

APPENDIX 7
INSPECTORS' DAILY LOG, MARLAND WELL RE-ENTRY
September, 1980, to January, 1981

- 9/29/80 Bailey Construction moved large Poclain backhoe up to site to prepare retention pond and to excavate around Marland and Scott wells.
- 9/30/80 No work done on sites.
- 10/1/80 Bailey Construction spent 1½ hours digging out old drain pipe through swimming pool dam in preparation for rebuilding as a retention pond; ½ hour spent excavating around Marland well in preparation for well head construction.
- 10/2/80 Bailey Construction spent 2 hours excavating around Scott well. Gary Staley, Colorado Well Service, arrived on site @ 4:00 pm with steel casing to weld onto Marland well for wellhead.
- 10/3/80 Colorado Well Service welder cut off top 6 feet of old Marland well casing.
- 10/4/80 No work done on sites.
- 10/5/80 No work done on sites.
- 10/6/80-
10/12/80 Inspector not on site. All site preparations completed during this interval. Wellheads at both Scott and Marland wells completed by Colorado Well Service. Bailey construction built pads and reserve pits at each well, completed rebuilding of retention pond dam and overflow drain and graded access road. Deadmen anchors set for securing drill rigs at both Marland and Scott wells. Gary Staley (CWS) and Bill Bailey (Bailey Const.) tried to pull dry hole marker from Scott well with backhoe; unable to move it.
- 10/13/80
1200-1500 Colorado Well Service roading rig #15 to Scott well site.
1500-1700 Spot rig on site and begin rigging up and unloading other equipment as it arrives.
- 10/14/80
-12/8/80 No work on well.
- 12/9/80
0800-1300 Colorado Well Service rig #30 arrives on site. Crew begins rigging up.



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12/10/80

0800-1600 Crew continuing to spot equipment and rigging up rig #30.

12/11/80

0800-1600 Crew continuing to spot equipment and service and rig up #30. Some equipment in use on rig #15 on the Scott well will be skidded up and used on the Marland well. Final rig up at the Marland well requires that rig #15 be pulled off the dome.

12/12/80

0800-1600 Crew continuing to spot equipment and rig up. Waiting on rig #15 to finish at Scott well. Some equipment from Scott well skidded up to Marland well.

12/13/80

0930-1300 Rig down CWS rig #15, clean up site. Strip off wellhead equipment. CWS rig #30 complete rigging up. Flat tank, frac tank, drill pipe and other miscellaneous equipment skidded up to Marland well site.

1300-1700 Road rig #15 to Grand Junction. Scott well site clear except for minor clean up.

1600-2230 CWS rig #30 complete rig up on Marland well, nipple up wellhead.

2230-2400 Start in hole, make up collars.

12/14/80

0000-0300 Run in hole with 7-7/8" tricone rock bit and 4-3/4" drill collars. Make up drilling head, rig up power swivel. Tagged obstruction @ 110 feet.

0300-0400 Try to establish reverse circulation, frozen pump lines cause much difficulty. Well took 100 bbls. water when Kelley hose (return line) froze. No observation well response.

0400-0600 Fought circulation problems, got minimum return @ surface even when pumping down drill pipe.

0600-0700 Lost circulation entirely.

0700-0730 Contacted American Mud Company for priority delivery of lost circulation material (LCM).

0730-1200 Wait on LCM, SWL measured through drill pipe, greater than 95', probe bottomed out @ bit.

1200-1700 Mix LCM and condition hole, 15 bags LCM circulated into hole, getting good returns 1400-1700.

1700-1920 Pumped 60 sacks 12 percent cal seal, 3 percent CaCl type H cement with 15 lbs. gilsonite per sack through drill pipe. Pulled drill pipe when cement reached surface. Hooked up to well head and pumped additional 40 sacks, same mix, down well. Displaced lines and upper 40 feet of casing with water. Shut down to watch water level. Water

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level holding steady, Halliburton released.
1920-2400 Wait on cement to set (WOC).

12/15/80

0000-0300 WOC

0300-0400 Run in hole with bit, rig up wellhead to drill.

0400-0900 Drilled cement to 105 feet, broke through cement washed out LCM to 110 feet then hit plug again.

0900-1200 Drilled on plug, got wood and minimal shale cuttings back @ 125 feet plug broke loose. Circulation lost, regained with 22 bags LCM, still losing water.

1200-1630 Push and drill plug to 140 feet, fighting lost circulation. Minimal cutting returns of dark wood, minimal shale and black mineral scale from inside casing. Casing apparently severely corroded but otherwise free of obstructions.

1630-1900 Ran out of water @ 1630. Pulled out of hole with drill pipe and bit and run back in hole with bit and 4 collars. 150 sacks bentonite, 15 sacks lime ordered from American Mud. Power swivel running very poorly, new one coming from Dotco.

1900-2400 Sent crew home @ 1930. Water trucks filling frac tank.

12/16/80

0000-0700 Shutdown wait for new power swivel.

0700-0800 American Mud delivered bentonite gel and lime.

0800-1200 Crew mixed flat tank of gel and lime and racked up power swivel and pulled out of way. Set up forced air heater.

1200-1330 Wait on power swivel, keep mud tank mixed.

1330-1415 Power swivel arrives site 1330 (Dotco, Vernal, Marty Martinez, Operator), hook up and begin circulation @ 1415.

1415-1500 Kelley hose clogged with LCM.

1500-2000 Drilling and pushing plug, good circulation with gel and LCM, but still losing water. Lost circulation @ 175 feet @ 2000. Stopped pumping to mix mud and reestablish circulation. Well began to flow back. Flow approximately 250 gpm (arc method) Temperature 32°C, Salinity 12.9 percent, E.C. 21,208 @ 25°C. Static pressure 20 psi.

2000-2100 Continue to push plug, flowing water only circulation fluid. At 251 feet, temperature 34°C, Salinity 13 percent, E.C. 21,800 @ 25°C. Both tubing and casing lines open. Large amount of scale in returns.

2100-2400 Continue pushing obstruction, very loose, bit cleaning scale off inside casing, flowing water bringing cuttings out, no wood, scale only.

