

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 ☒ gas ☐  
well 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" 1850' NL & 1850' WL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

SUBSEQUENT REPORT ON

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DEC 20 1982

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

Progress Report

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 attached recompletion report.

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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 B. W. Hilly TITLE President DATE December 16, 1982

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

DEC 3 1982

\*See Instructions on Reverse Side

BY 94

NMOCC

15-3 RECOMPLETION REPORT:

12/6/82:

- 9:30 A. M. Rig up workover rig.
- 10:45 A. M. Start pulling 2 3/8" tubing.
- 2:30 P. M. Start in hole with bit and scraper. Hydro-test tubing in hole to 4000 PSI.
- 8:30 P. M. Rig down. Hydro-test truck couldn't test last 15 stands of tubing due to paraffin buildup in tubing.
- 9:20 P. M. Tag bottom with bit and scraper.
- 9:35 P. M. Come out of hole with bit and scraper.
- 11:25 P. M. Go in hole with packer.

12/7/82:

- 1:00 A. M. Set packer above Dakota perforation @ 7000'.
- 4:30 A. M. Pressure test casing to 1200 PSI @ 2 BPM.  
Pressure dropped to 0 PSI with a rate of 3.5 BPM.
- 4:45 A. M. Pull 3 stands of tubing. Try to pressure test casing again.  
Pumped 23 bbls. H<sub>2</sub>O with 0 pressure. Shut down.
- 5:04 A. M. Pull 10 stands. Pressure test casing again.  
Packer starts leaking. Set more weight down on it.  
Pump on it again. Still have flow out tubing.
- 5:35 A. M. Shut tubing valve. Pump on it again. 3 BPM @ 800 PSI.  
Shut down.  
Pull 10 more stands of tubing.
- 5:54 A. M. Pump on it again. Have flow out tubing. Shut tubing in.  
Keep pumping. 2 BPM @ 700 PSI. Shut down.
- 6:24 A. M. Pull 20 more stands of tubing. Set packer. Try to pressure test casing. Tubing starts flowing. Shut tubing valve.  
Pump @ 2 BPM @ 800 PSI. Leaking by packer. Pull packer out of hole.  
26 stands from bottom found a split joint of tubing.
- 8:25 A. M. Pressure test tubing with 56 stands in hole. 2000 PSI.
- 9:18 A. M. Load tubing with 16 bbls. H<sub>2</sub>O.  
Load back side with 4 bbls. H<sub>2</sub>O. Pressure test casing to 3500 PSI. Bleed off to 500 PSI in 2 min.  
Held 500 PSI for 6 min. without any leakoff.  
Test to 3500 PSI again with a rate of 2 BPM.  
Bleed off to 500 PSI in 1 min.

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OIL CON. DIV.  
DIST. 3

10:26 A. M. Pull 2 stands. Pressure test again. 2 BPM - 0 pressure.

10:45 A. M. Reset packer. Pump on it again. 2 BPM - 0 PSI.  
No returns up tubing.

11:07 A. M. With 88 stands in hole, reset packer. Try to pressure test.  
Pump 20 bbls. H<sub>2</sub>O. 3.2 BPM @ 1300 PSI.  
4.5 BPM @ 1800 PSI.  
Shut down. Pressure dropped to 800 PSI in 10 sec.  
Held 800 PSI for 2 min. No leak off.

11:35 A. M. Reset packer with 72 stands in hole. Try to pressure test.  
Pressure tested to 3500 PSI. Held with no leak off.

11:56 A. M. Reset packer with 80 stands in hole. Pressure test casing.  
While pumping, packer unseated @ 800 PSI.

12:05 P. M. Come out of hole with packer.

1:25 P. M. Out of hole with tubing and packer.  
Go in hole with logging tools. Run gas spectrum and cement  
bond log from 7300' to 6000'.

4:29 P. M. Out of hole with logging tools. CBL showed good cement from  
7300' to 5550'.

4:45 P. M. Go in hole with EZ drill bridge plug.

5:04 P. M. Set plug @ 7000'.

5:27 P. M. Test casing. Pumped 20 bbls. 4 BPM @ 1300 PSI.  
Shut down. Go in hole with RTTS packer.

6:52 P. M. Close tubing testing valve in top of RTTS.  
Pressure test tubing to 3500 PSI.

6:59 P. M. 79 stands of tubing in hole. Set packer @ 4935'. Try to  
pressure up on casing. Pumped into hole in casing at  
2.5 BPM - 1100 PSI.  
Test casing below packer. Casing held.

7:18 P. M. Pull 4 stands of tubing. Set packer. Test casing to  
3500 PSI. It held.  
Test below packer. Would not hold pressure.  
Hole is between 75 and 79 stands of tubing.

