Form 9–331
Dec. 1973

Form Approved.
Budget Bureau No. 42–R1424

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.) Unit 'C' - 660' FNL & 1650' FWL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
Jicarilla 70

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla Apache 70

9. WELL NO.
10

10. FIELD OR WILDCAT NAME
South Lindrith, Gallup Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 34, T24N,R4W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.
30-039-22683

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6991' GR, 7004', KB

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐		☐
FRACTURE TREAT	☐		☐
SHOOT OR ACIDIZE	☐		☐
REPAIR WELL	☐		☐
PULL OR ALTER CASING	☐		☐
MULTIPLE COMPLETE	☐		☐
CHANGE ZONES	☐		☐
ABANDON*	☐		☐
(other)			

(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 - 8/25/84 through 9/12/84.

RECEIVED
SEP 26 1984
OIL CON. DIV.
DIST. 3

RECEIVED
SEP 20 1984
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED D. W. Chace TITLE President DATE September 18, 1984

ACCEPTED FOR RECORD
SEP 24 1984
FARMINGTON RESOURCE AREA
BY

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

NMOCC

70-10 Recompletion

8/25/84: Pull tubing out of hole.
Strapped tubing coming out.

8/27/84:

8:15 AM Start in hole with 4½" Howco Bridge Plug.
Set to collars off of original correlation log at:
5799^{+}, 5841^{-}, 5860^{+}, 5904^{-}.

8:42 AM Set bridge plug at 4750' KB.

9:13 AM Fill casing with 2% Kcl water.
Pressure test casing to 3000 PSI.
Go in hole with logging tools.
Log from 4750' to 2400'.
Have ± 30% bond across Chacra zone.
Have ± 90% bond across Fruitland zone.

2:12 PM Shoot 2 squeeze holes at 3870' KB.

4:37 PM Set cement retainer at 3810'.
Run in hole with tubing and stinger.

5:45 PM Sting into cement retainer.
Pressure test tubing to 2000 PSI.

6:19 PM Put 750 PSI on back side.

6:20 PM Establish rate 4 BPM @ 1800 PSI

6:23 PM Start cement. 3½ BPM @ 1500 PSI

6:27 PM Cement on perfs. 3½ BPM @ 1600 PSI
Mixed 31 bbls cement. Displaced to tool with 14.7 bbls at end of displacement. Had 3 BPM @ 1600 PSI. Pull out of retainer.
Reverse circulate with 22 bbls water.
Pull 5 stands of tubing ± 300'.

8/28/84: Second Day

12:30 PM Circulate casing with 2% Kcl water.
Spot 200 gal 7½% Hcl from 3774' up hole.
Trip out of hole with tubing.

2:03 PM Perforate Chacra zone at:
3663', 3664', 3665', 3728', 3729', 3730', 3746', 3747', 3748', 3749', 3753', 3754', 3771', 3772', 3773, 3774'. 1 SPF, 16 holes.

Jicarilla Apache 70-10 Recompletion

2:21 PM Break down Chacra perforations.
Establish rate 7 BPM @ 1400 PSI
Shut down.
ISIP = 475 PSI
Start balls. 4 balls/bbl for 6 bbls
Increase rate to 6 BPM @ 700 PSI

2:41 PM Have a ball off at 3000 PSI.
Flow well back.
Start in hole with junk basket.

3:17 PM Recover 0 balls.
Junk basket broke.
Start in hole with packer.
Set packer at 3600'.
Shut down for the day.

Third Day

8/29/84:

1st swab run. Spent acid water.
Fluid level at surface. Pull 1000' of fluid. ± 4 bbls pulled from 1000' from surface.

2nd run Fluid level at 1500'.
Pulled 1000' of fluid.
Spent acid water, drilling mud.

3rd run Fluid level at 3000'.
Pulled 500' of fluid.
Spent acid water, drilling mud pulled from seating nipple 3600'.

4th run Fluid level at 3000'.
Pulled 800' of fluid.
Spent acid, water and drilling mud.

5th run Fluid level at 3100'.
Pulled 300' of fluid.
Spent acid water.

