

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐  
2. NAME OF OPERATOR  
Chace Oil Company, Inc.  
3. ADDRESS OF OPERATOR  
313 Washington, SE, Albuquerque, NM 87108  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) Unit 'P' - 530' FSL & 531' FEL  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

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5. LEASE  
Tribal Contract #70  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Jicarilla Apache  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Jicarilla Tribal #70  
9. WELL NO.  
10. FIELD OR WILDCAT NAME  
S. Lindriith Gallup Dakota  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 34, T24N, R4W  
12. COUNTY OR PARISH  
Rio Arriba  
13. STATE  
New Mexico  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7100' KB

(NOTE: Report results of completion or zone change on Form 9-330.)

RECEIVED  
OIL CON. DIV.  
DIST. 3

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.)\*

Well History attached - 8/31/83 through 9/1/83

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

TITLE President

DATE September 9, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

SEP 22 1983

\*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA

BY

JICARILLA APACHE 70-16 COMPLETION

8/31/83:

8:00 A. M. Start picking up tubing and 3 7/8" bit.

10:00 A. M. Tag cement with the 97th joint at 3102', 91' above D. V. tool.

12:00 P. M. Drilled out D. V. tool.

2:30 P. M. Tag cement @ 7345', 105' above float collar.

Drill out cement to 7410'.

4:26 P. M. Pressure test casing to 4000 PSI.

Circulate hole with 2% Kcl water.

Spot 250 gal 7½% acetic acid from 7338' up hole. Come out of hole with tubing.

7:00 P. M. Start in hole with logging tools.

7:25 P. M. Logging tools not functioning properly (collar locator).

Come out of hole with tools.

7:45 P. M. Start back in hole with tools.

Loggers TD = 7409'.

Log from TD to 5700' - CBL and CL

from 5400'-4900'

from 3250'-2000'

11:20 P. M. Perforate Dakota 'D' zone @ 7287', 7289', 7301', 7311', 7313', 7318', 7322', 7325', 7330', 7335', 7338' - 4 SPF, 44 holes.

11:42 P. M. Break down Dakota perforations.

Broke at 1800 PSI.

Establish rate 38 BPM @ 3100 PSI

ISIP = 1100 PSI

Start balls. 3 balls/bbl in 11 bbls.

10 bbl spacer

3 balls/bbl in 11 bbls Total = 66 balls

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SEP 23 1983  
OIL CON. DIV.  
DIST. 3

Increase rate to 52 BPM @ 3200 PSI  
Slow rate to 30 BPM  
Have ball action @ 25 BPM @ 2800 PSI  
Have ball off at 4000 PSI  
Run in hole with junk basket  
Recover 64 balls.

9/1/83:

12:49 A. M. Start pad. 53 BPM @ 3350 PSI  
12:56 A. M. Start 0.5 lb sand 52 BPM @ 3400 PSI  
12:58 A. M. 0.5 lb sand  
on formation 53 BPM @ 3400 PSI  
1:00 A. M. Start 1.0 lb sand 52 BPM @ 3400 PSI  
1:02 A. M. 1.0 lb sand  
on formation 52 BPM @ 3400 PSI  
1:11 A. M. On 1.0 lb sand 54 BPM @ 3400 PSI  
1:17 A. M. Start 1.5 lb sand 54 BPM @ 3300 PSI  
1:19 A. M. 1.5 lb sand  
on formation 55 BPM @ 3300 PSI  
1:32 A. M. Start flush 54 BPM @ 3450 PSI  
1:34 A. M. Flush away. Shut down.

ISIP = 1650 PSI

5 min = 1375 PSI

10 min = 1350 PSI

15 min = 1300 PSI

Total sand = 90,000 lbs

Total fluid = 2,352 bbls

2:05 A. M. Start in hole with EZ Drill Bridge plug.  
2:36 A. M. Set plug @ 7240'.  
2:54 A. M. Pressure test plug to 4000 PSI

RECEIVED  
SEP 23 1983  
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DIST. 3

Spot 400 gal 7½% Hcl from 7197' up hole.

7:21 A. M. Perforate Tocito @ 6732', 6736', 6741', 6796', 6846',  
6848', 6850', 6852', 4 SPF, 32 holes.

Perforate Greenhorn @ 7060', 7065', 7072', 4 SPF, 12 holes.

7:45 A. M. Break down perforations.

Broke @ 1000 PSI.

Establish rate 40 BPM @ 3050 PSI

ISIP = 1550

Go in hole with perforating gun to perforate Greenhorn  
and Dakota 'A'.

Got to 3760'. Guns stopped.

8:00 A. M. Guns stuck @ 3760'. Can't move up or down.

8:15 A. M. Pulled 3100 lbs on gun. Pulled out of rope socket.  
Start in hole with tubing and overshot to fish gun.

9:30 A. M. Set down on guns with tubing and overshot.  
Pressure up on tubing to see if overshot is on guns.  
Pressured up on tubing. Must have gun.

9:45 A. M. Come out of hole with tubing.

10:30 A. M. Out of hole with tubing and perforating guns.

10:53 A. M. Start in hole with junk basket.  
Run basket to see if hole is clear to TD.

11:56 A. M. Perforate Greenhorn @ 7075', 7080', 7088', 7098', 7106',  
4 SPF, 20 holes.  
Perforate Dakota 'A' @ 7153', 7157', 7159', 7161', 7164',  
7169', 4 SPF, 24 holes.

12:29 P. M. Perforate Dakota 'A' zone @ 7175', 7181', 7191', 7197',  
4 SPF, 16 holes.