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Tubing temporarily plugged @ 2230, unplugged by surge pumping down tubing and casing. Circulation reestablished. Sample @ 343' Temperature 34°C, Salinity 12 percent, E.C. 21,350 @ 25°C. Observation wells OW-2 and OW-3 fluctuating greatly when pumping into well without getting any returns.

12/17/80

- 0000-0030 Pushed plug additional 30 feet. Allowing cuttings to be cleared from hole. At 0030 lost flow back, bit and/or tubing plugged.
- 0030-0400 Tried to pump down casing to free obstruction. Pump intake clogged with LCM. Drained LCM AND congealed mud from flat tank to clear obstruction in intake. Reestablished flow up tubing only if casing side closed, flow rate dropping.
- 0400-0430 Let well flow to clear cuttings. Sample @ 374 feet @ 0430. Temperature 34°C, salinity 13 percent, E.C. 22,300 @ 25°C.
- 0430-0530 Pushed plug down additional 20 feet. Lost circulation, unable to reestablish with pump, losing all fluid out holes in casing or past obstruction. Observation wells react immediately to pumping into well.
- 0530-0700 Tried to unplug tubing by surging drill pipe up and down. Unable to unplug.
- 0700-1200 Continued surging drill string while working down hole. No circulation. Still pushing obstruction with little resistance. Plug bottomed out @ 610 feet.
- 1200-1400 Worked drill string and surged with pump. Circulation up tubing regained.
- 1400-1600 Allowed well to flow up tubing. Coarse black stained sand and scale in returns.
- 1600-1700 Pulled drill string out of hole. Very tight, almost stuck until 90 feet (3 joints) of pipe pulled.
- 1700-1730 Run in hole with tubing and notched collar only. Tagged fill in hole @ 494', 116 feet of hole filled with sand?. Unable to get circulation up tubing.
- 1730-1800 Pulled tubing string out of hole.
- 1800-1930 Closed in well and plumbed to allow flow into pit, flow less than 50 gpm now. Shutdown rig for night.
- 1930-2400 Drained pump, rigged for mud drilling. Halliburton and loggers contacted for very earliest logging and cementing.

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12/18/80

0000-0300 Finish draining and cleaning mud tank.
0300-0500 Move bags of bentonite and lime out of way, continue to get set for mud drilling.
0500-0700 Wait on GO International and Halliburton.
0700-0800 GO International on site, rig up GO.
0800-1000 GO logs well, TD now 326, additional 160 feet of hole lost from 1730, 12/17/80.
1000-1500 Wait on Halliburton. Dug drainage ditch and rigged mud equipment.
1500-1545 Rig Halliburton, run in hole with tubing.
1545-1645 Pump 100 sacks 12 percent cal seal, 3 percent CaCl type H cement with 15 lbs/sack gilsonite down tubing. Pull tubing when casing full then hook up to wellhead and pump additional 100 sacks down casing.
1645-1730 Displace cement down to 40 feet and hold.
1730-1900 Check cement, tagged @ 40 feet Halliburton released.
1900-2200 Wait on cement, broke off bit and collars to unplug.
2200-2400 Unplugged bit and collars and remade drill string.

12/19/80

0000-0600 Shutdown, WOC.
0600-1200 Drilled on cement to 90 feet.
1200-1330 Repaired leaking swivel head.
1330-2200 Drilled cement without incident to 380 feet, circulated hole. Out of cement @ 320 feet, sand and shale 320 to 380 feet.
2200-2320 Drilling on steel @ 380 feet with very little progress.
2320-2400 Pulled out of hole with drill string, made up impression block.

12/20/80

0000-0130 Picked up impression block and run in hole. Impression block would not fit in hole. Tri cone rock bit not enlarging hole much over 7-7/8" bit diameter.
0130-0300 Made up and picked up 8½" flat bottom mill.
0300-0600 Run in hole with mill. Cement. Losing circulation, out of water @ 0600. Cone mill ordered.
0600-0800 Cleaned flat tank, wait on water.
0800-1200 Mix mud and wait on water. Water level in well @ 120 feet. Racked swivel out of way.
1200-1300 Pulled drill string out of hole.
1300-1500 Ran in hole with open ended tubing string and pumped gel and LCM. Let LCM seal then pumped more gel-LCM mix. 100 bbls. pumped into well.
1500-1700 Pulled out tubing string, made up 8½" cone mill bit string and ran back in hole.

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1700-2300 Milled cement to 240 feet.
2300-2400 Stripping head not holding pressure, tried to repair, had to use BOP's to maintain circulation.

12/21/80

0000-0300 Milled on cement without problem to 380 feet.
0300-0400 Milled on steel from 380 to 400 feet. Lost drilling mud by overflow and leaky well head.
0400-0600 Wait on water.
0600-0700 Mixed additional mud.
0700-1130 Continued milling from 400 feet. Sand and shale in bore hole from 400 plug @ 610 feet. Halliburton called to cement upper 600 feet of hole.
1130-1330 Milled and pushed plug to 640 feet. Started losing mud. Held bit @ 640 feet and circulated hole clean in preparation for cementing.
1330-1830 Tried to pull bit, found very tight. Worked 2 hours to pull 120 feet (4 joints). Stem stuck tight continued circulating and working stem until 1730. Cannot move stem up or down. Halliburton on site @ 1730. Sent home @ 1830.
1830-1930 Contacted wireline services for "back off" and free point tool service. Earliest available service @ 1200, 12/22/80. GO International.
1930-2200 Continue working stuck stem, no progress.
2200-2300 Well beginning to back flow about 1 gpm. Pumps drained up rig shutdown @ 2300.
2300-2400 Rig shutdown, wait on wireline service.

12/22/80

0000-1200 Standby, wait on wireline service. Water flow from well @ 1030, 50 to 60 gpm measured with arc and bucket method. Temperature 37°C. Ran circuit of observation wells and spring/seep stations.
1200-1600 GO International on site @ 1200. Found "free point" above 435 feet. Tool joint @ 406 feet. Broke stem @ 406 feet after 2nd try. Bottom 3 feet of last joint also split. Left fish in hole of 90 feet of drill pipe and bit string of 8½" cone mill and subs from 520 to 406. Call Halliburton.
1600-1700 Run in and out of hole with impression block and tag drill pipe @ 406 feet, very jagged.
1700-2030 Wait on Halliburton.
2030-2400 Halliburton on site @ 2030, pumped 100 sacks 12 percent cal seal, 3 percent CaCl type H cement with 15 lbs. gilsonite per sack down drill pipe @ 400 feet. Cement from 400 to 200 feet. Pulled drill pipe out of well. Displaced and held, no pressure but not on vacuum. Halliburton released.

