



Mailing Address: 1199 West 980 North
 St. George, Utah 84770
 Phone (801) 873-3528

Baltazor DH 45-14 Well
Daily Drilling Reports
Humboldt County: Nevada

CLIENT BRACE
 PROJECT Denio Net
 CLIENT REP. _____

Date: <u>9-20-82</u> Hole#		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
8 11			<u>moved rig & equip</u> <u>to Denio from</u> <u>reinsurance</u> <u>had to make 2</u> <u>trips</u>	1. Crew Travel To Site
9 12				2. Rig Up
10				3. Reenter Hole
11				4. Drilling
12				5. Pull Pipe
1				6. Mix Mud & Fill
2				7. Coring
3				8. Install Casing/Pipe
4				9. Cementing
5				10. Rig Down
6				11. Move Rig to New Site
7				12. Maintenance
8				13. Standby (Explain)
9				14. Other (Explain)
10				15. Logging
11				16. Water Trip
				MATERIALS USED
				Mud _____ sacks
				LC _____ Type _____
				_____ / sacks
				_____ / sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS .
				Driller _____ /
				Helper _____ /
				Helper _____ /
				Helper _____ /
				WATER TRIP MILES -

JD 12
DO 12
BR 10
EL 10
JW 10

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "

D. R. W.

Date: <u>9-21-82</u> Hole#		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7 11			<u>moved rig from</u> <u>Denio w/ Equipment</u> <u>built road & pad</u> <u>Dug one pit &</u> <u>thru up</u>	1. Crew Travel To Site
8 12				2. Rig Up
9 1				3. Reenter Hole
10 2				4. Drilling
11 3				5. Pull Pipe
12 4				6. Mix Mud & Fill
1 5				7. Coring
2 6				8. Install Casing/Pipe
3 7				9. Cementing
4 8				10. Rig Down
5 9				11. Move Rig to New Site
6 10				12. Maintenance
7 11				13. Standby (Explain)
8 12				14. Other (Explain)
9				15. Logging
10				16. Water Trip
				MATERIALS USED
				Mud _____ sacks
				LC _____ Type _____
				_____ / sacks
				_____ / sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS .
				Driller _____ /
				Helper _____ /
				Helper _____ /
				Helper _____ /
				WATER TRIP MILES -

JD 11
DO 11
BR 11
EL 10
JW 10

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT GRACE
 PROJECT Denio Nek
 CLIENT REP. _____

Date: <u>9-22-82</u> Hole# _____		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7 11			<u>Cont to rig up</u>	1. Crew Travel To Site
8 12				2. Rig Up
9 1			<u>Dug 2nd Pit</u>	3. Reenter Hole
10 2				4. Drilling
11 3				5. Pull Pipe
12 4				6. Mix Mud & Fill
1 5				7. Coring
2 6				8. Install Casing/Pipe
3 7				9. Cementing
4 8				10. Rig Down
5 9				11. Move Rig to New Site
6 10				12. Maintenance
7 11				13. Standby (Explain)
8 12				14. Other (Explain)
9 1				15. Logging
10 2				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / _____ sacks				
_____ / _____ sacks				
_____ / _____ sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____ /				
Helper _____ /				
Helper _____ /				
Helper _____ /				
WATER TRIP MILES - _____				

Date: <u>9-23-82</u> Hole# _____		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7 11			<u>finished digging #2</u>	1. Crew Travel To Site
8 12				2. Rig Up
9 1			<u>pit - hauled water</u>	3. Reenter Hole
10 2				4. Drilling
11 3			<u>ripped mud</u>	5. Pull Pipe
12 4				6. Mix Mud & Fill
1 5				7. Coring
2 6				8. Install Casing/Pipe
3 7				9. Cementing
4 8				10. Rig Down
5 9				11. Move Rig to New Site
6 10				12. Maintenance
7 11				13. Standby (Explain)
8 12				14. Other (Explain)
9 1				15. Logging
10 2				16. Water Trip
MATERIALS USED				
Mud <u>30</u> sacks				
LC _____ Type _____				
_____ / _____ sacks				
_____ / _____ sacks				
_____ / _____ sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____ /				
Helper _____ /				
Helper _____ /				
Helper _____ /				
WATER TRIP MILES - <u>70-5 trips</u>				

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "

D.A.W.

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT Creek
 PROJECT Denio New
 CLIENT REP. _____

Date: <u>9-24-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
7 11	6		stirred up mud pits	1. Crew Travel To Site	
8 12			spud in w/ 17 1/2"	2. Rig Up	
9 1			hit - Drilled 36'	3. Reenter Hole	
10 2			bore & cased with 38' of 12 1/4" mixed cement & pumped down outside of casing pilot & installed shewline	4. Drilling	
11 3				5. Pull Pipe	
12 4				6. Mix Mud & Fill	
1 5				7. Coring	
2 6				8. Install Casing/Pipe	
3 7				9. Cementing	
4 8				10. Rig Down	
5 9				11. Move Rig to New Site	
6 10				12. Maintenance	
7 11				13. Standby (Explain)	
8 12				14. Other (Explain)	
9 1				15. Logging	
10 2				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ / _____ sacks	
				_____ / _____ sacks	
				_____ / _____ sacks	
				Viscose _____ / 50 Lb.	
				Cement <u>20</u> / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller _____ / _____	
				Helper _____ / _____	
				Helper _____ / _____	
				Helper _____ / _____	
				WATER TRIP MILES - _____	

Footage: FROM 0 ' TO 41 ' TOTAL FOOTAGE _____ ' AIR _____ MUD ✓ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

D.R.W.

Date:		Hole#	Rig#	Driller:	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ / _____ sacks	
				_____ / _____ sacks	
				_____ / _____ sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller _____ / _____	
				Helper _____ / _____	
				Helper _____ / _____	
				Helper _____ / _____	
				WATER TRIP MILES - _____	

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT GRACE
 PROJECT DENIO NEW
 CLIENT REP. _____

Date: <u>9-25-82</u>		Hole #	Rig # <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	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 <u>20</u> sacks	
				LC _____ Type _____	
			<u>Pick up bottom hole assembly & spacer well stir up pipe</u>	<u>CMC 11</u> sacks	
	<u>14</u>			_____ sacks	
		<u>36'</u>	<u>stir up pipe</u>	_____ sacks	
	<u>4</u>	<u>47'</u>		Viscose _____ / 50 Lb.	
	<u>2</u>		<u>mix mud</u>	Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
	<u>4</u>			Foamer _____ / Gal.	
		<u>66'</u>		Detergent _____ / Gal.	
	<u>6</u>		<u>mix mud - unable to make conn.</u>	Other _____	
	<u>4</u>			CREW HOURS	
		<u>87'</u>		Driller <u>JD 6</u>	
				Helper <u>DD 6</u>	
				Helper <u>DR 6</u>	
				Helper <u>FL 6</u>	
WATER TRIP MILES - _____					

Footage: FROM 36' TO 87' TOTAL FOOTAGE 41 AIR _____ MUD _____ HAMMER _____
 Bit A38558 changed at 36' Size 9 3/4 " FP51T Button
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Form No. 572-

D.R.W.