6th run Fluid level at 3300'.
Pulled 300' of fluid. Spent acid water.

Jicarilla Apache 70-10 Recompletion

9:30 AM 7th run — Fluid level at 3300'.
Pulled 300' of fluid. Spent acid water.

10:08 AM 8th run — Fluid level at 3450' from surface.
Pulled 150' of fluid (1/2 bbl)
Spent acid water.

10:30 AM 9th run — Fluid level at 3450'.
Pulled 150' of fluid.
Spent acid water.
No gas show.
Swab tubing down to seating nipple.
Fluid entry is ± 30 gal/hr.

11:05 AM 10th run — Fluid level at 3500'.
Pulled 100' of fluid
Spent acid water.
No gas shows.

Decide to test Fruitland zone.

11:20 AM Release packer. Come out of hole.
Set Howco bridge plug at 2700' KB.

3:04 PM Pressure test casing to 2000 PSI.

3:10 PM Spot 100 gal 7½% Hcl from 2592' up hole.

3:55 PM Perforate Fruitland at:
2548', 2549', 2550', 2551', 2558', 2559', 2560', 2561', 2562', 2563', 2564', 2580', 2581', 2582', 2583', 2584', 2586', 2587', 2588', 2590', 2591', 2592', 1 SPF, total of 22 holes.

4:24 PM Break down perforations.
Broke at 800 PSI.
Establish rate 7½ BPM at 1300 PSI
Shut down.
ISIP = 950 PSI

4:27 PM Start balls. 5 balls/bbl for 7 bbls.
Increase rate to 8 BPM at 1200 PSI
Have ball action. Pressure walked up to 2000 PSI at 6.8 BPM.
ISIP = 1100 PSI

5:30 PM Set packer at 2457' KB.
Rig up to swab test Fruitland zone.

Jicarilla Apache 70-10 Recompletion

4th Day

8/30/84:

8:40 AM	1st swab run	Run fluid level at 300'.
8:50 AM		Pulled 2100' of spent acid water.
	2nd run	Fluid level 1800'
		Pulled 350' of acid water.
8:58 AM	3rd run	Fluid level at 2100'.
		Pulled 50' acid water. No gas.
9:05 AM	4th run	Fluid level at 2100'.
		Pulled no fluid.
9:25 AM	5th run	Fluid level at 1900'.
		Pulled 500' of acid water. No gas.
9:40 AM	6th run	Fluid level at 2100'.
		No fluid. No gas.
10:00 AM	7th run	Fluid level at 1900'.
		Pulled 300' acid water. No gas.
10:25 AM	8th run	Fluid level at 2000'.
		Pulled 150' of water. No gas.
10:35 AM	9th run	Fluid level at 1700'.
		Pulled 400' acid water. No gas.
10:41 AM	10th run	Fluid level at 2100'.
		Pulled no fluid. Change out swab cups.
10:58 AM	11th run	Fluid level at 2000'.
		Pulled 70' of water. Slight show of gas. Rig up burn bucket at end of flow line.
11:17 AM	12th run	Fluid level at 2000'.
		Pulled 150' of water.
		Gas coming out of flow line would not burn.
11:24 AM	13th run	Fluid level at 2000'.
		Pulled 70' of water.
		Gas would not burn at flow line.
11:40 AM	14th run	Fluid level at 1800'.
		Pulled 400' of water.
		No gas.
11:46 AM	15th run	Fluid level at 2100'.
		Pulled no fluid. No gas.

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12:00 PM 16th run — Fluid level at 2100'.
Pulled 140' of water.
No gas.

12:15 PM 17th run — Fluid level at 2100'.
Pulled no fluid. No gas.

Decide to squeeze Fruitland perforations.
Pull packer.

2:53 PM Run in hole with Howco RTTS packer.
Set packer at 2237' KB completion rig.
35 stands plus a single.

4:51 PM Took 9 bbls to fill casing.
Put 400 PSI on backside.
Establish rate — 3½ BPM @ 1350 PSI
Start cementing. — 4 BPM @ 1350 PSI
Cement mixed total of 21 1/2 barrels.