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12/23/80

0000-0400 Wait on cement. At 0300 CWS pusher noticed that we did not have the right sub to continue drilling despite Dotco tool hand assurance that we did. Dotco called and asked to hotline one out.
0400-0800 Wait on Dotco, 0800 Dotco called, no sub. Would have to build one. Crew tagged cement @ 198 feet. Sent crew home, rig shutdown @ 0800.
0800-1200 Closed down site for Christmas and to wait on Dotco. Water level in well @ 108 feet. Dotco called and told to pull tool hand off job for unsatisfactory performance.

12/23/80

1200-2400 Shutdown for Christmas.

12/24/80

1200-2400 Shutdown for Christmas.

12/25/80

1200-2400 Shutdown for Christmas.

12/26/80

0000-1100 Shutdown for Christmas.
1100-1630 Engineer travel from Denver to Meeker.
1630-2400 Checked site, changed recorder charts on observations wells. Equipment delivered to site but no crew.

12/27/80

0000-0200 Crew on site warming up rig and rerigging circulation equipment. Water level in well @ 120 feet.
0200-0300 Assembled drill string, and ran in hole to 180', found to be lacking correct sub for new power swivel. Called Dotco sub to come out of Vernal.
0300-1030 Wait on Dotco.
1030-1200 Hook up swivel and start circulation.
1200-1500 Drilled on cement with 8½" short tooth mill. Began losing water but maintained circulation. Halliburton called @ 1530. Milled to 270 feet. Shale and sand coming in on top of bit from above 270 feet.
1500-1800 Pulled drill string out of hole and ran back in hole with tubing to 270 feet. Wait on Halliburton.
1800-1900 Wait on Halliburton.
1900-2130 Halliburton arrived @ 1900. At 1945 began pumping 12 percent cal seal and 3 percent CaCl cement with 15 lbs/sack gilsonite through tubing. Filled hole with 28 bbls. Pulled tubing. Hooked up to wellhead and pumped additional 30 bbls. cement @ 200 psi. Displaced with 3½ bbls. water and held. Water level in well holding @ 0 feet. Halliburton released.

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2130-2400 Wait on cement.

12/28/80

0000-0330 Wait on cement. At 0330 cement found to be too soft to drill.
0330-0530 Wait on cement.
0530-0630 Run in hole, tag cement @ 36 feet. Drilled 30 feet when swivel broke down. Called for repairs.
0630-1000 Wait on swivel repair. Parts arrived via plane @ 0900, repairs completed @ 1000.
1000-1200 Milled on cement, made 35 feet.
1200-1500 Milled on cement, made 60 feet.
1500-1730 Pulled bit out of hole, made up collars and went back into hole.
1730-2200 Milled on cement, down to 250 feet @ 2200. Hydraulic line coupling of power swivel broke @ 1800, repaired in town, resumed drilling @ 2000.
2200-2400 Stripping head replaced, no drilling.

12/29/80

0000-0300 Repair power swivel again.
0300-0400 Mill on cement. Broke out of cement @ 295 feet. Begin losing circulation.
0400-0730 Fight lost circulation, emptied flat tank into well (150 bbls).
0730-0900 Refilled flat tank and pull out of hole with bit run in hole with open ended tubing to 289 feet. Called Halliburton.
0900-1330 Wait on Halliburton, Halliburton on site @ 1330.
1330-1530 Rig up Halliburton, pump 24 sacks of 12 percent cal seal, 3 percent CaCl, 15 lbs/sack gilsonite type H cement through tubing. Calculated equivalent of 112-foot plug, pull tubing out of hole. Displace downward about 40 feet. Water level holding Halliburton released until 1830.
1530-1830 Wait on cement.
1830-1930 Run in hole with bit string to drill, cement still to soft.
1930-2200 Wait on cement.
2200-2300 Milled 30 feet on cement with 8½" short tooth mill. Losing circulation severly. Halliburton called back out.
2300-2400 Lost circulation, pulled bit string out of hole.

12/30/80

0000-0100 Run in hole with 210 feet of open ended tubing.
0100-0200 Pump 24 sacks of 12 percent cal seal, 3 percent CaCl type H cement with 15 lbs gilsonite per sack through tubing. Pulled tubing and displaced 15 feet.
0200-0800 Wait on cement.



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0800-1100 Water level @ 120 feet. Run in hole with tubing, tag cement @ 136 feet. Pumped 32 sacks of 12 percent cal seal, 3 percent CaCl type H cement with 15 lbs. gilsonite/sack. Pull tubing and displace water level @ 45 feet, cement tagged @ 110 feet. Halliburton released.

1100-1800 Wait on cement, cleaned flat tank and mixed mud.

1800-2200 Milled cement with 8½" short tooth mill. Milled 45 feet, no circulation problems, power swivel broke down.

2200-2400 Worked on power swivel, new one ordered from Grand Junction.

12/31/80

0000-0300 Wait on power swivel. Power swivel arrived @ 0300.

0300-0430 Change out power swivels.

0430-1300 Mill out cement, no circulation problems. Hit iron @ 325 feet.

1300-1600 Milled cement and iron, made about 10 feet of hole.

1600-1800 Pulled out of hole, ran impression block, pulled out impression block. Small 1" square of steel (casing?) returned in center of impression block.

1800-2000 Made up drill string with collars, stablizer and 8½" flat bottom mill.

2000-2400 Milled cement and steel to 345 feet.

1/1/81

0000-0630 Milled on iron, very hard, drilling very slow.

0630-0800 Continue milling, lost some mud due to leaky return lines. Mixed additional mud. Milling @ 375 feet.

0800-1200 Continue milling, 400 feet @ 1200.

