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 [X] 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 'O' - 710' FSL & 1749' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
Tribal Contract #71

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla Tribal Contract #71

9. WELL NO.
#19

10. FIELD OR WILDCAT NAME
South Lindrith - Gallup Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3, T23N, R4W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7225' GL

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.)*

Well History attached - 8/2/83 thru 8/4/83

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

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

SIGNED D. W. Miller TITLE President DATE August 10, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE ACCEPTED FOR RECORD

CONDITIONS OF APPROVAL, IF ANY:

AUG 19 1983

*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO
BY SMM

NMOCC

JICARILLA APACHE 71-19 COMPLETION

8/2/83:

8:00 A. M. Start picking up tubing and 3 7/8" bit.

9:45 A. M. Tag cement with 99 joints in hole with 12' stick (3195')

11:50 A. M. Drill through D. V. tool.

2:00 P. M. Tag cement on 235th joint with a 20' stickup.

2:45 P. M. Drilled out to float collar @ 7495'.
Circulating casing. Waiting for Western.

5:38 P. M. Pressure test casing to 4000 PSI.

5:44 P. M. Circulate casing with 2% Kcl water.

6:15 P. M. Spot 250 gal. 7½% acetic acid from 7409' up hole.
TOOH with tubing.

8:30 P. M. Start in hole with logging tools.
Log T. D. to 5900' with CBL and correlation
5400' to 4950' " " " "
3250' to 2000' " " " "

11:45 P. M. Start in hole with perforating guns.

8/3/83:

Perforate Dakota 'D' zone @ 7385', 7387', 7390', 7392', 7394', 7399', 7401', 7403', 7407', 7409' - 4 SPF, 40 holes.
Perforating gun did not shoot 7409'.

12:45 A. M. Go in hole with new gun.

1:03 A. M. Perforate Dakota 'D' @ 7409'.
Wait for Western.

3:08 A. M. Break down perforations.
Broke at 2000 PSI.
Establish rate 53 BPM @ 3100 PSI
ISIP = 750 PSI
Start balls 3 balls/bbl in 10 bbls
10 bbl spacer
3 balls/bbl in 10 bbls. Total: 60 balls.
Increase rate to 48 BPM
Have ball action 20 bbl/min 2000 PSI

Have a ball off 4000 PSI

3:30 A. M. Start in hole with junk basket.
Recover 62 balls.

DAKOTA 'D' FRAC

4:36 A. M.	Start pad	56 BPM @ 3400 PSI
4:44 A. M.	Start 0.5 lb sand	54 BPM @ 3550 PSI
4:46 A. M.	0.5 lb sand on formation	54 BPM @ 3500 PSI
4:47 A. M.	Start 1.0 lb sand	54 BPM @ 3475 PSI
4:49 A. M.	1.0 lb sand on formation	54 BPM @ 3450 PSI
5:05 A. M.	Start 1.5 lb sand	54 BPM @ 3400 PSI
5:07 A. M.	1.5 lb sand on formation	53 BPM @ 3400 PSI
5:17 A. M.	On 1.5 lb sand	52 BPM @ 3400 PSI
5:20 A. M.	Start flush	52 BPM @ 3400 PSI

Shut down. Flush away.
Total sand = 90,000 lbs
Total fluid = 2,444 bbls.

ISIP = ??? (Pressure transducer stopped working. No ISIP recorded)

15 min = 1050 PSI

5:45 A. M. Start in hole with EZ drill bridge plug.

5:52 A. M. Come out of hole with plug. Collar locator stops working.

6:18 A. M. Start in hole with bridge plug.

6:57 A. M. Set bridge plug @ 7303'

7:15 A. M. Pressure test plug to 4000 PSI.
TIHW tubing. Spot 400 gal 7½% Hcl from 7242' up hole.
Start in hole with perforating guns.

10:55 A. M. Perforate Tocito zone @ 6801', 6805', 6820', 6826', 6855', 6863', 6871', 6914', 6917', 6919', 6922' - 3 SPF 33 holes

11:18 A. M. Break down Tocito perforations

Establish rate 37 BPM @ 3400 PSI

ISIP = 1450 PSI

11:43 A. M. Start in hole with guns to perforate Greenhorn

12:04 P. M. Perforate Greenhorn @ 7123', 7129', 7145', 7151', 7156', 7159', 7168', 7170', 7173', 7175', 7178' - 3 SPF, 33 holes.

12:43 P. M. Perforate Dakota 'A' zone @ 7213', 7220', 7223', 7226', 7228', 7230', 7232', 7235', 7238', 7242' - 3 SPF, 30 holes.

1:03 P. M. Start balls. 5 balls/bbl in 14 bbls

10 bbl spacer

5 balls/bbl in 14 bbls. Total of 140 balls.

