

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.

LC 050797

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government AC Com.

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Undes. Atoka Sand

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

Sec. 13-T20S-R28E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Cities Service Oil Company

3. ADDRESS OF OPERATOR

Box 1919 - Midland, Texas 79701

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

At surface

1800' FNL & 1980' FWL of Sec. 13-T20S-R28E, Eddy Co., New Mexico

At top prod. interval reported below

Same as above

At total depth

Same as above

14. PERMIT NO.

D. C. C. ARTESIA, OFFICE

DATE ISSUED

AUG 5 1975

15. DATE SPUDDED

5-9-75

16. DATE T.D. REACHED

6-19-75

17. DATE COMPL. (Ready to prod.)

7-25-75

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3255' GR

19. ELEV. CASINGHEAD

3255'

20. TOTAL DEPTH, MD & TVD

11,610'

21. PLUG, BACK T.D., MD & TVD

11,335'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0' - T.D. 11,610'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

10,643' - 10,683' - Atoka Sand

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Sidewall Neutron; Compensated Acoustic Velocity, Forxo-Guard, Deviation Tests

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	900'	17-1/2"	775 sacks	Circulated
9-5/8"	36#	3000'	12-1/4"	1100 sacks	Circulated
5-1/2"	(1051.49' 20#)				
	(10315.48' 17#)	11380'	8-3/4"	1000 sacks	TC @ 7420'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	10,408'	10,408'

31. PERFORATION RECORD (Interval, size and number)

1-0.40"

hole each @ 10643', 10645', 10,647', 10649', 10652', 10654', 10656', 10658', 10663', 10665', 10667', 10671', 10673', 10676' and 10683'.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10643'-10683'	3000 gals 7-1/2% HCl acid + 1000 SCF Nitrogen/bbl + 24 ball sealers.

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
7-16-75		Flowing		Dist.		Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-25-75	4 hrs.	10, 12, 14 & 16/64"	→	3-1/2		3/4	101480
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1673#		→		C.A.O.F. 2131	MCFD	54.3°	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Shut-in waiting on pipeline connection

TEST WITNESSED BY

J. L. Bussell

35. LIST OF ATTACHMENTS

Deviation Tests

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

SIGNED

E. J. ...

TITLE

Region Operation Manager

DATE

July 31, 1975

*(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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
SEE ATTACHED.....				Bone Springs	5109'	
				Dean	8590'	
				Wolfcamp	8909'	
				Canyon	9457'	
				Strawn	10194'	
				Cherokee	10432'	
				Atoka	10708'	
				Morrow	10918'	
				Chester	11471'	
				T.D.	11610'	

CITIES SERVICE OIL COMPANY #2 GOVERNMENT AC COM.

DST No. 1: 10,490-10,527' (37') Cherokee Sand, 3/4" BHC, 1/2" TC. No wtr blanket. Tool opened ~~at 0727 MDT 6-22-75~~ with a good blow, gas to surface in 4 mins building up to 520# FDPP in 15 mins. Tool closed for 90 min ISIP. ~~at 0852 MDT~~ Opened for final ~~flow at 0755 MDT~~ w/gas rate increasing from 1275 MCFD to 9491 MCFD at end of 60 min flow period on 3/8" ck w/FDPP increasing from 360# to 2600#. Flwd trace distillate during same period. Closed tool for 120 min FSIP. ~~at 0852 MDT~~ Pulled tool loose. ~~at 1032 MDT~~ Set back 2 stands and circ conventional. CBU w/10-12' gas flare for 1 hr. No apparent distillate. ~~SOOH at 1500 MDT Tool on bank at 1900 MDT~~. Sample chamber at 10,460' contained no liquid and 21.184 cu ft gas at 3450 psig. BHP's as follows:

	Top Chart @ 10,472	Btm Chart @ 10,523
IMCP	5457#	5439#
15 min IF	817-1347#	742-1268#
90 min ISIP	4922# max	4866# max
60 min FF	1170-3496#	1136-3458#
120 min FSIP	4743# max	4733# max
FMCP	5457#	5439#
BHT	155 degs F	155 degs F

Rec 124' gas cut BW below circ sub.