1200-1800 Milling on iron, hit top of drill pipe (fish) @ 406 feet.

1800-2230 Milled 20 feet of fish, mixed mud and cleaned pump suction.

2230-2400 Milled on fish, broke through cement and milled another 5 feet to tool joint. Total depth now approximately 430 feet.

1/2/81

0000-0200 Pulled drill string out of hole, made up fishing tool.

0200-0400 Picked up fishing tool string of overshot 4-3/4" grapple, jars, bumper sub, and intensifier. Ran tool string in hole, unable to grab fish.

0400-0600 Pulled tool string out of hole.

0600-0730 Changed to 3-3/4" grapple, reassemble fishing tool and run back in hole.



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0730-1000 Fishing, unable to grab fish, pulled out of hole.
1000-1200 Make up and run impression block. Impression block hit obstruction @ 380 feet, unable to get past. Pulled out of hole with impression block. Impression block imprint shows arc of casing had shifted 1/2 to 1/3 diameter of casing.
1200-2000 Crew cleaned mud tank, washed drilling floor and drained pumps for anticipated weekend shutdown. DOI WPRS brought up to date and consulted for next approach.

1/3/81
0000-2400 Shutdown.

1/4/81
0000-2400 Shutdown.

1/5/81
0000-2400 Shutdown, 2 dry watch shifts, 12 hours each.

1/6/81
0000-2400 Shutdown, 2 dry watch shifts, 12 hours each.

1/7/81
0000-2400 Shutdown, 2 dry watch shifts, 12 hours each.

1/8/81
0000-2400 Shutdown, 2 dry watch shifts, 12 hours each.

1/9/81
0000-2400 Shutdown, 2 dry watch shifts, 12 hours each. Meet with DOI WPRS in Grand Junction. Decision to shutdown job and pull rig off site.

1/10/81
0000-0800 Shutdown, dry watch.
0800-1800 Full crew on site for rigging down rig, daylight hours only. Rig moved off location.

1/11/81 Sunday, no work.

1/12/81
0700-1800 Continue rigging down, work daylight hours only. American Mud picked up unused bentonite, lime, and LCM for credit.

1/13/81 All CWS equipment off location. Propane tank from local Cal Gas dealer. BICO Frac Master, and fresh water tank remain. Welder made dry hole marker for Scott well, cut hole in James well and welded coupling over hole for access.

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1/14/81 Water tanks pulled off site.

1/15/81 Propane tank pull off site. Site now empty.

1/16/81 Steel plate bolted on Marland well, leak around gasket of 1.5 gpm, muddy and cool but clearing and warming water.

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APPENDIX 8
INSPECTORS' DAILY LOG, MARLAND WELL RE-ENTRY
April 12 to May 14, 1981

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4/12/81

Drove from Denver to Meeker. Arrived at 2000.

4/13/81

Met Bill Bailey at his shop. Drove to site. Agreed to move small John Deere backhoe to site, but was on Piceance Creek 65 mi from Meeker. Two men from Noel Construction arrived about 0930 with air compressor and hammer. Cleaned up site and waited for backhoe. Backhoe on site about 1400. Backhoe cleaned about 4' of dirt from top of concrete. Drilled holes and shot concrete (top 7 cyds). Sent Noel home, since it appeared all concrete was broken up. Had Bryce Purkey from White River Roustabouts bring out 2" pump to pump down water in well. Plate on top was leaking. No pressure. Removed plate and pumped down 21'; in-flow calculated at 1.77 gpm. Took sample. Later set up garden hose siphon that handled water. At 1100, Craig Steel delivered two 20' pieces of 36" CMP. Gary Staley, Colorado Well Service (CWS), showed up at 1130 and laid out increased area of site. Checked recorder on OW-2; not operating.



4/14/81

Arrived at site 0745. Checked recorders and put paper on OW-2; did not measure water level. Checked OW-3 and found float off. Bailey's man arrived 0800 and started to remove concrete. D-8 Cat arrived about 1000 and started to enlarge pad 40' wider and 100' longer. Nick Weisberger, Dotco Special Rep., showed on site about 1100. Discussed fishing tool needs. Checked casing and determined 14" casing was about 8' long (7'3" to top of 10"). Old casing was 10" ID and 10-5/8" OD. Collar on which 14" set was 14-1/4" OD; 10" casing cemented in collar. Pulled new 14" off old casing and welded on cap to control water. Found added concrete below collar. Tried to rip with D-8 but could not. Called in WR Roustabouts (Bryce

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Purkey) with air compressor and drilled at 1600. Drilled and shot lower 7 cyds. concrete. Ripped out with D-8 CAT.

4/15/81

Continued working on site. Removed lower 7 cyds. concrete from around well casing. Dug about 10' below collar on casing (new top) into solid shale. Found 24" hole around casing at least 5' deep, probably much more. Well has 13-3/8" outside casing below 14-1/4" collar outside of 10" casing. Both casings relatively loose as could move by hand and backhoe. Set 36" CMP (20' long). Backfilled with ±2-3/4 cyds. of concrete in 7' x 7' hole to about 2' thick. Dumped 6' of gravel on top. Backfilled with dirt to 2' of G.L. Then dumped ±2' gravel around well head. CMP culvert at 4' above G.L. Casing top 11.3' below top CMP. Measured pressure in well and found to be ±18 psi at 0930. At 1700, fished float from OW-3 and set up recorder. Bought lumber to make other shelters.

4/16/81

Bailey cleaned up site with grader and hoe; took 2 hrs; used D-8 Cat to move dirt piles, road around site, and fill in mud pit at Scott Well. Kept D-8 on site until 1700. CWS started moving in people and equipment at 1000. B&B Drilling arrived about 1100 to drill rat hole and mouse hole; took 5 hrs. Had to cut 37" off CMP. Ran levels from OW-2 and determined top of CMP after cut to be 6663.7' MSL. Measured disturbed area of site; made sketch. By 1800, CWS had rig, sub, doghouse, pads on site; other at Bailey Construction yard. Determined site in air-field range so must set up and have lighted by tomorrow night.

4/17-4/20/81

Logs not located.