Date: <u>9-25-82</u>		Hole #	Rig # <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	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 <u>6</u> sacks	
				LC _____ Type _____	
				_____ sacks	
				_____ sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <u>MB 12</u>	
				Helper <u>AS 12</u>	
				Helper <u>DW 12</u>	
				Helper <u>BE 12</u>	
WATER TRIP MILES - _____					

Footage: FROM 87' TO 190' TOTAL FOOTAGE 103 AIR _____ MUD ✓ HAMMER _____
 Bit 7199 changed at _____ Size 9 7/8 " FP52T Button
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Approved _____



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CLIENT GRACE
 PROJECT DENID NEW
 CLIENT REP. _____

Date: <u>9-26-82</u> Hole# _____			Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	<u>4</u>	<u>190</u>		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 <u>6</u> sacks	
				LC _____ Type _____	
				_____ / sacks	
				_____ / sacks	
				_____ / sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <u>JD 12</u>	
				Helper <u>DB 12</u>	
				Helper <u>DB 12</u>	
				Helper <u>EL 12</u>	
				WATER TRIP MILES - _____	

Footage: FROM 190 TO 215 TOTAL FOOTAGE 25 AIR _____ MUD X HAMMER _____

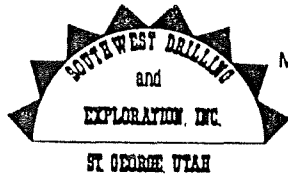
Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

D.R.W.

Date: <u>9/26/82</u> Hole# _____			Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	<u>4</u>	<u>215</u>		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 _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <u>MB 12</u>	
				Helper <u>DB 12</u>	
				Helper <u>DB 12</u>	
				Helper <u>DB 12</u>	
				WATER TRIP MILES - _____	

Footage: FROM 215 TO 280 TOTAL FOOTAGE 63 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"



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CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: 9-27-82 Hole# 45-14 Rig# 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
		280		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
		297		MATERIALS USED Mud <u>17</u> sacks LC _____ Type _____ Bark <u>14</u> sacks _____ / sacks _____ / sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____
	4			
	6	312	lost 1/2 circ, add water & mix mud + LCM	
	7			
	8			
	9	315	insertible to make clean. Circ to cond hole	
	10			
	11		cut - 1/2"	
	12	337		CREW HOURS Driller <u>JD 12</u> Helper <u>BA 12</u> Helper <u>BA 12</u> Helper <u>EL 12</u>
			WATER TRIP MILES -	

Date: 9-27-82 Hole# 45-14 Rig# 11 Driller: MB Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
		337		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
		357		MATERIALS USED Mud <u>6</u> sacks LC _____ Type _____ _____ / sacks _____ / sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____
		377		
		394		CREW HOURS Driller <u>MB 12</u> Helper <u>BA 12</u> Helper <u>JW 12</u> Helper <u>EG 12</u>
			WATER TRIP MILES -	

TEMP
 12 out
 62 68
 63 70
 64 70
 66 70
 68 72

Footage: FROM 280 TO 337 TOTAL FOOTAGE 57 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Footage: FROM 337 TO 394 TOTAL FOOTAGE 67 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: <u>9-28-82</u> Hole#		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>4</u>	<u>394</u>		1. Crew Travel To Site
1	<u>4</u>	<u>397</u>	<u>mix mud</u>	2. Rig Up
2	<u>4</u>			3. Reenter Hole
3				4. Drilling
4				5. Pull Pipe
5	<u>4</u>	<u>407</u>		6. Mix Mud & Fill
6	<u>5</u>		<u>POT to Pick up Stabilizer</u>	7. Coring
7	<u>3</u>		<u>BIT - unable to get stab.</u>	8. Install Casing/Pipe
8	<u>5</u>		<u>in hole</u>	9. Cementing
9	<u>5</u>		<u>POT to Pick up hole opener</u>	10. Rig Down
10	<u>14</u>		<u>make up hole opener</u>	11. Move Rig to New Site
11				12. Maintenance
12				13. Standby (Explain)
1				14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / _____ sacks				
_____ / _____ sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller <u>JD 12</u>				
Helper <u>BO 12</u>				
Helper <u>DB 13</u>				
Helper <u>EG 12</u>				
WATER TRIP MILES - _____				

Footage: FROM 394 TO 407 TOTAL FOOTAGE 13 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Date: <u>9-28-82</u> Hole# <u>415-14</u>		Rig# <u>11</u>	Driller: <u>MBS</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				1. Crew Travel To Site
1				2. Rig Up
2				3. Reenter Hole
3	<u>14</u>		<u>Pressing Hole opens</u>	4. Drilling
4				5. Pull Pipe
5				6. Mix Mud & Fill
6				7. Coring
7				8. Install Casing/Pipe
8				9. Cementing
9				10. Rig Down
10				11. Move Rig to New Site
11				12. Maintenance
12				13. Standby (Explain)
1				14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / _____ sacks				
_____ / _____ sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller <u>MBS 12</u>				
Helper <u>EG 12</u>				
Helper <u>W 12</u>				
Helper <u>EG 12</u>				
WATER TRIP MILES - _____				

Footage: FROM 407 TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"



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CLIENT GRACE
 PROJECT DENIO GET
 CLIENT REP. _____

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
Date: <u>9-30-82</u> Hole# <u>45-14</u> Rig# <u>11</u> Driller: <u>JD</u> Supervisor: <u>DW</u>				
11				1. Crew Travel To Site
12	<u>4</u>	<u>421</u>		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 _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
CREW HOURS				
				Driller <u>JD 12</u>
				Helper <u>DB 12</u>
				Helper <u>DB 12</u>
				Helper <u>EL 12</u>
WATER TRIP MILES - _____				

Footage: FROM 421 TO 442 TOTAL FOOTAGE 21 ' AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
Date: <u>9-30-82</u> Hole# <u>45-14</u> Rig# <u>11</u> Driller: <u>MB</u> Supervisor: <u>DW</u>				
11				1. Crew Travel To Site
12	<u>14</u>		<u>Press Hole opener</u>	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 _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
CREW HOURS				
				Drilled <u>MB 12</u>
				Helper <u>JD 12</u>
				Helper <u>JD 12</u>
				Helper <u>AS</u>
WATER TRIP MILES - _____				

Footage: FROM 442 TO 442 TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "



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CLIENT _____
 PROJECT _____
 CLIENT REP. *Derry Holman*

Date: 10-1-82		Hole#	Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	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 _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <i>JD 12</i>	
				Helper <i>DD 12</i>	
				Helper <i>DA 12</i>	
				Helper <i>EA 12</i>	
				WATER TRIP MILES -	

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

D.W.

