

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 "I" 1775' SL & 990' EL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

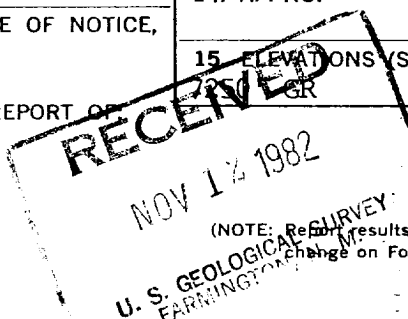
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

☐☐☐☐☐☒☐☐

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 recompletion report.



Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED

B. W. Miller

TITLE

President

DATE

November 9, 1982

APPROVED BY
CONDITIONS OF

APPROVED

TITLE

DATE

APPROVAL, IF ANY:

NOV 17 1982
James F. Sisk
JAMES F. SISK
DISTRICT ENGINEER

NMOCG

*See Instructions on Reverse Side

15-2 Recompletion Report

11/02/82:

- 8:30 A. M. Start pulling tubing out of hole.
- 11:30 A. M. Go back in hole with bit and scraper on tubing. Clean out to bottom. Tag bottom @ 7332'.
- 4:45 P. M. Load hole with KCl H₂O. Circulate 25 bbl. oil to stock tank.
- 6:06 P. M. Spot 350 gal. of 7½% Hcl from 7276' to 6754'.
- 6:34 P. M. Trip out of hole with tubing.
- 8:15 P. M. Go in hole with logging tools to run gamma ray correlation and gas spectrum log.
- 10:15 P. M. Out of hole with gas spectrum log.
- 10:35 P. M. Go in hole with CBL tool. Fluid in hole was too gas cut for CBL tool to work.

11/03/82:

- 12:22 A. M. Come out of hole with CBL tool.
- 1:24 A. M. Go in hole to perforate Greenhorn formation @ 7092', 7097', 7101', 7103', 7108', 7111', 7114', 7116', 7118', 7155' 7157'.
- 1:48 A. M. Perforate above footages - 4 shots per foot.
- 2:26 A. M. Perforate Dakota "A" zone @ 7159', 7161', 7167', 7171', 7173', 7175', 7177', 7179', 7206', 7208', 7258'. 4 SPF.
- 3:05 A. M. Perforate Dakota "B" zone @ 7266', 7268', 7270', 7272', 7274', 7276'. 4 SPF.
- 4:06 A. M. Break down formation.
- Establish rate @ 39 BPM and 3750 PSI
ISIP = 1500 PSI
- 4:16 A. M. Start balls. Drop 85 balls. 28 BPM 2860 PSI
Run 20 bbl spacer.
Drop remaining 105 balls @ 2 balls/bbl 13 BPM 2000 PSI
No ball off. Shut down.
Total fluid for ball off and break down: 385 bbls.
Recovered 189 balls.

Dakota frac:

- 5:45 A. M. Start pad. 37.7 BPM @ 3690 PSI
200 bbl gone 37.4 BPM @ 3620 PSI
350 bbl gone 37.1 BPM @ 3640 PSI
450 bbl gone 35.1 BPM @ 3560 PSI

6:02 A. M.	571 bbls pad gone.	
	Start 1/2 lb/gal sand	35 BPM @ 3590 PSI
6:05 A. M.	1/2 lb/gal sand on formation	34.6 BPM @ 3570 PSI
6:07 A. M.	Start 1 lb/gal sand	34.8 BPM @ 3510 PSI
6:10 A. M.	1 lb/gal sand on formation	34.7 BPM @ 3470 PSI
6:15 A. M.	Start 1 1/2 lb/gal sand	34.5 BPM @ 3500 PSI
6:18 A. M.	1 1/2 lb/gal sand on formation	35.4 BPM @ 3420 PSI
	1250 bbls away	35 BPM @ 3500 PSI
	1370 bbls away	35 BPM @ 3400 PSI
	1504 bbls away.	
	Start flush.	19.7 BPM @ 3320 PSI
6:35 A. M.	Flush away. Shut down.	
	Total fluid for frac: 1624 bbls.	
	Total sand: 44,935 lbs.	
	ISIP = 1100 PSI	
	5 min = 800 PSI	
	10 min = 750 PSI	
7:45 A. M.	Set bridge plug @ 7000'.	
8:25 A. M.	Pressure test bridge plug to 3800 PSI. Bridge plug would not pressure test. Pumped into casing @ 3 BPM 800 PSI.	
8:40 A. M.	Run back in hole with wireline casing collar tool to tag bridge plug. Tagged B. P. @ 7000'.	
10:30 A. M.	Go in hole with packer to hunt for hole.	
1:09 P. M.	Found holes from 4646' to 4737'. Go in hole with packer. Set packer @ 4025'	
6:25 P. M.	Start cement. 4 BPM @ 1600 PSI.	
7:00 P. M.	With 37 bbls. of cement mixed, packer lets loose. 4 BPM @ 1600 PSI. Pumped 15 bbls slurry into formation. Leave 22 bbls. in pipe.	
7:12 P. M.	Try to reverse circulate the tubing, but pump into formation @ 1400 PSI. Shut down.	
7:18 P. M.	Pull tubing and packer out of hole. WOC.	

