

110' LA

Depth 100' - 8" casing
 size 1000 lbs
 water hit at 45'

CLIENT: U.S. Geological Survey/ S.C.E.C.
 PROJECT: SSIP
 CLIENT REP: LIZ ROSE

Date: 10/6/10		Hole # 110' LA	Rig # 1	Driller: Sam Crum	Supervisor: Gary Fuis
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #
7:40 AM	1		Tower Martinez Monitor Gabriel arrived		1. Crew Travel To Site
7:40 AM	16		Crew: Gary, Liz, Sam, Vance, Travis, Dustin, Alex (Vance went to pump from stream while Sam set up)		2. Rig Up
	13		Waiting for copper equipment to arrive(?)		3. Reenter Hole
8:30 AM	2				4. Drilling
8:41	14		Vance/Water Truck on site		5. Pull Pipe
9:06	13		Travis left to go out & get something Still waiting on copper & Gabriel, who also said he'd be right back		6. Mix Mud & Fill
9:51	12/13		Still prepping drill rig while waiting - Gabriel returned		7. Coring
10:18	12/13		Sam left to get parts, as something else broke		8. Install Casing/Pipe
11:10	14		Took "before" photos on Nikon		9. Cementing
12:50	2	DRILLING	Sam returned & started running water		10. Rig Down
1:05		15'	Gabriel inspecting cuttings Alex is taking samples from pile for Alan Pace		11. Move Rig To New Site
1:08	5		to switch drill bits		12. Maintenance
1:16	3		with 10" bit just delivered		13. Standby (Explain)
1:18	14	15'	Added 20' drill pipe		14. Other (Explain)
1:25	14		Pumped water into hole drain for shaker?? (from trailer)		15. Logging
1:29			Vance returns w/water		16. Water Trip
1:30	14	35'	Add next 20' drill steel (?)		MATERIALS USED
	14	~45'	Gabriel left site; Boulder in hole		Mud <u>10</u> sacks
1:43		55'	next drill steel added		10 Type <u>Bentonite</u> 1 sacks
1:46		~57'	Hard rock		sacks
1:47	16	75'	Vance went to get more water		sacks
2:08			Added drill steel Harder rock/slower drilling		Viscose _____
2:18	14	90'	Hard Rock for a few feet		Cement _____
2:20	14	95'	Hard Rock		Diesel _____
2:22		100'			Foamer _____
2:55		CASING	Begin pulling out drill steel Casing/well plug welded onto 1st 20 ft of casing & ready to drop		Detergent _____
3:01	8	20'	Water filling casing to sink it		Other _____
3:15	8/14	40'	2nd casing in; Spot welding 3rd section		CREW HOURS
3:33	14/8	40'	Sam finished arch welding #2 to #3 & lowered #3 only about 6'		Driller <u>1</u>
3:38		-START OVER-	TOTAL casing only 46' (day swelled)		Helper <u>1</u>
3:45			need a bigger drill bit Not allowed to work past 4pm * have to come back tomorrow		Helper <u>1</u>

or 8'

CASING →

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____
 Bit 7 7/8" changed at 15' Size 10"
 Bit 10" changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Approved _____

EASY to drive on

1162a

CLIENT: U.S. Geological Survey/ S.C.E.C.

