100 feet
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Cope Sladay + Craig

Water Maybe

Date: 2/2/11 Hole # 3022a Rig # 0 Driller: Sam Crum Supervisor: G. FUIS

TIME	LOG #	FOOTAGE	REMARKS
9am			ON Site
9:30	2		Rig up
9:54	4		Drilling
9:56	12		Stopped Fixed water problem
10:01	4	0'	Drilling again
10:10	12		Fixed Leak ON Rig
10:23	4		Drilling again
10:25	8	15'	1st pipe being added
10:35		20'	Sample taken Sand Rocks Gravel Tan Brown color
10:50	8	35'	2nd pipe added
10:54		40'	Sample taken Sand Rocks Gravel Tan Brown Colored Same as last Hole
11:11	8	55'	3rd pipe added
11:16		60'	Sample take Clay thick Sand Some Rocks Gravel
11:35	8	75'	4th pipe added
11:39		80'	Sample taken Sand Gravel clay like Feeling Some Rocks Sample Same as last one
11:56	8	95'	5th pipe added
12:00	NOON	100'	Sample taken Sand clay Feeling Gravel NOT MANY Rocks Brown tan Colored
12:03	5		All pipe Being pulled
12:11	5		Pipe out The Ground even Bit
12:13	8		Casing Half 1st one down
12:15	8		2nd added
12:25	8		3rd Casing added
12:36	8		4th casing added
12:47	8		5th Casing added
12:58	8		6th Casing added
1:08			DONE Casing Hole
2:15			OFF Site

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud 6 used sacks
LC _____ Type _____
_____ sacks
_____ sacks
_____ sacks
Viscose _____
Cement _____
Diesel
Foamer _____
Detergent _____
Other _____

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 _____

Revised: 21, June 1999 David Delis

100feet
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Kye Stayday - C Riley

Monday
Date: 11/3/11 Hole # 3032A Rig # 1 Driller: Sam Crum Supervisor: G FUIS

TIME	LOG #	FOOTAGE	REMARKS
10:50			ON SITE
11:25			SETTING UP
11:45			TOWER up Rig up
11:55	4	0'	DRILLING
12:24	8	15'	1st pipe added
12:30		20'	Sample taken Rocks & Sand
12:40	8	25	2nd pipe added
12:53		40'	Sample taken Rocks & Sand Same as First Sample
12:55	8	45'	3rd pipe added
1:09		60'	sample taken Rocks & Sand
1:11	8	65'	4th pipe added
1:22		80'	Sample taken Rocks & Sand NO Change
1:24	8	85'	5th pipe added
1:34		100'	Sample taken Rocks & Sand 5 ft at 100 feet For a bit
1:42	5		pulling pipe
1:44	5		2nd pipe out
1:46	5		3rd pipe out
1:48	5		4th pipe out
1:50	5		5th pipe out
1:54	5		Bit out
			NO Cap At Bottom
1:56	8		1st casing added
1:59	8		2nd Casing added
2:09	8		3rd Casing added
2:19	8		4th casing added
2:29	8		5th casing added
2:50	8		Done casing

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud _____ sacks
LC _____ Type _____
_____ sacks
_____ sacks
_____ sacks
Viscose _____
Cement _____
Diesel
Foamer 2 1/2 3G
Detergent _____
Other _____

CREW HOURS

Driller ___ / _____
Helper ___ / _____
Helper ___ / _____

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

Revised: 21, June 1999 David Delis

80 feet
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Cove Slayday - Criley

WATER? Maybe At 80 Feet!

