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.)
AT SURFACE: Unit 'F' - 1805' FNL & 2255' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
Jicarilla 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.
#-23

10. FIELD OR WILDCAT NAME
South Lindrith, Gallup Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 10, T23N,R4W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7382' GR

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)			

RECEIVED
MAY 31 1984
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

(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:

5/11/84 through 5/16/84

RECEIVED
JUN 04 1984
OIL CON. DIV.
DIST. 3

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 May 29, 1984

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

ACCEPTED FOR RECORD
JUN 01 1984
FARMINGTON RESOURCE AREA
BY

NMOCC

5/5/84:

Day #12. Present operation: drilling. Depth today: 7430'. 24 hour footage: 250'. Drill collars - No: 21. Size: 6". Bore: 2¼. Weight: 50,000#. Rotary - RPM: 55. Weight on bit: 38,000#. Present drilling rate: 8'/hr. Pump - liner size: 5½. Pressure: 1,000#. Strokes per minute: 52. Mud - Vis: 45. Wt.: 9.5. LCM: 3%. No additives information. Deviation record: 1 3/4° @ 7156'. Bit #6: 7 7/8", J33; 274', 26 1/2 hours.

1/4 hour	RS. Check BOP.
23 3/4 hours	Drilling

5/6/84:

Day #13. Present operation: logging. Depth today: 7632' TD. 24 hour footage: 202'. Drill Collars: No: 21. Size: 6. Bore: 2¼. Weight: 50,000#. Mud - Vis: 70. Wt.: 9.6. W. L.: 5.0. 5% LCM. Deviation record: 2° @ 7632'.

1/4 hour	RS
15 1/4 hours	Drilling
3 hours	Circulate
4 1/4 hours	Trip for log
1 hour	Logging

5/7/84:

Day #14. Present operation: Setting casing. Depth today: 7632' TD.

4 1/4 hours	Log
7 1/4 hours	Trip. Lay down drill pipe and drill collars
4 1/2 hours	Run 4½" casing.
2 hours	Circulate and cement first stage
3 hours	Open D. V. tool and circulate
1 hour	Cement second stage
2 hours	Nipple down. Set casing slips

Rig released at 6:00 A. M.

Ran 187 joints, plus a short joint, of 4½", 11.6 lb/ft N-80 casing, set at 7632' KB. Guide shoe @ 7631'. Float collar at 7588'. Short joint from 5984'-6000'. D. V. tool at 3119'. Cement baskets at 7019', 6898', 5697', 5127', 4597', 2339'. First stage: pumped 20 bbls. Flochek 21. Cemented first stage with 1250 sks (1788 CF) 50/50 pozmix, 2% gel, 6¼ lb/sk Gilsonite, 6 lb/sk salt. Plug down @ 12:05 P. M. Opened D. V. tool. Circulated upper stage 3 hours. Second stage: Pumped 20 bbls. Flochek 21. Cemented second stage with 450 sks. (1049 CF) 65/35 pozmix, 12% gel, 6¼ lb/sk Gilsonite. Tailed in with 50 sks. (59 CF) Class B neat. Plug down at 3:50 A. M. on 5/7/84. Circulated 15 bbls cement to surface.

COMPLETION REPORT

5/11/84:

Pick up 3 7/8" bit and 2 3/8" tubing. Tag cement on top of D. V. tool with 94 jts. with 10' stickup. Have 84' of cement to drill.
Tag cement 90' above float collar. Drill out cement to 7580' KB. Tag collar.

5/14/84:

8:04 A. M. Pressure test casing to 4000 PSI.

8:09 A. M. Circulate casing clean with 2% Kcl water.

9:10 A. M. Spot 200 gal 7½% acetic acid from 7502' up hole.
Trip out of hole with tubing.

11:00 A. M. Start in hole with logging tools.
Wireline T. D. = 7582'.
Log from 7582' to 5900' CBL and Correlation
5400' to 4900'
3150' to 2000'

2:43 P. M. Perforate Dakota 'D' zone:

7447', 7451', 7474', 7476', 7478', 7480', 7482', 7484', 7486', 7488', 7490', 3 SPF, 33 holes.

3:15 P. M. Perforate Dakota 'D' zone at

7492', 7494', 7502', 3 SPF, 9 holes.

Total of 42 holes.

3:48 P. M. Break down 'D' zone.
Broke at 2300 PSI.
Establish rate 51 BPM @ 3500 PSI
Shut down. ISIP = 450 PSI
Start balls. 2 balls/bbl for 30 bbls.
Increase rate to 48 BPM at 2600 PSI
50 BPM at 2800 PSI
Have ball off at 4000 PSI.
Use 176 bbls. for breakdown and ball off.