7:43 P. M. Pull 5 more stands of tubing. Set packer @ 4373'.  
Pressure up to 700 PSI on back side of tubing.

7:51 P. M. Establish rate @ 2 BPM 1300 PSI with 5 bbls. H<sub>2</sub>O.

7:52 P. M. Start cement. 2½ BPM 1325 PSI.

7:54 P. M. Increase rate to 3.0 BPM @ 1500 PSI.

7:58 P. M. 3.5 BPM @ 1350 PSI

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OIL CON. DIV.  
DIST. 3

8:01 P. M. 26 bbls. slurry mixed. Cement on formation, (4952').  
1500 PSI, 3½ BPM.

8:05 P. M. 1600 PSI, 3½ BPM.

8:09 P. M. Start displacement. 2100 PSI, 3 BPM.  
Mixed total of 50 bbls. of slurry  
With 15 bbls. displacement in slow rate to ½ BPM, 900 PSI.

8:12 P. M. Shut down. Wait 5 min. Pump @ ½ BPM, 1300 PSI. 20 bbl. disp.  
away.

8:14 P. M. Shut down for 10 min. Then pump ½ BPM, 2100 PSI.  
21 bbl. disp. away.

8:49 P. M. Release packer; reverse circulate tubing. Come out of hole  
with tubing and packer.  
W. O. C. 12 hours.

12/8/82:

9:00 A. M. Tag cement with bit @ 71 stands. (4435').  
Start drilling.

12:48 P. M. Drilled out cement in casing @ 4950'.

1:15 P. M. Pressure tested casing to 1500 PSI. Held pressure.

1:30 P. M. Come out of hole with tubing.  
Go in hole with tubing and mill.

4:30 P. M. Tag EZ drill bridge plug @ 7000'.

7:00 P. M. Milled plug out, and pushed to bottom - 7314'.  
Circulate hole for 1½ hours.

8:30 P. M. Start out of hole with tubing and mill.

9:48 P. M. Out of hole with tubing.  
Go in hole with perforating guns to perforate Dakota "B",  
Dakota "A", and Greenhorn formations.

10:19 P. M. Perforate Dakota "B" zone @ 7150, 7152, 7154, 7156', 7158,  
7210', 7212', 7214', 7216', 7218', 7220' - 4 SPF. 44 holes.

10:51 P. M. Perforate Dakota "A" zone @ 7106', 7108', 7110', 7112', 7114',  
7119', 7123', 7125', 7127', 7129' - 4 SPF - 40 holes.

11:30 P. M. Perforate Greenhorn zone @ 7055', 7057', 7061', 7063', 7066',  
7068', 7070', 7072', 7074' - 4 SPF - 36 holes.

12/9/82:

12:00 A. M. Go in hole with 2 7/8" tubing and RTTS packer.

4:45 A. M. On bottom with tubing and packer - 6515'.

6:15 A. M. Western pressure tests lines.

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**OIL CON. DIV.**  
**DIST. 3**

6:36 A. M. Try to circulate hole. Pressure went to 1000 PSI with no rate. Must have a plug in the tubing.

6:45 A. M. Try to pump on it again. Pressure started climbing. Took it to 3500 PSI. Shut down.

7:15 A. M. Pull 10 stands. Try to pump on it again. Pressure went up to 3500 PSI. Still have a plug in the tubing.

8:00 A. M. Run in tubing with sand line and sinker bar. Tag plug in tubing @ 3000'.

8:25 A. M. Pull tubing to find plug. Found a joint of tubing with a rabbit stuck in it.

8:56 A. M. Go back in hole with tubing.

9:52 A. M. Tubing and packer @ 6500'. Circulate hole @ 2 BPM with 89 bbls

10:40 A. M. Set packer @ 6500'.

10:55 A. M. Pressure up to 1000 PSI on back side.

DAKOTA FRAC

11:09 A. M. Break down. Broke @ 2000 PSI. Establish rate - 16 BPM @ 3700 PSI. ISIP = 1750 PSI.

11:14 A. M. Start acid. Drop 8 balls/bbl in 9 bbls. of acid. 1800 PSI @ 3.0 BPM  
Drop 8 balls/bbl in 9 bbls.  
Run 10 bbl spacer  
Drop 6 balls/bbl in 58 bbls. 3000 PSI @ 9 BPM.

11:23 A. M. Balls on formation. 9 BPM @ 2670 PSI.  
Ball action 10 BPM @ 2600 PSI.