Date: 10-1-82		Hole# 45-14	Rig# 11	Driller: MB	Supervisor: [Signature]
TIME	LOG #	FOOTAGE	REMARKS	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 _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <i>MB 12</i>	
				Helper <i>AS 12</i>	
				Helper <i>TH 13</i>	
				Helper <i>EA 12</i>	
				WATER TRIP MILES -	

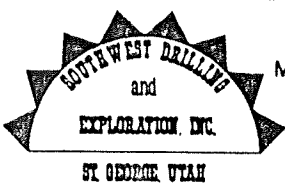
Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____

POH unable to get casing in hole - at 320 ft



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OCT 21 REC'D

CLIENT _____
 PROJECT _____
 CLIENT REP. *Gary Gallan*

Date: 10-2-82		Hole#	Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
			POH - Lay down casing	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	
	5				
	14		Dress hole opener		
	5				
	12		Removed & adjusted rotary head - reinstalled		
	14		adjusted rotary clutch		
	3		A/H w/ drill string		
	14		ream hole		
WATER TRIP MILES -				MATERIALS USED Mud _____ sacks LC _____ Type _____ / _____ sacks / _____ sacks / _____ sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____	
CREW HOURS Driller <i>JD 12</i> Helper <i>DO 12</i> Helper <i>BA 12</i> Helper <i>EL 12</i>					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-

D. K. W.

Date: 10-2-82		Hole# 45-14	Rig# 11	Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
			Ream Hole	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	
	14	303			
	14				
	323				
	6		Mix Mud		
	14				
	343				
WATER TRIP MILES -				MATERIALS USED Mud <i>8</i> sacks LC _____ Type _____ / _____ sacks / _____ sacks / _____ sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____	
CREW HOURS Driller <i>MB 12</i> Helper <i>DO 12</i> Helper <i>BA 12</i> Helper <i>EL 12</i>					

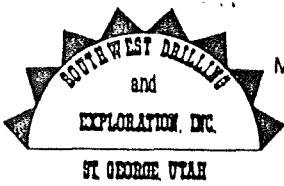
Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Approved _____



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OCT 21 REC'D

CLIENT _____
 PROJECT _____
 CLIENT REP. *Harvey Gollan*

Date: 10-3-82		Hole# 45-14 Rig# 11		Driller: JD Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	6	343	add water & mix mud	2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5	863			7. Coring	
6				8. Install Casing/Pipe	
7			Vis on 45 out 47	9. Cementing	
8			Temp - 60 61	10. Rig Down	
9			mut - 10.6	11. Move Rig to New Site	
10			PH - 8	12. Maintenance	
11	5	403	PGH LDDP	13. Standby (Explain)	
12			water trip - 1	14. Other (Explain)	
1			WATER TRIP MILES - 14	15. Logging	
				16. Water Trip	

Date: 10-3-82		Hole# 45-14 Rig# 11		Driller: MB Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	5		L/D Collars and BHA	2. Rig Up	
1				3. Reenter Hole	
2	8		Run Casing	4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5			Set 19 joints of 9	7. Coring	
6			8 Round 402.65 Ft	8. Install Casing/Pipe	
7	14		W/O cement truck	9. Cementing	
8				10. Rig Down	
9	9		Cement truck on location	11. Move Rig to New Site	
10			Mix cement & pump cement	12. Maintenance	
11	14		in place at 950 ft -	13. Standby (Explain)	
12			with good cement returns	14. Other (Explain)	
1			W/O	15. Logging	
				16. Water Trip	

Footage: FROM 343 ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "

D.P.W.
 Form No. 572-
 Creative Impressions - St. George, Utah - 673-8846

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ " Approved _____



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OCT 21 REC'D

CLIENT _____
 PROJECT Gandy Gatta
 CLIENT REP Gandy Gatta

Date: <u>10-4-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	<u>14</u>		<u>WOC</u>	2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
cut <u>Remove sledge</u> <u>a few big cobbles &</u> <u>cut off casing - weld</u> <u>on well head & install</u> <u>BOP repper up</u>				MATERIALS USED Mud _____ sacks LC _____ Type _____ _____ / _____ sacks _____ / _____ sacks _____ / _____ sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____	
CREW HOURS Driller <u>JD 12</u> Helper <u>DO 12</u> Helper <u>DA 12</u> Helper <u>EH 12</u>					
WATER TRIP MILES - _____					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: <u>10-4-82</u>		Hole# <u>415-14</u>	Rig# <u>11</u>	Driller: <u>MS</u>	Supervisor: <u>PW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
<u>Removed and Reinstalled</u> <u>BOP - to move controls</u>				MATERIALS USED Mud _____ sacks LC _____ Type _____ _____ / _____ sacks _____ / _____ sacks _____ / _____ sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____	
<u>Test BOP -</u> <u>Pressure to 500 LBS</u> <u>BOP fast test mud pump</u> <u>Guage not working correctly</u> <u>(Mud pump Guage losing pres)</u>				CREW HOURS Driller <u>MS 12</u> Helper <u>DA 12</u> Helper <u>EH 12</u>	
<u>Cleaned Mud pits</u> <u>Break down stabilizer and</u> <u>hole agencies</u> <u>Make up killing Assy</u> <u>full stab and 8 3/4 Bit cost</u>					
WATER TRIP MILES - _____					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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OCT 21 REC'D

CLIENT _____
 PROJECT _____
 CLIENT REP. *David Gallen*

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	3		Pick up Drill string & screen hole & taggel cement at 369'	
1				
2	6		thin out & corsh. annul	
3	4		Drill cement - Plug at 383' drilled out above at 402'	
4	14		Drilled back 3 stands pipe - Eng reserve pit & packed water - mud to thick to pump	
5				
6	4		Drilled out rest of cement taggel from formation at 425'	
7	5		POH to change bit RTH w/ 6 1/4" bit	
8	3			
9	4		Drilling	
10	3		POH to change bit 6 1/4" bit 6 1/4" to 6 3/4" get out	
11	14	4483	unload fuel tanks stabilizer & pick up 5' & collar - 165'	
12			water trip - 1	
1			WATER TRIP MILES - 14	

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

- MATERIALS USED
- Mud _____ sacks
 - LC _____ Type _____
 - _____ 1 sacks
 - _____ 1 sacks
 - _____ 1 sacks
 - Viscose _____ / 50 Lb.
 - Cement _____ / 100 Lb.
 - Diesel _____ / Gal.
 - Foamer _____ / Gal.
 - Detergent _____ / Gal.
 - Other _____

- CREW HOURS
- Driller *J.D.*
 - Helper *B.P.*
 - Helper *B.P.*
 - Helper *K.A.*

Footage: FROM _____ TO 450 TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

D.P.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12			Change fuel tanks	
1				
2	3		RTH w/ 6 3/4" bit and stab	
3	14		Ream Hole from 420 to 450	
4	6	450	Mix Mud	
5	4		Drilling	
6				
7				
8	14	470	Checked and cleaned mud pump	
9	4		Drilling	
10			Mud vis 11, 34 out 34	
11			PH 9	
12			WT 10.5	
1				