Date: 2/3/11 Hole # 3036A2 Rig # (1) Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
9:45			ONSite
10:11			Setting Up
10:36	4	0'	Drilling
10:48			Fixing A leak
11:18	4	10'	DRilling again
11:21	8	15'	1st pipe added
		20'	sample taken Clay Some Sand Brown Colored little rocks!
11:41	8	35'	2nd pipe added
		40'	Sample taken Clay NOT to Gritty Brown Colored Some ROCKS
11:56	8	55'	3rd pipe added
12:00	NOON	60'	Sample taken Clay brown Some ROCKS tiny ONES Not much
12:06	8	75'	4th pipe added
12:08	16		WATER TRIP
12:10		80'	Sample taken SAND ROCKS the last 5 feet Brown Sand Not much Clay
12:20	5		Removing pipe
12:22	5		2nd pipe out
12:24	5		3rd pipe out
12:26	5		4th pipe out
12:28	5		Bit out
12:31	8		CASING HOLE 1st ONE down
12:54	8		2nd casing added / water on water
1:24	8		3rd casing added
1:36	8		4th casing added
1:46	8		5th casing added
1:57	8		DONE CASING HOLE
2:45			OFF SITE!

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud (Revised) sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

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_____

David Delis

Revised: 21, June 1999

3045 A
80'
6'

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

WATER?

Date: 3/13/11 Hole # 3045A Rig # D Driller: Sam Crum Supervisor: G. Fors

TIME	LOG #	FOOTAGE	REMARKS
2:45			ON SITE
3:01			SETTING UP
3:30	4	0'	DRILLING
3:40	8	15'	1st pipe added
3:43		20'	Sample taken Clay tan
			had to stop for mud temp.
6:21	8	35'	2nd pipe added
6:24		40'	Sample taken Clay tan
6:27	8	55'	3rd pipe added
6:30		60'	SAMPLE TAKEN Clay tan
6:34	8	75'	4th pipe added
6:37		78'	SAMPLE TAKEN
6:40	5		REMOVING pipe and DRILL BIT
6:52	5		pull pipe and DRILL BIT out the Ground.
6:46	8		CASING HOLE IS TONE down
6:51	8		2nd casing added
7:02	8		3rd casing added
7:17	8		4th casing added
7:25	8		DONE CASING HOLE

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

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 _____

Revised: 21, June 1999 David Delis

3048B ⌀ 8 steel casing
1,000 lb w/welded Bottom
100 feet Filled with water!

Water Dep? 80' - 100'

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

PG 1

SAMPLES At 15', 40', 60', 80', 100 Feet

TUE
Date: 12/7/10 Hole # 3048B Rig # (1) Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
2:45			- ON Site
3:31	13		- all set Drill Tomorrow Forgot the right Drill Bit
3:40	14		- Filling up water Jug & Shaker
4:10	14		- OFF Site left For the DAY
WED 12-8-10			
10:40	14		- ON Site - late Due to Broken Suspension on trailer For casing Fixed At Drilling yard Got casing then left
11:25	4	0'	- STARTED DRILLING
11:37	4	15'	- TOOK SAMPLE All clay Brown color Thick like clay
11:42	8		- ADDED FIRST SECTION IN Addition to 18' Drill Bit
11:50	4		- Hit Sticky clay Had to pull out AND CLEAN Drill
12:10	4		- Slow Drilling thick CLAY
12:28	8	35'	- 2nd Section added
12:48	4	40'	- TOOK SAMPLE Thick Stickie Clay Dark Brown some light Clay. HAS TINY SHELLS in it.
1:06	8	53'	- 3rd section Added
1:12	4	60'	- SAMPLE Thick Stickie clay Just a Bit SAnd Not much
1:33	8	73'	- 4th section Added
1:40		80'	- SAmple Some Sand Bits Thick Gridy & SOFT clay
1:48	4	87'	- had to pull out pipe ups Down To clean OF Drill clay Thick
1:53	8	95'	- 5th Section ADDED
2:01	4	100'	SAMPLE - SOFT Clay Thick May Have Drilled Hole to About 105-110 sample At 100'

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud 10 sacks

LC______Type______

______sacks

______sacks

______sacks

Viscose______

Cement______

Diesel______

Foamer______

Detergent______

Other______

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______

Revised: 21, June 1999

David Delis

1,000lb
100' FEET

w/weighted bottom Filled with water!

