

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		RECEIVED DEC 30 1986
2. NAME OF OPERATOR Chace Oil Company, Inc.		
3. ADDRESS OF OPERATOR 313 Washington SE, Albuquerque, NM 87108		BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Unit 'C', 448' FNL & 1655' FWL		
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7376' GR	

5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract #47	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Jicarilla Tribal Cont. #47	
9. WELL NO. 47-45	
10. FIELD AND POOL, OR WILDCAT South Lindrith Gallup Dakota	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 12, T23N, R4W	
12. COUNTY OR PARISH Rio Arriba	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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, page 8 through page 15.

RECEIVED
DEC 31 1986
OIL CON. DIV.
DIST. 3

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

SIGNED

D. W. McElm

TITLE

President

DATE

12/29/86

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

DEC 30 1986

*See Instructions on Reverse Side

NMOCC

FARMINGTON RESOURCE AREA

JICARILLA 47-45 COMPLETION PROCEDURE:

12/12/86: Move in. Rig up Startan Well Service.

12/13/86: Pick up 2 3/8" tubing and 3 7/8" bit. Drill out D. V. tool @ 3341' KB.
Clean out casing to float collar @ 7535' KB.
Circulate casing clean. Pull three stands of tubing.
Shut down for weekend.

12/15/86:

7:30 a.m. Lower tubing to T. D.

7:46 a.m. Pressure test casing to 4000 PSI.

7:55 a.m. Circulate casing with 2% KCl water.

Spot 250 gal 7 1/2% acetic acid from 7479' up hole.

Trip out of hole with tubing.

11:00 a.m. Go in hole with logging tools.

Loggers' TD = 7526' KB.

Run cement bond log and correlation log from TD to 5900'.

5400' to 5200'

3400' to 3100'

4:52 p.m. Perforate Dakota 'D' zone @ 7467', 7469', 7471', 7473', 7475', 7477',
7479', 4 SPF, 28 holes.

5:20 p.m. Break down Dakota 'D' zone.

Broke @ 2200 PSI.

Establish rate

40 BPM @ 3700 PSI

Shut down. ISIP = 1200 PSI

5:23 p.m. Start balls, 2 balls/bbl for 21 bbls. 15 BPM. Total of 42 balls.

Increase rate to

46 BPM @ 3500 PSI

Have a ball off at 4200 PSI.

Jicarilla Apache 47-45 Completion Procedure:

Surge balls off perforations.

Go in hole with junk basket.

Recover 41 balls.

Dakota 'D' frac

6:17 p.m.	Start pad.	49 BPM @ 3700 PSI
6:26 p.m.	Start 1/2 ppg sand	48 BPM @ 3660 PSI
6:28 p.m.	1/2 ppg sand on formation	50 BPM @ 3740 PSI
6:30 p.m.	Start 1 ppg sand	50 BPM @ 3720 PSI
6:32 p.m.	1 ppg sand on formation	51 BPM @ 3700 PSI
6:39 p.m.	On 1 ppg sand	50 BPM @ 3700 PSI
6:42 p.m.	Start 1 1/2 ppg sand	50 BPM @ 3700 PSI
6:44 p.m.	1 1/2 ppg sand on formation	49 BPM @ 3750 PSI
6:47 p.m.	At 3750 PSI	40 BPM,
	Slow rate to	44 BPM @ 3700 PSI
	1620 bbls away. Cut sand.	
	Reach maximum pressure. Shut down.	
	Flow sand back off of perforation.	
7:17 p.m.	Start pad.	24 BPM @ 3210 PSI
7:22 p.m.	Start 1/2 ppg sand	38 BPM @ 3300 PSI
7:25 p.m.	1/2 ppg sand on formation	38 BPM @ 3260 PSI
7:26 p.m.	Start 1 ppg sand	38 BPM @ 3240 PSI
7:27 p.m.	1 ppg sand on formation	41 BPM @ 3340 PSI
7:30 p.m.	On 1 ppg sand, pressure increasing.	
7:31 p.m.	Cut sand. Go to flush.	41 BPM @ 3500 PSI

ISIP = 1800 PSI
5 min = 1350 PSI
10 min = 1300 PSI
15 min = 1275 PSI

Jicarilla Apache 47-45 Completion Procedure:

Total sand = 64,600 lbs

Total water = 2,200 bbls

Go in hole with Howco bridge plug.