5:02 PM Wash pump and lines.
Start displacement. — 2 BPM @ 700 PSI
Total of 10 barrels of water.
Should clear packer by 1.4 bbls, 88'.

5:05 PM With 10 bbls. displacement in, shut down.
Holding 1100 PSI. Wait 5 minutes to pressure up.

5:12 PM Pressure would not increase upon pumping.
Shut down. Wait on cement.

5:24 PM Have 950 PSI.
Try to pressure up on cement with little or no pressure increase.

5:53 PM Try to pressure up on cement.
Got to 1175 PSI. Shut down.
Wait on cement.
Have 131' of cement above top perforation.
Have a total of 181' to bottom perforation.

6:15 PM Pressure up to 1700 PSI.
Hole pressure for 15 minutes.
Release pressure. No flow back. Release RTTS packer.
Reverse circulate tubing. Trip out of hole with packer and tubing.

8/31/84:

Lay down production tubing. Move rig off location.

Jicarilla Apache 70-10 Recompletion

Fifth Day

9/10/84: Move rig on location. Rig up.
Pick up 2 3/8" new tubing and 3 7/8" bit. Drill out cement across Fruitland perforations. Pressure test cement to 1000 PSI. (Lost 200 PSI in 2 minutes)

Sixth Day

9/11/84:

Trip out of hole with 3 7/8" bit and tubing.
Pick up 3 7/8" mill. Trip in hole.
Drill up bridge plug set at 2700' KB.
Push plug down casing with 100 joints of tubing to 3000' KB.

Seventh Day

9/12/84:

10:55 AM Set wire line Howco Bridge Plug below Pictured Cliffs formation at 2860' KB.

11:27 AM Test plug to 1000 PSI. Lost 100 PSI/min.
Held 600 PSI.

11:46 AM Perforate Pictured Cliffs formation from 2802'-2814', 2 SPF, 26 holes.
Trip in hole with tubing and packer.

12:47 PM Spot 100 gal 7½% Hcl from 2814'-2665'.
Set packer at 2650'.

1:33 PM Break down perforations.
Broke at 700 PSI.
Establish rate 4 BPM @ 1900 PSI. Shut down.
ISIP = 300 PSI
Establish rate 6 BPM @ 2550 PSI
ISIP = 450 PSI
Rig up swab equipment.

2:45 PM 1st swab run Pulled 2650' of water. No gas

3:00 PM 2nd run Pulled 300' of water.

3:10 PM 3rd run Pulled 15' of water.
Change swab cups.

3:20 PM 4th run Swabbed 5 gal. water. Flow line was set over fire bucket. Saw no flare before water came to surface.

3:40 PM 5th run 1 bbl. water. No flare at end of flow line.

3:55 PM 6th run No fluid. Vapor coming out of flow line would not burn.

4:15 PM 7th run 1 gal water. Vapor coming out of flow line would not burn.

Jicarilla Apache 70-10 Recompletion

Release packer. Come out of hole.
Run in hole with 87 joints of 2 3/8" tubing.
Land production tubing at 2814' KB.
Rig down. Move off location.

Shut in waiting on sales.

JICARILLA APACHE 70-10

31. Perforation Record:

Chacra:	3663', 3664', 3665', 3728', 3729', 3730', 3746', 3747', 3748', 3749', 3753', 3754', 3771', 3772', 3773', 3774', 1 SPF, 16 holes.
Fruitland:	2548', 2549', 2550', 2551', 2558', 2559', 2560', 2561', 2562', 2563', 2564', 2580', 2581', 2582', 2583', 2584', 2586', 2587', 2588', 2590', 2591', 2592', 1 SPF, 22 holes.
Pictured Cliffs:	2802', 2803', 2804', 2805', 2806', 2807', 2808', 2809', 2810', 2811', 2812', 2813', 2814', 2 SPF, 26 holes

32. Acid:

Chacra:	200 gal 7½% Hcl
Fruitland:	100 gal 7½% Hcl
Pictured Cliffs:	100 gal. 7½% Hcl

30. Squeeze cement

Chacra:	150 sks (174 CF) Class B neat
Fruitland:	100 sks (122 CF) Class B neat