water Dep?
80'-100' FEET

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Cove Skyday - Crirley

PG 2

Wed
Date: 12-8-10 Hole # 3048B Rig # (1) Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
2:10			CLEANING THE HOLE MOVING DRILL UP & DOWN Making Sure Stays
			THE LAST 10-20 FEET HAD BLUE CLAY
2:25	5		STARTED TO PULL OUT PIPE
		CASING	
2:48	8		STARTED TO CASE THE HOLE
3:10	8		2nd casing down halfway
3:24	8		3rd casing Went Smoth
3:45	8		4th casing Needed a little HELP PUSH Force
3:55	8		5th Casing WENT down good and smot SANK RIGHT IN
4:12	8		6th casing Fell RIGHT in help OF WATER Smoth NO Struggle No Force
4:20			Cutting OF extra CASING
4:45	14		LEFT SITE!
		NOTES	THE LAST 10-20 FEET WAS A Gray BLUE CLAY about 90-100' FEET Hit WATER
		WATER SPRIT	HITE OF WATER That SPIT OUT OF THE HOLE AS PIPE was Coming out was about 9-12 FEET
		water TEMP	WATER temp OF SPIT UP was About 70-80 Degrees

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud 10 sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

CREW HOURS

Driller___/_____
Helper___/_____
Helper___/_____

Footage: FROM _____' TO _____' TOTAL FOOTAGE _____'
Bit 9 3/8 Bit changed at _____' Size_____"
Bit_____ changed at _____' Size_____"
Bit_____ changed at _____' Size_____"

Approved_____

Revised: 21, June 1999 David Delis

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

Date: 1/8/11 Saturday | Hole # 3052b | Rig # 2 | Driller: ~~Sam Crum~~ Sixkiller | Supervisor:

TIME	LOG #	FOOTAGE	REMARKS
7:45			ON Site to pick up
			Glan 1105A
9:30			moved to 3052b Arrived
12:30			OFF Site
			NOTE CAN NOT DRILL ON
			THE weekends or Wednesday
			AL Does Not Want
			His Road Blocked we can
			Come back Tuesday

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

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 ______ changed at ______' Size ______"

Bit ______ changed at ______' Size ______"

Bit ______ changed at ______' Size ______" Approved ______

Revised: 21, June 1999 David Delis

SO5bA
78'
6'
250lbs

WATER NO

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Guy Slayday.cna

Date: 3/12/11 Hole # 305bA Rig # 1 Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
8:15			ON SITE
8:41			TOWER UP
9:03	4	0'	Drilling
9:07	8	15'	1st pipe added
9:10		20'	Sample taken Brown Clay with Sand
9:13	8	35'	2nd pipe added
9:15		40'	Sample taken Clay with SAND Brown
9:21	8	55'	3rd pipe added
9:23		60'	Sample taken clay sand feeling Brown
9:27	8	75'	4th pipe added
9:29		78'	Sample taken Clay Brown Gritty with SAND
9:31	5		Removing pipe
9:40	5		All pipe out the Ground + Bit
10:10	8		CASING Hole 1st one down
10:12	8		2nd Casing added
10:23	8		3rd casing added
10:2?	8		4th casing added
10:??	8		DONE casing three
11 Am			DONE TRAVLING to NEXT SITE WITH CREWS Equipment

LOG REFERENCE #
1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud 3 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____

Revised: 21, June 1999 David Delis

250 lbs
78'
6'

WATER?

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Greg Slayday-Criley

Date: 3/12/11 Hole # 3056A Rig # (1) Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
12:00			ON Site
12:20			SETTING UP
12:27			TOWER UP
12:40	4	0'	DRILLING
12:44	8	15	1st pipe added
12:47		20	SAMPLE TAKEN Clay & Rock
12:50	8	35	2nd pipe added
12:55		40'	SAMPLE TAKEN Clay & Rocks
12:58	8	55	3rd pipe Added
1:01		60'	SAMPLE TAKEN ROCKS & Clay
1:04	8	75'	4th pipe added
1:07		78'	SAMPLE TAKEN ROCKS & Clay.
1:09	5		Removing pipe & Bit
1:20	5		All Pipe and Bit out the Grand
1:31	8		Casing hole 1st one down
137	8		2nd casing added
145	8		3rd casing added
157	8		4th casing added
2:10	8		Done casing the hole!
2:30			MOVING to set up all equipment at Next Site With crew!