8:17 p.m. Set bridge plug @ 7394' KB.

8:31 p.m. Pressure test plug to 4000 PSI.

Trip in hole with tubing.

Spot 300 gal 7 1/2% Hcl from 7321' up hole.

Trip out of hole with tubing.

1:08 a.m. Perforate Tocito @ 7018', 7020', 4 SPF, 8 holes.

1:10 a.m. Perforate Greenhorn @ 7226', 7231', 7237', 7242', 4 SPF, 16 holes.

1:14 a.m. Perforate Dakota 'A' zone @ 7268', 7288', 7290', 7292', 7309', 7311',
7313', 7315', 7317', 7319', 7321', 4 SPF, 44 holes.

Well started flowing when lower Dakota 'A' was perforated.

Break down perforation.

Broke @ 3600 PSI.

Establish rate 45 BPM @ 3800 PSI

Shut down. ISIP = 1000 PSI

Start balls, 3 balls/bbl for 34 bbls. Total of 102 balls.

Increase rate to 45 BPM @ 3360 PSI

Have a break 47 BPM @ 2850 PSI

Have partial ball off at 4150 PSI.

Bleed back to 3500 PSI.

Pump pressure back up to 4000 PSI 3 times.

Surge balls off perforations.

Go in hole with junk basket.

Recover 95 balls.

Jicarilla Apache 47-45 Completion Procedure:

Dakota 'A', Greenhorn, Tocito frac

2:54 a.m.	Start pad	57 BPM @ 3520 PSI
3:02 a.m.	Start 1/2 ppg sand	57 BPM @ 3540 PSI
3:04 a.m.	1/2 ppg sand on formation	57 BPM @ 3530 PSI
3:06 a.m.	Start 1 ppg sand	57 BPM @ 3520 PSI
3:08 a.m.	1 ppg sand on formation	57 BPM @ 3500 PSI
3:17 a.m.	Start 1 1/2 ppg sand	57 BPM @ 3500 PSI
	One pump truck went down.	53 BPM @ 3400 PSI
3:19 a.m.	1 1/2 ppg sand on formation	54 BPM @ 3420 PSI
3:26 a.m.	On 1 1/2 ppg sand	50 BPM @ 3500 PSI
	Cut sand back to 1 ppg.	
3:29 a.m.	1837 bbls away - 1 ppg sand on formation	49 BPM @ 3540 PSI
	At 1960, cut sand back to 1/2 ppg	48 BPM @ 3620 PSI
3:34 a.m.	1/2 ppg sand on formation	49 BPM @ 3570 PSI
3:35 a.m.	Start 1 ppg sand @ 2143 bbls away	49 BPM @ 3460 PSI
3:37 a.m.	1 ppg sand on formation	49 BPM @ 3280 PSI
3:38 a.m.	Cut sand. Go to flush	
	Have a wellhead leak. Slow rate to	41 BPM @ 2850 PSI
3:41 a.m.	Flush away. Shut down.	
	ISIP = 1600 PSI	
	5 min = 1450 PSI	
	10 min = 1400 PSI	
	15 min = 1375 PSI	
	Total sand = 76,700 lbs	
	Total water = 2,300 bbls	
	Go in hole with Baker bridge plug.	
4:40 a.m.	Set plug @ 6540½' KB.	

Jicarilla Apache 47-45 Completion Procedure:

4:59 a.m. Pressure test to 4000 PSI

Spot 500 gal 7½% Hcl from 6481' up hole.

Perforate Gallup zone at:

8:40 a.m. 6316', 6318', 6320', 6322', 6324', 6326', 6328', 6356', 6358', 6360',
6362', 6364', 6366', 6368',

9:03 a.m. 6391', 6393', 6395', 6397', 6469', 6471', 6473', 6475', 6477', 6479',
6481', 4 SPF, 100 holes.

9:46 a.m. Break down Gallup perforations.

Broke @ 900 PSI

Establish rate

78 BPM @ 3800 PSI

Shut down. ISIP = 550 PSI.

9:48 a.m. Start balls, 4 balls/bbl for 42 bbls - Total of 168 balls.

15 BPM @ 800 PSI

Increase rate to

56 BPM @ 2186 PSI

Have good ball action.