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4/21/81

0300-0830

C. Feast drove to Meeker from Denver.

0830-0930

Met CWS pusher Jerry Moomey and Dotco Tool hand Danny Williams. Discussed first approach.



0930-1030 Continuing to rig up, nipple up, and mud up.

1030-1130 Welder lowered down hole and cut observation ports in 13-3/8"; cement behind 10-3/4" down to at least 2' above bottom of cellar inside 36" CMP. Welder cutting around bottom of 13-3/8". Casing angles into center of CMP, offset to south on top; too off-center to allow tools to work due to tight fit around rotary table.

1130-1300 Went to town to call CWS for pumping equipment. At lunch met Gary Staley, CWS, in town. Welder cut 13-3/8" all the way around about 3' from bottom.

1300-1500 Welder sliced length of 13-3/8" on two sides to remove. I made several phone calls.

1500-1530 Pulled halved 13-3/8"; cement very rotten, if cement at all.

1530-1600 Tried to pull 13-3/8". Would not budge. Conferred with Dotco hand and CWS pusher. Going to try to pull 10-3/4" and 13-3/8" without washing over or cutting to see if loose. If unsuccessful we will log, washover and begin cutting and pulling.

1600-1700 Crew rigging up spears, etc. I called Welex to get bond log. Welex on way, should be here at 1830.

1700-2000 Crew rigging up to begin washing over, etc.

SWL OW-2: 160.26' BMP at 1725. Mp top of flange.
 SWL OW-3: 170.17' BMP at 1738. Mp top of flange.
 SWL OW-1: 121.85' BMP at 1750. Mp top of flange.

Wait on loggers.

2000-2230 Loggers on site at 2000. Log well. Loggers felt split at 380' but got past to 410'. Ran bond, gamma, and casing collar logs; little bond above 85' and between 160' and 230'.

2230-2400 Pick up 16" wash pipe to wash to 85' and begin cutting and pulling. 25.46' from top of master bushing to top of cut off 10-3/4";



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5.1' from top of 10-3/4" to bottom of cellar.
Top of 13-3/8" was 1-1/2' above bottom of
cellar.

4/21/81

0000-0130 Finish making up first 9.65' of mill shoe bit string. Run in hole with string to check for fit over off-center casing. Fits okay. Call Am. Mud to get mud engineer on site. Welder returns to site to finish nipling up surface pipe. Light plant down.

0130-0630 Welder finished assembling CMP surface pipe. Began circulating. CMP leaks around every 2' spot-welded joint. Welder now welding every 2' all the way around.

0630-0930 Welder finished sealing CMP.

0930-1100 Circulating and mixing mud. CMP not leaking.

1100-1110 Start washing over 13-3/8". Made a quick 1.5' of hole, then stopped to wait for light plant repair so we can run cuttings over shell shaker.

1110-1123 Sawdust (LCM) delivered; crew lifted second pup joint of washover pipe. Started drilling again. Electrician on way.

1123-1130 Drilled; hole apparently caving as when washover pipe raised and lowered, would not return to initial depth. Cuttings have some steel; possibly elevators on 13-3/8". Stopped drilling to wait for electrician.

1130-1220 Wait on electrician, electrician arrives at 1220. Dotco relief hand Murray Johnson on site at 1210.

1220-1300 Discussed operation with Johnson and Moomey. Decided to tack-weld 13-3/8" and 10-3/4" together to prevent 13-3/8" from slipping down hole when pulling on 10-3/4".

1300-1530 Crew pumped out CMP. Light plant fixed. Welder tacked casing together. Stabbed back over 13-3/8".

1530-1600 Final replumbing of mud circulating equipment. Began washover at 1557.



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1600-1610 Initial stabover apparently unsuccessful. Restabbed at 1610. Began washing over.

1610-1700 Top of 13-3/8" is 10-1/2' from ground surface. Washover to 32'. All depths will be recorded from top of Kelly bushing which is 12' above ground level. Approximate ground level elevation 6663. Kelly bushing approximately 11' above measuring point used in December-January, 1981, effort.

1700-1900 After much difficulty the second pup joint of washover pipe was stabbed over the 13-3/8" and washed over without difficulty to 38'. Mud washed out around 36" CMP below grade. About 1/3 mud lost to reserve pit. Raining.

1900-2400 25' of 30" steel conductor pipe ordered and will be cemented in place from bottom of cellar. To grade and 13-3/8" will be orange-peeled and welded to 10-3/4" to give a tapered top. To repair surface conductor pipe and get 13-3/8" more centerized to enable us to stab over 13-3/8" with full joint of washover pipe.

4/22/81

0000-0630 Crew pulled tool string and rotary table. Cut off CMP at ground level. Cellar pumped out and welder tapered 13-3/8" to 10-3/4". Received 28' of 30" surface pipe.

0630-1000 I discussed options with Dotco, CWS, and CH2M HILL. Decided best approach was to cut beam in rotary sub to allow vertical pickup of table with 30' joint of washover to be able to line up with crooked fish. Pusher to call CWS for okay to cut beam. I ordered 2 cyds. sand-grout mix with 4% CaCl. Crew centered 30" inside 36". Cement arrived at 1000. I was not on site; I arrived back at site just after all cement was poured. No CaCl had been added. Set time 8 to 10 hr. I complained to Berry Bros. They said they forgot and if we did not like Berry Brothers, we could go elsewhere.

1000-2000 Crew continues to redo well head and rotary table WOC. Mud being remixed. Water trucks filling tank. V. Butler and H. Plant, CH2M HILL, arrived on site at 1230. Checked observation

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wells and set recorders on OW-1, OW-6, and James Well. Reset OW-2 and OW-3.

2000-2400 Re-entered well with 16" washover, down to 43' by 2400.

4/23/81

0000-1630 Pulled 16" washover and set up to run in with 30' section of 16" washover. Could not stab over casing. Had to remove rotary table, run washover through it, then re-enter well. Successful in getting over casing by 0630. Set up and found 30' section was 5' too long to get Kelly down. Made several attempts to turn by slips and washing down 5'; could not do. At 0830, called Dotco for another "pup" (short section) of 16" wash pipe. Was put on truck to send to site. In meantime, broke down 30' section and rigged up previous pups. 200' of 20" pipe, in 20' lengths, arrived at 1330. Unloaded next to drill pipe. 17' pup arrived at 1330. Rig was readied for drilling at 1630.

