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 'I' - 950' FEL & 2295' FSL
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.
71-28

10. FIELD OR WILDCAT NAME
South Lindrith, Gallup Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 9, T23N, R4W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7122' 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
OCT 03 1985
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, 9/13/85 through 9/25/85.

RECEIVED
OCT 10 1985
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 October 2, 1985

(This space for Federal or State office use)

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

ACCEPTED FOR RECORD
OCT 1985
FARMINGTON RESOURCE AREA
BY

*See Instructions on Reverse Side

NMOCC

9/13/85:

Ran 182 joints of 4 1/2" 11.6 lb/ft N-80 set at 7330' KB. Guide shoe at 7329'. Float collar at 7286'. D. V. tool at 3206'. Cement baskets at 6519', 4580', and 2165'. Pumped 20 bbls Flo-chek 21. Cemented 1st stage with 300 sks (590 CF) of 65/35 pozmix, 12% gel, 6 1/4 lb/sk Gilsonite. Tailed in with 700 sks (1000 CF) 50/50 pozmix, 2% gel, 6 1/4 lb/sk Gilsonite, 6 lb/sk salt. Circulated 3 hours between stages. Pumped 20 bbls Flochek 21. Cemented 2nd stage with 525 sks (1215 CF) 65/35 pozmix, 12% gel, 6 1/4 lb/sk Gilsonite. Tailed in with 50 sks (59 CF) Class B neat. Circulated 20 bbls cement to surface. Plug down at 1:00 a.m. on 9/14/85.

9/20/85:

Move in completion unit. Rig up.

Pick up 2 3/8" tubing and 3 7/8" rock bit.

Tag cement approximately 150' above D. V. tool.

Drill out cement and D. V. tool at 3206' KB.

Tag cement approximately 300' above float collar.

Drill out approximately 90' of cement. Tag float collar cement.

Displacement plug approximately 206' above float collar.

Shut down for the night.

9/21/85:

Recheck tubing tally. Tubing tally appears to be correct.

Pull tubing out of hole. Restrap rubing.

Tubing tally is correct. Float collar valve must have leaked.

Run back in hole with tubing.

Drill out displacement plug and approximately 206' of cement to float collar at 7286' KB. Circulate hole clean. Shut down for night.

Completion unit sinking in mud.

9/22/85:

Rig down completion unit.

Fill well head area with gravel.

Reset completion unit.

9/23/85:

8:20 a.m. Pressure test casing to 4000 PSI.
Circulate casing clean with 2% Kcl water.
Spot 250 gal 7 1/2% acetic acid from 7225' KB up hole.
Trip out of hole with tubing.

10:50 a.m.	Run in hole with logging tools.	
	Run cement bond log and correlation log	
	From T. D. - 5500'	
	5200' - 4800'	
	3250' - 2750'	
2:31 p.m.	Perforate Dakota 'D' zone at:	
	7171', 7192', 7194', 7196', 7198', 7205', 7207', 7211', 7221', 7223'	
	7225', 4 SPF, 44 holes.	
2:53 p.m.	Break down Dakota 'D' perforations.	
	Broke at 1800 PSI.	
	Establish rate.	41 BPM @ 3400 PSI
	Shut down. ISIP = 700 PSI	
2:58 p.m.	Start balls. 3 balls/bbl for 23 bbls. 70 balls.	
	Increase rate	50 BPM @ 3000 PSI
	Have a ball off at 4200 PSI	
	Surge balls off perforations.	
	Go in hole with junk basket.	
	Recover 70 balls.	
	<u>Dakota 'D' frac:</u>	
3:47 p.m.	Start pad.	58 BPM @ 2900 PSI
3:51 p.m.	One pump goes down.	49 BPM @ 2600 PSI
3:56 p.m.	Start 1/2 lb/gal sand	48 BPM @ 2700 PSI
3:58 p.m.	1/2 lb/gal sand on formation	48 BPM @ 2750 PSI
4:00 p.m.	Start 1 lb/gal sand	48 BPM @ 2800 PSI
4:02 p.m.	1 lb/gal sand on formation	48 BPM @ 2800 PSI
4:12 p.m.	Start 1 1/2 lb/gal sand	48 BPM @ 2700 PSI
4:14 p.m.	1 1/2 lb/gal sand on formation	48 BPM @ 2750 PSI
4:23 p.m.	Another pump goes down.	36 BPM @ 2200 PSI
4:32 p.m.	Another pump goes down.	23 BPM @ 2000 PSI
4:42 p.m.	Cut sand. Go to flush.	23 BPM @ 2000 PSI

