

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 'J' - 2310' FSL & 2270' 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 #71

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Tribal Contract #71

9. WELL NO.

21

10. FIELD OR WILDCAT NAME

S. Lindrith, Gallup Dakota

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

Sec. 10, T23N, R4W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

7313' GL

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

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 - 10/4/83 through 10/7/83

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

TITLE President

DATE

October 11, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

OCT 20 1983

*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA

BY

JICARILLA 71-21 COMPLETION

10/4/83:

Pick up 2 3/8" tubing and 3 7/8" bit.

Drill out D. V. Tool @ 3189'.

Clean out casing to float collar @ 7508'.

10/5/83:

Circulate casing with 2% Kcl water.

9:43 A. M. Pressure test casing to 4000 PSI.

Spot 250 gal 7½% acetic acid from 7394' up hole.

12:00 P. M. Run CBL and correlation log from TD to 5800'.

Run CBL from 5400' to 4900'

and from 3250' to 2000'.

3:20 P. M. Perforate Dakota 'D' zone @ 7362', 7366', 7368', 7372',
7374', 7381', 7383', 7385', 7387', 7392', 7394', 4 SPF, 28 holes
Gun didn't shoot @ 7368', 7372', 7374', 7381'.

3:54 P. M. Shoot Dakota @ 7368', 7372', 7374', 7381', 4 SPF.

4:13 P. M. Break down Dakota 'D' perfs.

Broke @ 2500 PSI.

Establish rate - 55 BPM @ 3200 PSI.

ISIP = 700 PSI.

Start balls - 3 balls/bbl for 22 bbls. (65 total)

Increase rate to 58 BPM @ 2900 PSI.

Have ball action @ 40 BPM.

Have ball off.

Start in hole with junk basket.

Recover 64 balls.

DAKOTA 'D' FRAC:

5:17 P. M. Start pad.

55 BPM @ 2900 PSI

5:21 P. M. On pad.

55 BPM @ 3000 PSI

Jicarilla Apache 71-21 Completion:

5:24 P. M.	Start 0.5 lb/gal sand	54 BPM @ 3250 PSI
5:26 P. M.	0.5 lb/gal sand on formation	54 BPM @ 3300 PSI
5:28 P. M.	Start 1.0 lb sand	54 BPM @ 2900 PSI
5:30 P. M.	1.0 lb sand on formation	48 BPM @ 2900 PSI
	Pump truck went down. Rate slowed to	48 BPM @ 2900 PSI
5:40 P. M.	On 1.0 lb sand	48 BPM @ 2950 PSI
5:48 P. M.	Start 1.5 lb/gal sand	47 BPM @ 3000 PSI
5:50 P. M.	1.5 lb. sand on formation	47 BPM @ 3000 PSI
5:55 P. M.	On 1.5 lb sand	46 BPM @ 3050 PSI
5:58 P. M.	On 1.5 lb sand	46 BPM @ 3150 PSI
6:02 P. M.	Another pump bit the dust. Rate = 35 BPM @ 2700 PSI	
6:06 P. M.	Start flush.	
6:11 P. M.	Flush away. Shut down. ISIP = 1900 PSI 5 min = 1650 PSI 10 min = 1550 PSI 15 min = 1500 PSI Total sand = 90,000 lbs Total fluid = 2,550 bbls Start in hole with EZ drill bridge plug.	
7:15 P. M.	Set plug @ 7280'.	
7:33 P. M.	Pressure test plug to 4000 PSI.	
8:45 P. M.	Spot 400 bal 7½% Hcl from 7232' up hole.	
<u>10/6/83:</u>	Perforate Tocito @ 6904', 6906', 6908', 6910', 6912', 4 SPF, 20 holes.	

Jicarilla Apache 71-21 Completion

12:05 A. M. Perforate Greenhorn @ 7113', 7126', 7135', 7138', 7141',
7145', 4 SPF, 24 holes.

12:41 A. M. Perforate Greenhorn @ 7149', 7151', 7153', 7157', 7159,
4 SPF, 20 holes.

12:42 A. M. Perforate Dakota 'A' zone @ 7213', 7215', 7218', 7220',
7226', 7232', 4 SPF, 24 holes.

1:18 A. M. Break down Tocito, Greenhorn, and Dakota 'A' perfs:
Broke @ 1500 PSI.
Establish rate 53 BPM @ 3100 PSI
ISIP = 900 PSI
Start balls 3 balls/bbl for 47 bbls. (Total 141 balls)
Increase rate to 35 BPM @ 2800 PSI.
Have a ball off @ 4000 PSI.

1:45 A. M. Start in hole with junk basket.
Recover 141 balls.

DAKOTA 'A', GREENHORN, TOCITO FRAC:

2:34 A. M. Start pad. BPM @ 3200 PSI.