Increase rate to 58 BPM 3400 PSI

Have a ball off at 4000 PSI

Start in hole with junk basket

Recovered 140 balls

DAKOTA 'A', GREENHORN, TOCITO FRAC

2:09 P. M.	Start pad	59 BPM @ 3300 PSI
2:16 P. M.	Start 0.5 lb/gal sand	58 BPM @ 3250 PSI
2:18 P. M.	0.5 lb/gal sand on formation	58 BPM @ 3250 PSI
2:19 P. M.	Start 1.0 lb/gal sand	58 BPM @ 3200 PSI
2:21 P. M.	1.0 lb/gal sand on formation	58 BPM @ 3200 PSI
2:29 P. M.	On 1.0 lb/gal sand	58 BPM @ 3300 PSI
2:35 P. M.	Start 1.5 lb/gal sand	56 BPM @ 3400 PSI
2:37 P. M.	1.5 lb/gal sand on formation	56 BPM @ 3500 PSI
2:39 P. M.	On 1.5 lb/gal sand	54 BPM @ 3500 PSI
2:50 P. M.	Start flush	54 BPM @ 3500 PSI

2:52 P. M. Flush away. Shut down.

ISIP = 1700 PSI
5 min = 1400 PSI
10 min = 1350 PSI
15 min = 1300 PSI

Jicarilla Apache 71-19 Completion

Total sand = 90,000 lbs
Total fluid = 2,438 bbls

3:18 P. M. Start in hole with Baker retrievable bridge plug.

3:52 P. M. Set plug @ 6420'.

4:09 P. M. Pressure test bridge plug to 4000 PSI.

5:00 P. M. Spot 7 gal sand on plug.

6:25 P. M. Spot 450 gal 7½% Hcl from 6362' up hole.

8:25 P. M. Perforate Gallup @ 6147', 6149', 6152', 6159', 6180', 6182', 6189', 6191', 6193', 6202', 6204' - 4 SPF, 44 holes.

8:45 P. M. Break down perforations.
Broke @ 1500 PSI.
Establish rate 50 BPM @ 2000 PSI
ISIP = 200 PSI

9:09 P. M. Perforate Gallup @ 6224', 6240', 6244', 6246', 6312', 6316', 6322', 6338', 6343', 6348', 6350' - 4 SPF, 44 holes.

9:45 P. M. Perforate Gallup @ 6354', 6359', 6362' - 4 SPF, 12 holes

Total Gallup perforations: 100

10:02 P. M. Break down all perforations.
Establish rate 88 BPM @ 2800 PSI
ISIP = 200 PSI
Start balls 10 BPM
5 balls/bbl in 15 bbls
10 bbl spacer
5 balls/bbl in 15 bbls
Total: 150 balls
Increase rate to 75 BPM
Have ball action
Have ball off @ 4000 PSI

10:20 P. M. Start in hole with junk basket.

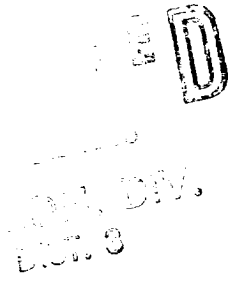
Recover 101 balls.
Left 49 balls on plug.

Jicarilla Apache 71-19 Completion

GALLUP FRAC

11:24 P. M.	Start pad	92 BPM @ 3200 PSI
11:29 P. M.	Start 0.5 lb/gal sand	90 BPM @ 3300 PSI
11:30 P. M.	0.5 lb/gal sand on formation	90 BPM @ 3300 PSI
11:31 P. M.	Start 1.0 lb/gal sand	90 BPM @ 3300 PSI
11:32 P. M.	1.0 lb/gal sand on formation	90 BPM @ 3250 PSI
	Pump goes down - Rate =	84 BPM @ 2800 PSI
11:40 P. M.	On 1.0 lb/gal sand	82 BPM @ 3050 PSI
11:45 P. M.	On 1.0 lb/gal sand	80 BPM @ 3200 PSI
11:46 P. M.	On 1.0 lb/gal sand	76 BPM @ 3500 PSI
11:48 P. M.	On 1.0 lb/gal sand	73 BPM @ 3650 PSI
11:49 P. M.	Cut sand @ 3800 PSI @ 50 BPM	
11:52 P. M.	Flush away. Shut down.	

ISIP = 400 PSI
5 min = 200 PSI
10 min = 200 PSI
15 min = 180 PSI
Total sand = 64,000 lbs
Total fluid = 2,307 bbls



8/4/83:

3:00 A. M. Opened well up. Flowed Gallup formation back. Flowed 30 min.

8:00 A. M. Released Baker bridge plug set @ 6420'.

11:30 A. M. Mill up EZ drill bridge plug set @ 7303'. Clean hole out to bottom 7495'

Land 2 3/8" tubing @ 6510', 208 joints