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud reused +2 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____

Revised: 21, June 1999 David Delis

3000 ca
250 lbs
78 feet
6 inch

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Coye Slayday Cry

WATER?

Date: ? Hole # 3058 Rig # 1 Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
3:30			ON SITE
3:45			SEttiNG UP
4pm			TOWER UP
4:15	4	0'	DRILLING
4:20	8	15	1st pipe added.
4:35		20'	Sample taken Clay thick
4:45	8	35	2nd pipe added
4:50		40'	Sample taken Clay thick
5:00	8	55	3rd pipe added.
5:05		60'	Sample taken Clay thick
5:07	8	75	4th pipe added.
5:09		78'	Sample taken Clay [illegible]
5:19	5		Removing pipe and bit
5:27	5		all pipe and Drill Bit out the Ground
5:31			
5:41			CASING HOLE 1st ONE down
5:51			2nd CASING added.
6:01			3rd CASING added
6:11			4th CASING added.
6:22			DONE CASING HOLE

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud [illegible] 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 ______________

Revised: 21, June 1999 David Delis

SW046
250lbs
78'
6'

WATER?

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Craig Stayden-Carr

Date: 3/14/11 Hole # SW046 Rig # D Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
			ON SITE
			Setting up
			Tool up
1:13	4	0'	DRILLING
1:17	8	15	1st pipe added
1:20		20'	Sample taken Clay brown fine
1:22	8	35	2nd pipe added
1:24		40'	Sample taken Clay BROWN fine
129	8	55	3rd pipe added
131		60'	Sample taken Clay Brown fine
137	8	75	4th pipe added
		78'	Sample taken
139			
1:42	5		Remaining pipe
1:53	5		All pipe out the Ground
2:14	8		CASING HOLE 1st ONE down
2:16	8		2nd casing added
2:27	8		3rd casing added
2:37	8		4th casing added
2:47	8		DAVID CASING three

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud reused 2 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_____

Revised: 21, June 1999 David Delis

306 7a
250165
78'
6'

WATER

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

Date: 3/13/11 Hole # 306 7a Rig # (1) Driller: Sam Crum Supervisor: GRIFFIS

TIME	LOG #	FOOTAGE	REMARKS
10:20			TOWER UP
11:01	8	0'	DRILLING
11:11	8	15	1st pipe added
11:19		20'	Sample taken Sand Clay Rock
11:27	8	35	2nd pipe added
11:20		40'	Sample taken Sand Rocks Clay
11:29	8	55	3rd pipe added
1131		60'	Sample taken Sand Clay Rocks
11:34	8	75	4th pipe added
11:37		78'	Sample taken Clay Rocks Sand
11:40	5		Removing pipe and DRILLBit
11:50	5		All pipe And DRILL Bit out
12:05	8		CASing HOLE ISTONE down
12:07	8		2nd casing added
12:17	8		3rd casing added
12:26	8		4th casing added
12:31	8		DONE CASing HOLE
1pm			MOVING TO NEXT location With Equipment & Crew.

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud (reused) + 3 sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

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_____

Revised: 21, June 1999 David Delis

OOTOA
78 feet
6 inch

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Cory Stayday-Criley

Date: 2/28/11 Hole # 307BA Rig # 1 Driller: Sam Crum Supervisor: G FULS

TIME	LOG #	FOOTAGE	REMARKS
1pm			ON SITE
130	16		WATER TRIP
145			FILLING UP SHAKER
215			TOWER UP
2:22	4	0'	DRILLING
234	8	15'	1st PIPE Added
239		20'	SAMPLE TAKEN Brown thick Clay
249	8	35'	2nd pipe Added
259		40'	SAMPLE TAKEN thick Clay Brown
309	8	55'	3rd PIPE added
314		60'	SAMPLE TAKEN Brown Clay thick
323	8	75'	4th pipe added
327		78'	SAMPLE TAKEN Clay Brown thick
332	5		REMOVING pipe
347	5		All pipe out the Ground and Bit
403	8		CASING HOLE 1st ONE DOWN
405	8		2nd casing added
414	8		3rd CASING Added
425	8		4th CASING added
436	8		DONE CASING HOLE

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud 5 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 ____

Revised: 21, June 1999 David Delis

3077b
78' 6"

water?