2:41 A. M. Start 0.5 lb/gal sand 62 BPM @ 3600 PSI

2:43 A. M. 0.5 lb/gal sand
on formation 62 BPM @ 3575 PSI

2:44 A. M. Start 1.0 lb/gal sand 62 BPM @ 3575 PSI

2:46 A. M. 1.0 lb/gal sand
on formation 62 BPM @ 3500 PSI

2:47 A. M. On 1.0 lb/gal sand 62 BPM @ 3450 PSI

2:55 A. M. On 1.0 lb/gal sand 61 BPM @ 3600 PSI

2:57 A. M. On 1.0 lb/gal sand 60 BPM @ 3600 PSI

2:59 A. M. Start 1.5 lb/gal sand 59.5 BPM @ 3650 PSI

3:01 A. M. 1.5 lb/gal sand
on formation 59 BPM

3:04 A. M. On 1.5 lb/gal sand 58 BPM @ 3700 PSI.
1914 bbls slurry away.

3:09 A. M. Cut sand - Go to flush @ 2166 bbls.

Jicarilla Apache 71-21 Completion:

Flush away. Shut down.

ISIP = 1800 PSI

5 min = 1500 PSI

10 min = 1425 PSI

15 min - 1375 PSI

Total sand = 74,850 lbs

Total fluid = 2,285 bbls

3:35 A. M. Start in hole with Baker Bridge Plug.

4:17 A. M. Set plug @ 6410.5 ft.

4:39 A. M. Pressure test plug to 4000 PSI

Spot 7 gal sand on plug.

Spot 450 gal. 7½% Hcl from 6347' up hole.

9:21 A. M. Perforate Gallup @ 5864', 5882', 5884', 5886', 5889', 5900',
5941', 5943', 5981', 5986', 6010', 3 SPF, 33 holes.

9:49 A. M. Break down Gallup perfs.

Broke @ 1800 PSI.

Establish rate - 42 BPM @ 2400 PSI

ISIP = 450 PSI.

10:07 A. M. Perforate Gallup @ 6028', 6063', 6065', 6145', 6160',
6166', 6176', 6178', 6180', 6190', 6193', 3 SPF, 33 holes.

10:44 A. M. Perforate Gallup @ 6214', 6226', 6230', 6243', 6280',
6302', 6334', 6338', 6341', 6344', 6347', 3 SPF, 33 holes.

11:00 A. M. Establish rate in Gallup perforations.

64 BPM @ 2800 PSI

ISIP = 400 PSI

11:03 A. M. Drop 3 balls/bbl in 52 bbls. Total: 155 balls.

Increase rate to 54 BPM @ 1800 PSI.

Have ball action - 115 bbls away.

Jicarilla 71-21 Completion

No ball off.

11:19 A. M. Reload ball gun with 100 balls.

11:29 A. M. Drop 3 balls/bbl in 33 bbls. Total: 100 balls.

Increase rate to 55 BPM @ 2000 PSI.

Have ball off @ 4000 PSI.

Start in hole with junk basket.

12:13 P. M. Recover 133 balls.

Make another junk basket run.

Recovered 116 balls. Total: 249.

6 balls on plug.

GALLUP FRAC:

12:49 P. M. Start pad. 91 BPM @ 2900 PSI.

12:56 P. M. Start 0.5 lb/gal sand 90 BPM @ 3200 PSI.

12:57 P. M. 0.5 lb/gal sand
on formation 90 BPM @ 3150 PSI.

12:58 P. M. Start 1.0 lb/gal sand 90 BPM @ 3100 PSI

12:59 P. M. 1.0 lb/gal sand
on formation 91 BPM @ 3100 PSI.

1:00 P. M. On 1.0 lb/gal sand 89 BPM @ 3200 PSI.

1:02 P. M. On 1.0 lb/gal sand 88 BPM @ 3300 PSI.

1:04 P. M. On 1.0 lb/gal sand 89 BPM @ 3400 PSI.

Have a pump leaking. Shut it down to fix it.

Slow rate to 80 BPM @ 3000 PSI.

Fix pump. Increase rate to 87 BPM @ 3350 PSI.

1:12 P. M. On 1.0 lb/gal sand 85 BPM @ 3200 PSI.

1:17 P. M. Start 1.5 lb/gal sand 85 BPM @ 3200 PSI.

1:18 P. M. 1.5 lb/gal sand
on formation 84 BPM @ 3200 PSI.

1:19 P. M. On 1.5 lb/gal sand 82 BPM @ 3500 PSI.

Jicarilla Apache 71-21 Completion:

1:22 P. M.	On 1.5 lb/gal sand	84 BPM @ 3250 PSI
1:25 P. M.	On 1.5 lb/gal sand	83 BPM @ 3350 PSI
1:29 P. M.	On 1.5 lb/gal sand	79 BPM @ 3575 PSI
1:31 P. M.	On 1.5 lb/gal sand	78 BPM @ 3600 PSI
1:34 P. M.	On 1.5 lb/gal sand	79 BPM @ 3575 PSI
1:36 P. M.	Start flush	75 BPM @ 3700 PSI

1:37 P. M. Flush away. Shut down.

ISIP = 600 PSI

5 min = 375 PSI

10 min = 250 PSI

15 min = 225 PSI

Total sand = 160,000 lbs.

Total fluid = 4,200 bbls.

4:30 P. M. Open Gallup formation up. Flow back.

10/7/83: Tag sand with 91 stands + 30'.

Wash sand out. Retrieve Baker bridge plug.

Mill up EZ Drill Plug @ 7280'.

Clean out casing to 7508'.

Land production tubing @ 6514'. 201 joints of 2 3/8".