

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 ☐ 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" 530' FNL & 330' FEL
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

RECEIVED
OCT 08 1982

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

(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.)*

Please note correction of T. D. to 7504', on well history dated 9-23-82.

Well history attached 9-30-82 through 10-2-82.

Subsurface Safety Valve: Manu. and Type

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

SIGNED [Signature] TITLE President

DATE

Ft.

10/6/82

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

NMOCC

71-10 STIMULATION REPORT

9-30-82:

8:00 A. M. Move in Spartan Rig. Rig up.
Start in hole with tubing and bit to drill DV tool @ 3107'.
Tag cement @ 3032', 75' above DV tool.

6:15 P. M. Tag cement 60' above float collar. Drill cement to 7459'.
Circulate hole.

7:24 P. M. Pressure test casing to 4500 PSI. Tubing in hole lost
600 PSI in 3 min.
Install valve in line to isolate pump

7:35 P. M. Pressure test to 4500 PSI. Shut valve in line to pump.
Lost 700 PSI in 3 min.

7:40 P. M. Pressure test to 4500 PSI. Used 3/10 bbl.
Lost 700 PSI in 3 min.
Lost 1200 PSI in 6 min.

7:50 P. M. Pressure up to 1000 PSI.
Lost 60 PSI in 3 min.

7:53 P. M. Pressure up to 2000 PSI.
Lost 175 PSI in 2.5 min.

7:56 P. M. Pressure up to 4500 PSI. Used 8/10 bbl. to reach 4500 PSI.
Lost 700 PSI in 3 min.

8:02 P. M. COOH w/ tubing to run packer to test for leak.

9:53 P. M. Start in hole with packer set @ 3171'.

10:49 P. M. Pressure up on tubing, (below packer), to 4500 PSI.
Lost 275 PSI in 3 min. Could be air compressing.

11:00 P. M. Pressure up to 4500 PSI
Lost $\pm$ 200 PSI in 3 min.

11:19 P. M. Pressure up on tubing to 2500 PSI. Shut it in @ well head.
1850 PSI

11:30 P. M. Pressure up on casing to 1100 PSI.
Lost 200 PSI in 2.5 min.

11:36 P. M. Pressure up on casing to 3000 PSI.
Lost 100 PSI in 0.5 min.

11:38 P. M. Pressure up on casing to 3500 PSI.
Lost 300 PSI in 1 min.

10-1-82:

12:05 A. M. Packer set @ 3077'. Pressure up on tubing to 4500 PSI.
Lost 100 PSI in 1.5 min.
Lost 200 PSI in 4 min.

12:12 A. M. Pressure up on casing to 1800 PSI. Packer let go. Tubing came up out of hole 25'.
Casing and tubing equalized at 3000 PSI.
Lost 400 PSI in 3.5 min.

12:19 A. M. Start out of hole with tubing and packer.

1:07 A. M. Out of hole with tubing.
Go in hole with logging tools.

1:59 A. M. Tag bottom with logging tools @ 7451'.

2:00 A. M. Start correlation log and cement bond log. At T. D.

4:15 A. M. Come out of hole with logging tools.
Have good C. B. L. from T. D. to 4500'; from 4500'-3148 have free pipe; from 3145' (DV tool) to 1300' - Good C. B. L.

4:22 A. M. Load hole to pressure test.

4:30 A. M. Pressure up on casing with blind rams closed to 4500 PSI.
Lost 550 PSI in 3 min. Go in hole with tubing.

6:00 A. M. In hole with tubing. Circulate hole with 2% KCl H₂O, 112 bbl.

6:27 A. M. Shut down.

6:29 A. M. Start acid. Spot 250 acetic acid from 7344' to 6961'.

6:45 A. M. Start out of hole with tubing.

8:52 A. M. Out of hole with tubing.

9:00 A. M. Go in hole with perforating guns to shoot 64 holes.