Pressure increases to 4000 PSI. Shut down.

Surge balls off perforations.

Go in hole with junk basket.

Recover 170 balls.

12/16/86: Gallup frac

10:49 a.m. Start pad. 80 BPM @ 3800 PSI

10:56 a.m. Start 1/2 ppg sand 80 BPM @ 3620 PSI

10:58 a.m. 1/2 ppg sand on formation 81 BPM @ 3700 PSI

10:59 a.m. Start 1 ppg sand 82 BPM @ 3670 PSI

11:00 a.m. 1 ppg sand on formation 82 BPM @ 3640 PSI

11:11 a.m. On 1 ppg sand with 1776 bbls away 79 BPM @ 3650 PSI

Jicarilla Apache 47-45 Completion Procedure:

11:14 a.m. Start 1 1/2 ppg sand 76 BPM @ 3720 PSI

11:15 a.m. 1 1/2 ppg sand on formation 70 BPM @ 3380 PSI

11:20 a.m. On 1 1/2 ppg sand 68 BPM @ 3600 PSI

11:21 a.m. Go back to 1 ppg sand at 2458 bbls away
61 BPM @ 3620 PSI

11:23 a.m. Cut sand at 2578 bbls
Pressure @ 55 BPM 3800
Go to flush.

11:25 a.m. On flush.
Pressure went to 4400 PSI
Shut down.
ISIP = 600 PSI.
Total sand in formation: 84,200 lbs.
Have 45 bbls of sand-laden fluid in pipe.

11:30 a.m. Open well up. Flow Gallup formation back.
Try to get frac sand off of perfs.

11:50 a.m. Well died.

12:00 p.m. Trip tubing in hole with wash sand off perfs.
Gallup frac - 2nd try

6:33 p.m. Start pad 53 BPM @ 3350 PSI

6:39 p.m. Start 1/2 ppg sand 54 BPM @ 3360 PSI

6:41 p.m. 1/2 ppg sand on formation 53 BPM @ 3320 PSI

6:44 p.m. Pressure up to 3600 PSI and climbing.
Take 1 pump off line 46 BPM @ 3210 PSI

6:46 p.m. on 1/2 ppg sand 45 BPM @ 3020 PSI

6:49 p.m. Start 1 ppg sand 45 BPM @ 3020 PSI

6:51 p.m. 1 ppg sand on formation 45 BPM @ 2960 PSI

Jicarilla Apache 47-45 Completion Procedure:

6:55 p.m. On 1 ppg sand 44 BPM @ 3080 PSI
6:56 p.m. Start 1 1/2 ppg sand 44 BPM @ 3100 PSI
6:57 p.m. Cut sand. Go to flush 45 BPM @ 3320 PSI
45 BPM @ 3360 PSI

6:59 p.m. Flush away. Shut down.

ISIP = 900 PSI
5 min = 250 PSI
10 min = 150 PSI
15 min = 130 PSI

Total sand (2nd try) = 24,900 lbs
Total water " " = 1,214 bbls

Total sand 1st and 2nd tries = 109,100 lbs

Total fluid " " " " = 4,015 bbls

8:00 p.m. Open well up.

Gallup formation would not flow back.

8:30 p.m. Go in hole with tubing and retrieving head.

Try to break circulation with 80 stands of tubing in hole.

Pump 130 bbls water without returns. Could not circulate well with water.

11:30 p.m. Called for an N₂ truck to clean out sand on top of Baker bridge plug.

12/17/86:

4:00 a.m. N₂ truck on location.

Rig up to tubing. Tag sand on top of bridge plug. Have 4 joints of tubing to circulate down to bridge plug.

Clean out bridge plug with N₂. Release bridge plug.
Come out of hole with tubing and plug.

8:30 a.m. Go in hole with tubing and 3 7/8" mill. Well still dead.

Break circulation with 100 stands in hole. Drill up Howco Bridge plug set @ 7370' KB.

Jicarilla Apache 47-45 Completion Procedure:

Clean out casing to float collar @ 7535' KB.

Land 226 joings of 2 3/8" production tubing with seating nipple at 7380.51' KB, with a 4' perforated sub and a 32.65' tail joint below seating nipple.

End of tubing @ 7417.16' KB.