4:10 P. M. Start in hole with junk basket.
Recover 60 balls.

4:51 P. M. Start pad. 55 BPM @ 3000 PSI
Have a line leak. Shut down.

4:54 P. M. With 221 bbls pad away
ISIP = 1000 PSI
7 min. shut in 600 PSI

5:00 P. M. Start pad. 56 BPM @ 3200 PSI

5:05 P. M. Start 0.5 lb sand 55 BPM @ 3300 PSI

5:06 P. M. 0.5 lb sand
on formation 55 BPM @ 3400 PSI

5:08 P. M. Start 1.0 lb sand 53 BPM @ 3300 PSI

5:10 P. M.	1.0 sand on formation	53 BPM @ 3300 PSI
5:12 P. M.	Have a line burst. Shut down at 825 bbls away. Repair line.	
5:14 P. M.	Start back up on 1.0 lb sand	52 BPM @ 3550 PSI
5:18 P. M.	On 1.0 lb sand	50 BPM @ 3600 PSI
5:20 P. M.	Start 1.5 lb sand	52 BPM @ 3450 PSI
5:23 P. M.	1.5 lb sand on formation	52 BPM @ 3500 PSI
5:24 P. M.	On 1.5 lb sand	50 BPM @ 3400 PSI
	Pressure at 3850 PSI.	
	Slow rate to	41 BPM
	On 1.0 lb sand	40 BPM @ 3400 PSI
5:29 P. M.	Increase sand concentration to 1.5 lb sand	50 BPM @ 3300 PSI
5:32 P. M.	1.5 lb sand on formation	50 BPM @ 3350 PSI
	On 1.5 lb sand	39 BPM @ 3550 PSI
	Go to 1.0 lb sand at 1779 bbls.	
	Reach max. pressure. Shut down.	
	Flow well back until slug of sand came to surface.	
6:13 P. M.	Start pumping.	34 BPM @ 3400 PSI
		34 BPM @ 3200 PSI
	Pad on formation	35 BPM @ 2900 PSI
6:18 P. M.	Start 3/4 lb sand	35 BPM @ 2850 PSI
	Start at 150 bbls.	
	3/4 lb sand on formation	35 BPM @ 2800 PSI
	Start 1.0 lb sand	35 BPM @ 3000 PSI
		424 bbls
6:26 P. M.	Cut sand. Go to flush	35 BPM @ 3000 PSI
	Flush away. Shut down.	
	ISIP = 1800 PSI	
	5 min = 1375 PSI	
	68,100 lbs sand	
	2,268 bbls fluid	
	Start in hole with bridge plug.	

7:17 P. M. Set plug at 7400'.
Pressure test plug to 4000 PSI.
Trip in hole with tubing.
Spot 300 gal 7½% Hcl from 7360' up hole.

Perforate Tocito at 6994', 7033', 7035', 3 SPF, 9 holes.

5/15/84:

12:45 A. M. Perforate Greenhorn at 7245', 7249', 7251', 7254', 7256', 7259', 7262', 7264', 3 SPF, 24 holes.

1:19 A. M. Break down perforations.
Broke at 2600 PSI
Establish rate 31 BPM @ 3000 PSI
Shut down. ISIP = 1600 PSI
Flow well dead.

1:44 A. M. Perforate Greenhorn at 7268', 7271', 3 SPF 6 holes.

1:45 A. M. Perforate Dakota 'A' at 7322', 7324', 7326', 7328', 7330', 7332', 7334', 7336', 7360', 3 SPF, 27 holes.

2:04 A. M. Establish rate in all perforations.
50 BPM @ 3500 PSI
Shut down. ISIP = 950 PSI

2:06 A. M. Start balls. 3 balls/bbl in 33 bbls.
Increase rate to 42 BPM @ 3000 PSI
Have ball off at 400 PSI
Use 174 bbls for break down and ball off.

2:28 A. M. Start in hole with junk basket.

Recover 78 balls.

DAKOTA 'A', GREENHORN, AND TOCITO FRAC:

3:08 A. M.	Start pad	58 BPM @ 3600 PSI 57 BPM @ 3700 PSI
3:16 A. M.	Start 0.5 lb sand	57 BPM @ 3700 PSI
3:18 A. M.	0.5 lb sand on formation	56 BPM @ 3750 PSI
3:19 A. M.	Start 1.0 lb sand	56 BPM @ 3750 PSI
3:21 A. M.	1.0 lb sand on formation	56 BPM @ 3750 PSI
3:25 A. M.	On 1.0 lb sand	56 BPM @ 3750 PSI
3:28 A. M.	Start 1.5 lb sand	56 BPM @ 3750 PSI

3:30 A. M. 1.5 lb sand on formation 55 BPM @ 3775 PSI

3:34 A. M. On 1.5 lb sand 54 BPM @ 3800 PSI

At 3900 PSI slow rate.

