

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*

(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐

DEEPEN ☐

PLUG BACK ☒

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Cities Service Oil & Gas Corp.

3. ADDRESS OF OPERATOR

P.O. Box 1919 - Midland, Texas 79702

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

At surface

500' FSL & 330' FEL

At proposed prod. zone

Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

30 miles West from Hobbs, New Mexico

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

330'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1408'

16. NO. OF ACRES IN LEASE

40

19. PROPOSED DEPTH

4969'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Completion Unit

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4131' GR

22. APPROX. DATE WORK WILL START\*

After permit approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	35#	297'	Circulated
12-1/4"	8-5/8"	24 & 32#	3149'	TOC @ 1000'
7-7/8"	5-1/2"	15.5 & 17#	8925'	TOC @ 2700'

O.T.D. 8925' Dolomite, OPBTD 8878'. It is proposed to plug back this well from the Abo Formation and test the Grayburg Formation in the following manner:

1. MIRU a pulling unit and POOH w/rods and pump. ND WH and NU BOP and kill well if necessary and POOH w/tubing.
2. RIH w/CIBP on wireline and set the CIBP @ 8620' and dump 4 sacks of cement on top @ 8620 - 8550'.
3. RIH w/OE'd tubing to 8550' and circulated the hole w/mud laden fluid. PU up on tubing to 6670' and spot a 10 sack cement plug across the top of the Glorieta @ 6670 - 6570'. POOH to 5000' and WOC.
4. TIH w/OE'd tubing to 6300' and circulated the hole w/2% KCL water. Pressure the casing to 1000# and POOH w/tubing.
5. RU loggers and run GR/CCL log from 5200 - 3500'. (CONTINUED ON ATTACHED SHEET)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*Sam P. Trimmer*

TITLE Lead Petroleum Engineer

DATE 8-25-87

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

1 Orig. Sgd. Linda S. C. Rundell

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE 9-15-87

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Cities Service Oil & Gas Corp. #9 Wyatt A Federal  
Lea County, New Mexico

attachment:

- Perforate the Lower Grayburg w/2 SPF @ 4845, 46, 48, 50, 52, 55, 56, 59, 61, 65, 4907, 08, 09, 12, 13, 59, 60, 61, 64, 65, and 4969'. Total of 42 holes.
6. RIH w/treating packer on 2-3/8" tubing and set packer @ 4750'. Acidize thru Lower Grayburg Perfs @ 4845 - 4969' w/2500 gals 15% NeFe HCL acid. Swab test and recover load.
  7. Pressure the backside to 1000# and Frac the Lower Grayburg Perfs @ 4845 - 4969' w/21,000 gals crosslinked gelled 2% KCL water(40# system) + 81,000# 12/20 sand. Swab test and POOH w/tubing and packer.
  8. RIH w/RBP and treating packer on 2-3/8" tubing and set the RBP @ 4780', dump 2 sacks of sand on top of the RBP and pressure test the RBP to 2000#. POOH w/tubing and packer.
  9. Perforate the Upper Grayburg w/2 SPF @ 4652, 53, 54, 55, 56, 57, 58, 59, 4706, 07, 08, 09, 10, 11, and 4712'. Total of 30 holes.
  10. RIH w/treating packer on 2-3/8" tubing and set the packer 4550'. Acidize thru the Upper Grayburg Perfs @ 4652 - 4712' w/2000 gals 15% NeFe HCL acid. Swab test and recover load.
  11. Pressure the backside to 1000# and Frac the Upper Grayburg Perfs @ 4652 - 4712' w/21,000 gals crosslinked gelled 2% KCL water (40# system) + 81,000# 12/20 sand. Swab test.
  12. RIH w/tubing and packer and retrieve the RBP set @ 4780'. POOH w/RBP, packer and tubing.
  13. RIH w/completion tubing. ND BOP, NU WH, and RIH w/rods and BHP and put well on production to obtain a potential test.

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-107  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator <b>Cities Service Oil &amp; Gas Corp.</b>			Lease <b>Wyatt A Federal</b>		Well No. <b>9</b>
Init Letter <b>P</b>	Section <b>34</b>	Township <b>17S</b>	Range <b>33E</b>	County <b>Lea</b>	
Actual Footage Location of Well: <b>500</b> feet from the <b>South</b> line and <b>330</b> feet from the <b>East</b> line					
Ground Level Elev. <b>4131' GR</b>	Producing Formation <b>Grayburg</b>		Foot <b>Maljamar (G-SA)</b>		Dedicated Acreage: <b>40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes    ☐ No    If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or 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.*

Name *Alvin C. Vannoy*  
 Position **Lead Petroleum Engineer**  
 Company **Cities Service Oil & Gas Corp.**  
 Date **August 25, 1987**

*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.*

Date Surveyed \_\_\_\_\_  
 Registered Professional Engineer and/or Land Surveyor

Certificate No. \_\_\_\_\_

