

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 'E' - 460' FWL & 1750' FNL
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:

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

JUN 30 1983

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

5. LEASE
Tribal Contract #47
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache
7. UNIT AGREEMENT NAME
Jicarilla Tribal #47
8. FARM OR LEASE NAME
Jicarilla Tribal #47
9. WELL NO.
#4-44487
10. FIELD OR WILDCAT NAME
S. Lindrith, Gallup Dakota
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 11, T23N, R4W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
New Mexico
14. API NO.
7372' GR 7386' KB
15. ELEVATIONS (SHOW DF, KDB, AND WD)
7372' GR 7386' KB

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 - 6/20/83 through 6/27/83

Subsurface Safety Valve: Manu. and Type _____

Set @ _____ Ft.

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

SIGNED [Signature] TITLE President

DATE June 28, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

JUL 5 1983

*See Instructions on Reverse Side

NMOCC

FARMINGTON DISTRICT

CV

JICARILLA APACHE 47-4-JV

6/20/83:

10:00 A. M. Start picking up tubing and drill bit.
Tag cement on top of D. V. tool @ 3128'.

6:15 P. M. Drilled D. V. tool.

6:55 P. M. Start running tubing to bottom.

10:56 P. M. Drilling cement on top of float collar.
Bit plugs off. Tie Western onto tubing.
Unplug bit.

12:00 A. M. Drill out cement to float collar - 7609'.

12:15 A. M. Circulate hole with Kcl water.

1:00 A. M. Pressure test casing to 4000 PSI.

1:35 A. M. Spot 250 gal. 7½% acetic acid from 7539' up hole.

3:45 A. M. Start in hole with logging tools.

8:13 A. M. Start in hole with perforating guns.

8:31 A. M. Perforate Dakota 'D' zone @ 7511', 7515', 7519', 7522', 7524', 7527',
7529', 7531', 7535', 7537', 7539' - 4 SPF, 44 holes.

9:12 A. M. Break down Dakota 'D'
Broke @ 2000 PSI.
Establish rate. 42 BPM @ 3800 PSI.
ISIP = 800 PSI.

9:25 A. M. Start balls. 3 balls/bbl - 11 bbls.
10 bbl spacer
3 balls/bbl in 11 bbls. Total: 66 balls.
Have ball action.

9:33 A. M. Have ball off. 4200 PSI.

9:45 A. M. Start in hole with junk basket to retrieve balls.
Recovered 64 balls.

6/21/83: DAKOTA 'D' FRAC:

1:00 P. M. Start pad. 52 BPM @ 2900 PSI.
56 BPM @ 3000 PSI.

1:10 P. M. Start 0.5 lb sand 56 BPM @ 3200 PSI.

1:12 P. M. 0.5 lb sand
on formation 56 BPM @ 3200 PSI.

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1:14 P. M. Start 1.0 lb sand 55 BPM @ 3200 PSI

1:16 P. M. 1.0 lb sand
on formation 55 BPM @ 3200 PSI

1:20 P. M. Pressure 3800 PSI.
Slow rate to 35 BPM.
Pressure 3900 PSI.
Slow rate to 25 BPM.
On 1.0 lb sand 30 BPM @ 3200 PSI

1:30 P. M. On 1.0 lb sand 34 BPM @ 3400 PSI

1:38 P. M. Start 1.5 lb sand 36 BPM @ 3400 PSI
1.5 lb sand
on formation 36 BPM @ 3350 PSI
38 BPM @ 3750 PSI
At 3800 PSI slow rate to 30 BPM

1:45 P. M. Reach max pressure 4000 PSI. Shut down.

Total sand: 60,000 lbs
Total fluid: 1,780 bbls.

3:15 P. M. Start in hole with bridge plug.
Tag sand @ 6819'.
Come out of hole with plug.
Displace hole with water - 120 bbls

7:00 P. M. Start in hole with bridge plug.

7:32 P. M. Set @ 7460'.

7:50 P. M. Pressure test plug to 4000 PSI.

8:10 P. M. Trip in hole with tubing to spot acid.
Spot 400 gal 7½% Hcl from 7393' up hole.

