

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form Approved.  
Budget Bureau No. 42-R1424

**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 87108  
313 Washington, SE, Albuquerque, NM
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: Unit 'B', 517' FNL &  
AT TOP PROD. INTERVAL: 1913' FEL  
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

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

SUBSEQUENT REPORT OF:

- ☐  
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**RECEIVED**

MAY 31 1983

U. S. GEOLOGICAL SURVEY.  
FARMINGTON, N. M.

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.  
2-20
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)  
7262' GL

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(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.)\*

See Well History attached.  
5/19/83 through 5/23/83.

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JUN 6 1983

OIL CON. DIV.  
DIST. 3

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED [Signature] TITLE President DATE May 26, 1983

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL IF ANY: \_\_\_\_\_

\*See Instructions on Reverse Side

NMOCC

JUN 07 1983

Jicarilla 71-20 Completion

5/19/83:

11:00 A. M. Start picking up tubing with bit.  
1:00 P. M. Tag cement @ 3020.68'.  
Rig up power swivel. Drill out D. V. tool @ 3095'.  
7:08 P. M. Tag cement above float collar @ 7343'.  
8:45 P. M. Tag float collar with 233 joints in, with 22' stickup  
on 234th joint.  
Circulate hole 30 minutes.  
9:24 P. M. Pressure test casing to 4000 PSI.  
9:30 P. M. Circulate hole with 2% Kcl H<sub>2</sub>O.  
10:25 P. M. TOOHWT.

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MAY 21 1983  
OIL CON. DIV.  
DICT. 2

5/20/83:

12:30 A. M. Start in hole with logging tools.  
1:00 A. M. On bottom with logging tools.  
Loggers TD 7527'  
Run correlation and CBL from TD to 5700'  
Run CBL from 5700-4900'  
3200-2000'  
3:54 A. M. Start in hole with perforating gun to perforate Dakota  
'D' zone.  
4:15 A. M. Perforate Dakota 'D' zone @ 7445', 7441, 7439', 7434', 7432',  
7429', 7421', 7419', 7415' - 4 SPF - 36 holes.  
4:45 A. M. Break down Dakota 'D' zone:  
Broke @ 2000 PSI 10 BPM  
Establish rate 29 BPM @ 3800 PSI  
ISIP = 750 PSI  
4:49 A. M. Start balls. 3 balls/bbl in 9 bbls.  
10 bbl. spacer  
Start balls 3 balls/bbl in 9 bbls.  
Increase rate to 44 BPM 2900 PSI  
Shut down - no ball off - check ball gun.  
5:06 A. M. Reload ball gun. Try ball off again.  
5:10 A. M. Start balls - 3 balls/bbl in 18 bbls.  
Have a ball off at 3900 PSI

5:17 A. M. Surge balls off perforations.

5:18 A. M. Wait 30 min. for balls to settle in rat hole.

6:06 A. M. Start pad. 56 BPM @ 3300 PSI  
 Pressure increases to 3800 PSI @ 54 BPM.  
 Shut down. Balls must have been in frac line when pad was started.

6:21 A. M. Start pad. 48 BPM @ 3500 PSI.

6:29 A. M. Start 1/2 lb sand 48 BPM @ 3500 PSI

6:32 A. M. 1/2 lb sand on formation 50 BPM @ 3400 PSI

6:33 A. M. Start 1 lb sand 50 BPM @ 3400 PSI

6:36 A. M. 1 lb sand on formation 46 BPM @ 3600 PSI

6:37 A. M. 46 BPM @ 3550 PSI

6:53 A. M. Start 1.5 lb sand 47 BPM @ 3400 PSI

6:55 A. M. 1.5 lb sand on formation 46 BPM @ 3550 PSI

6:57 A. M. 46 BPM @ 3600 PSI  
 1905 bbl go to 1 lb sand (59,447# in)  
 Slow rate to 43 BPM @ 3800 PSI  
 Slow rate to 34 BPM @ 3600 PSI  
 2018 bbl. 1 lb on formation 36 BPM @ 3400 PSI

7:15 A. M. Go to flush @ 2455 bbls away.