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

- MATERIALS USED
- Mud 10 sacks
 - LC _____ Type _____
 - _____ 1 sacks
 - _____ 1 sacks
 - _____ 1 sacks
 - Viscose _____ / 50 Lb.
 - Cement _____ / 100 Lb.
 - Diesel _____ / Gal.
 - Foamer _____ / Gal.
 - Detergent _____ / Gal.
 - Other _____

- CREW HOURS
- Driller *M.S.*
 - Helper *S.J.*
 - Helper *M.W.*
 - Helper *S.S.*

Footage: FROM 450 TO 525 TOTAL FOOTAGE 75 AIR _____ MUD ✓ HAMMER _____

Bit WX 298 changed at _____ Size 1 3/4 " J 55

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____" Approved _____



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CLIENT _____
 PROJECT _____
 CLIENT REP. Lindy Gallan

Date: <u>10-6-82</u> Hole# <u>45-14</u> Rig# <u>11</u> Driller: <u>JD</u> Supervisor: <u>D.W.</u>				
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	4	525	Drilling	
		530		
1				
2				
3				
4		550		
5				
6				
7		570		
8				
9				
10				
11		590		
12				
1				
2		607		
WATER TRIP MILES -				

Date: <u>10-6-82</u> Hole# <u>45-14</u> Rig# <u>11</u> Driller: <u>AS</u> Supervisor: <u>D.W.</u>				
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12		607		
		610	Drilling	
1				
2				
3				
4				
5		630		
6				
7				
8				
9				
10				
11				
12		649		
WATER TRIP MILES -				

TEMP
 in out
 77 78
 76 78
 76 78
 73 76

Footage: FROM 525 TO 607 TOTAL FOOTAGE 82 AIR _____ MUD ✓ HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Footage: FROM 607 TO 649 TOTAL FOOTAGE 42 AIR _____ MUD ✓ HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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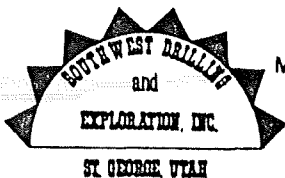
CLIENT _____
 PROJECT Randy Gallan
 CLIENT REP. Randy Gallan

Date: <u>10-7-82</u>		Hole # <u>45-14</u>		Rig # <u>11</u>	Driller: <u>JD</u>	Supervisor: _____
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12		<u>649</u>	<u>Drilling</u>	2. Rig Up		
		<u>650</u>		3. Reenter Hole		
1				4. Drilling		
2				5. Pull Pipe		
3				6. Mix Mud & Fill		
4				7. Coring		
5				8. Install Casing/Pipe		
6				9. Cementing		
7				10. Rig Down		
8				11. Move Rig to New Site		
9				12. Maintenance		
10				13. Standby (Explain)		
11				14. Other (Explain)		
12				15. Logging		
1				16. Water Trip		
POH - changed bit & size - checked rig & serviced Visc 35 out 35 Temp 60 R.H. w/6 1/4 wt 8.7 Drilling PH 11				MATERIALS USED: Mud _____ sacks LC _____ Type _____ _____ sacks _____ sacks _____ sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____		
BHA 6 1/4 6 3/4 bit 5' 2" cut 6" 6 3/4 bit 5' - D.C. 105' total				CREW HOURS: Driller <u>JD 12</u> Helper <u>30 12</u> Helper <u>30 12</u> Helper <u>EL 12</u>		
WATER TRIP MILES - _____				WATER TRIP MILES - _____		

Footage: FROM 649 TO 698 TOTAL FOOTAGE 49 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ ' Size 4 9/16
 Bit _____ changed at _____ ' Size _____
 Bit _____ changed at _____ ' Size _____
 Form No. 572 - Creative Impressions - St. George, Utah - 673-6646

Date: <u>10-7-82</u>		Hole # <u>45-14</u>		Rig # <u>11</u>	Driller: <u>MS</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12		<u>698</u>	<u>Drilling</u>	2. Rig Up		
1				3. Reenter Hole		
2				4. Drilling		
3				5. Pull Pipe		
4				6. Mix Mud & Fill		
5				7. Coring		
6				8. Install Casing/Pipe		
7				9. Cementing		
8				10. Rig Down		
9				11. Move Rig to New Site		
10				12. Maintenance		
11				13. Standby (Explain)		
12				14. Other (Explain)		
1				15. Logging		
1				16. Water Trip		
Visc 113 out 37 Temp 73-80 WT 8.8 PH 11				MATERIALS USED: Mud _____ sacks LC _____ Type _____ _____ sacks _____ sacks _____ sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer <u>5</u> / Gal. Detergent _____ / Gal. Other _____		
BHA 6 1/4 6 3/4 bit 5' 2" cut 6" 6 3/4 bit 5' - D.C. 105' total				CREW HOURS: Driller <u>MS 12</u> Helper <u>MS 12</u> Helper <u>DW 12</u> Helper <u>DW 12</u>		
WATER TRIP MILES - _____				WATER TRIP MILES - _____		

Footage: FROM 698 TO 736 TOTAL FOOTAGE 38 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ ' Size _____
 Bit _____ changed at _____ ' Size _____
 Bit _____ changed at _____ ' Size _____
 Approved _____



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OCT 27 1992

CLIENT _____
PROJECT _____
CLIENT REP Gordy Dallas

Date: <u>10-8-92</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>JD</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	<u>4</u>	<u>736</u>	<u>Drilling</u>	2. Rig Up					
1				3. Reenter Hole					
2				4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8				10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
MATERIALS USED									
5	<u>1</u>	<u>750</u>	<u>PotH</u>	Mud _____ sacks					
6	<u>5</u>		<u>Switch Rig from mud</u>	LC _____ Type _____					
7	<u>14</u>		<u>to air</u>	_____ / sacks					
				_____ / sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
CREW HOURS									
				Driller <u>JD 12</u>					
				Helper <u>BO 12</u>					
				Helper <u>BR 12</u>					
				Helper <u>EL 12</u>					
WATER TRIP MILES -									

Footage: FROM 736 TO 750 TOTAL FOOTAGE 14 ' AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Date: _____		Hole# _____		Rig# _____		Driller: _____		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	<u>3</u>		<u>RTH unload Hole every</u>	2. Rig Up					
1			<u>200 ft Hole making water</u>	3. Reenter Hole					
2	<u>5</u>		<u>300 GPM - unable to operate</u>	4. Drilling					
3	<u>3</u>		<u>Hammer log with 1/2 volume</u>	5. Pull Pipe					
4	<u>14</u>		<u>POH To Change Bit</u>	6. Mix Mud & Fill					
5	<u>6</u>		<u>RTH w/ 6 3/4 BIT</u>	7. Coring					
6			<u>Change Rig back to mud</u>	8. Install Casing/Pipe					
7			<u>Mix mud and case hole</u>	9. Cementing					
8			<u>to condition mud</u>	10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
MATERIALS USED									
5				Mud <u>13</u> sacks					
6				LC _____ Type _____					
7				<u>LCM 13</u> sacks					
8				_____ / sacks					
9				Viscose _____ / 50 Lb.					
10				Cement _____ / 100 Lb.					
11				Diesel _____ / Gal.					
12				Foamer _____ / Gal.					
1				Detergent _____ / Gal.					
2				Other <u>Poly core 5</u>					
CREW HOURS									
				Driller <u>JD 12</u>					
				Helper <u>BO 12</u>					
				Helper <u>BR 12</u>					
				Helper <u>EL 12</u>					
WATER TRIP MILES -									