3:39 A. M. ± 51 BPM @ 3800 PSI on 1.5 lb sand

3:41 A. M. 50 BPM @ 3775 PSI

At 3900 PSI slow rate to ± 47 BPM

3:50 A. M. Cut sand. Go to flush.

3:53 A. M. Flush away. Shut down.

ISIP = 1800 PSI

5 min = 1450 PSI

10 min = 1275 PSI

Total sand = 90,000 lbs.

Total fluid = 2,250 bbls.

4:15 A. M. Start in hole with Baker bridge plug.

4:50 A. M. Set plug at 6520'.

5:12 A. M. Pressure test plug to 4000 PSI.

Trip in hole with tubing. Spot 350 gal. 7½% Hcl from 6472' up hole.

9:45 A. M. Perforate Gallup at 5992', 5997', 6012', 6016', 6034', 6071', 6100', 6103', 6184', 6225', 6232', 2 SPF, 22 holes.

10:04 A. M. Break down Upper Gallup perforations

Broke at 2600 PSI

Establish rate 34 BPM @ 2150 PSI

Shut down. ISIP = 200 PSI

10:27 A. M. Perforate Gallup at 6252', 6272', 6301', 6349', 6387', 6393', 6410', 6416', 6423', 6425', 6430', 2 SPF, 22 holes.

10:58 A. M. Perforate Gallup at 6433', 6435', 6438', 6454', 6458', 6460', 6462', 6464', 6466', 6469', 6472', 2 SPF, 22 holes.

Total of 66 holes.

11:17 A. M.	Establish rate.	65 BPM @ 3450 PSI
	Shut down. ISIP = 300 PSI.	
	Start balls. 3 balls/bbl for 33 bbls	
	Increase rate to	48 BPM @ 1800 PSI
	Have a ball off at 4000 PSI.	
	Start in hole with junk basket.	
	Recover 85 balls. Left 15 balls on plug.	
	GALLUP FRAC	
12:31 P. M.	Start pad.	88 BPM @ 3400 PSI
12:36 P. M.	On pad	87 BPM @ 3600 PSI
12:37 P. M.	Shut down. Have line leak.	
	482 bbls away. ISIP = 200	
12:39 P. M.	Leak fixed. Start pumping.	
12:40 P. M.	Start 0.5 lb sand	87 BPM @ 3450 PSI
12:41 P. M.	0.5 lb sand on formation	86 BPM @ 3500 PSI
12:42 P. M.	Start 1.0 lb sand	87 BPM @ 3400 PSI
12:43 P. M.	1.0 lb sand on formation	86 BPM @ 3600 PSI
12:45 P. M.	On 1.0 lb sand	84 BPM @ 3700 PSI
12:50 P. M.		83 BPM @ 3700 PSI
12:54 P. M.	Start 1.5 lb sand	81 BPM @ 3450 PSI
12:55 P. M.	1.5 lb sand on formation	80 BPM @ 3600 PSI
12:58 P. M.	On 1.5 lb sand	78 BPM @ 3700 PSI
1:00 P. M.	At 3900 PSI slow rate to	68 BPM
	On 1.5 lb sand	68 BPM @ 3200 PSI
	Pressure at 3150 PSI. Increase rate to	72 BPM
1:04 P. M.	On 1.5 lb sand	72.5 BPM @ 3500 PSI

1:06 P. M. On 1.5 lb sand 72 BPM @ 3600 PSI

1:07 P. M. At 3800 PSI slow rate to 68 BPM

1:10 P. M. On 1.5 lb sand 68 BPM @ 3500 PSI

1:13 P. M. Cut sand. Go to flush.

1:14 P. M. Flush away. Shut down.

ISIP = 375 PSI

5 min = 300 PSI

10 min = 250 PSI

15 min = 200 PSI

Total sand = 125,000 lbs

Total fluid = 3,215 bbls

2:45 P. M. Open well up. Flow Gallup formation back.

Start in with tubing. Tag sand - 11 jts above bridge plug.

6:00 P. M. Circulated 3 joints of sand off bridge plug when rig pump cratered.

Trip out of hole with tubing.

5/16/84:

1:00 A. M. Repair rig pump. Recover bridge plug set at 6520'. When plug was released, well went on a vacuum.

Mill up bridge plug set at 7400' KB.

Clean out casing to 7588' KB.

Land production tubing with seating nipple at 7393' KB with a 5' perforated sub and a 32' tail joint of tubing below seating nipple.