PROJECT: SSIP

CLIENT REP: LIZ ROSE

CASING hole today

Thurs Date: 10/7/10		Hole # 1162a	Rig # 1	Driller: Sam Crum	Supervisor: Fuis
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #
			9am supposed to be (1) start time - late due to Home Depot errands and		1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring
10:30			LIZ & Alex & Alan Pace arrive LATE (Pace left ~ 11:15am) 4 th section of casing is being welded onto the 3 rd		8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig To New Site 12. Maintenance
10:55	14		Casing #4 fell into well... Sam & Vance went out to get something from SW drilling		13. Standby (Explain) 14. Other (Explain)
11:55			Sam & Vance are back, rig fired up; Need to drop a clamp down with section #5 & push them together		15. Logging Yard 16. Water Trip
12:15			Welded outer casing onto section #5 which will drop down onto #4 (see photos & field book pg 7)		MATERIALS USED
12:23			Began lowering #5 into the hole		Mud _____ sacks
12:30			Dropped it to ground level, ~ 5' above ground		LC _____ Type _____
12:56			6 Bags of hole plug used Water pumping out of the hole is clear ∴ need to lock it, bury it, & move on		_____ sacks _____ sacks _____ sacks
1:05	10				Viscose _____ Cement _____ Diesel _____ Foamer _____ Detergent _____ Other _____
					CREW HOURS
					Driller / _____
					Helper / _____
					Helper / _____

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____

Bit 12" changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Approved _____

1168a2
78' 6"
250 lbs

Water?
no'

CLIENT: U.S. Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: LIZ ROSE

Date: Feb 18, 2011		Hole # 1168a2 Rig # 2-6KD		Driller: Sam Crum	Supervisor: Fuis
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
8:30	1/2		waiting for Gabriel to check site, left generator & water trailer at gate, Steve & Joel want to get the shaker from 4011b	1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling	
9:25	1		Talked to Lisa before	5. Pull Pipe	
9:20			All on site - incl. Gabriel now	6. Mix Mud & Fill	
10:15			Moved rig from 4011b	7. Coring	
12:15	4	0'		8. Install Casing/Pipe	
		12'	put on drill collar - ~12'	9. Cementing	
2:00	4	24'	lots of fine sand	10. Rig Down	
2:45	5	78'	~6-8x as much fine sand as coarse sand; doesn't look like there was clay	11. Move Rig To New Site	
2:50	6	CASING	1st section	12. Maintenance	
3:00			2nd section	13. Standby (Explain)	
3:30			3rd section	14. Other (Explain)	
3:40	10	78'	cut off ~6' of casing	15. Logging	
				16. Water Trip	
MATERIALS USED					
			Sand at the bottom & most of drilling (drilled quickly)	Mud _____ sacks	
				LC _____ Type _____	
				_____ sacks	
			Gabriel left at ~2:45? right before we started casing	_____ sacks	
4:55			off site	_____ sacks	
				Viscose _____	
				Cement _____	
				Diesel _____	
				Foamer _____	
				Detergent _____	
				Other _____	
CREW HOURS					
				Driller _____ / _____	
				Helper _____ / _____	
				Helper _____ / _____	

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE 78'
 Bit 7 1/8" changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Approved _____

1172a
 shot size: 2000 lbs
 hole depth: 140'
 casing: 8"

CLIENT: U.S. Geological Survey/ S.C.E.C.
 PROJECT: SSIP
 CLIENT REP: UZ ROSE

Tues. Date: 10/12/10		Hole # 1172a	Rig # 1	Driller: Sam Crum	Supervisor: Fujs
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #
9:45	1		Crew on site: UZ, Sam, Travis, DUSTON, Vance		1. Crew Travel To Site
10:10	16		Sam & Vance go to get water		2. Rig Up
10:12	14		Gabriel arrives, then leaves		3. Reenter Hole
10:23	2				4. Drilling
11:03	4	0			5. Pull Pipe
11:13	4/8	20'	Drill Bit - 20' 4.1" steel		6. Mix Mud & Fill
11:18	4/8	40'	2nd steel added (to drill bit?)		7. Coring
11:24	4/8	60'	3rd steel		8. Install Casing/Pipe
11:26	4	65-75'	Thick clay; Up to now, all clay & fine, thick mud		9. Cementing
11:38	4	80'	Vance's helpers have been unloading/welding casing		10. Rig Down
11:40	8		4th steel (to drill bit?)		11. Move Rig To New Site
11:45	4	100'	5th added		12. Maintenance
11:55	4	120'	Still clay; Has gotten a little sandier		13. Standby (Explain)
12:08	4/8	135'	Add 6th		14. Other (Explain)
12:15	4	140'			15. Logging
12:30	14		Gabriel left		16. Water Trip
12:37	8	CASING	All pipe is out; Sam starts welding cap onto bottom		MATERIALS USED
2:15		140'	casing all in, ~ 1' above ground		Mud _____ sacks
2:19	10		relief		LC _____ Type _____
2:37	14		trailer's stuck in mud - it's very soft out there		_____ sacks
3:00			All off site		_____ sacks
					_____ sacks
					Viscose _____
					Cement _____
					Diesel _____
					Foamer _____
					Detergent _____
					Other _____
					CREW HOURS
					Driller _____ / _____
					Helper _____ / _____
					Helper _____ / _____