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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 PROJECT _____
 CLIENT REP. *Randy Galbraith*

TIME	LOG #	FOOTAGE	REMARKS	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 <u>13</u> sacks
				LC _____ Type _____
				_____ 1 sacks
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller <u>JD</u> 12
				Helper <u>BO</u> 12
				Helper <u>BR</u> 12
				Helper <u>EL</u> 12
				WATER TRIP MILES -

Date: *10-9-80* Hole# *45-14* Rig# *11* Driller: *JD* Supervisor: *DW*

REMARKS: *Threading hole to 6 3/4*
mix mud
Threading
POH to change bit
mix mud
BHA w/ new 6 3/4 bit
Drilling
Vis In 38 out 35
Temp 76 82
w/ 8.6
pit 11
BHA
6 3/4 bit
float sub
6 3/4 sub
5 D.C - 105' total

TEMP
 IN OUT
 70 83
 72 83
 76 84
 76 84
 76 84
 80 86
 78 80
 77 86
 74 84
 76 81

TIME	LOG #	FOOTAGE	REMARKS	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 <u>10</u> sacks
				LC _____ Type _____
				_____ 12 sacks
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller <u>MS</u> 12
				Helper <u>TS</u> 12
				Helper <u>TR</u> 12
				Helper <u>BT</u> 12
				WATER TRIP MILES -

Date: *10-9-80* Hole# *45-14* Rig# *11* Driller: *MS* Supervisor: *DW*

REMARKS: *Drilling*
Vis In 38 out 35
Temp 74 81
w/ 8.7
pit 11
Mix mud and LCM
Drilling

TEMP
 IN OUT
 75 81
 79 83
 80 86
 80 86
 84 84
 84 84
 81 81

Footage: FROM 750 TO 781 TOTAL FOOTAGE 31 AIR _____ MUD _____ HAMMER _____
 Bit E82710 changed at _____ Size 6 3/4 " S62J Reed Button
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Footage: FROM 751 TO 851 TOTAL FOOTAGE 100 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____



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CLIENT _____
 PROJECT Lady Rollen
 CLIENT REP Lady Rollen

Date: 10-10-82		Hole# 45-14		Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	4	881	Drilling		2. Rig Up	
1					3. Reenter Hole	
2					4. Drilling	
3-84					5. Pull Pipe	
2		890			6. Mix Mud & Fill	
3					7. Coring	
4					8. Install Casing/Pipe	
5					9. Cementing	
6					10. Rig Down	
7					11. Move Rig to New Site	
8					12. Maintenance	
9					13. Standby (Explain)	
10					14. Other (Explain)	
11					15. Logging	
12					16. Water Trip	
				MATERIALS USED		
				Mud _____ sacks		
				LC _____ Type _____		
				1 _____ sacks		
				1 _____ sacks		
				1 _____ sacks		
				Viscose _____ / 50 Lb.		
				Cement _____ / 100 Lb.		
				Diesel _____ / Gal.		
				Foamer _____ / Gal.		
				Detergent _____ / Gal.		
				Other _____		
				CREW HOURS		
				Driller JD 12		
				Helper BO 12		
				Helper FK 12		
				Helper _____		
				WATER TRIP MILES - 14		

Date: 10-10-82		Hole# 45-14		Rig# 11	Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	4	982	Drilling		2. Rig Up	
1					3. Reenter Hole	
2					4. Drilling	
3					5. Pull Pipe	
4					6. Mix Mud & Fill	
5					7. Coring	
6					8. Install Casing/Pipe	
7					9. Cementing	
8					10. Rig Down	
9					11. Move Rig to New Site	
10					12. Maintenance	
11					13. Standby (Explain)	
12					14. Other (Explain)	
1					15. Logging	
2					16. Water Trip	
				MATERIALS USED		
				Mud _____ sacks		
				LC _____ Type _____		
				1 _____ sacks		
				1 _____ sacks		
				1 _____ sacks		
				Viscose _____ / 50 Lb.		
				Cement _____ / 100 Lb.		
				Diesel _____ / Gal.		
				Foamer _____ / Gal.		
				Detergent _____ / Gal.		
				Other _____		
				CREW HOURS		
				Driller MB 12		
				Helper BO 12		
				Helper FK 12		
				Helper _____		
				WATER TRIP MILES -		

Temp in 100'
 86 90'
 86 90'
 77 83'
 78 85'

Footage: FROM 881 TO 982 TOTAL FOOTAGE 101 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Footage: FROM 982 TO 1018 TOTAL FOOTAGE 36 AIR _____ MUD ✓ HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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 PROJECT Gordy Gollan
 CLIENT REP. Gordy Gollan

Date: <u>10-11-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>JD</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	<u>4</u>	<u>1018</u>	<u>Drilling</u>	2. Rig Up					
1				3. Reenter Hole					
2				4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8				10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
3				MATERIALS USED					
4				Mud <u>8</u> sacks					
5				LC _____ Type _____					
6				<u>Barb</u> <u>11</u> sacks					
7				_____ 1 sacks					
8				_____ 1 sacks					
9				Viscose _____ / 150 Lb.					
10				Cement _____ / 100 Lb.					
11				Diesel _____ / Gal.					
12				Foamer _____ / Gal.					
1				Detergent <u>5</u> / Gal.					
2				Other _____					
3				CREW HOURS					
4				Driller <u>JD</u> <u>12</u>					
5				Helper <u>BO</u> <u>12</u>					
6				Helper <u>BA</u> <u>12</u>					
7				Helper <u>EH</u> <u>12</u>					
8				WATER TRIP MILES -					

Date: <u>10-11-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>AB</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12				2. Rig Up					
1				3. Reenter Hole					
2				4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8				10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
3				MATERIALS USED					
4				Mud _____ sacks					
5				LC _____ Type _____					
6				_____ 1 sacks					
7				_____ 1 sacks					
8				Viscose _____ / 150 Lb.					
9				Cement _____ / 100 Lb.					
10				Diesel _____ / Gal.					
11				Foamer _____ / Gal.					
12				Detergent _____ / Gal.					
1				Other _____					
2				CREW HOURS					
3				Driller <u>AB</u> <u>12</u>					
4				Helper <u>BO</u> <u>12</u>					
5				Helper <u>BA</u> <u>12</u>					
6				Helper <u>EH</u> <u>12</u>					
7				WATER TRIP MILES -					

TEMP: 11 out
 82 50
 84 88
 86 88
 87 90
 88 90
 89 90
 88 90
 86 90
 86 90
 86 90

Footage: FROM 1018 TO 1117 TOTAL FOOTAGE 99 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Form No. 572