1630-2230 Washed down to 49'.

2230-2400 Rig broke down at 2230; sheared key in drum sprocket. Stopped to repair. 2-1/2 hr down time.

4/24/81

0230-0630 Picked up new 16" shoe and 30' of pipe. Difficulty in hooking up. RIH at 0630.

0630-0900 Hung up momentarily at ±50'. Got past and washed down to 55'. Worked hole and washed thoroughly.

0900-1200 Attached 17' pup joint and RIH, washover for 30 min. Begin drilling down. Well head arrives at 1200.

1200-2200 Washed down 17' section. POOH with 17' section and laid down. Picked up 32' section, washover, and drilled down. Returned 17' section and washed down. At about 7' (with 74.20') in hole, hit hard sandstone and metal. Very difficult to make hole. Continuing with washover. Alerted welder for use in morning to cut casing when pulled.

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2200-2400 Still running 17' piece in hard sandstone.
Making 1' every 1-1/2 hr.

4/25/81

0000-0200 Continue washover.

0200-0600 Started pulling out of hole with 17' and laid
down. Pick up 32' piece; RIH and found hole
6" short.

0600-0800 Worked 2 hr to get down 6" to rotate 32'. Got
down at 0800.

0800-1100 Begin washover. Last section of 30' pipe
down by 1100.

1100-1200 Completed washover, circulated, started out
of hole, and ran back down. Hung up 11' high,
or at 110', 88' below top of casing. Could
not go down further. Concluded casing pulled
apart.

1200-1500 POOH, laid down 16" washover by 1500.

1500-1630 Rigged up spear and RIH.

1630-1830 Pulled first section of old casing; was
10-3/4" casing inside 13-3/8" casing. Had
shaved collar at 36' so cut casing at this
length. Pulled remainder of 42.5' and found
bottom 5' badly milled. Ordered concave mill
and 13" tooth shoe from Dotco. 82.2' of
10-3/4" and about 80' of 13-3/8" casing
removed. Casing very rotten in places and
sound in others.

1830-2030 Picked up drill pipe and spear to try to
catch casing in hole while waiting for mill.
At 113' and hit iron. Could not spear casing.
POOH to wait for mill. Sent welder home.

2030-2200 Mill arrived at 2030. Rig up 11-3/4" concave
mill. RIH.

2200-2400 Started milling with 11-3/4" mill on three
joints drill rod, and kelly.

4/26/81

0000-0130 Milled about 3' of casing. Total depth,
113.6'. POOH and break out mill.



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COLO. OIL & GAS CONSERVATION

0130-0200 Rig up spear and RIH. Could not spear casing. Came up with mud and formation.

0200-0800 Started rigging up for running more 16" wash-over. Options were:

1. Continue milling with 11-3/4" mill.
2. Wait for 16" mill and mill with it.
3. Run oversized mill with pilot.
4. Run oversized hole opener.
5. Run 16" wash pipe, then 16" mill later.

0800-0900 RIH with wash pipe.

0900-2000 Washed down about 18' in hard formation and lots of iron to \pm 132'.

2000-2400 Washover; very hard drilling.

4/27/81

0000-0730 Continue washing over. Made 5' in 12 hr. Wash down to 150' at 0730.

0730-1030 POOH with wash pipe and laid down.

1030-1100 RIH with 10-3/4" x 3.05' tapered cone mill. Mill hit fish at 134', about 14' below depth expected.

1100-1600 Milled inside casing; lots of cement return, but little iron.

1600-1830 POOH with mill. RIH with spear. Could not spear casing. Mill was 10-3/4" and casing ID 10" so was milling down casing.

1830-2000 Sent mill back to Vernal for trimming. Rig up 16" wash pipe, RIH.

2000-2400 Started washing down, getting 1' every 10 to 12 min. Then slowed down; shoe probably smoothed off. TD 156' at 2400.

4/28/81

0000-0045 POOH with wash pipe.

0045-0230 Wait on mill. Mill arrived at 0230.

0230-0330 RIH; tagged at 152.5'. Started milling cement in casing with 10-1/4" tapered mill.



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0330-0700 Milled casing. Made 13'. Lots of cement, some iron; very slow.

0700-0800 POOH. Broke out mill.

0800-0900 RIH with fishing spear on one collar and drill pipe. Tagged at 160', on depth. Tried to set spear, unsuccessful.

0900-1130 Decided to lay down wash pipe, spear, and all other equipment and run special pilot mill ordered from Dotco. Four representatives from WPRS arrived at 1000.

1130-1700 Laid down equipment, cleaned up. Wait for pilot mill. Crew cleaned rig. Called Dotco regarding pilot mill. It was still in the machine shop. Can expect it to arrive around midnight.

1700-2400 Call Dotco at 2400. Said "would be 3 to 4 hrs. before it could be sent."

4/29/81

0000-0500 Wait for pilot mill. Called Dotco at 0300. Still "3 to 4 hr."

0500-0800 Wait for Dotco. Called Dotco at 0600. "Around noon."

0800-1130 Wait for Dotco. Called Dotco at 1130. Mill "left few minutes ago."

1130-1330 Wait for Dotco. Pilot mill arrived on site at 1330. Too hot to put in water/mud in hole.

1330-1615 Wait 2 hrs. for mill to cool. Make up mill and RIH at 1615. Mill has 9-1/2" pilot 4' long; 14-1/2" diameter about 3' long with blades up side. Run with three collars, one joint pipe, and subs.

1615-1830 Hit fish at 151' less 4' pilot gives top of casing at 147'; okay. Started milling at about 1'/10 min for first 3' to 4'.

1830-2030 Milling slowed to 1'/30 min at 156'. Pulled up to circulate and rattled iron at 15' above fish. POOH and checked mill. Milling only on bottom of 14-1/2" and 9-1/2" pilot.



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Decided to go back in. Found safety sub defect. Had to order new from Rangley. Circulated hole. POOH with bad sub.

2030-2230 Wait for sub. Sub arrived at 2130. Make up tools with new sub.

2230-2400 RIH; mill on fish.

