.

DATE October 31, 1979

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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.
Morrow	7515'	7575'	Oolitic dark gray limestone, fossiliferous w/interbedded sand and shale stringers.
Morrow	7575'	7604'	Limestone w/interbedded shale streaks, dark gray, oolitic and fossiliferous.
Morrow	7605'	7634'	Shaley limestone. Fine to med. grained sandstone w/scattered shale streaks. Slight porosity.
Morrow	7634'	7664'	7634-39.5' fine to med. gr. ss. 7639.5-46' Shale. 7646-47' fine to med. gr. ss. 7647'-64' Shale.

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Abo	3390'		
Wolfcamp	4385'		
Cisco	6033'		
Canyon	6285'		
Strawn	6553'		
Atoka	7225'		
Morrow	7475'		
"B" Zone	7571'		
Chester	7691'		
Miss.	7888'		

AFFIDAVIT

NOV 5 1979

O. C. C.
ARTESIA, OFFICEState of Texas Cities Service CompanyCounty of Midland Lease Name Government AJ Well # 1In Sec. 8 Twp. 20S Rge. 21ECounty of EddyState New MexicoE. Y. Wilder of lawful age being first duly sworn deposes and

says:

That he supervises development and operation of the captioned lease and is duly qualified and authorized to make this affidavit and is fully acquainted with all facts herein set out concerning Deviation and Directional drilling.

<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>
.25	153'	1.00	3833'	2.00	7664'
.50	265'	.75	4117'	2.00	7968'
.50	531'	.75	4396'		
.50	875'	.75	4652'		
1.00	1070'	1.25	4906'		
1.25	1150'	1.25	5186'		
1.25	1282'	1.25	5281'		
1.25	1515'	.75	5529'		
1.25	1811'	1.50	5782'		
1.00	2069'	.75	6034'		
1.00	2320'	1.75	6285'		
1.00	2573'	1.75	6539'		
1.00	2826'	2.00	6920'		
1.00	3079'	2.00	7028'		
.50	3228'	3.00	7249'		
1.50	3488'	2.25	7439'		
1.00	3589'				

Further affiant saith not.

E. Y. WilderSubscribed and sworn to before me this 1 day of November, 19 79My Commission Expires 10-31-80 Christina Hamble Notary Public
Midland County, Texas