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____

Bit 12" changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Approved _____

a bit soft, but not too bad

1180C

Target: 80' 6"

150 lbs!

Pump/Well ~ 320' to SE

Water
~15'

CLIENT: U.S. Geological Survey/ S.C.E.C.

PROJECT: SSIP

CLIENT REP: Liz Rose

Wed. Feb 16, 2011 Hole # 1180C Rig # 2-6KD Driller: Sam Crum Supervisor: Fui's

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
AM 8:40	2		On site w/ rig, shaker, & generator going to get the rest of it	1. Crew Travel To Site
8:53				2. Rig Up
11 AM	4	0'		3. Reenter Hole
				4. Drilling
PM 12:25	5	80'	SAND MOSTLY; fine silty sand at SURFACE	5. Pull Pipe
				6. Mix Mud & Fill
12:35	8	CASING 6	1 st section up	7. Coring
12:41			2 nd section up	8. Install Casing/Pipe
			3 rd	9. Cementing
1:03			4 th	10. Rig Down
1:16		78'	5 th - cut off w/ 9"	11. Move Rig To New Site
				12. Maintenance
			~ 8X as much fine sand as coarse sand in final cuttings (total)	13. Standby (Explain)
			* only took samples of final cuttings	14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
			* Started getting into reddish clay about 1/2 way at the last few feet	Mud <u>2</u> sacks
				LC _____ Type _____
				_____ sacks
				_____ sacks
				_____ sacks
				Viscose _____
				Cement _____
				Diesel _____
				Foamer _____
				Detergent _____
				Other _____
CREW HOURS				
				Driller <u>1</u> _____
				Helper <u>1</u> _____
				Helper <u>1</u> _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE 78'

Bit 7 7/8" changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Approved _____

118ba

Water?

250 lb shot
78' 6" casing

~70 ft

CLIENT: U.S. Geological Survey/ S.C.E.C.

PROJECT: SSIP

CLIENT REP: LIZ ROSE

Tues. 11/23/10

Date: 11/23/10

Hole # 118ba Rig # 1

Driller: Sam Crum

Supervisor: Fuis

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7:40	1			1. Crew Travel To Site
	2			2. Rig Up
9:00	2/16		Refuel, get water, etc.	3. Reenter Hole
9:50	4	0		4. Drilling
				5. Pull Pipe
10:00	8	15'	CLAY	6. Mix Mud & Fill
10:15	8	35'		7. Coring
10:30	8	55'		8. Install Casing/Pipe
10:33	4	60'	Got a lot sandier; coarse sand in very fine sed/clay	9. Cementing
10:45	8	75'		10. Rig Down
10:50	4	80'	~70% sand 30% clay	11. Move Rig To New Site
10:57	5		not much clay/sand from shaker	12. Maintenance
			so we'll definitely need more gravel to fill hole	13. Standby (Explain)
11:10	8	CASING		14. Other (Explain)
11:53	8	78'		15. Logging
12:00	10		took keys back to School District but attached Govt master lock so we'll be able to get in next time	16. Water Trip
	11		Moved rig to SW Drilling yard	
			* Govt Lock on gate in NW corner of property	

MATERIALS USED

- Mud 1 sacks
- LC Type _____
- Hole Plug _____ sacks
- _____ sacks
- _____ sacks

- Viscose _____
- Cement _____
- Diesel _____
- Foamer _____
- Detergent _____
- Other _____