7:18 A. M. Flush away. Shut down  
 ISIP = 1350 PSI  
 5 min. shut in = 1200 PSI  
 10 min. shut in = 1150 PSI

Total sand: 81,500 lbs.

Total fluid: 2,400 bbls.

7:30 A. M. Go in hole with EZ Drill bridge plug

8:10 A. M. Set plug @ 7346'.

8:35 A. M. Pressure test plug to 4000 PSI. .  
 Got to 2700 PSI. Pressure dropped to 1600 PSI  
 Pressured up to 3000 PSI. Held 2 minutes.  
 Increased pressure up to 4000 PSI. Held.

9:00 A. M. Go in hole with tubing.

10:25 A. M. Spot 400 gal. 7½% Hcl from 7275' up hole.

12:19 P. M. Go in hole with perforating guns.

12:30 P. M. Perforate Tocito zone @ 6963', 6965', 6967', 6969', 6971' - 4 SPF, 20 holes.

12:46 P. M. Break down Tocito formation.  
Broke @ 1600 PSI  
Establish rate. 21 BPM @ 3500 PSI.  
ISIP = 1600 PSI

12:50 P. M. Flow well back.

12:52 P. M. Go in hole with perforating guns.

1:05 P. M. Perforate Greenhorn @ 7168', 7170', 7175', 7181', 7190', 7194', 7206', 7210', 7212' - 4 SPF, 36 holes.

1:19 P. M. Break down Greenhorn formation.  
Broke @ 3100 PSI  
Establish rate 42 BPM @ 3200 PSI  
ISIP = 1700 PSI

1:25 P. M. Go in hole with guns to perforate Dakota 'A'.

1:40 P. M. Perforate 'A' zone @ 7255', 7258', 7260', 7262', 7264', 7266', 7269', 7275'. 4 SPF - 32 holes.

1:53 P. M. Break down Dakota 'A' zone  
Broke @ 3350 PSI  
Establish rate 51 BPM @ 3100 PSI  
ISIP = 1200 PSI

1:55 P. M. Start balls. 5 balls/bbl in 13 bbls.  
10 bbl spacer.  
5 balls/bbl in 13 bbls.  
No ball off

2:13 P. M. Go in hole with junk basket.  
Recovered 72 balls.  
Tag EZ drill @ 7354'.  
Moved 10' down hole.

2:58 P. M. Start pad 56 BPM @ 3100 PSI

3:05 P. M. Start 1/2 lb sand 56 BPM @ 3350 PSI

3:07 P. M. 1/2 lb sand  
on formation 55 BPM @ 3400 PSI

3:08 P. M. Start 1 lb sand 55 BPM @ 3350 PSI

3:10 P. M. 1 lb sand  
on formation 55 BPM @ 3350 PSI

3:15 P. M. 54 BPM @ 3550 PSI

3:18 P. M. 54 BPM @ 3475 PSI

3:24 P. M. Start 1.5 lb sand 52 BPM @ 3650 PSI

3:26 P. M. 1.5 lb sand  
on formation 52 BPM @ 3650 PSI

3:38 P. M. Start flush 52 BPM @ 3750 PSI

3:40 P. M. Shut down.  
ISIP = 1800 PSI  
5 min. = 1400 PSI  
10 min. = 1375 PSI

Total sand = 80,000 lbs.

Total fluid = 2,270 bbls.

4:00 P. M. Go in hole with Baker R. bridge plug.

4:26 P. M. Set plug @ 6500'.

4:39 P. M. Pressure test bridge plug. Plug slid down hole with 3100 PSI on it.

Pressured up to 4000 PSI on plug  
Plug slid down hole.  
Run in hole with dump bailer. Spot 7 gal. sand on plug.  
Plug moved 60' down hole from 6500'.  
Pressure test plug to 4000 PSI. Held.