4/30/81

0000-0700 Clean up slivers of fish 15' above fish.

0700-1530 Mill on fish from 156' to 165'.

1530-1630 Pulled pilot mill. Found slight cutting on top part of blades. None on the notch, but the 9-1/2" flat-bottom pilot was completely worn, both on bottom and along sides. Had been cutting heavily.

1630-2200 RIH with spear, unable to catch fish. POOH and made up pilot mill with new 9-1/2" toothed mill.

2200-2400 RIH with pilot mill, tag and start milling at 165'.

5/1/81

0000-0800 Continue milling to 179'; 1'/45 min. average.

0800-0830 Checked cuttings. Getting sand and formation. Pulled up 8' to wash hole. Hit iron 8' above bottom (171'), but at 2' above bottom smoothed out. Pulled out to inspect mill. Found cutting on bottom 9-3/8". Minor cutting on sides of 14-1/2" mill. Metal chunks and sand on 9-3/8". Concluded was out of or coming out of hole.

0830-1030 RIH with 11" concave mill; no pilot. Hit iron up hole 7' to 8'. Lightly milled that off. 11" slipped off casing; decided to wait for sub for 16" concave mill and run it.

1030-1245 Sub arrived by plane from Dotco. Made up and RIH with 16" mill. Hit iron up hole and started milling at about 123'. Pump broke down.



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1245-1500 Stopped to repair pump. Was able to put back together to use while welder came out from Rangely to change seats in pump.

1500-1700 Continued milling to 147' with 16" mill.

1700-2400 Welder arrived and cut out pump seats. In doing so, cut into block. Will require major repair. However, could put back together for current low-pressure use.

5/2/81

0000-0300 Worked on pump; down 3 hr.

0300-0700 Returned to milling and hit iron again at 154'. Apparently, part of 13-3/8" casing left in hole. Milled down in about 7 hrs. to ±178' when mill wore out.

0700-0800 Checked mill wear pattern and found milling on 13-3/8" casing and hard formation. Shut down to resurface mill with cut-rite on site and to repair pump again. CWS expects to have new pump on site by noon.

0800-1300 Worked on pump from 0930 to 1300. Dotco man arrived at 1045 to redress mill.

1300-1330 RIH with spear; could not catch casing. Hit hard at 179'.

1330-1500 Wait for 16" mill to be surfaced.

1500-2400 Make up mill. RIH; hit iron or formation 8' to 10' above 179'. Milled or pushed down on solid iron. Milled first foot in 23 min, second foot to 181' in 50 min., down to 183' at 2300.

5/3/81

0000-0700 Continued milling, by 0700 only down to 184.5'. Very hard. Pounded on casing. No action.

0700-0730 Serviced rig.

0730-1100 Decided to check mill. In pulling out, appeared to pull some casing up hole 6' to 8'. Worked on this two to three times. Decided may be a piece of 13-3/8" casing moving up/down hole and rotating. POOH. Mill was



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worn on outside edge at $\pm 13\text{-}3/8$ and on patches along outer side. Mill came up with lots of gray-green shale. Must be through Dakota sandstone. Decided to try to stuff loose iron in small wash pipe ($13\text{-}1/4$ ").

- 1100-1200 RIH with $13\text{-}1/4$ " wash pipe. Rotated few turns with wash pipe at depth of 181'. Had hit higher by 6 to 8'. Pulled up then pushed down to 181'. Bounced hard with 10,000 lbs. and POOH; did not catch casing.
- 1200-1800 RIH with $13\text{-}1/4$ " wash pipe and started washing over. Continued working up/down casing. Hitting iron. Washed down to total depth of 187'. Not making much hole.
- 1800-2100 POOH with wash pipe. Came up with "rock" in bottom of $13\text{-}1/4$ " shoe. Tried to break out wash pipe. Tongs not right size. Took tong heads to town and cut down.
- 2100-2230 Finally broke out wash pipe and got 3' core of blue-gray shale (Morrison Fm). Definitely out of hole.
- 2230-2400 Went to town and called Jim Slauch/Dotco. Suggested light washover with 16" and/or go in hole with 26" hole opener. Returned to Dome and started picking up 16" wash pipe.

5/4/81

- 0000-0630 Make up 17' joint of 16" wash pipe; RIH.
- 0630-1130 Wash pipe hit briefly at 154'. Lightly washed over to ± 178 '. Not much cuttings, little or no iron. Decided to come out of hole. Rig up 26" reamer. Called Welex for log.
- 1130-1800 Rig up 26" reamer. Wait for Welex. Welex arrived at 1600. Log well with collar locator to 187' TD. Found 1st iron, other iron to 187'. Top of casing?, at 121' to 122'.
- 1800-2400 Rig up 26" reamer.

5/5/81

- 0000-0800 Drilling with 26" reamer. Made 76' by 0800. Had to stop once to clean out lines and shell

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shaker. Deviation at 17' (marked 57' on disc), 1-1/4°.

- 0800-1200 Drilled to 89'; deviation at 79', 0.5°.
- 1200-2230 Continue milling. 119' at 1800, last 3' to 4' very fast, 1' / 3 to 4 min; last few even less. Magnet at shell shaker cleaned. Continued cutting to 121'.
- 2230-2400 POOH with 26" hole opener. Wait for Dotco hand to bring knuckle joint.

5/6/81

- 0000-0400 RIH with 6' of 16" washover and 3.8' of 16" washover shoe on drill pipe only. Tagged at 121'. Rotate and slip off fish after making 6" to 1'. Could not keep on fish.
- 0400-0600 POOH and rig up knuckle joint. Dry-drill for 5'. Prior to drilling, circulated hole for 1-1/2 hr.
- 0600-1200 RIH with same 9' of washover and knuckle joint; was able to stay over fish. Washed over 2'. POOH and took out knuckle, put washover on drill pipe. Was able to get over fish. Continued washing over. Washed over to 130'. At 1200, bottomed out on top sub.
- 1200-1400 Circulated hole clean; POOH. Added additional 6' pup joint of washover pipe. Tagged fish and started back over it at 1400.
- 1400-1625 Washing over fish. At 133', at 1500. Began bouncing wash pipe, but making hole. Stopped at 136.5' at 1510, KD. Circulated hole for 15 min between 1610 and 1625.
- 1625-1815 POOH with 15.50' washover assembly laid down. Make up skirted mill (16" x 6' washover pipe with 11-3/4" concave mill in top of skirt). First made up skirted mill with 14" mill inside, but string would not make up tight due to binding bit.
- 1815-2110 Stabbed over fish and milled down to 150' with skirted mill. Top of fish at 138.5'.
- 2110-2330 POOH with skirted mill and washover pipe. Changed out washover shoe.