6/22/83:

12:13 A. M. Perforate Tocito @ 7046', 7048', 7050', 7052', 7054'.

Perforate Greenhorn @ 7245', 7251', 7255', 7273', 7285', 7298' - 4 SPF
44 holes

1:14 A. M. Break down perforations.
Establish rate - 40 BPM @ 2800 PSI.
ISIP = 1400 PSI

1:36 A. M. Perforate Greenhorn @ 7260', 7279', 7291', 7301' - 4 SPF, 16 holes.

1:41 A. M. Perforate Dakota 'A' @ 7345', 7347', 7349', 7353', 7355', 7357', 7359'
4 SPF, 28 holes.

2:11 A. M. Perforate Dakota 'A' @ 7361', 7392', 7393'.

Total Dakota perfs: 40
Total Greenhorn: 40 Total Tocito: 20

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2:28 A. M. Break down Tocito, Greenhorn, Dakota 'A' zones:
Broke @ 1800 PSI.
Establish rate - 49 BPM @ 2800 PSI
ISIP = 800 PSI
Start balls - 5 balls/bbl in 15 bbls.
10 bbl spacer
5 balls/bbl in 15 bbl - Total: 150 balls.
Increase rate to 52 BPM @ 2600 PSI.
Have ball action.
Have ball off at 4000 PSI.

2:45 A. M. Start in hole with junk basket.

3:30 A. M. Recovered 123 balls.

DAKOTA 'A', GREENHORN, TOCITO FRAC:

3:40 A. M. Start pad. 56 BPM @ 2900 PSI.

3:47 A. M. Start 0.5 lb sand 58 BPM @ 3000 PSI

3:49 A. M. 0.5 lb sand
on formation 57 BPM @ 3000 PSI

3:50 A. M. Start 1.0 lb sand 57 BPM @ 3000 PSI

3:52 A. M. 1.0 lb sand
on formation 57 BPM @ 3100 PSI

4:05 A. M. Start 1.5 lb sand 58 BPM @ 3150 PSI

4:07 A. M. 1.5 lb sand
on formation 57 BPM @ 3200 PSI

4:16 A. M. On 1.5 lb sand 57 BPM @ 3200 PSI

4:18 A. M. Start flush

4:19 A. M. Flush away. Shut down.

Total fluid: 2,260 bbls.

Total sand: 80,000 lbs.

ISIP = 1600 PSI

5 min = 1425 PSI

10 min = 1325 PSI

4:29 A. M. Start in hole with Baker retrievable bridge plug.

5:18 A. M. Set plug @ 6610'.

5:38 A. M. Test plug to 4000 PSI.

5:45 A. M. Start in hole with dump bailer.

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- 6:35 A. M. Spot 7 gal sand on plug.
Spot 450 gal. 7½% Hcl from 6562' up hole.
- 10:18 A. M. Perforate Gallup zone @ 5934', 6026', 6033', 6259', 6273', 6283', 6314', 6318', 6325', 6332', 6336' - 3 SPF, 33 holes.
- 10:38 A. M. Break down perforations.
Broke @ 1500 PSI.
Establish rate - 39 BPM @ 1800 PSI
ISIP = 100 PSI
- 10:57 A. M. Perforate Gallup zone @ 6354', 6357', 6360', 6362', 6364', 6367', 6379', 6383', 6396', 6400', 6409' - 3 SPF, 33 holes.
- 11:29 A. M. Perforate Gallup zone @ 6413', 6421', 6425', 6427', 6431', 6435', 6437', 6440', 6462', 6467', 6470' - 3 SPF, 33 holes.
- 11:57 A. M. Perforate Gallup zone @ 6489', 6488', 6492', 6562' - 3 SPF, 12 holes.
- Total Gallup perforations: 111
- 12:13 P. M. Break down Gallup perforations.
Broke @ 3400 PSI
Establish rate - 87 BPM @ 2800 PSI
ISIP = 200 PSI
- 12:19 P. M. Start balls. 4 balls/bbl in 20 bbls.
10 bbl spacer
4 balls/bbl in 20 bbls
Total balls: 160
Increase rate to 50 BPM @ 1500 PSI
Have ball action.
Have ball off @ 4000 PSI
- 12:45 P. M. Start in hole with junk basket.
Recovered 159 balls.

