

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.)
AT SURFACE: Unit "C", 336' FNL & 2310' FWL
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* ☐

SUBSEQUENT REPORT OF:

(other) Well History ☒

RECEIVED
MAR 23 1983

(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 - 3/14/83 thru 3/17/83.

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 B. A. Miller TITLE President DATE March 21, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

MAR 28 1983

*See Instructions on Reverse Side

FARMINGTON DISTRICT

BY

NMOCC

47-3 COMPLETION:

3/14/83:

7:30 A. M. Go in hole with tubing and bit.

10:30 A. M. Tag cement @ 3117.33' with 96 joints of tubing.

11:00 A. M. Start drilling on cement.
Drill out 110' of cement.

1:15 P. M. Drill out D. V. tool.

5:25 P. M. Drill 150' of cement on top of float collar
Clean out to 7560', (233 jts).

6:00 P. M. Circulate hole with 2% KCl H₂O.

6:25 P. M. Pressure test casing to 4000 PSI.

6:35 P. M. Pull 3 joints of tubing out of hole.

6:45 P. M. Spot 250 gal. 7½% Acetic acid from 7457' to 7074'.

7:00 P. M. TOOHWT.

9:00 P. M. TIHWLT. CBL and Gamma Ray.
(Have good cement from 1900' down to 3240'.
Have good cement from 5860' to 7560')
T. D. Logger 7568'.

3/15/83:

1:00 A. M. Perforate Dakota 'D' zone @ 7423, 7427, 7429, 7432, 7434, 7437, 7442, 7444, 7449, 7452, 7457. 4 SPF.

Dakota 'D' frac:

1:27 A. M. Break down 2400 PSI 18 BPM

Establish rate 2400 PSI 42 BPM
ISIP = 1000 PSI

1:42 A. M. Start balls. 4 balls/bbl in 8 bbls.
15 bbl spacer
4 balls/bbl in 8 bbls.
Total: 64 balls

Have a ball off @ 4000 PSI

1:51 A. M. Surge balls off perforations.
Wait 30 min. for balls to fall below perms.

2:37 A. M. Start pad 32 BPM @ 2150 PSI

2:40 A. M. Shut down. Have a leak at the well head

2:46 A. M. Start pad. 52 BPM @ 2900 PSI

47-3 Completion

2:51 A. M. 52 BPM @ 3000 PSI

2:53 A. M. Start 0.5 lb/gal sand.

2:55 A. M. 0.5 lb/gal sand on formation 52 BPM @ 3000 PSI

2:58 A. M. Start 1 lb/gal sand 52 BPM @ 3000 PSI

3:00 A. M. 1 lb/gal sand on formation 52 BPM @ 3000 PSI

3:04 A. M. 52 BPM @ 3050 PSI

3:07 A. M. 48.5 BPM @ 3050 PSI

3:09 A. M. 47 BPM @ 3000 PSI

46 BPM @ 3150 PSI

3:14 A. M. 1500 bbls. slurry gone

Go to 1.5 lb/gal sand

3:17 A. M. 1.5 lb/gal on formation 46 BPM @ 3150 PSI

3:19 A. M. 46 BPM @ 3200 PSI

3:32 A. M. Cut sand. 2450 bbls slurry

3:35 A. M. Start flush 46 BPM @ 3200 PSI
Flush away. Shut down.
ISIP = 1400 PSI

Total slurry: 2567 bbls includes 119 bbls. flush

Total sand: 92,271 lbs.

15 min. shut in - 1150 PSI

4:02 A. M. Start in hole with EZ bridge plug.

4:42 A. M. Set plug @ 7370'.

5:00 A. M. Pressure test bridge plug to 4000 PSI.

7:30 A. M. Go in hole with tubing. Spot 250 gal. 7½% Hcl from 7287 up.

8:15 A. M. Come out of hole with tubing.

10:15 A. M. Go in hole with perforating guns to perforate Greenhorn @ 7169, 7174, 7183, 7192, 7199, 7203, 7206, 7216, 7219, 7222' 4 SPF.

Perforate Dakota 'A' @ 7270, 7272, 7274, 7279, 7281, 7283, 7287' - 4 SPF.

47-3 Completion

Dakota 'A' frac:

12:00 P. M. Breakdown = 1800 PSI.
Establish rate 44 BPM @ 2700 PSI
ISIP = 1400 PSI

12:11 P. M. Start balls. 4 balls/bbl in 12 bbls. 48 balls.
15 bbl spacer
Drop 4 balls/bbl in 13 bbls. 52 balls.

12:15 P. M. Blender went down. Shut down.
Wait on Western.

3:43 P. M. Start balls. 4 balls/bbl in 12 bbls.
15 bbl spacer
Drop 4 balls/bbl in 13 bbls. 52 balls.
Up rate to 30 bbl/min. 2200 PSI.

3:50 P. M. 1st set of balls on perfs. 10 BPM, 1500 PSI.
2nd set of balls on perfs. 10 BPM, 1900 PSI.
Have a ball off. 4000 PSI.

3:56 P. M. Surge balls off perforations.
Wait 30 minutes for balls to clear perfs.