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: ~~None~~ filled out on 12/16 by Liz Rose

Wed. Date: Dec. 15, 2010 Hole # 3077b Rig # 1 Driller: Sam Crum Supervisor: Fuis

TIME	LOG #	FOOTAGE	REMARKS
		Notes from Sam, Travis, & Dustin's memory:	
		•	Rig was set up on site:
		•	Drilled through:
		•	Depth to cracks/when did mud start dropping?
		•	Ft. of casing used

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud ~6 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_____

Revised: 21, June 1999 David Delis

2501b
78feet
6" casing

Water Dep?

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

Tuesday
Date: 12-14-10 Hole # 3077b Rig # 1 Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
1:25			Left to Airport
			Sam and Drillers
			Drilled / Setup 3077b
			Finised it ON
			12-15-10

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

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 ______ changed at ______' Size ____"
Bit ______ changed at ______' Size ____"
Bit ______ changed at ______' Size ____" Approved ______

Revised: 21, June 1999 David Delis

30 17 b
1000lb
100feet
8' casing

75feet
Spletin to
2 Holes!
3079b / 3079b-2

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

pg 1

Date: Monday 12-13-10 Hole # 3079b Rig # 1 Driller: Sam Crum Supervisor: G. Ellis

TIME	LOG #	FOOTAGE	REMARKS
9Am			- I arrive At site
10:20			- Drillers arrive to site they Started Digging hole For Shaker mud One left To get water tralor.
			- Note: Hole was moved
11:00			- Unloded casing At Site 3079b moved casing tralor to 3077b Droped it OFF there went back to 3079b
11:46			- Just Got Back From Droping Casing OFF.
11:50	2 6		- Mixing mud Rigup Just about ready TO Drill
12:08	15		- water truck Showedup
12:26	4	DRiling	Deilling Begins
12:33	8	13'	1st Section OF pipe added to 18 Feet Drill
12:38	12 13		mantanence OF Rig Fixing the Problem
12:44	4		Fixed problem Drilling again
12:46		20'	Sample at 20feet light Brown Sand some pebble Rock Not much
12:58	8	33'	2nd pipe added Somewhat Fast Drilling No problems yet.
12:56			Cleaned OFF Drill Bit.
1:01		40'	- Sample taken Dark Gray Clay No sand Some Rocks Not much
1:08			lots OF Clay Dark Gray Clay
1:30	8	53'	3rd pipe added
1:45	13		Ran out OF mud & water
2:00	4		Drilling again
2:05		60'	Sample taken Dark Gray clay with Some Rocks
2:20			- Notes clay all the clay So Far Not much Rocks Some Sand Just a bit Told to make 2/75 Feet hols.

LOG REFERENCE #
1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED
Mud 7 sacks
LC____ Type____
________ sacks
________ sacks
________ sacks
Viscose____
Cement____
Diesel
Foamer____
Detergent____
Other____

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 ____________

Revised: 21, June 1999
David Delis

50' ID
10000lb
100 FEET
8' casing

75 feet
2 Holes
3079b
3079b-2

Pg (2)

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

Date: Hole # Rig # Driller: Sam Crum Supervisor:

TIME	LOG #	FOOTAGE	REMARKS
2:25	4	65'	Slower Drilling From 65' On to 75' feet
2:41	4	72'	Still 8 or more feet to go Really Clayie Slow Drilling almost to 75 Feet Some Sand & Rock Bits
2:45	4	75'	Reached the end OF the HOLE!
2:47		75'	Sample taken . Dark Brown clay Gravel Rocks Bit Sand
		Removing pipe	
2:50	5		1st one out
2:52	5		2nd pipe out NO problems
2:54	5		3rd pipe out OF the Ground
2:56			All Out Smoth NO problems & Removing Drill bit From Hole
		casing	
3:02	8		1st casing in stalled
3:15	8		2nd down NO problems
3:25	8		3rd casing down Here
3:55	8		All casing down Smoth Welding took most OF the time but NOT to bad NO problem with casing they Just Fell in.
4:01			Moved up 15 feet and over For 2nd Hole 3079b-2
4:40			all set up Drill in the Am OFF Site.