9:24 A. M. Perforate Dakota "D" Zone @ 7291', 7293', 7314', 7318', 7320', 7322', 7326', 7328', 7330' and 7334'.
Misfire @ 7316'. Will shoot it on 2nd gun run.

9:55 A. M. Perforate Dakota "D" Zone @ 7336', 7338', 7340', 7342', 7344', 7316'

10:12 A. M. Break down. Broke @ 1900 PSI.
Establish rate @ 40 BPM 2300 PSI
ISIP = 1000 PSI BHTP = 4246 PSI

10:14 A. M. Start balls. 6/bbl, in 15 bbl. 90 balls total
45 BPM @ 2500 PSI
46 BPM @ 2650 PSI

DAKOTA "D" FRAC

10:21 A. M. Ball off @ 4000 PSI. Used 185 bbl. for breakdown and ball off.

10:28 A. M. Go in hole with junk basket to recover balls.

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11:18 A. M. Recovered 83 balls.

11:42 A. M. Start pad. 46 BPM 2900 PSI
44 BPM 2800 PSI

11:49 A. M. 43 BPM 2900 PSI

11:52 A. M. Start 0.5 lb/gal 43 BPM 2975 PSI
43 BPM 3000 PSI

11:54 A. M. 0.5 lb/gal sand
on formation 43 BPM 3000 PSI

11:56 A. M. Start 1 lb/gal sand

11:58 A. M. 1 lb sand
on formation 43 BPM 2900 PSI

12:02 P. M. Start 1.5 lb sand 43 BPM 2875 PSI

12:04 P. M. 1.5 lb sand
on formation 43 BPM 2850 PSI
46 BPM 3050 PSI

12:07 P. M. 45 BPM 3100 PSI
43 BPM 3150 PSI

12:11 P. M. 42 BPM 3250 PSI

12:13 P. M. Shift 2 pumps
down 1 gear 37 BPM 3000 PSI

12:17 P. M. 37 BPM 2900 PSI
36.5 BPM 3000 PSI

12:23 P. M. 36 BPM 3050 PSI

12:29 P. M. 35 BPM 3200 PSI

12:30 P. M. Cut sand

12:31 P. M. On flush 34 BPM 3600 PSI

12:34 P. M. Flush in

Total fluid (frac): 2002 bbl.
Total sand : 80,175 lbs 20/40 mesh sand
ISIP = 1750 PSI
5 min 1500 PSI
10 min 1400 PSI
15 min 1350 PSI

1:00 P. M. Go in hole with EZ Drill Bridge Plug.

1:34 P. M. Set @ 7260'.

1:51 P. M. Pressure test bridge plug to 4500 PSI.

2:15 P. M. Lost 650 PSI in 3 min.

Go in hole with tubing to spot acid over Dakota "A" Zone

3:50 P. M. Spot acid, 250 gal. Hcl from 7174'-6791'

4:10 P. M. Come out of hole with tubing.

6:04 P. M. Perforate Dakota "A" Zone @ 7060', 7062', 7085', 7090', 7098', 7104', 7107', 7109', 7150', 7161', and 7163'.

6:30 P. M. Perforate Dakota "A" zone @ 7166', 7168', 7170', 7172, 7174', and 7148'.

6:48 P. M. Dakota "A" Zone breakdown:
Broke @ 1650 PSI
Establish rate @ 52 BPM @ 3000 PSI
ISIP = 1300 PSI

6:50 P. M. Start balls. 5 balls/bbl. 20 bbls., 100 balls total.

6:56 P. M. Ball action.

6:58 P. M. Ball off - 4000 PSI. Fall off to 3300 PSI.
Put pump back in gear. Ball off @ 4000 PSI.
Total bbls for breakdown and ball off - 171 bbls.
Go in hole with junk basket. Recovered 100 balls.

7:50 P. M. Come out of hole with basket. Wait on Western's fuel truck.