11:32 A. M. Surge balls off. Packer lets loose. Casing pressure goes to 1400 PSI. Bleed casing pressure off. Casing @ 0. Tubing @ 850 PSI.

12:09 P. M. Pressure up to 1000 PSI on back side.

12:57 P. M. Start pad. 3500 PSI 14.5 BPM

1:07 P. M. 3400 PSI 14.0 BPM

1:32 P. M. 3500 PSI 14.0 BPM

1:39 P. M. 595 bbls. pad away.  
Start 1/2 lb/gal sand 3450 PSI 14.0 BPM

1:42 P. M. 1/2 lb/gal sand  
on formation 3400 PSI 14.0 BPM  
Checked back side pressure. Showed 1800 PSI.  
Bleed pressure back to 1500. Climbs to 1900 PSI.  
Cut sand. 2500 lbs. sand in formation.

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OIL FIELD DIV.  
JAN 10 1968

1:47 P. M. Go to flush. Slow rate to 8 BPM, 2500 PSI.  
Casing pressure stabilizer @ 1800 PSI.

1:56 P. M. Flush away. 54 bbls. Shut down.  
ISIP = 1750 PSI.

2:50 P. M. With 1000 PSI on tubing and casing, bleed tubing  
pressure off.

3:10 P. M. Unseat packer. Come out of hole.

4:50 P. M. Come out of hole with tubing and packer.  
Packer appeared to be in new condition.

5:19 P. M. Go in hole with different packer, tightening every joint  
of tubing as we go in the hole.

6:42 P. M. @ 6500' with tubing and packer.  
Set packer.

6:51 P. M. Pressure up to 1000 PSI on back side.

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**OIL CON. DIV.**  
**DIST. 3**

DAKOTA RE-FRAC

7:08 P. M.	Start pad	14 BPM	3500 PSI
		16 BPM	3450 PSI
7:25 P. M.	Start 1/2 lb/gal sand	15 BPM	3500 PSI
7:28 P. M.	1/2 lb/gal sand on formation	15 BPM	3400 PSI
7:37 P. M.	Start 1 lb/gal sand	15 BPM	3400 PSI
7:41 P. M.	1 lb/gal sand on formation	15 BPM	3250 PSI
		15 BPM	3300 PSI
7:46 P. M.		15 BPM	3300 PSI
7:52 P. M.		15 BPM	3350 PSI
7:55 P. M.		15 BPM	3400 PSI
8:04 P. M.		15 BPM	3500 PSI
8:19 P. M.		15 BPM	3500 PSI
8:28 P. M.		15 BPM	3400 PSI
8:45 P. M.		15 BPM	3400 PSI
9:02 P. M.		15 BPM	3400 PSI
9:14 P. M.		15 BPM	3600 PSI
9:16 P. M.		15 BPM	3500 PSI

9:18 P. M.	15 BPM	3600 PSI
9:23 P. M.	15 BPM	3700 PSI
9:30 P. M.	14 BPM	3700 PSI

9:35 P. M. Blender went down  
ISIP = 1950 PSI  
Try to flush without blender on line.  
Got 80,000 lbs. sand in pipe and formation.

9:51 P. M. Blender on line. 8 BPM, 3300 PSI on flush. Shut down.  
Flush away.

12/10/82:

12:30 A. M. Tubing pressure down to 900 PSI.  
Open tubing up. Making sand.

2:15 A. M. Well still flowing gas-cut water.  
Still making sand.

4:00 A. M. Rig broke drive chain while pulling to release packer.

11:00 A. M. Rig is fixed.  
Worked packer and tubing string between string wt. and  
40,000 lbs total. Came free from sand pack after 15  
min. of working it.

1:20 P. M. Came out of hole with tubing and packer.  
Rig up Western to displace capacity of casing.

1:29 P. M. Start pumping. 3 BPM 1000 PSI

2:56 P. M. Shut down. Casing displaced.

3:11 P. M. Go in hole with EZ drill B. P.

3:44 P. M. Set B. P. @ 7030'.

4:00 P. M. Pressure test plug to 1500 PSI.  
Held pressure for 2½ min. without any leak off.  
Bleed pressure off.

4:22 P. M. Perforate Tocito formation @ 6876', 6874', 6872', 6870',  
6868', 6866', 6864', 6854', 6852', 6849' 6846' - 4 SPF.

4:52 P. M. Perforate Tocito formation @ 6827', 6825', 6821', 6805',  
6803', 6801', 6783', 6776', 6773', 6767', 6759' - 4 SPF  
Total 88 holes

TOCITO FRAC:

5:25 P. M. Go in hole with RTTS packer.

6:57 P. M. Set packer @ 6250'.

