

N. M. O. C. C. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LCV 060967

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

SE Maljamar GB-SA Unit, Tra #1

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Maljamar Grayburg-SA

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

Sec. 30, T-17S, R-33E

12. COUNTY OR PARISH 13. STATE

Lea

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Cities Service Oil Company

3. ADDRESS OF OPERATOR

Box 1919, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1355' From South Line, 1135' From East Line of Section
30, T-17S, R-33E, Lea County, New Mexico

14. PERMIT NO.

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

4038.9' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Well completion data

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

X

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attachments.

T.D. 4350' Dolomite, P.B.T.D. 4328'. Perforated 2-0.42" holes per foot from 4276'-4290' and 4298'-4306'. Swbd. trace of oil in 5 hours. Acidized with 1000 gallons 15% acid. Max. 2900#, Min. 2200#, Air 2.6 B/M, ISIP 2000#, 10 Min. SIP 1650#. Perf. upper Grayburg-San Andres with 2-0.42" holes per foot from 4184'-4194', 4206'-4227', and 4230'-4254'. Swbd. 70 barrels of oil, 4 barrels of water in 9 hours. Gas TSTM. 14 hr. SITP 1100#. Frac Perfs. 4184'-4254' with 26000 gals. gelled 2% KCl Fresh water & 41,000# 20-40 sand in two stages with 60 7/8" RCNCB's between stages. Max. pressure 4500#, Min. pressure 3600#, Air 14 B/M, ISIP 2200#, 15 Min. SIP 1900#. 40 hour SITP 1000#. Rec. 27 barrels of oil & 11 barrels of water in 1 1/2 hours. Swabbed 70 barrels of oil & 35 barrels of Load Water in 6 hours. Ran 136 jts. (4289.23') of 2 7/8" EUE tubing set at 4308.3'. Ran rods & 2 1/2" x 1 3/4" x 16' x 20' pump. On 24 hour potential test from perforations 4276'-4290', 4298'-4306', 4184'-4194', 4206'-4227', and 4230'-4254' well pumped 292 barrels of 37.4° oil, 8 barrels of water, with gas too small to measure.

18. I hereby certify that the foregoing is true and correct

SIGNED

D. F. Ruck

TITLE

Region Operation Mgr.

DATE

1-25-77

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

*See Instructions on Reverse Side

RECEIVED
FEB 8 1977
U.S. GEOLOGICAL SURVEY
ROBBS, NEW MEXICO

RECEIVED

FEB 21 1977
OIL CONSERVATION COMM.
HOBBS, N. M.

SICP in 8-5/8" x 5-1/2" annulus 900#. Bled down to 100#. RU

Welex. Jet perf holes in 5-1/2" csg at 4045'. t Halco SV-EZ drill retainer on WL at 4010'. Ran EZ drill seal assembly on 127 jts 2-7/8" EUE 8R J55 6.5# tbq and stabbed into retainer. Press. 5-1/2" x 2-7/8" annulus to 1000# - ok. Tested tbq to 3000# - ok. Est circ rate out 5-1/2" x 8-5/8" annulus 8 B/M at 1500#. Held 250# BP on 5-1/2" x 8-5/8" annulus and mixed and pumped 850 sx Class C Pozmix A 50-50, 2% CaCl, 10# salt and 0.5 of 1% CFR-2. Max press 1700#. Cmt did not circ. Cleared tool w/25 bbls over-displacement. Picked up out of retainer and reverse circ 50 bbls. Stabbed back into retainer and pumped 9 bbls to clear perfs. SD to WOC. Job complete at 1200 MST 12-16-76. USGS witnessed job (C. L. Coshaw).

WOC. 14 hr SICP 8-5/8" x 5-1/2" annulus 900#. Bled to 0 w/2" stream of wtr backflwg at 0 press. Pumped into squeeze holes at 4045' at 6 B/M at 1500# establishing circ to surface. Mixed and pumped 1000 sx Class II w/11# salt and 1/4# Flocele/sx. First 100 sx pumped w/ 8-5/8" csg open to surface. Remaining 900 sx pumped w/ 8-5/8" csg closed. Staged cmt to max press 1100# but would not hold. Displaced all cmt below EZ drill retainer at 4010'. Picked up out of EZ drill. Back press valve would not close. Cleared tool and perfs by pumping 25 bbls wtr down 5-1/2" csg then stabbed back in EZ drill and pumped 25 bbls down 2-7/8" tbq then picked back up out of WZ drill and pmpd another 25 bbls down 5-1/2" csg. Press to 900# and shut well in. USGS witnessed job (C. L. Coshaw).