Footage: FROM 1117 TO 1228 TOTAL FOOTAGE 111 AIR _____ MUD ✓ HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved



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 CLIENT REP Gordy Gallan

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
				1. Crew Travel To Site
1228	4		Drilling	2. Rig Up
1230				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
1250	12		Value checked in mud pump	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 8 sacks
				LC Type _____
				1 sacks
				1 sacks
				1 sacks
				Viscose 150 Lb.
				Cement 1100 Lb.
				Diesel 1 Gal.
				Foamer 1 Gal.
				Detergent 1 Gal.
				Other _____
				CREW HOURS
				Driller JD 12
				Helper BO 12
				Helper DR 12
				Helper PL 12
				WATER TRIP MILES -

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
				1. Crew Travel To Site
1339	4		Drilling	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 _____
				CMC 14 sacks
				1 sacks
				1 sacks
				Viscose 150 Lb.
				Cement 1100 Lb.
				Diesel 1 Gal.
				Foamer 1 Gal.
				Detergent 1 Gal.
				Other _____
				CREW HOURS
				Driller MS 12
				Helper MS 12
				Helper JW 12
				Helper PL 12
				WATER TRIP MILES -

Footage: FROM 1228 TO 1339 TOTAL FOOTAGE 111 AIR _____ MUD HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"

Footage: FROM 1339 TO 1443 TOTAL FOOTAGE 104 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____" Approved _____



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 PROJECT _____
 CLIENT REP. Dandy Sollen

Date: 10-13-82		Hole# 45-14		Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	4	1483	Drilling		2. Rig Up	
	6	1490			3. Reenter Hole	
941	4		Get down pits to then		4. Drilling	
	13		mud - Drilling plus clay		5. Pull Pipe	
2	4		Drilling		6. Mix Mud & Fill	
			Valve cocked in mud pump		7. Coring	
3			Drilling		8. Install Casing/Pipe	
96		1510			9. Cementing	
4					10. Rig Down	
96		1530			11. Move Rig to New Site	
6	4		Replace Valve section Pump (4)		12. Maintenance	
			VIS IN 3.5 OUT 84		13. Standby (Explain)	
967		1550			14. Other (Explain)	
			Temp 9.3 96		15. Logging	
			wit 9.4		16. Water Trip	
			PH 10			
96	17	1570	Circs to clean BHA		MATERIALS USED	
	5		hole 6 3/4 bit		Mud _____ sacks	
11	12		POH to check float sub-		LC _____ Type _____	
			Pit 6 3/4 stab		/ _____ sacks	
12			Clean pits & 5 DC 105' total		/ _____ sacks	
			go through pump		Viscose _____ / 50 Lb.	
1			WATER TRIP MILES -		Cement _____ / 100 Lb.	

Footage: FROM 1483 TO 1570 TOTAL FOOTAGE 87 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____

Date: 10-13-82		Hole# 45-14		Rig# 11	Driller: MS	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12					2. Rig Up	
					3. Reenter Hole	
1	12		Replace Adjustment Pin		4. Drilling	
			in the mud pump clutch		5. Pull Pipe	
2	14		Replace Valve section		6. Mix Mud & Fill	
			Clean mud pits		7. Coring	
3	3		RIT to 1480 ft		8. Install Casing/Pipe	
4					9. Cementing	
5	6		Mix Mud and LCM		10. Rig Down	
96	4	1570	RIT Drilling		11. Move Rig to New Site	
96	4	1590			12. Maintenance	
			VIS IN 3.4 OUT 30		13. Standby (Explain)	
			Temp 8.8 92		14. Other (Explain)	
			wit 8.8		15. Logging	
			PH 9		16. Water Trip	
10			-BHA-		MATERIALS USED	
			6 3/4 BIT		Mud 23 sacks	
			Float sub		LC 2 Type Eber	
11		1610			Mica 12 sacks	
			6 3/4 stab		CMC 1 1/2 sacks	
			5 DC		Lignit 12 sacks	
			Total 105 ft		Viscose _____ / 50 Lb.	
			WATER TRIP MILES - 14 1 trip		Cement _____ / 100 Lb.	

Footage: FROM 1570 TO 1612 TOTAL FOOTAGE 42 AIR _____ MUD L HAMMER _____

Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____



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 PROJECT _____
 CLIENT REP. Gordy Ballan

Date: 10-14-82		Hole# 45-14		Rig# 11		Driller: J D		Supervisor: D W	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	4	1612	Drilling	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 4 sacks					
				LC _____ Type _____					
				Lignite 1 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent 5 / Gal.					
				Other _____					
				CREW HOURS					
				Driller J D 12					
				Helper B O 12					
				Helper B A 12					
				Helper F L 12					
				WATER TRIP MILES -					

Temp 12
 12 out
 95 95
 90 98
 99 1023
 99 102

Footage: FROM 1612 TO 1722 TOTAL FOOTAGE 110 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Form No. 572-

Date: 10-14-82		Hole# 45-14		Rig# 11		Driller: MB		Supervisor: D W	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	4	1722	Drilling	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 _____					
				CMC 1/2 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller MB 12					
				Helper AS 12					
				Helper JH 12					
				Helper BA 12					
				WATER TRIP MILES -					

Temp 12
 12 out
 95 95
 90 98
 99 1023
 99 102

Footage: FROM 1722 TO 1750 TOTAL FOOTAGE 28 AIR _____ MUD L HAMMER _____
 Bit E 32706 changed at 1750 ' Size 6 3/4" S 625
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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TIME	LOG #	FOOTAGE	REMARKS	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 _____
				Lignite 1 sacks
				Sand 11 sacks
				_____ 1 sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller DA 12
				Helper BO 12
				Helper BA 12
				Helper BH 12
				WATER TRIP MILES - 14 1 trip

Date: 10-15-82 Hole # 45-14 Rig # 11 Driller: JD Supervisor: _____
 Footage: FROM 1750 TO 1767 TOTAL FOOTAGE 17 AIR _____ MUD X HAMMER _____
 Bit FS2706 changed at 1750 Size 6 3/4 " S62J VIS IN 40 OUT 39
 Bit _____ changed at _____ Size _____ " Temp 90 98
 Bit _____ changed at _____ Size _____ " PH 7
 Form No. 672

Temp 111 out 125
 95 105
 96 102
 98 105
 97 105

TIME	LOG #	FOOTAGE	REMARKS	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 _____
				Cmc 1 1/4 sacks
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller BA 12
				Helper TW 12
				Helper BA 12
				Helper BA 12
				WATER TRIP MILES -

Date: 10-15-82 Hole # 45-14 Rig # 11 Driller: MB Supervisor: PW
 Footage: FROM 1767 TO 1804 TOTAL FOOTAGE 37 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____ " 37
 Bit _____ changed at _____ Size _____ "
 Bit _____ changed at _____ Size _____ " Approved _____

VIS IN 42 OUT 39
 Temp 97 108
 PH 8

Drilling

BHA
 6 3/4 Bit
 1/2 sub
 6 3/4 stab
 3 DC
 6 1/2 stab
 2 DC



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CLIENT _____
PROJECT Andy Gallan
CLIENT REP. Andy Gallan