7:07 P. M. Pressure up on back side to 1000 PSI.

7:15 P. M. Break down. Broke @ 2300 PSI.

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**OIL CON. DIV.  
DIST. 3**

Establish rate 3400 PSI @ 9 BPM  
ISIP = 1700 PSI

7:22 P. M.	Start acid with 8 balls/bbl	8 BPM	3000 PSI
	Start water with 8 balls/bbl	8 BPM	3000 PSI
	Start 10 bbl spacer		
	Water with 4 balls/bbl	8 BPM	2700 PSI
7:30 P. M.	Balls on formation	10 BPM	2600 PSI
7:33 P. M.	Second set of balls on formation	10 BPM	3000 PSI
	Balled off @ 3400 PSI		
7:37 P. M.	Surge balls off. Let balls fall to bottom of hole.		
	Wait 20 minutes.		

TOCITO FRAC

7:58 P. M.	Start pad.	13 BPM @ 3450 PSI
8:01 P. M.		14.5 BPM @ 3450 PSI
8:06 P. M.		13.5 BPM @ 3400 PSI
8:07 P. M.		14.0 BPM @ 3500 PSI
8:17 P. M.		13.0 BPM @ 3450 PSI
8:23 P. M.	Start 1/2 lb/gal sand	13.0 BPM @ 3350 PSI
8:26 P. M.	1/2 lb/gal sand on formation	13.0 BPM @ 3300 PSI
8:33 P. M.		13.0 BPM @ 3400 PSI
8:39 P. M.		12.0 BPM @ 3450 PSI
8:41 P. M.		12.5 BPM @ 3600 PSI
8:44 P. M.	on 1/2 lb/gal sand	12.0 BPM @ 3650 PSI
8:45 P. M.		12.5 BPM @ 3700 PSI
8:47 P. M.	Reach 3750 - Slow rate to	10.0 BPM @ 3300 PSI
8:48 P. M.		10.0 BPM @ 3400 PSI
8:49 P. M.		10.0 BPM @ 3450 PSI
8:50 P. M.		10.0 BPM @ 3500 PSI
8:52 P. M.	on 1/2 lb/gal sand	10.0 BPM @ 3550 PSI
8:56 P. M.		10.0 BPM @ 3600 PSI
		3650 PSI
8:57 P. M.	Slow rate to	8.0 BPM @ 3750 PSI (pressure)



8.0 BPM @ 3550 PSI

8:58 P. M. 8.0 BPM @ 3600 PSI

8:59 P. M. Have break. 8 BPM - Pressure broke to 3450 PSI

9:01 P. M. 8.0 BPM @ 3450 PSI

9:04 P. M. 8.0 BPM @ 3450 PSI

9:07 P. M. 8.0 BPM @ 3550 PSI

9:13 P. M. 8.0 BPM @ 3600 PSI  
Slow rate 6 BPM - Pressure went to 3800 PSI

9:15 P. M. Cut sand @ 852 bbls. slurry

9:16 P. M. 5.0 BPM @ 3500 PSI

9:17 P. M. On flush 5.0 BPM @ 3550 PSI  
Shut down  
29 bbls. flush away

9:29 P. M. ISIP = 2100 PSI - 15 min. shut in 2000 PSI  
Total sand: 11,000 lbs.

11:00 P. M. Flow well back through 1/2 inch choke.

12/11/82:

4:30 A. M. Remove 1/2" choke. Have show of oil and gas to surface.  
Unseat RTTS packer.

6:24 A. M. Circulate hole down tubing with 83 bbls. Fr H<sub>2</sub>O  
3.0 BPM @ 650 PSI<sup>2</sup>

7:00 A. M. Come out of hole with tubing and packer.

8:14 A. M. Out of hole with tubing and packer.  
Rig up Bluejet to set retrievable bridge plug.

8:35 A. M. Go in hole with retrievable bridge plug.

9:11 A. M. Set plug @ 6300'.

9:28 A. M. Test plug to 1500 PSI. Held pressure for 5 minutes  
with no bleed off.

9:38 A. M. Go in hole with perforating gun.  
Hit something in hole @ 540'.  
Come out of hole with gun.

9:45 A. M. Go in hole with junk basket. Run to 6250'.

10:13 A. M. Come out of hole with junk basket. Picked up 8 frac  
balls that Western must have pumped in casing while pressure  
testing bridge plug.

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OIL CON. DIV.  
DIST. 2

10:20 A. M. Go in hole with perforating gun.

10:29 A. M. Perforate Gallup formation @ 6215', 6213', 6208', 6206',  
6204', 6200', 6193', 6191', 6189', 6187', 6175'.  
4 SPF - 44 holes

10:44 A. M. Go in hole with perforating gun.