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud 7 sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

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_____

Revised: 21, June 1999 David Delis

30796-2
1000lb
100 feet / 75 feet
8" casing

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

Tuesday
Date: 12-14-10 Hole # 30796-2 Rig # 1 Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
9:15			On site
9:55	2		Drill up
9:37	4		Drilling Begins
9:44	8	15	1st pipe section added to 18 feet Drill Bit.
953		20'	Sample taken Dark Gray clay Smooth.
9:57			Cleaning Drill Bit
10:00	8	35'	2nd pipe added
10:08		40'	Sample taken Clay Dark Brown a little Gravel Rock Bits.
10:15			Cleaning pipe of all clay Drill Bit Moving up & Down
10:23		50'	Drilling slowed down just a little bit thick clay
10:30		55'	3rd Section of Pipe Added
10:50		60'	Sample taken Dark Gray Clay thick Hard some pebbles
11:19		75'	Sample taken Dark Gray wetness Brown clay insided under Dark wet water bit of Sand Not much
11:27	5		pipe Being removed pulled
11:29	5		Drill Bit Being pulled out.
11:35	8		Started to case the Hole 1st one Down
11:45	8		2nd casing in
11:55	8		3rd casing down easy
12:08	8		4th casing in No problems
12:30	8		5th casing in welding took time.
1:45			All packed moved to 30776
2:15			I left site done Filling in Hole leaving to Airport

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud reused sacks
LC______Type______
______sacks
______sacks
______sacks
Viscose______
Cement______
Diesel
Foamer______
Detergent______
Other______

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______

Revised: 21, June 1999 David Delis

80Feet
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Cuyler Slayday - Crilley

Sat
Date: 11/22/11 Hole # 3079c Rig # ① Driller: Sam Crum Supervisor: G. Fuis

TIME	LOG #	FOOTAGE	REMARKS
300pm			ON SITE
3:15			Setting up Rig
3:45	4	0	DRilling
4:11	8	15	1st pipe added
4:45			Removing Pipe & Bit Cleaning Bit OFF Adding pipe again
5pm			OFF SITE
Sun: 11/23/11	Sun 11/23/11	Sun	11/23/11 Sunday 11/23/11 Sun 11/23/11
9am			ON Site
9:11	4	0	DRilling
9:16	8	15	1st pipe added
9:22		20'	Sample taken Clay Sand with Some Gravel Brown Colored
9:22			Cleaning Clay OFF DRill Bit
9:30	8	35'	2nd pipe added
9:35		40'	SAMPLE Same as 1st Sample Clay in bit OF Sand and Gravel Brown Grey Colored.
10:01	8	55'	3rd pipe added
10:07		60'	SAMPLE taken Same as last two
10:46	8	75'	4th pipe Added
10:52		80'	SAMPLE Clay Brown Grey Bit Sand & Gravel
10:55	5		Pulling pipe
11:05	5		all pipe out the Ground
11:10	8		casing Hole
11:11	8		2nd casing added
11:21	8		3rd casing added
11:25	8		4th casing added

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

Mud (reuse) sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

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_____

Revised: 21, June 1999 David Delis

3088b
100feet
1000lbs
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Caye Slayday-Criley