CREW HOURS

- Driller / _____
- Helper / _____
- Helper / _____

78'

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____

Bit 9 7/8" changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Approved _____

loose, silty sand, but not terrible; drove accordingly & didn't get stuck

12000
 Target: 250lbs
 95' 6"

*Water!
 PJ didn't think we hit water

CLIENT: U.S. Geological Survey/ S.C.E.C.
 PROJECT: SSIP
 CLIENT REP: Jiz Rose

Wed. Jan. 26, 2011		Hole # 12006	Rig # 2-6KD	Driller: Sam Crum	Supervisor: Fuis
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #
AM 8:30	1/2		DR. SITE w/ shaker & another trailer Had to get rig, water, casing		1. Crew Travel To Site 2. Rig Up
PM 3:50	2		Everything ready to go; Found that while Hedy left to get casing, all the fuel was siphoned		3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill
	10				7. Coring 8. Install Casing/Pipe 9. Cementing
Thurs. Jan. 27, 2011					
AM 7:30	2				10. Rig Down
8:10	4	0			11. Move Rig To New Site
9:22	12		Rig broke down - had to take fuel injectors out & take to shop??		12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
Fri. Jan 28, 2011					
PM 3:15	4	25'	sand, sand, sand		MATERIALS USED
5:00	4	62'	A lot of finer sand		Mud _____ sacks
7:10		95'	0		LC _____ Type _____
7:30	8	CASING	fuel issues again		_____ sacks
8:50		96'			_____ sacks
Sat. Jan 29, 2011					
AM 7:30	10				Viscose _____
8:00			cut off excess casing		Cement _____
8:40	11		move to 5022a		Diesel _____
			*WIDE HOLE! NEEDS BENTONITE		Foamer _____
					Detergent _____
					Other _____
CREW HOURS					
					Driller _____ / _____
					Helper _____ / _____
					Helper _____ / _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ '
 Bit 7 7/8" changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Approved _____

1205a
 Target: 500 lbs.
 80' 8" casing

Water?
 don't think
 so

CLIENT: U.S. Geological Survey/ S.C.E.C.
 PROJECT: SSIP
 CLIENT REP: Liz Rose

Mon. 11/22/10 Date: 11/22/10 Hole # 1205a Rig # 1 Driller: Sam Crum Supervisor: Fujs

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
AM 10:45	11/2			1. Crew Travel To Site
12:40	16			2. Rig Up
PM 12:52	4	0	Sand; easy drilling	3. Reenter Hole
	8	15'		4. Drilling
1:10	8	35'		5. Pull Pipe
1:25	8	55'	sand	6. Mix Mud & Fill
1:40	12		Waiting for Travis to come back	7. Coring
2:15	4		w/d fuel filter for the rig	8. Install Casing/Pipe
2:20	8	75'		9. Cementing
2:24	4	80'	still sand; med-course	10. Rig Down
2:37	5			11. Move Rig To New Site
2:46	8	CASING		12. Maintenance
3:30	8	80'	everything went well	13. Standby (Explain)
3:35	10			14. Other (Explain)
4:15	11		All off site; moving rig & everything to 1186a	15. Logging
				16. Water Trip
				MATERIALS USED
				Mud 2 sacks
				LC _____ Type _____
				_____ sacks
				_____ sacks
				_____ sacks
				Viscose _____
				Cement _____
				Diesel _____
				Foamer _____
				Detergent _____
				Other _____
				CREW HOURS
				Driller 1
				Helper 1
				Helper 1