4:47 p.m. Flush away. Shut down.

ISIP = 1700 PSI

5 min = 1525 PSI

10 min = 1425 PSI

15 min = 1375 PSI

Total sand = 90,000 lbs

Total water = 2,455 bbls

Go in hole with Howco bridge plug.

5:35 p.m. Set bridge plug at 7130' KB.

5:57 p.m. Pressure test plug to 4000 PSI.

Trip in hole with tubing.

Spot 300 gal 7 1/2% Hcl from 7081' up hole.

Trip out of hole with tubing.

10:15 p.m. Perforate Tocito at:

6742', 6744', 3 SPF, 6 holes.

Perforate Greenhorn at:

6959', 6972', 6974', 6983', 6986', 6988', 6992', 3 SPF, 21 holes.

10:47 p.m. Perforate Dakota 'A' at:

7056', 7058', 7060', 7062', 7064', 7079', 7081', 3 SPF, 21 holes.

11:17 p.m. Break down perforations.

Broke at 1900 PSI.

Establish rate 48 BPM @ 3150 PSI

Shut down. ISIP = 1250 PSI

Start balls. 3 balls/bbl for 25 bbls

Increase rate to 40 BPM @ 2800 PSI

Have ball off at 4000 PSI.

11:27 p.m. Surge balls off perforations.

Go in hole with junk basket.

Recover 73 balls.

9/24/85: Dakota 'A', Greenhorn, Tocito frac:

12:33 a.m.	Start pad	54 BPM @ 3150 PSI
12:42 a.m.	Start 1/2 lb/gal sand	44 BPM @ 2800 PSI
12:45 a.m.	1/2 lb/gal sand on formation	44 BPM @ 2825 PSI
12:46 a.m.	Start 1 lb/gal sand	44 BPM @ 2825 PSI
12:48 a.m.	1 lb/gal sand on formation	54 BPM @ 3200 PSI
12:55 a.m.	Frac line parted. Shut down 987 bbls away	
	ISIP = 1400 PSI	
1:09 a.m.	Start pumping.	49 BPM @ 3200 PSI
1:12 a.m.	Start 1 1/2 lb/gal sand	50 BPM @ 3300 PSI
1:14 a.m.	1 1/2 lb/gal sand on formation	50 BPM @ 3275 PSI
1:21 a.m.	1 1/2 lb/gal sand	49 BPM @ 3450 PSI
1:24 a.m.	1 1/2 lb/gal sand	49 BPM @ 3300 PSI
1:27 a.m.	Cut sand. Go to flush.	49 BPM @ 3450 PSI
1:29 a.m.	Flush away. Shut down.	

ISIP = 1950 PSI

5 min = 1850 PSI

10 min = 1800 PSI
15 min = 1775 PSI
Total sand = 65,000 lbs

Total water = 2,148 bbls

BOP would not close.

Leave well shut in for one hour.

Open well up. Flow back through 2-2" casing valves until flow subsided.

Knock Western's 4" iron off of well head.

Stab wireline's lubricator with Baker bridge plug.

Hook Western up to backside.

3:40 a.m. Displace casing to top Tocito perforation. 105 bbls.

Shut down.

Go in hole with Baker Bridge plug.

4:05 a.m. Get to 1092.5'. Plug stops.

4:08 a.m. Try to move. Plug won't move.