Date: 10-16-82		Hole# 45-15		Rig# 11		Driller: J D		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	4	1804	Drilling	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 _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller J D 12					
				Helper B O 12					
				Helper B A 12					
				Helper E L 12					
				WATER TRIP MILES -					

Date: 10-16-82		Hole# 45-14		Rig# 11		Driller: MS		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	4	1852	Drilling	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 _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller MS					
				Helper B O					
				Helper B A					
				Helper E L					
				WATER TRIP MILES - 42 3 TRIPS					

Footage: FROM 1804 TO 1852 TOTAL FOOTAGE 48 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Footage: FROM 1852 TO 1872 TOTAL FOOTAGE 20 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 10-17-82		Hole # 45-14		Rig # 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	4	1877	Drilling		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	
				45 44	MATERIALS USED	
				2 1/2 IN OUT	Mud	6 sacks
				Temp 98	LC	Type
				wt 9.7		1 sacks
				PH 8		1 sacks
						1 sacks
					Viscose	1 50 Lb.
					Cement	1 100 Lb.
					Diesel	1 Gal.
					Foamer	1 Gal.
					Detergent	1 Gal.
					Other	
					CREW HOURS	
					Driller	JD 12
					Helper	BA 12
					Helper	BA 12
					Helper	BA 12
					WATER TRIP MILES - 14 1 trip	

Date: 10-17-82		Hole # 45-14		Rig # 11	Driller: MS	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12		1903			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	
				103 108	MATERIALS USED	
					Mud	sacks
					LC	Type
						1 sacks
						1 sacks
						1 sacks
					Viscose	1 50 Lb.
					Cement	1 100 Lb.
					Diesel	1 Gal.
					Foamer	1 Gal.
					Detergent	1 Gal.
					Other	
					CREW HOURS	
					Driller	MS 12
					Helper	BA 12
					Helper	BA 12
					Helper	BA 12
					WATER TRIP MILES -	

Footage: FROM 1877 TO 1903 TOTAL FOOTAGE 31 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Footage: FROM 1903 TO 1913 TOTAL FOOTAGE 10 AIR _____ MUD C HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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or 673-4025

CLIENT _____
PROJECT Gordy Gallon
CLIENT REP. Gordy Gallon

Date: <u>10-18-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>JD</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	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 _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller <u>JD</u> 12					
				Helper <u>BO</u> 12					
				Helper <u>BA</u> 12					
				Helper <u>EH</u> 12					
WATER TRIP MILES -									

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit T62783 changed at 1913 ' Size 6 1/2 " HPSMJ Reed

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

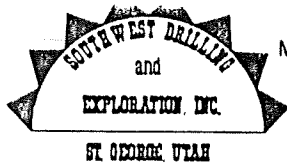
Date: <u>10-18-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>MB</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
				1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. 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 <u>14</u> sacks					
				LC _____ Type _____					
				_____ / _____ sacks					
				_____ / _____ sacks					
				_____ / _____ sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller <u>MB</u> 12					
				Helper <u>AS</u> 12					
				Helper <u>TH</u> 12					
				Helper <u>ST</u> 12					
WATER TRIP MILES -				14 / 1-Trip					

Footage: FROM 1913 ' TO 1954 ' TOTAL FOOTAGE 41 ' AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT Hardy Lellan
CLIENT REP Hardy Lellan

Date: <u>11-19-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: _____
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12	<u>4</u>	<u>1954</u>	<u>Drilling</u>	2. Rig Up		
1				3. Reenter Hole		
2				4. Drilling		
3	<u>3</u>	<u>1974</u>		5. Pull Pipe		
4			<u>UIS-IN 43 OUT 42</u>	6. Mix Mud & Fill		
5			<u>Temp 103 110</u>	7. Coring		
6			<u>wt 9</u>	8. Install Casing/Pipe		
7			<u>PH 7</u>	9. Cementing		
8				10. Rig Down		
9				11. Move Rig to New Site		
10				12. Maintenance		
11	<u>14</u>	<u>1994</u>	<u>BHA</u>	13. Standby (Explain)		
12	<u>5</u>		<u>Circ to clean 6 1/2 Bit</u>	14. Other (Explain)		
1			<u>look for dev. test & float sub</u>	15. Logging		
2			<u>POH for dev. test stab</u>	16. Water Trip		
3			<u>5 3/4" 1 DC</u>			
4			<u>stab</u>			
5			<u>check rig eng oil 2 DC</u>			
6			<u>mix mud stab</u>			
7			<u>add water 7 DC</u>			
8			<u>273' total</u>			
9						
10						
11						
12						
1						

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 _____
CMC 1 sacks
_____ / _____ sacks
_____ / _____ sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller JD 12
Helper DD 12
Helper BN 12
Helper EW 12

WATER TRIP MILES - _____

Footage: FROM 1954 TO 1994 TOTAL FOOTAGE 40 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Date: <u>11-19-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>MS</u>	Supervisor: <u>JD</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12				2. Rig Up		
1				3. Reenter Hole		
2				4. Drilling		
3	<u>3</u>	<u>1994</u>	<u>RHT</u>	5. Pull Pipe		
4	<u>4</u>		<u>Drilling</u>	6. Mix Mud & Fill		
5			<u>UIS-IN 45 OUT 50</u>	7. Coring		
6			<u>Temp 90 111</u>	8. Install Casing/Pipe		
7			<u>wt 9</u>	9. Cementing		
8			<u>PH 8</u>	10. Rig Down		
9				11. Move Rig to New Site		
10				12. Maintenance		
11				13. Standby (Explain)		
12				14. Other (Explain)		
1				15. Logging		
2				16. Water Trip		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
1						

TEMP in/out
95 103
95 110
95 110

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
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller MS 12
Helper DD 12
Helper BN 12
Helper EW 12

WATER TRIP MILES - _____

Footage: FROM 1994 TO 2034 TOTAL FOOTAGE 440 AIR _____ MUD 1 HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"



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CLIENT _____
PROJECT _____
CLIENT REP. *Gary Golan*

Date: 11-20-82		Hole# 45-14 Rig# 11		Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
11-22	4	2088	Drilling	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 _____	
				Cement _____ sacks	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller JD 12	
				Helper BO 12	
				Helper BA 12	
				Helper EK 12	
				WATER TRIP MILES -	
				Footage: FROM 2038 TO 2081 TOTAL FOOTAGE 47 AIR _____ MUD X HAMMER _____	

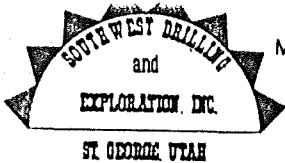
TEMP in out 98 114
104 115
104 114
106 116
108

Date: 10-20-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
11-22		2085	Drilling	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 _____	
				Cement _____ sacks	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller MB 12	
				Helper BO 12	
				Helper BA 12	
				Helper EK 12	
				WATER TRIP MILES -	
				Footage: FROM 2085 TO 2132 TOTAL FOOTAGE 47 AIR _____ MUD ✓ HAMMER _____	