POOH w/RB. 14 hr SICP 8-5/8" x 5-1/2" annulus 700#. Bled to 0 w/2" stream of wtr backflwg at 0 press. Stabbed into EZ drill. Press 5-1/2" x 2-7/8" annulus to 1000# - ok. Pumped into squeeze holes at 4045' at 6 B/M at 1350#. Tried to stabilize backflow from formation through EZ drill but could not because of too much restriction in tool. POOH. RIH w/4-3/4" RB and 6 3-1/2" DC's on 2-7/8" tbq. Tagged EZ drill at 4010'. Drld and pushed body 4103'. C&CH and SOOH w/RB.

Prep to cmt 8-5/8" x 5-1/2" annulus from surface. 14 hr SICP 8-5/8" x 5-1/2" annulus 800#. Bled to 0 w/2" stream of wtr backflwg at 0 press. Stabilized flow from formation into 5-1/2" csg. Mixed and pumped down 5-1/2" csg 100 sx Class C w/3% CaCl and 200 sx Class C w/2% CaCl. Displaced to perfs at 4045' at max press 850#. After displacing, started balancing formation by bleeding back 5-1/2" csg to pit. After 1 hr, cmt began coming back at surface. Bled to pit until cleaned up. "Balance squeeze job" was unsuccessful.

14 hr SICP 8-5/8" x 5-1/2" annulus 800#. Bled to 0 w/1" stream of wtr backflowing at 0 press. Mixed 250 bbls 14.5#/gal mud w/10# Gilsonite, 1/2# fiber and 1# Floseal per bbl. RU Halliburton pump truck to circ hole w/mud. Pumped 4 bbls mud down 5-1/2" csg at 3/4 B/M at 2600# w/8-5/8" csg open. No increase in flow out 8-5/8". Quit pumping mud because of excessive press. Bled press off 5-1/2" w/8-5/8" annulus remaining on 0. Shut 5-1/2" csg in. Press built up to 2050# on 5-1/2" immediately. 8-5/8" csg press built up to 100# in 30 mins.

14 hr SICP 8-5/8" x 5-1/2" annulus 450#. Bled to 0 w/1" stream of wtr backflowing at 0 press. 14 hr SICP 5-1/2" csg 2150#. Bled to 0. Rih w/4-3/4" , 5-1/2" csg scraper and 6 3-1/2" DC's on 2-7/8" EUE tbg. Tagged bridge at 4057.12'. POOH. Changed out BOP. RU Welex. Set Halliburton 5-1/2" SV-EZ drill cmt retainer on WL at 4010'. Ran seal assembly on 2-7/8" EUE tbg and stabbed into retainer. Tested 2-7/8" EUE tbg to 3500# - ok. Press 5-1/2" x 2-7/8" annulus to 2000# - ok. PIF at 1-1/4 B/M at 2900# w/no increase in flow out 8-5/8" x 5-1/2" annulus. SION.

14 hr SITP 2000#. 14 hr SIP 8-5/8 x 5-1/2 annulus 400#. Left SI and installed recording press gauge to monitor effects of squeeze job. Press 5-1/2" x 2-7/8 annulus to 1500# - ok. PIF 1.5 B/M at 3500#. Mixed and pumped 126 sax Class H w/3# salt and 5# Gilsomite per sack. Mixed at 16#/gal. Max press 5000# w/15 sx in formation and 4 sax below EZ drill retainer. Reversed out 107 sax. Job complete at 0930 MST 12-22-76. Recording press gauge on 8-5/8" x 5-1/2 annulus remained unchanged at 400# before, during and after squeeze job. POOH w/2-7/8 EUE tbg and seal assembly. Rih w/20 jts and SION. C. L. Coshaw w/USGS witnessed job.

DO cmt. 14 hr SICP 50#, 14 hr SIP 8-5/8 x 5-1/2 annulus 400#. POOH w/20 stds tbg. Wih w/4-3/4" RB, 6 3-1/2" DC's on 2-7/8" tbg.

Tagged at 4003'. Press 5-1/2 csg to 1000# for 30 mins - ok. Drld retainer at 4010' and cmt stringers to 4256'. Drld old retainer at 4284'. CHC. Pull 5 stds and SION.

SD for Xmas. Drld and CO to 4310'. Drld FC and good cmt to 4327' and bit locked up. CHC and pull 9 stds. SD until Monday morning. CHIC: Bussell.

60 hr SICP 8-5/8 x 5-1/2" annulus 325#. 5-1/2" SICP 0. POOH w/ 2-7/8" EUE tbg, DC's and bit. Rih w/4-3/4" RB and 5-1/2" csg scraper on 2-7/8" EUE tbg. Tagged PBTD 4328'. CACH and POOH. RU Welex. Ran GR-CCL-CBL. Logger's TD 4327'. Cmt bond as follows:

4326-3810'	good bond
3810-3500'	Mostly good - some slight channeling
3500-3172'	slight channeling
3172-2914'	good bond
2914-2651'	slight channeling
2651-2613'	good bond to pipe - weak to formation
2613-2596'	poor bond
2596	top of cmt

The two cmt jobs bonded together well. RD Welex. LDCC's.