

S.R.C. Hillsboro

Project

1124-9

Time log	Overburden (#12/ft)	Set/Cmt. Surface	Rock hammer (#9/ft); rotary (#10/ft)	H <sub>2</sub> O haul / crawler time	Charges	
				Set ¾" Steel Pipe		
1-28-85 M/D to 1124-9 2:30 pm  5:00 pm quit for day					2 hrs crawler time to help move some of the equipment from drill site #7 to #9 and to repair damage to ranchers road. 2 hr @ \$45/hr	(2 X \$45)
1-29-85 8:40 am	Spudded 1124-9 @ 8:40 am with 7 7/8" tri-cone, button bit. Drilled 1 1/2 feet of clayey top soil and 23 1/2 feet of rock (moderately cemented volcanic breccia or aggregate with some thin hard spots in upper portion, grading into a harder formation with depth). Drilled with air. 25 ft @ 9:17 am			1 H <sub>2</sub> O haul @ \$45/load		(1 X \$45)  (25 X \$12)
9:20 am		Set 25' of 6 1/4" Surface casing from 9:23 am to 10:08 am. 45 min @ \$90/hr 25 ft of casing @ \$6/ft				(25 X \$6) (75 X \$90)

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Time log		Rock		Charges
1-29-85		<p>hammer (#9/ft); rotary (#10/ft)</p> <p>25 feet</p> <p>10:23am Began drilling with 5' Reed Hammer (rated @ 250psi) and 6 1/4" button bit with air (850cfm @ 150 psi).</p> <p>40' @ 10:44am</p> <p>joint 3 (10:46 to 11:06) 20 min 60'</p> <p>joint 4 (11:09 to 11:40) 31 min 80'</p> <p>joint 5 (11:43 to 12:33) 50 min 100'</p> <p>joint 6 (12:42 to 1:24) 42 min 120'</p> <p>joint 7 (1:28 to 1:58) 30 min 140'</p> <p>joint 8 (2:01 to 2:21) 20 min 160'</p> <p>joint 9 (2:24 to 2:49) 25 min 180'</p> <p>joint 10 (2:52 to 3:14) 22 min 200'</p> <p>joint 11 (3:17 to 3:40) 23 min 220'</p> <p>joint 12 (3:43 to 4:06) 23 min 240'</p> <p>joint 13 (4:09 to 4:32) 23 min 260'</p> <p>joint 14 (4:35 to 5:05) 30 min 280'</p> <p>joint 15 (5:08 to 5:40) 32 min 300'</p>	<p>minor H<sub>2</sub>O (~1-2gpm) at 32 feet; begin adding H<sub>2</sub>O (2-3gpm) and soap</p> <p>H<sub>2</sub>O temp: 68°F</p> <p>these lengthy times to put joints down are due mainly to soap line slipping off repeatedly until problem finally solved</p> <p>H<sub>2</sub>O increasing a little, now up to about 10-15gpm Temp. still 68°F</p> <p>H<sub>2</sub>O increasing ~ 30 to 40 gpm Temp. 70°F</p>	<p>(275 x #9)</p>
5:00pm				
quit for day		note: after pulling up from bottom for the night, crews worked till 8:00am repairing clutch on Compressor	consequently, crew got late start next morning	

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Time log		Rock		Charges
1-30-85		hammer (#9/ft); rotary (#10/ft)		
9:53am		joint 16 (9:53 to 10:21) 28 min 320'		
		joint 17 (10:24 to 11:01) 37 min 340'		
		joint 18 (11:19 to 11:47) 28 min 360'	{ H <sub>2</sub> O between 35 & 40 gpm Temp. ~ 69°F Still adding soap and a little H <sub>2</sub> O ~ 2 gpm	
		joint 19 (11:50 to 12:25) 35 min 380'		
		joint 20 (12:29 to 12:59) 30 min 400'		
	a lot of minor fractures	joint 21 (1:02 to 1:38) 36 min 420'		
		joint 22 (1:42 to 2:16) 34 min 440'	{ H <sub>2</sub> O increasing to +40 gpm Temp. ~ 69°F	
		joint 23 (2:20 to 2:59) 39 min 460'		
		joint 24 (3:03 to 3:58) 55 min 480'		
		joint 25 (4:02 to 4:20) 8ft/18min	{ H <sub>2</sub> O ~ 45 gpm Temp. ~ 69°F	
	4:20 pm @ 488', main hy-			
		draulic line sprung big leak;		
		managed to pull up 10' off		
		bottom before fluids all gone.		
		Drill rig & compressors saturated		
		with ~ 40-50 gals hydraulic		
		fluid. Quit for the day.		
		Will bring new hose and 50gal.		
		drum of hydraulic oil in		
		the morning and finish hole.		

4:30pm  
quit for day

(188 X 9)

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Time log			Rock hammer (#9/ft); rotary (#10/ft)	Set/Cmt. $\frac{3}{4}$ " Steel Pipe	Charges
1-31-85 12:00 noon			Back on bottom and drilling at 488' at 12:29 pm Finish joint 25 (12:29 to 1:08) 12 ft in 39 min	{ H <sub>2</sub> O flow ~ 45 gpm Temp 69°F	(12 x #9)
1:10 pm					
1:10 pm			Circulated for $\frac{1}{2}$ hr @ #90/hr in order to flush mud and soap from hole so that a good H <sub>2</sub> O sample may be obtained. From 1:10 pm to 1:40 pm  Good H <sub>2</sub> O sample taken: ① time: 1-31-85 @ 1:40 pm ② Depth: 500 ft ③ Temp: 62°F ④ PH: ~5.5		(0.5 x #90)
1:40 pm					
1:45 pm					
2:45 pm			Tripped out from 1:45 pm to 2:45 pm	Began setting $\frac{3}{4}$ " steel pipe at 2:45 Set 499' of pipe and filled with H <sub>2</sub> O at 4:15 pm, quit for the day. Still have to backfill hole and cmt. top of pipe to surface.  $\frac{1}{2}$ hr @ #70/hr There will be No charge for backfill or cmt.	(499 x 0.45)
4:15 pm quit for day → 1124-9 has been completed	in order to get drill rig back to Yard by dark; rig has no running lights. However, Kelly would not lower! Finally got Kelly lowered, but too late to return to Yard	Problem with Kelly was loose and oil covered belt on hydraulic pump slipping. Probably got oil covered when main hydraulic line sprung leak (above)			(1.5 x #70)