

S.R.C.

Hillsboro

Project

1124-7

Time Lag	Overburden (#12/ft)	Set/Cmt. Surface	Rock hammer (#9/ft); rotary (#10/ft)	Charges	
1-21-85 4:00pm	Spudded 1124-7 @ 4:00pm with 7 7/8" tri-cone, button bit. Drilled 2 1/2 feet of topsoil and 1 1/2 feet of rock with air. Small rocks and boulders wedging in hole against bit and stabilizer. Decided to case off top of hole. Drilling hard & slow. 4 feet at 4:45 pm.	rock is actually boulder conglomerate which extends down to about 10 ft		2 hr crawler time to build access across creek to drill pad @ \$45/hr 1 H ₂ O haul on 1-21-85 @ \$45/load	(2 X #45) (1 X #45)
4:45		Set 4' of 6 1/4" surface casing from 4:45 pm till 5:00 pm. Casing was washing out when drilling was resumed, added 1 sk cmt.	** no charge for 4' of casing since it was later pulled. (see notes at 2:00 pm 1-24-85)		(4 X #12) (0.25 X #90) (4 X #6)
5:30pm quit for day					
1-22-85 8:30 am			Began drilling with 5 foot Reed Hammer (rated 250 psi) and 6 1/4 inch button bit at 4 feet at 8:30 am. Had some minor difficulties with casing which accounts for lengthy time to put down joint. 20' at 9:15 am	Drilling with air: 850 cfm @ 150 psi	(16 X #9)
9:15 am					

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Time Log		Rock		Charges	
1-22-85 9:18 am		hammer (#9/ft); rotary (#10/ft) joint 2 (9:18 till 9:42) 24 min. 40'	} First H ₂ O is a seep at 34 ft.		
		joint 3 (9:45 to 10:13) 28 min. 60'			
		joint 4 (10:16 to 10:58) 42 min 80'			
		joint 5 (11:00 to 11:31) 31 min 100'	} First major H ₂ O flow is at 87 ft. est. at 3-5 gpm Temp. ~ 66°F		
		joint 6 (11:33 to 12:04) 31 min 120'			
		joint 7 (12:06 to 12:42) 36 min 140'			
1:00 pm		joint 8 (12:49 to 1:50) 61 min compressor hose broke - 12:45 @ 140' drilling with one compressor to 145' @ 1:15; tripped out to rehook compressor; back on bottom and drilling with 2 compressors @ 1:25 160' @ 1:50 pm (15' in 25 min)	H ₂ O temp. @ 120' = 67°F H ₂ O temp. @ 140' = 67°F H ₂ O flow @ 140' ~ 20 gpm	(200X#9)	
		joint 9 (1:52 to 2:23) 31 min 180'			
		joint 10 (2:25 to 3:00) 35 min 200'			
		joint 11 (3:03 to 4:29) 1hr 26 min automatic choke valve broke and shut-down one compressor; continued to drill with other compressor until problem could be found. Found trouble after 45 min, and switched to manual Finished joint with 2 compressors			
		220' at 4:29 pm	H ₂ O temp. @ 220' = 68°F H ₂ O flow @ 220' ~ 40 gpm		
4:29 pm					

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Time Log		Rock hammer (#9/RT); rotary (#10/RT)		Charges
4:31 pm 5:40 pm quit for day		joint 12 (4:31 to 5:40) 1hr 9 min 231' @ 4:50 pm lost circulation; intermittent return to 233' at 5:00 pm where circulation was regained 240' at 5:40 pm	major fracture 231' to 233'	(20 x #9)
1-23-85 8:16 am 5:15 pm quit for day		joint 13 (8:16 to 8:55) 39 min (Back on bottom at 8:16 am) 260' joint 14 (8:58 to 9:40) 42 min 280' joint 15 (9:42 to 10:37) 55 min 300' joint 16 (10:39 to 11:33) 54 min 320' joint 17 (11:36 to 1:28) 1hr, 52 min 340' joint 18 (1:31 to 3:00) 1hr, 29 min 360' joint 19 (3:03 to 5:15) 2hr, 15 min 380' - tripped out to remove hammer and switch to tri-cone (making too much H ₂ O; Hammer losing its punch)	H ₂ O increasing 40 to 50 gpm; H ₂ O temp. is 69 to 70°F	(140 x #9)
1-24-85 8:00 am 12:00 noon		Bad news, almost lost hole. A cave-in in the upper 20' of the hole, prevented penetration of drill pipe below 20'. Everytime we drilled down and came out, we could re-enter to only 20'.		

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Time	Log	Rock	Charges
1-24-85 noon		hammer (#9/ft); rotary (#10/ft)	
2:00 pm	Remove 4' of casing in order to ream hole.	* In an attempt to save the hole, a decision was made to try to reset the surface casing to at least twenty feet. Remove 4' surface. Began to ream hole at 2:00pm Reamed to 23' at 4:00pm. Set 23' of surface from 4:00-5:00pm 2 hr reaming @ #90/hr 1 hr set surface @ #90/hr 23 ft of casing @ #6/ft	(2 X #90) (1 X #90) (23 X #6) (1 X #45)
5:00 pm	(Idea worked + hole saved.)		
6:00 pm quit for day	cleaned and flushed hole to TD.		
1-25-85 8:30 am		Back on bottom and drilling at 8:30 am with tri-cone, button bit. (380')	Switched to tri-cone @ 380'
		joint 20 (8:30 to 9:10) 395' (15' in 40 min) joint in at 395' because lost 5' when hammer was removed	(#10/ft)
		joint 21 (9:17 to 10:15) 58 min 415'	H ₂ O temp. ~ 70°F
		joint 22 (10:18 to 11:31) 1 hr, 13 min 435'	H ₂ O flow + 50 gpm
		joint 23 (11:34 to 1:01) 1 hr, 27 min 455'	
1:00 pm		joint 24 (1:04 to 1:39) 35 min 475'	(95 X #10)

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Time Log		Rock		Charge:
1-25-85		hammer (#9/RT) ; rotary (#10/RT)		
2:30pm		joint 25 (1:42 to 2:22) 40 min 495'		H ₂ O temp. still 70°F (25 x #10)
3:00pm		joint 26 (2:26 to 2:36) 10 min 500' (5 ft in 10 min)		H ₂ O flow est. at over 50 gpm
		circulated for 20 min to flush soap and dirt from hole in order to get good H ₂ O sample. H ₂ O sample taken at 3:00pm from 500'; temp. 70°F and pH ~ 6.0 1/2 hr at #90/hr		(1/3 x #90)
		Began tripping out at 3:00pm Out of hole at 4:00pm		
4:00pm		Began setting 3/4" steel pipe at 4:00pm		Began setting 3/4" steel pipe at 4:00pm 500' set in hole by 5:00pm quit for day due to bad weather cond. & darkness setting in.
5:00pm quit for day				Will fill pipe with H ₂ O and back fill hole tomorrow
				(500 x #04) *note the one hour to set pipe was overlooked, previous cost estimates. 2-6-85 RL (1 x #70)