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE 80'
 Bit 9 7/8" changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Approved _____

driving is good
 hard-packed dirt

1210a
 target 1000 lb shot
 100' 8" casing ✓

water?
 don't think so

CLIENT: U.S. Geological Survey/ S.C.E.C.
 PROJECT: SSIP
 CLIENT REP: Liz Rose

Date: 11/20/10		Hole # 1210a		Rig # 1	Driller: Sam Crum	Supervisor: Fuis
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #	
(Fri. 11/19)			dropped off 8" casing		1. Crew Travel To Site	
AM 8:00	1		move rig to 1210a. took shaker tire to get fixed; move water trailer		2. Rig Up	
PM 12:55	1b		sam & Travis went to get water from ?		3. Reenter Hole	
1:35	2				4. Drilling	
1:45	4	0			5. Pull Pipe	
2:17	8	15'			6. Mix Mud & Fill	
2:35	8	35'	smooth drilling → sand & small gravel		7. Coring	
2:51	8	55'			8. Install Casing/Pipe	
3:00	4	65'	Boulders/harder drilling		9. Cementing	
3:24	8	75'			10. Rig Down	
4:00	1b	95'	Travis went to fill trailer		11. Move Rig To New Site	
4:10	5				12. Maintenance	
Sun. Nov. 21, 2010						
					13. Standby (Explain)	
PM 1:30	1		morning maintenance/moving equipment		14. Other (Explain)	
1:50	2				15. Logging	
2:24	3/4/16	100'	Travis had to go get more water		16. Water Trip	
2:50	5				MATERIALS USED	
3:20	8	CASING	Travis came back w/water & welder (welder is on the one truck that is still running right)		Mud _____ sacks	
4:28	8	100'			LC _____ Type _____	
	10				_____ sacks	
Mon. 11/22/10						
AM 10:00	11		cleaned up: moved rig, shaker & water trailer after dropping casing off at 1205a & 1206a (8am-10am)		Viscose _____	
12:00	14		off to 1205; All off site at 12pm		Cement _____	
					Diesel _____	
					Foamer _____	
					Detergent _____	
					Other _____	
CREW HOURS						
					Driller / _____	
					Helper / _____	
					Helper / _____	

Footage: FROM _____ TO _____ TOTAL FOOTAGE 100'
 Bit 9 7/8" changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____

Approved _____

Sandy but pretty good;
 rig got a little stuck, not bad

120-11
80'
8'

CLIENT: U.S. Geological Survey/ S.C.E.C.

PROJECT: SSIP

CLIENT REP: *C. S. ...*

Date: 2/27/11		Hole # 122A		Rig # ①	Driller: Sam Crum	Supervisor: G. Fujs	
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #		
10:00			ON SITE		1. Crew Travel To Site		
10:45			FIXING SHAKER		2. Rig Up		
11:20			SETTING UP		3. Reenter Hole		
11:29			TOWER UP FIXING RIG		4. Drilling		
1:54	4	0'	DRILLING		5. Pull Pipe		
1:57	8	15'	1st pipe Added		6. Mix Mud & Fill		
2:02		20'	SAMPLE TAKEN ROCKS & SAND		7. Coring		
2:08	8	35'	2nd pipe Added		8. Install Casing/Pipe		
2:12		40'	SAMPLE TAKEN ROCKS & SAND		9. Cementing		
2:19	8	55'	3rd pipe Added		10. Rig Down		
2:24		60'	SAMPLE TAKEN SAND & ROCKS		11. Move Rig To New Site		
2:32	8	75'	4th pipe Added		12. Maintenance		
2:36		80'	SAMPLE TAKEN SAND & ROCKS		13. Standby (Explain)		
2:40	5		REMOVING PIPE AND DRILL BIT		14. Other (Explain)		
2:50	5		ALL PIPE AND DRILL BIT OUT THE FRONT		15. Logging		
2:52	9		CASING THE HOLE 1st ONE DOWN		16. Water Trip		
2:53	9		2nd CASING added		MATERIALS USED Mud <u>2</u> sacks LC _____ Type _____ _____ sacks _____ sacks _____ sacks Viscose _____ Cement _____ Diesel _____ Foamer _____ Detergent _____ Other _____		
3:03	9		3rd CASING added				
3:16	9		4th CASING added				
3:29	9		DONE CASING HOLE				
						CREW HOURS	
						Driller / _____	
						Helper / _____	
						Helper / _____	