Friday
Date: 1/21/11 Hole # 3088b Rig # (1) Driller: Sam Crum Supervisor: G Fus

TIME	LOG #	FOOTAGE	REMARKS
2:45	16		Water trip
3:00			Setting up Rig
3:40	4	0'	Drilling
3:55	8	15'	1st pipe added
4pm		20'	SAMPLE TAKEN Gravel Rocks and Sand
4:08	8	35'	2nd pipe Added
4:11		40'	Sample taken Rocks Sand and Gravel
4:22			Fixing & putting Fule Pump in
4:29	8		3rd pipe added
4:35			Taking out all pipe Need to Fix Fule pump
5pm			OFF SITE!!
SAT 1/22/11	SAT 1/22/11	SAT	1/22/11 SAT 1/22/11 SAT 1/22/11
8:30			ON SITE Fixing Fule pump
11:10	4		Drilling & Adding pipe 1-3
11:15		60'	SAMPLE taken Rocks & Gravel Some Sand Brown colored
11:29	8	75'	4th pipe added
11:36		80'	SAMPLE taken Rock Sand Gravel Brown Colored
11:55	8	95'	5th pipe added.
12:03		100'	SAMPLE taken Rocks Gravel SAND
12:04	5		Pulling pipe
12:17	5		All pipe out the ground
12:08	8		CASING HOLE 1st ONE in
12:24	8		2nd casing added
12:39	8		3rd casing added
12:47	8		4th casing added
12:59	8		5th casing added.
1:00	8		6th casing added

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

(Mud) 5 sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

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_____

Revised: 21, June 1999 David Delis

2000lbs
140feet
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Cuyeslayday-Crilley

1 OF 2

Thursday
Date: 1/20/11 Hole # 3094A Rig # 10 Driller: Sam Crum Supervisor: G. FUNS

TIME	LOG #	FOOTAGE	REMARKS
12:30			ON SITE
1pm			About All SET UP
1:16	4		DRILLing
1:19	12		FIXing SHAKER
1:24	4		DRILLing AGAIN
1:27	12		Still HAVing problems with Shaker
1:30	4		DRILLing
1:44	8	15	1st pipe added
1:55		20	SAMple taken ROCKS Gravel and Sand
2:20			OUT OF water Stoped DRILLing
			JUST KEEPT Rotating in HOLE
5:20			OFF SITE
1/21/11 FRIDAY		11/21/11	FRIDAY 11/21/11 FRIDAY
8:47			At MAIN OFFICE
9:27			ON SITE
9:51			CHANGED TO HARD ROCK Bit
			CONTINUED DRILLing 5-6' bit length
9:55			1st pipe added.
9:58	4		DRILLing
10:05	8	35	2nd pipe added
10:12		40'	SAMple taken Runny Gravel Sand
10:26	8	46	3rd PIPE Added
10:40		60'	SAMple taken SAND Gravel RUNNY BROWN
10:43	8	65	4th pipe Added
10:56		80	SAMPLE TAKEN ROCKS GRAVEL SAND Runny
10:59	8	85	5th pipe Added

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

LOG REFERENCE #

MATERIALS USED

(Mud) Air ✓ sacks
LC_____ Type_____
_____ sacks
_____ sacks
_____ sacks
Viscose_____
Cement_____
Diesel
Foamer_____
Detergent_____
Other_____

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_____

Revised: 21, June 1999 David Delis

3094A
200lbs
140 feet
8'

CLIENT: U.S.Geological Survey/ S.C.E.C.
PROJECT: SSIP
CLIENT REP: Caye Slgdo - cry

202

Date: 1/21/11 Hole # 3094A Rig # 1 Driller: Sam Crum Supervisor: G. Fu

TIME	LOG #	FOOTAGE	REMARKS
11:19		100'	Sample taken Gravel Sand Rocks Runny 3 times as last few samples
11:26	8	105'	6th pipe added
11:53		120'	Sample taken gry Rocks with Sand
11:58	8	125	7th pipe added
12:24		146	Sample taken Rocks Gry Sand
12:30	5		pulled pipe
12:47	5		All out even Bit

LOG REFERENCE #

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
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

MATERIALS USED

~~Mud~~ Air sacks

LC______Type______

__________sacks

__________sacks

__________sacks

Viscose______

Cement______

Diesel

Foamer______

Detergent______

Other______

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__________

Revised: 21, June 1999 David Delis