

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 ☒ gas ☐
well 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.)
AT SURFACE: Unit 'A' - 990' FEL &
AT TOP PROD. INTERVAL: 900' FNL
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

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

DEC 01 1983

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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. 11/12/83 through 11/17/83.

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

L. W. Miller

TITLE President

DATE November 29, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

*See Instructions on Reverse Side

DEC 02 1983

NMOCC

FARMINGTON RESOURCE AREA

BY

KI

CHACE APACHE 54-1 RECOMPLETION

11/12/83: Start out of hole with tubing.

11/14/83:

8:45 A. M. Continue pulling tubing out of hole.

Start in hole with 3 7/8" bit, casing scraper, and tubing.

Clean out casing to bridge plug at 6998'.

1:00 P. M. Establish circulation with 2% Kcl water.

Circulate hole clean.

Trip out of hole with tubing.

2:20 P. M. Start in hole with logging tools. Fluid level 1915'.

Log from 7001' to 5500'.

Loggers' TD 7006'.

Have \pm 90 (+)% cement bond from TD to 5700'.

Start in hole with bridge plug / tubing.

Set plug at 6800'.

5:45 P. M. Pressure test casing to 3800 PSI

Release bridge plug. Come out of hole.

11/15/83: Start in hole with perforating gun.

8:49 P. M. Perforate Dakota 'B' zone at 6967', 6965', 6961', 6959', 6957', 6954', 6952', 6950', 6939', 6937', 6935' - 2 SPF, 22 holes.

9:23 A. M. Perforate Dakota 'A' zone at 6863', 6861', 6859', 6857', 6855', 6853', 6851', 6849', 6847', 6845', 6843', 2 SPF, 22 holes.

10:40 A. M. Pump 400 gal 7½% Hcl across Dakota perforations.

Shut down for 30 minutes.

Displace acid with 98.5 bbls Kcl water.

23 BPM @ 2300 PSI

ISIP = 1500 PSI

11:38 A. M. DAKOTA A AND B FRAC:

(Continued next page)

11:38 A. M. Start pad. 54 BPM @ 3400 PSI
On pad 52 BPM @ 3500 PSI
11:48 A. M. Start 0.5 lb sand 52 BPM @ 3650 PSI
11:50 A. M. 0.5 lb sand
on formation 52 BPM @ 3650 PSI
11:52 A. M. Start 1.0 lb sand 52 BPM @ 3600 PSI
11:54 A. M. 1.0 lb sand
on formation 52 BPM @ 3600 PSI
11:58 A. M. On 1.0 lb sand 51.5 BPM @ 3675 PSI
12:03 P. M. On 1.0 lb sand 51 BPM @ 3700 PSI
12:07 P. M. On 1.0 lb sand 49 BPM @ 3500 PSI
12:16 P. M. Start 1.5 lb sand 49 BPM @ 3600 PSI
12:18 P. M. 1.5 lb sand
on formation 48 BPM @ 3600 PSI
On 1.5 lb sand 48 BPM @ 3750 PSI
12:30 P. M. Slow rate to 46 BPM.
Pressure drops to 3600 PSI
12:33 P. M. On 1.5 lb sand 46 BPM @ 3650 PSI
Pressure at 3750 PSI-show rate to 35 BPM.
12:35 P. M. Cut sand at 2924. Start flush
37 BPM @ 3600 PSI.
12:39 P. M. Flush away. Shut down.
ISIP = 2500 PSI
5 min = 1500 PSI
10 min = 1250 PSI
Total fluid = 3,045 bbls.
Total sand = 107,000 lbs.
1:05 P. M. Start in hole with Halco bridge plug.
1:30 P. M. Set plug at 6818'.
Pressure test plug to 3850 PSI.
Spot 400 gal 7½% Hcl from 6800' up hole

5:53 P. M. Perforate Tocito at 6471', 6473', 6475', 6537', 6544', 6546', 6551', 6553', 6573', 6575', 6577' - 3 SPF, 33 holes.

6:24 P. M. Perforate Greenhorn at 6755', 6757', 6759', 6768', 6770', 6777', 6785', 6787', 6789', 6797', 6799', 3 SPF, 33 holes.

Break down Tocito and Greenhorn formations.

6:43 P. M. Broke at --- No break.

Establish rate 3200 BPM @ 3600 PSI

Shut down.

ISIP = 2700 PSI.

7:01 P. M. Start balls - 3 balls/bbl for 34 bbls - Total: 100 balls.