Gun did not fire @ 7181', 7191', 7197'

12:59 P. M. Go in hole with gun to shoot 7181', 7191', 7197'.

1:13 P. M. Shoot 7181', 7191', 7197' - 4 SPF, 12 holes.

1:25 P. M. Break down Tocito, Greenhorn, and Dakota 'A' zones.  
Broke @ 2000 PSI.  
Establish rate 58 BPM @ 3350 PSI  
ISIP = 1500 PSI

1:30 P. M. Start balls.  
5 balls/bbl for 15 bbls.  
3 balls/bbl for 27 bbls. Total = 156 balls

1:33 P. M. Increase rate to 45 BPM @ 2600 PSI  
Have ball off at 4000 PSI

1:45 P. M. Run in hole with junk basket.  
Recover 137 balls.  
DAKOTA 'A', GREENHORN, TOCITO FRAC:

2:28 P. M. Start pad 61 BPM @ 3300 PSI

2:34 P. M. Start 0.5 lb sand 59 BPM @ 3400 PSI

2:37 P. M. 0.5 lb sand  
on formation 59 BPM @ 3400 PSI

2:38 P. M. Start 1.0 lb sand 58 BPM @ 3400 PSI

2:40 P. M. 1.0 lb sand  
on formation 58 BPM @ 3400 PSI

2:48 P. M. On 1.0 lb sand 56 BPM @ 3500 PSI

2:54 P. M. Start 1.5 lb sand 53 BPM @ 3400 PSI

2:56 P. M. 1.5 lb sand  
on formation 53 BPM @ 3400 PSI  
On 1.5 lb sand 52 BPM @ 3600 PSI

3:10 P. M. Cut sand. Go to flush.

3:12 P. M. Flush away. Shut down.

ISIP = 1800 PSI

5 min = 1450 PSI

10 min = 1425 PSI

15 min = 1400 PSI

Total sand = 90,000 lbs

Total fluid = 2,451 bbls

4:12 P. M. Start in hole with Baker retrievable bridge plug.

4:43 P. M. Set plug @ 6340'.

Spot 7 gal sand on plug

5:47 P. M. Pressure test plug.

Got to 3300. Plug slid down hole. Stopped and held 2400 PSI.

Pressure test plug again. Held 4000 PSI.

7:30 P. M. Spot 450 gal 7½% Hcl from 6299' up hole.

9:20 P. M. Perforate Gallup @ 5750', 5756', 5759', 5764', 5773',  
5802', 5804', 5809', 5814', 5818', 5821' - 3 SPF, 33 holes.

9:46 P. M. Break down Gallup perfs.

Broke @ 1500 BPM.

Establish rate 42 BPM @ 2200 PSI

ISIP = 600 PSI

10:05 P. M. Perforate Gallup @ 5823', 5844', 5847', 5852', 5857',  
5859', 5861', 5865', 5867', 6115', 6121' - 3 SPF, 33 holes.

10:34 P. M. Perforate Gallup @ 6134', 6138', 6141', 6143', 6147', 6164',  
6177', 6181', 6186', 6279', 6281' - 3 SPF, 33 holes.

11:03 P. M. Perforate Gallup @ 6284', 6288', 6291', 6293', 6295', 6299',  
3 SPF, 24 holes.

11:19 P. M. Break down all Gallup perforations.

Establish rate 65 BPM @ 2700 PSI

ISIP = 400 PSI

Start balls.

5 balls/bbl in 17 bbls

3 balls/bbl in 28 bbls      Total = 170 balls

Increase rate to 50 BPM @ 2000 PSI

All balls away - No ball off

Start in hole with junk basket

12:14 A. M. Out of hole with junk basket - Recovered 159 balls.

Left 11 on bridge plug.

GALLUP FRAC

12:26 A. M. Start pad.      94 BPM @ 3500 PSI

Shut down. A pump truck "bit the dust".

12:32 A. M. Start pad      83 BPM @ 3000 PSI

12:36 A. M. Start 0.5 lb/gal sand      83 BPM @ 3200 PSI

12:37 A. M.      0.5 sand on  
                                         formation      84 BPM @ 3200 PSI

12:38 A. M. Start 1.0 sand      84 BPM @ 3200 PSI

12:39 A. M.      1.0 sand on  
                                         formation      84 BPM @ 3100 PSI

12:48 A. M.      On 1.0 sand      85 BPM @ 3000 PSI

12:58 A. M. Start 1.5 lb sand      83 BPM @ 3100 PSI

12:59 A. M.      1.5 lb sand on  
                                         formation      83 BPM @ 3200 PSI

1:04 A. M.      On 1.5 lb/gal sand      82 BPM @ 3200 PSI

1:07 A. M. Have a leak. Go to flush. Flush away. Shut down.

1:20 A. M. Fix leak. Start back up.

80 BPM @ 3100 PSI

100 bbls pad, 50 bbls 0.5 lb, 200 bbls 1 lb.

1:24 A. M. Start 1.5 lb sand      78 BPM @ 3000 PSI

1:33 A. M. Start flush

1:34 A. M. Flush away. Shut down.

ISIP = 750 PSI

5 min = 550 PSI

10 min = 500 PSI

15 min = 525 PSI

Total sand = 145,000 lbs

Total fluid = 4,148 bbls

4:30 A. M. Casing pressure 250 PSI

Open well up. Flow back water.

Release bridge plug set @ 6340'

Mill up bridge plug set @ 7240'

Land 2 3/8" production tubing @ 6510 KB - 203 joints