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2330-2400 Wait for Dotco sub to use 10-3/4" tapered mill. Dotco making up 16" impression block in Vernal.

5/7/81

0000-0215 Dotco sub arrives at 0130. RIH with tapered mill in 13' of 16" washover pipe.

0215-0400 Started milling. Seemed to get over casing easily. Top casing at 141.5'. Washed down to 153.5' when started tapered mill. Ran tapered mill down about 5', topped out at 141.5'.

0400-0600 POOH and made up spear. RIH with spear, but could not catch casing.

0600-0800 POOH and RIH with 11" overshot and grapple. Hit top of casing as expected, but could not catch fish.

0800-1030 POOH and waited 30 min for 16" impression block. Impression block showed sharp point of casing at 141'.

1030-1230 Made up 14-1/2" skirted mill in 15' of 16" washover pipe. RIH and started milling at 141'.

1230-1900 Washed over and milled with skirted mill to 180'. No problems. Drilling rate slowed.

1900-2000 POOH changed out mill shoe. 14" concave mill showed ±10" diameter wear pattern. Drilling rate probably slowed because mill shoe is now cutting new hole below where first washover left hole.

2000-2400 Continued milling with skirted mill. TD washover shoe is 190'. Top of fish at 176.5'.

5/8/81

0000-0225 Continue milling with 16" washover.

0225-0500 Change washover shoe to new drag tooth. RIH and start milling at 193' at 0500.

0500-0800 Continue milling.

0800-0945 POOH; change 14" mill, check shoe. RIH; 20 min to get down on bottom.

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0945-1200 Milled on fish and hole with 16" wash pipe and 14" mill. Bottom hole 199'; top of fish at 185', approximate collar depth.

1200-1345 POOH; broke out drill pipe. Added collars. Crew very slow, disorganized, and green. RIH; began washover/milling. Tagged at 198' bottom of hole; top of fish at 184'.

1345-1730 Mill on fish. Bottom of hole at 204'; top of fish at 190'.

1730-1845 Circulate hole.

1845-2400 Change out 16" wash pipe. Make up 13-3/8" wash pipe. RIH with impression block. No significant imprints.

5/9/81

0000-0115 Make up skirted mill of 5' of 13-3/8" wash pipe with wavy-bottom mill shoe and 11" concave mill inside at top.

0115-0145 RIH with skirted mill. Stab over fish at 0145. Begin washing down outside, cleaning previously cut hole.

0145-0735 Cleaned out 16" hole around fish for 14' and ready to cut new 13" hole below fish. Very difficult. Lots of torque. Apparently lots of cuttings around fish. Had to flush hole for considerable time. On new hole about 0735. Geolograph was started early and is duplicating last few lines.

0735-1100 Cut considerable metal. Believed shaved collar at ±206'.

1100-1200 Continue washover/mill on hole. Mill not on top of fish yet. Drilling very slow.

1200-1545 Continue washover/mill. TD 209'. Ordered coarse drag tooth mill hotshotted over.

1545-1845 Continue milling over casing. Very slow.

1845-1945 POOH. Break off wavy-bottom mill. Piece of twisted 10-3/4" casing lodged up in 13-3/8" washover pipe. Removed 4 to 5' of casing. Made up 13-3/8" washover pipe with coarse drag tooth shoe. RIH.



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1945-2400 Begin milling; tag bottom at 214'; top of fish at (?).

5/10/81

0000-0235 Continue milling. TD 217'.

0235-0700 POOH with 13" washover pipe. Rig up 11-3/4" flat-bottom shoe on three drill collars. RIH. Tag top casing at ±213'. Started milling.

0700-1000 Milled to 220.5'. POOH.

1000-1130 Made up 13" washover and RIH. Tagged at 220.5'. Mill had brown clay, cement, and small half-penny-sized chunks of iron.

1130-1730 Mill on fish/washover. TD now 223'. Kelly hose needs repair for weakness caused by rubbing on derrick.

1730-2400 Mill on fish to 224'. Conference with driller, pusher tool hands, and Bud Earley. Decided only approach left was to skid rig over and try to intercept old well bore.

5/11/81

0000-0700 Mill on fish to 225.5'. POOH to change shoe. As coming out of hole, lost last collar and washover pipe, including "wedding band," down hole when elevator rope caught in derrick and tripped elevators. Called Dotco in Vernal at 0700. They will bring grapple.

0700-1100 Wait for Dotco. Grapple arrived at 1100. Made up tools.

1100-1330 RIH with grapple to get over collar and washover pipe. Pulled fish, except left "wedding band" and collar clamp in hole.

1330-2000 Received word from WPRS agreeing to recommendation to skid rig and drill parallel hole. Laid down tools and started to rig down rig. Left Marland Well with fish sticking up 5' above bottom of hole at 225.5', top of such at 220.5'. Fish had been milled down at several feet by open concave mill prior to last washover. Saw no reason to run new mill down on it. Also saw no reason to try to fish the collar clamp, since would take \$800

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to \$1,000 and clamp cost is \$1,800 minimum. Small chance of returning it. Continue to rig down by laying down drill collars, pipe stands, and other equipment.

5/12/81

0000-0800

Rig down.

0800-2400

Rig down with one crew. Shut down overnight with dry watch only. Marco rathole Drilling, Vernal, Utah, drilled rat hole and set 30" conductor. Had to redrill rat hole since it hit concrete around old Marland Well.

5/13/81

0000-0700

Dry watch.

0700-2000

Rig up with one crew.

2000-2400

Dry watch, one man.

5/14/81

0000-0800

Dry watch, one man.

0800-1800

Rig up, two crews.

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