DAKOTA "A" ZONE FRAC:

8:59 P. M. Start pad 44 BPM @ 2750 PSI

9:02 P. M. Shut down. Start up pump.
Start pad again. 54 BPM @ 3300 PSI
53 BPM @ 3350 PSI

9:08 P. M. Start 0.5# sand 52 BPM @ 3400 PSI 310 bbl gone

9:11 P. M. 0.5# sand
on formation 52 BPM @ 3400 PSI 420 bbl gone

9:12 P. M. Start 1.0 lb sd. 52 BPM @ 3400 PSI 493 bbl gone

9:14 P. M. 1.0 lb. sand
on formation 52 BPM @ 3350 PSI 603 bbl gone

9:17 P. M. Start 1.5 lb sd 52 BPM @ 3300 PSI 742 bbl gone

9:19 P. M. 1.5 lb sand
on formation 52 BPM @ 3300 PSI 852 bbl gone

9:22 P. M. 52 BPM @ 3250 PSI

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9:26 P. M.	52 BPM @ 3300 PSI	1242 bbls gone
9:30 P. M.	52 BPM @ 3300 PSI	1410 bbls gone
9:31 P. M.	52 BPM @ 3350 PSI	1458 bbls gone
9:34 P. M.	52 BPM @ 3775 PSI	1627 bbls gone
9:35 P. M.	Cut sand	
9:36 P. M.	Start flush	
	51 BPM @ 3400 PSI	1696 bbls gone
	50 BPM @ 3500 PSI	
9:38 P. M.	Shut down	1822 bbls. gone

ISIP = 1775 PSI

5 min = 1500 PSI

10 min = 1450 PSI

15 min = 1400 PSI

Total fluid = 1822 bbl for frac

Total sand = 70,000 lbs 20/40 mesh sand

10:00 P. M. Go in hole with retrievable bridge plug

10:40 P. M. Set retrievable bridge plug @ 6960'. Bleed off pressure

10:45 P. M. Hung up in hole @ 6900'.

10:49 P. M. Got free after pulling 3000 lbs on R. P. B. setting tool.

11:02 P. M. Come out of hole with setting tool.

11:05 P. M. Pressure test B. P.
Put 2200 PSI on plug, and pressure dropped to 1100.

11:09 P. M. Put 3500 PSI on plug, and pressure dropped back to 500 PSI.

11:14 P. M. Open up back side. Well started flowing.
Bridge plug isn't holding.
Trip in hole with tubing to recover R. B. P.

3:45 A. M. Come out of hole with R. P. B. and tubing.

4:02 A. M. Pump capacity of casing to flush sand back into formation.
5 BPM @ 1000 PSI
5 BPM @ 1200 PSI 110 bbls pumped

4:26 A. M. Shut down. Close rams.

4:39 A. M. Go in hole with new R. P. B.

5:30 A. M. Set R. P. B. @ 6940'.

10-2-82:

TOCITO BREAKDOWN AND BALL OFF

12:45 P. M. Come out of hole with junk basket.

TOCITO FRAC

1:03 P. M. 1 lb/gal sand
on formation 54 BPM @ 3300 PSI 598 bbls gone

71-10 Stimulation

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1:06 P. M.	Start 1.5 lb/gal sand	54 BPM @ 3300 PSI	742 bbls gone
1:08 P. M.	1.5 lb/gal sand on formation	54 BPM @ 3375 PSI	847 bbls gone
1:10 P. M.	Drop gears. Reach max. pressure.	Cut sand.	977 bbls gone
1:13 P. M.	Shut down. 4000 PSI. 22,000 lbs. sand into formation ISIP = 1725 PSI 5 min = 1625 PSI 10 min = 1600 PSI 15 min = 1575 PSI		

10-2-82:

2:25 P. M. Flow Tocito formation back.
Have a show of oil and gas.
Leave well open until flow subsides
Go in hole with tubing to retrieve bridge plug @ 6940',
and drill out EZ Drill Bridge Plug @ 7260'. Clean out
to T. D. 7459'.

Land tubing @ 7250'.