Plug appears to be set.

Try to set plug with truck.

Setting tool would not fire.

Pull out of rope socket and come out of hole.

Change out BOP.

Rig up overshot on tubing.

Run in hole with 35 joints to bridge plug.

7:25 a.m. Release bridge plug.

Pressure below plug pushed tubing out of hole until rams were closed.

9:55 a.m. Out of hole with bridge plug.

Displace casing with 2% Kcl water to top Tocito perforation.

10:10 a.m. Go in hole with a different Baker bridge plug.

10:45 a.m. Set plug at 6230' KB. Pressure test to 4000 PSI.

9/24/85:

11:20 a.m. Perforate Gallup at:

5610', 5713', 5718', 5737', 5968', 5970', 5978', 5987', 5994', 5997', 6003', 2 SPF, 22 holes.

11:50 a.m. 6005', 6010', 6016', 6018', 6021', 6024', 6027', 6032', 6055', 6057', 6059', 2 SPF, 22 holes.

12:20 a.m. 6061', 6063', 6074', 6114', 6118', 6124', 6127', 6130', 6133', 6136' 6139', 2 SPF, 22 holes.

12:45 a.m. 6152', 6160', 6166', 6172', 6174', 6176', 6178', 6180', 2 SPF, 16 holes.

	Total of 82 holes.	
	Trip in hole with tubing.	
	Spot 400 gal 7 1/2% Hcl from 6180' up hole.	
	Break down Gallup perforations:	
3:59 p.m.	Broke at 1200 PSI.	
	Establish rate	60 BPM @ 3200 PSI
	Shut down.	
	ISIP = 300 PSI	
	Start balls - 4 balls/bbl for 31 bbls.	
	Increase rate to	59 BPM @ 2200 PSI
	Have good ball action up to 4000 PSI, but no ball off.	
	Go in hole with junk basket. Recover 90 balls.	
	Leave 35 balls on plug.	
5:05 p.m.	Gallup frac	
	Start pad	86 BPM @ 3200 PSI
5:12 p.m.	Start 1/2 lb/gal sand	86 BPM @ 3200 PSI
5:13 p.m.	1/2 lb/gal sand on formation	86 BPM @ 3200 PSI
5:14 p.m.	Start 1 lb/gal sand	86 BPM @ 3200 PSI
5:15 p.m.	1 lb/gal sand on formation	89 BPM @ 3400 PSI
5:21 p.m.	1 lb/gal sand	87 BPM @ 3550 PSI
5:22 p.m.	1 lb/gal sand	85 BPM @ 3700 PSI
5:23 p.m.	1 lb/gal sand	74 BPM @ 3400 PSI
5:28 p.m.	1 lb/gal sand	71 BPM @ 3600 PSI
5:29 p.m.	Start 1 1/2 lb/gal sand	71 BPM @ 3600 PSI
5:30 p.m.	1 1/2 lb/gal sand on formation	71 BPM @ 3600 PSI
5:32 p.m.	1 1/2 lb/gal sand	72 BPM @ 3500 PSI
5:38 p.m.	1 1/2 lb/gal sand	75 BPM @ 3500 PSI
5:41 p.m.	1 1/2 lb/gal sand	73 BPM @ 3600 PSI

5:43 p.m. Cut sand. Go to flush. 73 BPM @ 3600 PSI.

5:44 p.m. Flush away. Shut down.

ISIP = 800 PSI

5 min = 450 PSI

10 min = 400 PSI

15 min = 300 PSI

Total sand = 125,000 lbs.

Total water = 3,350 bbls.

6:50 p.m. Open well up. Flow Gallup formation back.

Retrieve Baker bridge plug set at 6230' KB.

9/25/85: Mill up bridge plug set at 7130' KB.

Clean out casing to 7276' KB.

Land 230 joints 2 3/8" tubing with seating nipple at 7115.77' KB, and a 4' perforated sub and a 30.44' tail joint below seating nipple. End of tubing at 7150' KB.