

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

313 Washington, SE, Albuquerque, NM 87108

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

Unit "K" 2310 FSL & 2310' FWL

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
OCT 21 1982

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

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

Progress Report

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 attached Well History, 10-14-82 through 10-15-82.



Subsurface Safety Valve: Manu. and Type _____

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

SIGNED

D. W. Miller

PRESIDENT

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCCT

*See Instructions on Reverse Side

RECORDED FOR RECORD

OCT 2 1982

FARMINGTON

BY

Smn

10-14-82:

11:00 A. M. Move Bayless rig on location.
2:00 P. M. Go in hole with tubing.
4:05 P. M. Tag cement @ 90' above D. V. tool - 3025'.
8:15 P. M. Tag cement 80' above float collar @ 7425'. Drill out cement to float collar.
11:04 P. M. Circulate hole with 2% KCl H₂O.
11:31 P. M. Pressure test to 4500 PSI. Held for 7 min. with no leak off.

10-15-82:

12:02 A. M. Spot 250 gal. acetic acid from 7411' to 7028'.
2:00 A. M. Go in hole with logging tools. Cement bond log shows good cement from 7500' to 5700'.
6:25 A. M. Start in hole with perforating guns.
6:40 A. M. Shoot holes @ 7356', 7381', 7388', 7390', 7394', 7396', 7398', 7400', 7403', 7407', and 7411'. DAKOTA "D" ZONE
7:32 A. M. Pressure test frac line to 4800 PSI.
7:44 A. M. Break down. Broke @ 2500 PSI.
Establish rate. 3200 PSI @ 4000 PSI.
ISIP =
7:46 A. M. Start balls drop 70 balls.
7:50 A. M. Shut down. Pressure transducer malfunctions.
Replace transducer.
7:59 A. M. Start balls. Drop 70 balls.
8:05 A. M. Ball off - 3900 PSI. Used 161 bbls ball off and break down
Shut in pressure - 850 PSI.
8:18 A. M. Go in hole to recover balls.
9:03 A. M. Recovered 139 balls.

DAKOTA "D" ZONE FRAC:

9:10 A. M. Start pad 48 BPM @ 3500 PSI
9:15 A. M. 48 BPM @ 3700 PSI

	48 BPM @ 3750 PSI	
9:17 A. M.	48 BPM @ 3650 PSI	
9:19 A. M.	Start 0.5 lb/gal sand	46 BPM @ 3500 PSI
9:22 A. M.	0.5 lb/gal sand on formation	45 BPM @ 3600 PSI
9:23 A. M.	Start 1.0 lb/gal sand	44 BPM @ 3250 PSI
9:26 A. M.	1.0 lb/gal sand on formation	42 BPM @ 3200 PSI
9:29 A. M.	Start 1.5 lb/gal sand	48.5 BPM @ 3600 PSI
	Valve on blender was partially closed. Opened valve up, and rate came up.	
9:31 A. M.	1.5 lb/gal sand on formation	49 BPM @ 3500 PSI
9:32 A. M.		49 BPM @ 3500 PSI
9:35 A. M.		48 BPM @ 3650 PSI
9:37 A. M.		42 BPM @ 3750 PSI
9:38 A. M.		40 BPM @ 3700 PSI
9:39 A. M.	Drop back to 1 PPG sand @ 1335 bbl back to 1.0 lb/gal sand	40 BPM @ 3600 PSI
9:42 A. M.	1.0 lb/gal sand on formation	40 BPM @ 3600 PSI
9:46 A. M.		40 BPM @ 3775 PSI
		Slow rate
9:47 A. M.		35 BPM @ 3600 PSI
9:49 A. M.		36 BPM @ 3500 PSI
9:51 A. M.		36 BPM @ 3400 PSI
9:53 A. M.		36 BPM @ 3250 PSI
9:56 A. M.		36 BPM @ 3200 PSI
10:00 A. M.		36 BPM @ 3150 PSI
10:01 A. M.		36 BPM @ 3100 PSI
10:07 A. M.		36 BPM @ 3100 PSI



10:09 A. M. Out of sand. Clean up tub.

10:10 A. M. Start flush. 3100 PSI 36 BPM 2480 bbl.

10:13 A. M. Shut down. Flush away.
ISIP = 1400 PSI
Total fluid for frac: 2499 bbls.
5 min. shut in - 1200 PSI
10 min. shut in - 1100 PSI

10:36 A. M. Go in hole with EZ drill bridge plug.

11:18 A. M. Set plug @ 7320'.

11:35 A. M. Pressure test bridge plug to 4500 PSI.
Held for 2 min. with no leak off.
Go in hole with tubing.
In hole with tubing. Spot 250 gal. Hcl acid from
6867' to 7250'.

4:09 P. M. Perforate Greenhorn Dakota Zone: @ 7125', 7128', 7140',
7145', 7152', 7156', 7160', 7163', 7166', 7168', 7170'.

4:40 P. M. Perforate Dakota "A" @ 7211', 7218', 7220', 7222', 7226',
7228', 7231', 7234', 7240', 7250'.

4:55 P. M. Prepare to break down

4:59 P. M. 53 BPM 3300 PSI Shut down
ISIP = 1300 PSI
Drop 5 balls/bbls. 26 bbls.

5:04 P. M. 2800 PSI 36 BPM

5:05 P. M. Ball action. 12 BPM 2000 PSI - Shut down.
Total fluid for break down and ball off - 203 bbls.