Increase rate to 28 BPM @ 3400 PSI.

Have ball action at 26 BPM @ 3100 PSI.

Flow back formation to 0 PSI.

Shut in. Pressure builds to 2000 PSI.

Recover 6 balls and hands full of shale fragments.

8:15 P. M. With junk basket, had 12' of fill.

TOCITO AND GREENHORN FRAC:

8:30 P. M. Start pad. 17 BPM @ 3700 PSI

Pressure climbing. Slow rate to 12 BPM.

8:33 P. M. Reach max. pressure of 3800 PSI. Shut down.

Shut in pressure = 2500 PSI.

Wait for pressure to dissipate to 2000 PSI.

Start in hole with Baker ret. bridge plug.

9:56 P. M. Set plug at 6100'.

10:13 P. M. Pressure test plug to 3800 PSI.

10:45 P. M. Spot 10 gal sand on plug.

11/16/83: Spot 400 gal 7½% Hcl from 5998' up hole.

3:07 A. M. Perforate Gallup at 5813', 5840', 5842', 5848', 5852', 5854',
5874', 5876', 5885', 5888', 5943', 3 SPF, 33 holes.

3:36 A. M. Perforate Gallup at 5946', 5949', 5955', 5957', 5959', 5982', 5984',
5994', 5996', 5998', 6004', 3 SPF, 33 holes.

4:07 A. M. Break down Gallup perforations.

Broke at 800 PSI

Establish rate 52 BPM @ 3000 PSI.

Shut down. ISIP - 900 PSI.

4:13 A. M. Start balls. 3 balls/bbl for 34 bbls. 100 balls.

Increase rate to 56 BPM @ 3000 PSI.

Have ball action.

Have ball off at 3800 PSI. Pump 200 bbls water.

Start in hole with junk basket.

Recover 100 balls.

Run in hole with 4½" packer. Set packer at 5700'.

Try to swab Gallup zone. Swab cups won't go down tubing due to
paraffin.

9:00 A. M. Pump swab cups down tubing. Pull out .

Pull 3 joints tubing. Run in hole with swab cups.

Cups go down tubing freely.

12:46 P. M. Start swabbing with packer set at 5600'.

2:28 P. M. 1st swab ran water.

2nd swab ran water. Fluid level at 1500'.

3rd swab ran water. Fluid level at 2500'.

4th swab ran water/oil. Fluid level at 4000'.

5th swab ran water (oil cut, green oil) - Fluid level at 5000'.

2:31 P. M. 6th swab ran water/oil cut/slight gas show. Fluid level at 5000'.

7th same as 6th.

4:00 P. M. Release packer. Come out of hole.

Prepare to frac Gallup zone.

GALLUP FRAC

11:12 P. M.	Start pad.	64 BPM @ 3600 PSI	
11:19 P. M.	On pad	62 BPM @ 3500 PSI	
11:23 P. M.	Start 0.5 lb sand	64 BPM @ 3500 PSI	
11:24 P. M.	0.5 lb sand on formation	62 BPM @ 3600 PSI	
11:27 P. M.	Start 1.0 lb sand	50 BPM @ 3400 PSI	725 bbls slurry gone
11:29 P. M.	1.0 lb sand on formation	50 BPM @ 3250 PSI	
11:36 P. M.	On 1.0 lb sand	50 BPM @ 3400 PSI	
11:38 P. M.	On 1.0 lb sand	46 BPM @ 3550 PSI	
11:40 P. M.	On 1.0 lb sand	42 BPM @ 3650 PSI	

Cut sand due to high pressure.

At 1405 bbls slurry - cut sand.

On flush

11:44 P. M. Flush away. Shut down.

ISIP = 900 PSI

5 min = 700 PSI

10 min = 600 PSI

15 min = 550 PSI

Total sand = 32,450 lbs

Total fluid = 1,500 bbls

11/17/73:

4:00 A. M. Pressure on casing = 400 PSI

Open up Gallup formation. Flow back frac water.

6:30 A. M. Start in hole with tubing and ret. head.

Run in with 70 stands. Circulate hole.

8:30 A. M. Tag sand on top of Baker bridge plug 90' above.

Clean out to plug. Latch on to plug. Come out of hole with plug.

Mill up Howco bridge plug set at 6818'.

Clean out casing to 7002'. Driller's TD.

Land 2 3/8" production tubing at ~~6903'~~
10 KB - 213 joints.