6:00 P. M. Go in hole with tubing. Spot 450 gal 7½% Hcl from 6401' up hole.  
Start in hole with perforating guns

9:03 P. M. Perforate Upper Gallup formation @ 5849', 5875', 5882', 5911', 5915', 5921', 5923', 5925', 5927', 5932', 5945' - 2 SPF - 22 holes

9:30 P. M. Perforate Upper Gallup formation @ 5947', 5951', 5953', 5979', 6013', 6015', 6031', 6037', 6039', 6047', 6049' - 2 SPF-22 holes

9:56 P. M. Perforate Upper Gallup formation @ 6080', 6093', 6121' - 2 SPF - 6 holes

10:10 P. M. Break down Upper Gallup formation  
Broke @ 1600 PSI  
Establish rate 54 BPM @ 2150 PSI  
ISIP = 650 PSI

10:17 P. M. Go in hole with perforating guns.

10:29 P. M. Perforate Lower Gallup @ 6181', 6189', 6204', 6216', 6219', 6229', 6235', 6238', 6242', 6252' - 2 SPF, 22 holes.

11:00 P. M. Perforate Lower Gallup @ 6256', 6276', 6281', 6284', 6383', 6386', 6391', 6394', 6396', 6399', 6401' - 2 SPF, 22 holes.

Total Gallup perforations: 92

11:15 P. M. Break down Upper and Lower Gallup perforations  
Broke @ 3200 PSI  
Establish rate. 88 BPM @ 2800 PSI  
ISIP = 200 PSI

11:17 P. M. Start balls.  
7 balls/bbl in 10 bbl = 70 balls  
10 bbl spacer  
7 balls/bbl in 10 bbl = 70 balls  
Increase rate to 50 BPM  
Ball action. Have ball off. 4000 PSI

11:30 P. M. Go in hole with junk basket.

5/21/83:

12:05 A. M. Come out of hole with junk basket.  
Recovered 143 balls.

Gallup frac

12:11 A. M. Start pad 96 BPM @ 3400 PSI

12:15 A. M. Start 1/2 lb sand 94 BPM @ 3575 PSI

12:17 A. M. 1/2 lb sand  
on formation 94 BPM @ 3550 PSI

12:18 A. M. Start 1 lb sand 95 BPM @ 3500 PSI

12:19 A. M. 1 lb sand  
on formation 95 BPM @ 3500 PSI

12:22 A. M. 94 BPM @ 3500 PSI

High pressure  
Slow rate to 90 BPM @ 3700 PSI

High pressure  
Slow rate to 82 BPM @ 3800 PSI

High pressure  
Slow rate to 72 BPM @ 3800 PSI

High pressure  
Slow rate to 70 BPM @ 3900 PSI

12:32 A. M. High pressure  
Slow rate to 66 BPM @ 3700 PSI  
Start 1 1/2 lb sand 66 BPM @ 3600 PSI  
1 1/2 lb sand  
on formation 66 BPM @ 3650 PSI

12:41 A. M. 35.5 BPM @ 3650 PSI

12:48 A. M. Go to flush (High pressure)

12:50 A. M. 12 BPM @ 3600 PSI

1:00 A. M. Shut down.  
 ISIP = 500 PSI  
 5 min = 300 PSI  
 10 min = 250 PSI

Total sand = 107,450 lbs.

Total fluid = 3,044 bbls

5:00 A. M. Open well up. Well does not flow.

6:30 A. M. Go in hole with tubing and retrieving head to retrieve bridge plug.

11:30 A. M. Go in hole with tubing and mill to mill up bridge plug @ 7346'.

8:45 P. M. Go in hole with tubing and seating nipple. Land tubing @ Gallup perfs ± 6400'.  
 Swab well.

5/22/83: Swab well.

5/23/83: Swab well.