DST No. 2: 10,646-10,684' (38') Atoka straddle pkr test. 1" BHC, 1" TC, no wtr blanket. Tool opened ~~at 0727 MDT 6-22-75~~ w/a poor blow. Zero surface press in 15 min preflow. Closed tool ~~at 0742 MDT~~ for 90 min ISIP. Reopened tool for final flow ~~at 0914 MDT~~ w/a fair blow on 3/4" ck. Upper pkr seat failed. Lost 35 bbls mud in annulus. Reset pkr. Fluid still dropping. Closed tool. Dropped bar and opened circ sub. ~~at 1030 MDT to 1330 MDT. POOH. On bank at 1810 MDT.~~ BHP chart at 10,636':

IMCP	5577#
15 min IF	160-192#
90 min ISIP	leak in chamber - equalized to MCP - press meaningless

Pkr seat failed. No other press'.

DST No. 3: 10,580-10,685' (105') straddle pkr test Atoka. 1" BHC, 3/4" TC, no wtr blanket. Tool opened ~~at 1710 MDT 6-23-75~~ w/no blow. ~~at 1715 MDT~~ upper pkr seat failed. Reset pkr and reopened. ~~at 1830 MDT~~. No seal. Released tools and set back one stand. Dropped bar and opened circ sub. ~~circ to 2350 MDT. SOON at 2350 MDT.~~ MISRUN.

DST No. 4:
10,586-10,692' (106') Atoka, 3/4" BHC, adjustable top ck. Tool opened ~~at 0615 MDT 6-26-75~~ w/a good blow immediately. Cmt plug failed after 1 min and tools dropped 30'. Jarred tools loose. Set back 2 stands and started circ.

DST No. 5: 10,586-10,734' (148') Atoka Sand, 3/4" BHC, adj TC, no wtr blanket. Tool opened ~~at 0915 MDT 6-27-75~~ w/a good blow w/gas to surface in 12 mins w/FDPP increasing to 20# on 3/4" ck in 15 mins. Tool closed ~~at 0930 MDT~~ for 90 min ISIP. Reopened for final flow ~~at 1100 MDT~~ w/a good blow on 1/2" ck w/FDPP increasing from 55# to 85# and gas rate increasing from 638.1 MCFD to 707.9 MCFD in 90 min flow period. No fluid to surface. Tool closed ~~at 1230 MDT~~ for 180 min FSIP. Pulled tool loose. ~~at 1530 MDT. Tool on bank at 1910 MDT.~~ Sample chamber at 10,554' contained no fluid and 2.412 cu ft gas at 300 psig. Rec 730' GC drlg fluid in DP, CI 172,000, pit CI 170,000.

	Top Chart	Bottom Chart
	at 10,566'	at 10,615'
IMCP	5591#	5571#
15 min IF	177-199#	186-218#
90 min ISIP	4922# (not max)	4863# (not max)
90 min FP	309-353#	262-349#
180 min FSIP	4944# (not max)	4954# (not max)
FMCP	5591#	5571#
BHT	172 degs F	172 degs F

WELL LOCATION AND AVERAGE DEDICATION PLAT

Superseded Edition
Effective 1/1/75

All distances must be from the center to center of the well.

Cities Service Oil Company

Government AC Com.

2

F

13

20 South

28 East

Eddy

1800

North

1980

West

3255.4

Atoka Sand

Undesignated Atoka Sand

320

Indicate the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.

If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization or force pooling, etc?

☒ Yes ☐ No Answer is "yes" type of consolidation Unitization

AUG 1 1975

If answer is "no", list the leases and tract descriptions which have actually been consolidated (by communitization, unitization, force pooling, etc.) on this form if necessary.

O. C. C.
ARTESIAN OFFICE

No additional work will be assigned to the well until all interests have been consolidated (by communitization, unitization, force pooling, etc.) or otherwise until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.



Region Operation Manager

Cities Service Oil Company

July 30, 1975

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

March 5, 1975

Registered Professional Surveyor
No. 12,345 - State of New Mexico



676

Cities Service Oil D/R (below 1200')
Barber Oil, Inc. S/R (above 1200')

1800

1980

LC 050797

Working interest of participating parties in this well are as follows:

Cities Service Oil	72.9166%
Howard W. Jennings	12.5000%
Edward R. Hudson, Jr.	14.5834%
	100.0000%