5:15 P. M. Go in hole with junk basket to recover balls.

6:00 P. M. Come out of hole with junk basket. 37 balls recovered
with 0 hits.

DAKOTA GREENHORN AND DAKOTA "A" FRAC

6:09 P. M. Start pad. 56 BPM @ 3200 PSI

6:13 P. M. 54 BPM @ 3400 PSI

6:15 P. M. Start 0.5 lb/gal
sand 54 BPM @ 3400 PSI

6:17 P. M. 0.5 lb/gal
sand on formation 54 BPM @ 3300 PSI



6:19 P. M. Start 1.0 lb/gal sand 55 BPM @ 3200 PSI

6:21 P. M. 1.0 lb/gal sand
on formation 55 BPM @ 3200 PSI

6:23 P. M. 55 BPM @ 3150 PSI

6:24 P. M. Start 1.5 lb/gal sand 55 BPM @ 3150 PSI

6:26 P. M. 1.5 lb/gal sand
on formation 54 BPM @ 3150 PSI

6:29 P. M. 54 BPM @ 3250 PSI

6:30 P. M. 54 BPM @ 3350 PSI

6:32 P. M. 54 BPM @ 3350 PSI

6:36 P. M. 54 BPM @ 3300 PSI

6:39 P. M. 53 BPM @ 3300 PSI

6:41 P. M. 53 BPM @ 3400 PSI - 1690 bbls. slurry
gone
70,000# sand gone

6:44 P. M. 53 BPM @ 3350 PSI

6:45 P. M. Cut sand.
blender tub clean. Go to flush

6:46 P. M. 52 BPM @ 3550 PSI

6:47 P. M. Shut down. Flush away.
ISIP = 1600 PSI
5 min = 1350 PSI
10 min = 1275 PSI

Total slurry for frac 1982 bbls.
Total H₂O 1895 bbls.
80,000#² sand in formation

7:05 P. M. Go in hole with retrievable bridge plug.

7:52 P. M. Set plug @ 7040'.

8:19 P. M. Pressure test plug to 4500 PSI.
Held for 2 min. without losing any pressure.

10:04 P. M. In hole with tubing. Spot 10 gal. sand on bridge plug;
spot 250 gal. 7½% Hcl from 6941' up.

11:50 P. M. Go in hole with perforating guns.



12:15 A. M. Perforate Tocito zone @ 6809', 6820', 6824', 6830', 6837', 6867', 6869', 6872', 6874', 6876', and 6879'.

12:38 A. M. Go in hole with guns.

12:53 A. M. Shot holes @ 6907', 6909', 6911', 6919', 6921', 6923', 6925', 6927', 6929', 6935', and 6941'.

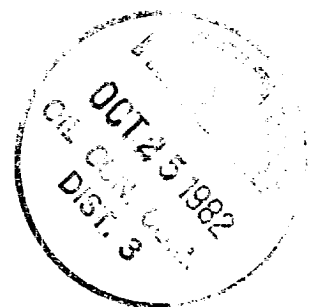
1:17 A. M. Start break down.
Broke @ 1200 PSI
Establish rate @ 49 BPM @ 2600 PSI
ISIP = 1500 PSI

1:23 A. M. Start balls. 130 total.
Up rate to 46 BPM
Slow rate to 11 BPM

1:28 A. M. Ball action. Ball off 4000 PSI. Used 207 bbls.
Recover 117 balls.

TOCITO ZONE FRAC:

2:24 A. M.	Start pad.	54 BPM @ 3000 PSI 60 BPM @ 3200 PSI
2:27 A. M.	Shut down.	Western has a leak in frac line.
2:32 A. M.	Back on pad.	58 BPM @ 3200 PSI
2:35 A. M.	Start 0.5 lb/gal sand	58 BPM @ 3200 PSI
2:37 A. M.	0.5 lb/gal sand on formation	58 BPM @ 3250 PSI 57 BPM @ 3300 PSI
2:38 A. M.	Start 3/4 lb/gal sand	57 BPM @ 3300 PSI
2:40 A. M.	3/4 lb/gal sand on formation	57 BPM @ 3300 PSI
2:42 A. M.		56 BPM @ 3350 PSI
2:43 A. M.	Start 1 lb/gal sand	55.5 BPM @ 3350 PSI
2:45 A. M.	1.0 lb/gal sand on formation	55 BPM @ 3400 PSI
2:46 A. M.		55 BPM @ 3400 PSI
2:49 A. M.		54 BPM @ 3450 PSI
2:50 A. M.		53 BPM @ 3450 PSI 51 BPM @ 3600 PSI



2:51 A. M. 1165 bbls. gone
on flush 3200 PSI 25 BPM

2:53 A. M. Shut down. Reach max. pressure with 55 bbl
flush in
26,000# sand in formation
1220 bbls. slurry for frac

Shut in 5 min. 1550 PSI
10 min. 1500 PSI

Leave well shut in for 1 hour.

4:00 A. M. Flow well back. (Tocito zone).
Have a show of oil and gas.

8:00 A. M. Go in hole with tubing and retrieving head to retrieve
bridge plug at 7040'.
Come out of hole with bridge plug.
Go in hole with tubing and bit to drill up EZ drill bridge
plug. Clean hole out to T. D. - 7505'.
Land 2 3/8" tubing @ 7301' - 226 joints.