10:56 A. M. Perforate Gallup formation @ 6173', 6171', 6169', 6167', 6165',  
6163', 6085', 6081', 6073', 6054', 6052' - 4 SPF - 44 holes

11:25 A. M. Go in hole with RTTS packer and tubing

12:35 P. M. Set packer @ 5700'.

12:50 P. M. Pressure up to 1000 PSI on casing.

GALLUP FRAC:

12:58 P. M. Break down. Broke @ 1300 PSI and 3200 PSI  
Establish rate 18 BPM @ 3200 PSI  
ISIP = 300 PSI

1:01 P. M. Start acid (7½% Hcl) - 6 bbls. with 6 balls/bbl  
Run 5 bbls. H<sub>2</sub>O with 6 balls/bbl - 6 BPM @ 1000 PSI  
Run 10 bbl H<sub>2</sub>O spacer 6 BPM @ 1000 PSI  
Run 5 bbl H<sub>2</sub>O with 6 balls/bbl 12 BPM @ 1300 PSI  
Total: 96 balls  
Increase rate to 10 BPM @ 2500 PSI  
Have ball action 9 BPM @ 2600 PSI  
Balls hit 2 BPM @ 3700 PSI

1:15 P. M. Surge balls off perforations.  
Wait 20 minutes for balls to fall.

1:38 P. M. Start pad 22 BPM @ 3400 PSI  
24 BPM @ 2900 PSI  
24.5 BPM @ 3200 PSI

1:47 P. M. 25 BPM @ 3200 PSI

1:51 P. M. 310 bbls pad away  
Start 1/2 lb/gal sand 25 BPM @ 3200 PSI

1:53 P. M. 1/2 lb/gal sand on formation 25 BPM @ 3200 PSI  
24 BPM @ 3400 PSI  
24.5 BPM @ 3300 PSI

2:01 P. M. Start 1 lb/gal sand 25 BPM @ 3400 PSI

2:03 P. M. 1 lb/gal sand on formation 25 BPM @ 3300 PSI

2:07 P. M. 25 BPM @ 3400 PSI  
24 BPM @ 3500 PSI

2:16 P. M. 24 BPM @ 3600 PSI

2:20 P. M. 23 BPM @ 3800 PSI

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**OIL CON. DIV.  
DIST. 3**

2:21 P. M.	On 1 lb/gal sand	24 BPM @ 3700 PSI
2:25 P. M.		23 BPM @ 3800 PSI
2:28 P. M.	Pump starts leaking-Shut it down. With 1 pump on line, rate falls to	17 BPM @ 2400 PSI
2:42 P. M.		16 BPM @ 2600 PSI 13 BPM @ 2600 PSI
3:00 P. M.	On 1 lb/gal sand	13 BPM @ 2600 PSI
3:06 P. M.		13 BPM @ 3000 PSI
3:21 P. M.	Start 1 1/2 lb/gal sand	13 BPM @ 2700 PSI
3:25 P. M.	1 1/2 lb/gal sand on formation	13 BPM @ 2600 PSI
3:30 P. M.	Pressure went to 4500 PSI. Shut down. ISIP = 200 PSI 10 min shut in - 100 PSI 65,000 lbs sand in 2021 bbls. slurry pumped Shut well in for 1.5 hours. Tubing pressure falls to 50 PSI.	

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OIL CON. DIV.  
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5:15 P. M. Flow well back. Have show of oil and gas during flow back.

8:15 P. M. Flow slows down enough to pull tubing and packer.

9:45 P. M. Go in hole with retrieving head and tubing to retrieve bridge plug @ 6300'. Tag sand @ 6176'. Start to circulate sand out of casing. Circulate down to 6180'. Gallup formation starts flowing H<sub>2</sub>O and sand. Sand covers retrieving head.

12/12/82:

Tubing is stuck in hole.  
Cut off 150' of tubing.  
Go in hole with wash-over pipe.  
Wash over tubing down to retrieving head. Come out of hole with washover pipe.

12/13/82:

Out of hole with washover pipe. Go in hole with overshot to latch on tubing. Get ahold of tubing. Move it 5-6' up hole. Overshot grip lets go.

12/14/82:

Come out of hole with 24" overshot. Go in hole with 36" overshot.  
Get back on tubing with 36" overshot. Jar stuck tubing 50' up hole. Tubing becomes unstuck. Come out of hole with tubing.

12/15/82:

Retrieve bridge plug @ 6300'. Mill out EZ Drill plug @ 7030'. Clean out to T. D. - 7314'. Land tubing @ 7243'.