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____

Bit 9 7/8 changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Approved _____

78 feet
250 lbs
6"

CLIENT: U.S. Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Coye Skayday-Criley

Date: 2/25/11		Hole # 12304		Rig # 0	Driller: Sam Crum	Supervisor: G. Fuis	
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #		
12			ON-SITE		1. Crew Travel To Site		
150	4	0'	DRILLING		2. Rig Up		
2:02	8	15'	1st pipe Added		3. Reenter Hole		
3:12		20'	SAMPLE TAKEN SAND ROCKS		4. Drilling		
3:16	8	35'	2nd pipe Added		5. Pull Pipe		
3:21		40'	SAMPLE TAKEN SAND AND ROCKS		6. Mix Mud & Fill		
4:05	8	55'	3rd pipe Added		7. Coring		
4:11		60'	SAMPLE ROCKS & SAND		8. Install Casing/Pipe		
4:29	8	75'	4th pipe Added		9. Cementing		
4:35		78'	SAMPLE TAKEN ROCKS & SAND		10. Rig Down		
4:40	5		REMOVING PIPE AND DRILL BIT		11. Move Rig To New Site		
4:50	5		All PIPE AND DRILL BIT OUT THE GROUND		12. Maintenance		
4:55	8		CASING HOLES 1ST ONE DOWN		13. Standby (Explain)		
4:57	8		2nd CASING added		14. Other (Explain)		
5:07	8		3rd CASING added		15. Logging		
5:20	8		4th CASING added		16. Water Trip		
5:30	8		DONE CASING HOLE				
						MATERIALS USED	
						Mud	sacks
						LC	Type
							sacks
							sacks
							sacks
						Viscose	
						Cement	
						Diesel	
						Foamer	
						Detergent	
						Other	
						CREW HOURS	
						Driller	/
						Helper	/
						Helper	/

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____
 Bit 7 7/8 changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Approved _____

AIR

120' C1 = C2
3000 lb SHOT
2 x 120' holes ✓
8" casing

No Water

CLIENT: U.S. Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: LIZ ROSE

Date: Dec. 2, 2010		Hole # 1234c		Rig # 1	Driller: Sam Crum	Supervisor: Fuis
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #	
pm 2:45	2				1. Crew Travel To Site	
3:00	16		Travis went to Mission Springs water hydrant on Pierson & Windsor		2. Rig Up	
		(C1)			3. Reenter Hole	
3:15	4	0	dry looks like weathered granite		4. Drilling	
4:00	10		leave rig & trailer until tomorrow		5. Pull Pipe	
					6. Mix Mud & Fill	
					7. Coring	
					8. Install Casing/Pipe	
					9. Cementing	
					10. Rig Down	
					11. Move Rig To New Site	
					12. Maintenance	
					13. Standby (Explain)	
					14. Other (Explain)	
					15. Logging	
					16. Water Trip	
Fri. Dec. 3, 2010						
am 7:00	1/2		16' of 8" casing in the hole		MATERIALS USED	
8:00	4		smooth drilling; no cave-ins		Mud _____ sacks	
10:10	4	120'			LC _____ Type _____	
10:20	5				_____ sacks	
10:40		(C2)	moved back against the hill for C2 because his jack in the front couldn't extend enough to balance the rig where it had been staked		_____ sacks	
11:10	4	0			_____ sacks	
12:15	4	40'	only 2' of 8" casing		_____ sacks	
12:38	5	80'	harder rock here than at C1		_____ sacks	
12:48	10	120'	weathered granite		_____ sacks	
1:30	11		off to 6028 b2		_____ sacks	
					Viscose _____	
					Cement _____	
					Diesel _____	
					Foamer _____	
					Detergent _____	
					Other _____	
					CREW HOURS	
					Driller / _____	
					Helper / _____	
					Helper / _____	

*TOTAL casing = 18'
16' in C1 & 2' in C2

240'

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____'
Bit 9 7/8" changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Approved _____
Pretty good dirt/sand road