4:23 P. M. Start pad. 50 BPM @ 3500 PSI

4:27 P. M. 51 BPM @ 3400 PSI

4:30 P. M. Start 0.5 lb/gal sand 51.5 BPM @ 3400 PSI

4:32 P. M. 0.5 lb/gal sand on formation 52 BPM @ 3400 PSI

4:35 P. M. 1 lb/gal sand 51 BPM @ 3400 PSI

4:37 P. M. 1 lb/gal sand on formation 51 BPM @ 3450 PSI

4:40 P. M. 50 BPM @ 3600 PSI
48 BPM @ 3700 PSI
44 BPM @ 3800 PSI
Slow rate to

4:44 P. M. 42 BPM @ 3700 PSI

4:45 P. M. Slow rate to 32 BPM @ 3900 PSI

4:47 P. M. 33 BPM @ 3600 PSI

4:48 P. M. 32 BPM @ 3650 PSI
Slow rate to 22 BPM due to high pressure

4:57 P. M. 22 BPM @ 3500 PSI

5:09 P. M. Cut sand. 1742 bbls slurry.
Reach max. pressure. Shut down.
Got 33 bbls flush away.

47-3 Completion

45,820 lbs. sand in formation
Total formation and pipe: 48,954 lbs.

- 7:09 P. M. Flow well back. Brought back a slug of sand.
- 7:26 P. M. Displace capacity of casing with slick H₂O.
3 BPM @ 1200 PSI
- 8:10 P. M. 113 bbls away. Shut down.
Start in hole with retrievable bridge plug.
- 8:52 P. M. Set plug @ 6610'.
- 9:14 P. M. Pressure test plug to 4000 PSI.
- 9:33 P. M. Go in hole with dump bailer.
- 10:02 P. M. Dump 7 gal. of sand on bridge plug.
Go in hole with perforating guns.
- Perforate Upper Gallup @ 6003, 6013, 6041. 4 SPF.
- Perforate Gallup @ 6214, 6223, 6247, 6257, 6261, 6263,
6266, 6269. 4 SPF.
- 11:17 P. M. Tie on Western. Break down Upper Gallup and Gallup perfs.
8 BPM @ 3800 PSI. Will not break down.

3/16/83:

- 4:56 A. M. Shut down. Spot acid from 6423 up hole.
Go in hole with guns. Perforate @ 6272, 6277, 6284,
6302, 6305, 6307, 6309, 6311, 6319, 6326, 6349. 4 SPF.
- 5:24 A. M. Go in hole with guns. Perforate @ 6365, 6371, 6377, 6381,
6404, 6408, 6413, 6416, 6420, 6423. 4 SPF.
- Gallup frac
- 6:00 A. M. Break down. 1300 PSI.
Establish rate. 78.5 BPM @ 2400 PSI
ISIP = 350 PSI
- 6:05 A. M. Start balls. 4 balls/bbl for 22 bbls. 88 balls.
15 ball spacer
Start balls. 4 balls/bbl for 23 bbls. 92 balls.
- 107 bbls. gone. See ball action. 1100 PSI 18 BPM
2nd set balls on perfs. Good ball action.
- 6:15 A. M. Have a ball off @ 4000 PSI.
- 6:20 A. M. Go in hole with junk basket to recover balls. Tag balls
and sand @ 6598'.
- 6:35 A. M. Come out of hole with junk basket.
Recovered 183 balls.

47-3 Completion

Gallup frac

7:10 A. M.	Start pad.	89 BPM @ 2750 PSI
7:12 A. M.	Shut down. Have a leak at the well head ISIP = 400. 233 bbls. away.	
7:19 A. M.	Start pad	91 BPM @ 2800 PSI
7:23 A. M.	Start 0.5 lb/gal sand	90 BPM @ 3000 PSI
	0.5 lb/gal sand on formation	90 BPM @ 3000 PSI
7:25 A. M.	Shut down. Frac head washed out. Flush casing with 100 bbls H ₂ O.	
7:29 A. M.	Shut down. Wait for another frac head.	
9:03 A. M.	Start pad	91 BPM @ 2950 PSI
9:05 A. M.	Start 0.5 lb/gal sand	91 BPM @ 3050 PSI
	0.5 lb/gal sand on formation	90 BPM @ 3100 PSI
9:08 A. M.	Start 1 lb/gal sand	90 BPM @ 3050 PSI.
9:09 A. M.	1 lb/gal sand on formation	90 BPM @ 3000 PSI
9:20 A. M.	Start 1.5 lb/gal sand	90 BPM @ 3000 PSI
9:21 A. M.	1.5 lb/gal sand on formation	90 BPM @ 3000 PSI
9:27 A. M.	2150 bbls slurry away	90 BPM @ 3000 PSI
	2550 bbls slurry away	88 BPM @ 3150 PSI
9:30 A. M.	Go to flush @ 2968 bbls slurry 87 BPM @ 3200 PSI	
9:37 A. M.	Shut down.	
	Used <u>3070 bbls slurry</u> <u>140,000 lbs sand</u>	
	ISIP = 400 PSI	
	5 min. = 350 PSI	
	10 min. = 300 PSI	
	15 min. = 300 PSI	
11:40 A. M.	Opened well. Flowed H ₂ O for 2 hours.	
1:00 P. M.	Started in hole with tubing and retrieving head for bridge plug.	

47-3 Completion

4:30 P. M. Released bridge plug. Started out of hole.
Dakota 'A' flowed oil to surface.

7:00 P. M. Out of hole with retrievable bridge plug.

7:15 P. M. Go in hole to mill up EZ drill bridge plug.

9:00 P. M. Milling on B. P.

9:50 P. M. Chase B. P. to bottom. Mill up the remainder of B. P.

3/17/83:

5:30 A. M. Wash out 150' of sand. Circulate hole 1 hour.

12:00 P. M. Go in hole with production tubing.
Landed tubing @ 7430' - 229 joints.

RECEIVED
MAR 31 1983
OIL CON. DIV.
DIST. 3