GALLUP FRAC

- 1:17 P. M. Start pad. 97 BPM @ 3200 PSI.
Shut down. Have a leak.
- 1:22 P. M. Start pad. 94 BPM @ 3300 PSI
- 1:25 P. M. Start 0.5 lb sand 95 BPM @ 3200 PSI
- 1:26 P. M. 0.5 lb sand
on formation 94 BPM @ 3250 PSI
- 1:27 P. M. Start 1.0 lb sand 92 BPM @ 3250 PSI
- 1:28 P. M. 1.0 lb sand
on formation 92 BPM @ 3250 PSI
- 1:30 P. M. On 1.0 lb sand 91 BPM @ 3300 PSI
- 1:45 P. M. Start 1.5 lb sand 87 BPM @ 3000 PSI

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1:47 P. M. 1.5 sand on formation 86 BPM @ 3000 PSI
1:48 P. M. On 1.5 sand 85 BPM @ 3100 PSI
1:51 P. M. On 1.5 sand 85 BPM @ 3200 PSI
1:54 P. M. On 1.5 sand 83 BPM @ 3300 PSI
1:56 P. M. On 1.5 sand 82 BPM @ 3200 PSI
2:02 P. M. Start flush 83 BPM @ 3200 PSI
Shut down. Job complete.
ISIP = 400 PSI
5 min = 300 PSI
10 min = 250 PSI
15 min = 250 PSI

Total sand = 150,000 lbs
Total fluid = 3735 bbls H₂O

5:15 P. M. Open Gallup zone.
Flowed for 45 minutes.

6/23/83: Tag sand @ 6300', 310' above bridge plug.

12:30 A. M. Out of hole with plug.

2:00 A. M. Start in hole with Baker bridge plug.

2:40 A. M. Set plug @ 5400'.

2:51 A. M. Load hole.

2:56 A. M. Pressure test plug to 4000 PSI.

3:30 A. M. Spot 7 gal. sand on plug.

5:30 A. M. Spot 200 gal. 7½% Hcl from 5370' up hole.

7:35 A. M. Perforate Menefee zone @ 5236', 5240', 5256', 5251', 5266', 5270'.

8:27 A. M. Break down Menefee zone
Broke @ 2300 PSI.
Establish rate 40 BPM @ 1600 PSI
ISIP = 400 PSI

Total fluid pumped: 46 bbls.

1st swab run: fluid level: 800'
pulled 1500' of fluid
consisted of drilling mud and water

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2nd run: water - mud - spent acid
fluid level = 1500'

3rd run: water - drilling mud - acid gas
fluid level = 2000'

4th run: water - acid gas
fluid level: 2000'

5th run: water - spent acid - mud
fluid level = 2500'

6th run: water - mud - fluid was foamy
no smell of natural gas existed
fluid level = 2700'

7th run: water - fluid was foamy
no smell of natural gas
after swab run, well would go on a vacuum

8th run: water - no gas or oil shows
fluid level = 3000'

9th run: water - no gas or oil shows
fluid level = 3000'

10th run: water
fluid level = 3100'

Total fluid recovered: 95 bbls

Total fluid used for breakdown: 46 bbls.
Diff. = 49 bbl formation water recovered
No oil or gas shows

1:00 P. M. Call Halliburton to squeeze cement zone.
Set RTTS packer at 5040'.

7:30 P. M. Cement perforations with 300 sks. Class B, with 2% CaCl_2
Wait 12 hours for cement to set.

6/24/83:

8:30 A. M. Start in hole with tubing and bit.
Tag cement @ 5208'. 62' of cement to drill.

11:00 A. M. Drill cement out.

11:30 A. M. Pressure test casing to 1500 PSI
Start in hole with retrieving head.
Retrieve bridge plug set @ 5400'.
Mill bridge plug set @ 7460'.

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6/25/83:

11:35 A. M. Land 2 3/8" tubing @ 6602.59 KB.
Swab - 225 bbls. water.
Gas cut last 50 bbls.

6/27/83: Move in Silver Star Swabbing.