11/04/82:

3:00 A. M. Trip in hole with tubing and bit.
4:30 A. M. Tag cement @ 3496'; 1240' of cement in casing.
Start drilling.
7:25 P. M. Drill out all cement. Circulate hole.
9:20 P. M. Pressure test casing to 1500 PSI. Held pressure for 5 min.
without any leakoff.
10:00 P. M. Come out of hole with tubing and bit.
11:25 P. M. Go in hole with tubing and mill to drill out bridge plug
@ 7000'.

11/05/82:

1:05 A. M. Tag fill on top of bridge plug @ 6085'. Fill is sand.
Start milling.
7:33 A. M. Milling on part of bridge plug @ 7159'.
Bridge plug moving down hole. COOH with tubing and mill.
1:55 P. M. Go in hole with tubing and packer.
7:58 P. M. Run packer and tubing below perforations. Circulate hole.
Cleaned. Set packer @ 6511'.
10:23 P. M. Put 1000 PSI on backside.
11:10 P. M. Establish rate. 8 BPM @ 3400 PSI
11:15 P. M. Drop 30 balls.
Start acid. Run 2 balls/bbl 3 BPM, 1190 PSI.
11:20 P. M. Establish rate. 10 BPM @ 3780 PSI.
11.1 BPM @ 3670 PSI.
11:36 P. M. No ball off. Shut down. Knock balls off perforation with
packer.

11/06/82:

12:54 A. M. Set packer @ 6511'.
Pressure up to 1000 PSI on casing.

Dakota frac

1:12 A. M. Start pad. 9.5 BPM @ 3910 PSI
10.1 BPM @ 3920 PSI
1:55 A. M. 10.1 BPM @ 3850 PSI

2:00 A. M.	Start 1/2 lb/gal sand	10.1 BPM @ 3840 PSI
2:04 A. M.	1/2 lb/gal sand on formation	9.9 BPM @ 3790 PSI
2:09 A. M.		10.0 BPM @ 3750 PSI
2:14 A. M.		9.9 BPM @ 3720 PSI
2:25 A. M.	Start 1 lb/gal sand	9.9 BPM @ 3730 PSI
2:28 A. M.	1 lb/gal sand on formation	9.9 BPM @ 3740 PSI
2:36 A. M.		9.9 BPM @ 3820 PSI
2:38 A. M.	145 bbls. into 1 lb Go back to 0.5 lb/gal 25 bbls. 0.5 lb/gal away	9.9 BPM @ 3850 PSI
2:41 A. M.	Go to flush.	
2:46 A. M.	Flush away. Shut down. ISIP = 2300 PSI 5 min = 1720 PSI 10 min = 1500 PSI Total fluid: (slurry) 946 bbls. Total sand: 11,500 lbs.	
5:45 A. M.	Tubing pressure 1100 PSI. Flow back.	
7:45 A. M.	Come out of hole with tubing.	
9:29 A. M.	Go in hole with drillable bridge plug.	
9:48 A. M.	Hit something in hole @ 3400'. Come out of hole with bridge plug.	
10:03 A. M.	Go in hole with junk basket to 7092'.	
10:40 A. M.	Come out of hole with junk basket. Picked up packer. Rubbers off of RTTS packer.	
10:50 A. M.	Go back in hole with drillable bridge plug.	
11:22 A. M.	Set plug @ 6992'.	
11:39 A. M.	Pressure test bridge plug to 1000 PSI. Held without any leakoff.	
12:03 P. M.	Shoot perforations in Tocito @ 6741', 6751', 6753', 6773', 6779', 6794', 6808', 6812', 6817', 6819', 6827', Misshot @ 6725.5'. (Bluejet gun fired wrong barrel.)	

1:28 P. M. Shoot perforations in Tocito @ 6829', 6847', 6853', 6855', 6862', 6864', 6866', 6868', 6870', 6872, 6874'.

2:15 P. M. Go in hole with tubing and packer.

5:09 P. M. Spot 250 gal. 7½% Hcl from 6874', to 6501'.
Set packer @ 6173'.

6:33 P. M. Pressure up to 1000 PSI on casing.
Have communication between casing and tubing.
Pull tubing and packer.

11:10 P. M. Replace packer. Set @ 6173'. Pressure up to 1000 PSI on casing, and held.

11:22 P. M. Establish rate. 10.8 BPM @ 4100 PSI
Breakdown formation.
ISIP = 1600 PSI

11:33 P. M. Drop balls. 30 balls in 2 bbls. 9.0 BPM @ 3390 PSI
Run 15 bbl. spacer. 10.4 BPM @ 3440 PSI
Drop 2 balls/bbl. Additional 100 balls.

11:38 P. M. Balls should be on perforation.
Good ball action.

11:53 P. M. Shut down @ 3900 PSI.

11:56 P. M. Surge balls back.

11/07/82:

Tocito frac

Pad 357 bbls.

12:19 A. M. Start pad. 12.7 BPM @ 3840 PSI

12:25 A. M. 12.6 BPM @ 3770 PSI

12:31 A. M. 12.4 BPM @ 3800 PSI

12:43 A. M. 12.9 BPM @ 3840 PSI

12:48 A. M. Start 0.5 lb/gal sand 12.9 BPM @ 3850 PSI

12:51 A. M. 0.5 lb/gal sand
on formation 12.6 BPM @ 3820 PSI

12:57 A. M. 2500 lbs. sand away.

1:04 A. M. Slow rate to 11.8 BPM @ 3760 PSI

1:08 A. M. Slow rate to 11.0 BPM @ 3770 PSI

1:10 A. M. Slow rate to 9.8 BPM @ 3710 PSI

1:12 A. M. 289 bbls. sand laden fluid. Cut sand
on flush 2.7 BPM @ 3540 PSI

1:17 A. M. Shut down. Reach max. pressure.
 ISIP = 1970 PSI
 5 min. = 1970 PSI
 10 min. = 1940 PSI

 Total fluid and slurry pumped: 665 bbls.
 6000 lbs. sand pumped into formation

2:30 A. M. Flow well back. Good show of gas. Slight show of oil.

7:30 A. M. Come out of hole with tubing and packer.

9:24 A. M. Go in hole with retrievable bridge plug.

10:11 A. M. Set packer @ 6400'.

10:31 A. M. Pressure test bridge plug to 1000 PSI.
 Held pressure.

10:38 A. M. Go in hole with perforating gun to perforate the Gallup form.

10:54 A. M. Perforate @ 6218', 6216', 6210', 6208', 6206', 6202', 6194',
 6192', 6190', 6188', 6176'.

11:16 A. M. Go in hole with 2nd perforating gun.

11:30 A. M. Perforate @ 6174', 6170', 6168', 6166', 6164', 6078',
 6060', 6058', 6050', 6005', 5994'.

1:17 P. M. Spot 250 gal. 7½% Hcl from 6218' to 5845'.

2:09 P. M. Set packer @ 5444'.

2:13 P. M. Pressure up to 900 PSI on casing.

2:20 P. M. Break down formation.
 Establish rate. 16.8 BPM @ 3640 PSI
 17.0 BPM @ 3720 PSI
 ISIP = 500 PSI

2:23 P. M. Drop balls. 33 in 15 bbls.
 Run 15 bbl. spacer.
 Run 2 balls/bbl. Additional 100 bbls.

2:38 P. M. Shut down. No ball off.
 Surge balls off perforation. Wait 15 min. for balls to fall.

Gallup frac

2:57 P. M. Start pad. 13.8 BPM @ 3820 PSI
 19.9 BPM @ 3700 PSI
 20.8 BPM @ 3860 PSI

3:10 P. M. Start 0.5 lb/gal sand 19.6 BPM @ 3660 PSI

3:13 P. M. 0.5 lb/gal sand
 on formation 19.0 BPM @ 3510 PSI

3:20 P. M.	Start 1 lb/gal sand	19.1 BPM @ 3580 PSI
3:22 P. M.	1 lb/gal sand on formation	19.0 BPM @ 3700 PSI
3:28 P. M.	On 1 lb/gal sand	18.4 BPM @ 3670 PSI
3:30 P. M.	200 bbls. into 1 lb/gal Go to 3/4 lb/gal sand 12,000 lbs. sand in	18.0 BPM @ 3620 PSI
3:33 P. M.	3/4 lb/gal on formation	18.3 BPM @ 3130 PSI
3:42 P. M.	200 bbls into 3/4 lb/gal sand 18,200 lbs sand in	17.7 BPM @ 3460 PSI
3:48 P. M.	Go to flush 318 bbls. 3/4 lb. sand 22,000 lbs. sand in formation	15.0 BPM @ 3920 PSI
3:51 P. M.	Flush away. Shut down. ISIP = 400 PSI 5 min. = 310 PSI 10 min. = 310 PSI	

11/08/82:

Retrieved retrievable bridge plug. Milled drillable bridge plug.
Cleaned out bottom. Landed tubing at 7242'.