Vis in HD out 41
Temp 104" 116"
WT 9.6
PH 9

Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"

Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"



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or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP. Judy Gallon

Date: <u>10-21-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>Oil</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
10-19	4	2132	Drilling		2. Rig Up	
		2134	adding water to keep vis down		3. Reenter Hole	
1					4. Drilling	
2					5. Pull Pipe	
3					6. Mix Mud & Fill	
0-20					7. Coring	
4					8. Install Casing/Pipe	
5					9. Cementing	
6					10. Rig Down	
7					11. Move Rig to New Site	
8					12. Maintenance	
9					13. Standby (Explain)	
10					14. Other (Explain)	
11					15. Logging	
12					16. Water Trip	
1					MATERIALS USED	
					Mud <u>5</u> sacks	
					LC _____ Type _____	
					Sack <u>1</u> sacks	
					_____ / sacks	
					_____ / sacks	
					Viscose _____ / 50 Lb.	
					Cement _____ / 100 Lb.	
					Diesel _____ / Gal.	
					Foamer _____ / Gal.	
					Detergent _____ / Gal.	
					Other _____	
					CREW HOURS	
					Driller <u>JD 12</u>	
					Helper <u>DD 12</u>	
					Helper <u>BR 12</u>	
					Helper <u>EL 12</u>	
					WATER TRIP MILES - <u>4.2 - 3 Trips</u>	

Footage: FROM 2132 TO 2184 TOTAL FOOTAGE 52 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: <u>10-21-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12					2. Rig Up	
1					3. Reenter Hole	
2					4. Drilling	
3					5. Pull Pipe	
4					6. Mix Mud & Fill	
5					7. Coring	
6					8. Install Casing/Pipe	
7					9. Cementing	
8					10. Rig Down	
9					11. Move Rig to New Site	
10					12. Maintenance	
11					13. Standby (Explain)	
12					14. Other (Explain)	
1					15. Logging	
					16. Water Trip	
					MATERIALS USED	
					Mud <u>10</u> sacks	
					LC _____ Type _____	
					Sack _____ sacks	
					_____ / sacks	
					_____ / sacks	
					Viscose _____ / 50 Lb.	
					Cement _____ / 100 Lb.	
					Diesel _____ / Gal.	
					Foamer _____ / Gal.	
					Detergent _____ / Gal.	
					Other _____	
					CREW HOURS	
					Driller <u>MB 12</u>	
					Helper <u>DD 12</u>	
					Helper <u>BR 12</u>	
					Helper <u>EL 12</u>	
					WATER TRIP MILES - _____	

Footage: FROM 2184 TO 2184 TOTAL FOOTAGE -0- AIR _____ MUD _____ HAMMER _____

Bit 163900 changed at 2184 ' Size 6 1/2 " HPSM J

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP Garry Kaldan

Date: <u>10-22-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12					2. Rig Up	
	3		BH		3. Reenter Hole	
1					4. Drilling	
					5. Pull Pipe	
2	6				6. Mix Mud & Fill	
					7. Coring	
					8. Install Casing/Pipe	
					9. Cementing	
					10. Rig Down	
					11. Move Rig to New Site	
					12. Maintenance	
3			Drake Core 200' off bottom		13. Standby (Explain)	
			Core to mix & load mud.		14. Other (Explain)	
	5		BH-10' fill VIS-IN 45 OUT 40		15. Logging	
4			Bottom up temp 104 110		16. Water Trip	
	4	2184	temp -104 wt 8		MATERIALS USED	
5			Drilling PH 8		Mud 18 sacks	
6			Back-4		LC _____ Type _____	
7		2194			Lignite 11 sacks	
	6		add water + BHA		Lash 11 sacks	
	4		mix mud. 6 1/2 BIT		CMC 11 sacks	
8			Drilling 4 load sub		Viscose / 50 Lb.	
9		2206	hole using 1 stab		Cement / 100 Lb.	
	6		fluid - add 1 DC		Diesel / Gal.	
	4		water & mix 1 stab		Foamer / Gal.	
10			mix of LCM 2 DC		Detergent / Gal.	
11		2214	Drilling 1 stab		Other _____	
			7 DC		CREW HOURS	
12		2218	273' total		Driller <u>JD 12</u>	
					Helper <u>BO 12</u>	
					Helper <u>DK 12</u>	
					Helper <u>EL 12</u>	
			WATER TRIP MILES - 14 1 trip			

Footage: FROM 2184 TO 2218 TOTAL FOOTAGE 34 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Date: <u>10-22-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12					2. Rig Up	
		2218			3. Reenter Hole	
	4		Drilling		4. Drilling	
1					5. Pull Pipe	
					6. Mix Mud & Fill	
2					7. Coring	
					8. Install Casing/Pipe	
					9. Cementing	
					10. Rig Down	
					11. Move Rig to New Site	
					12. Maintenance	
					13. Standby (Explain)	
3					14. Other (Explain)	
					15. Logging	
					16. Water Trip	
4					MATERIALS USED	
5					Mud 6 sacks	
6					LC _____ Type _____	
7					Coal Lignite 1 sacks	
					CMC 14 sacks	
					_____ 1 sacks	
					Viscose / 50 Lb.	
8					Cement / 100 Lb.	
9					Diesel / Gal.	
					Foamer / Gal.	
					Detergent / Gal.	
10					Other _____	
					CREW HOURS	
					Driller <u>MB 12</u>	
					Helper <u>EG 12</u>	
					Helper <u>DK 12</u>	
					Helper <u>EL 12</u>	
					WATER TRIP MILES -	

Footage: FROM 2218 TO 2268 TOTAL FOOTAGE 50 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"



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CLIENT _____
PROJECT G. J. Hall
CLIENT REP. G. J. Hall

Date: 10-23-82 Hole # 45-14 Rig # 11 Driller: J.D. Supervisor: D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
	4	2268	Drilling	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
		2274		
			VIS-IN OUT Temp 104 120 WT 9.3 PH 9	
	6	2284	mid mud	MATERIALS USED Mud 2 sacks LC _____ Type _____ Signite 1 sacks _____ 1 sacks _____ 1 sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____
	4		Drilling	
	24		Line to clean hole from	
	14	2300	Dev. Test. BHA	
	15		Run Dev tool 6 1/2 Bit	
	4	2314	with wire line 5' lost sub drilling 2 1/4" 1 stab	
			1 DC	
			1 stab	
		2325	2 DC	
			1 stab	
			7 DC 273' T	
WATER TRIP MILES -				CREW HOURS Driller <u>J.D. 12</u> Helper <u>B.O. 12</u> Helper <u>B.R. 12</u> Helper <u>F.L. 12</u>

Temp in pipe 103
121

95 122

112 122

114 122

84 123

Footage: FROM 2268 TO 2325 TOTAL FOOTAGE 57 AIR _____ MUD X HAMMER _____
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Date: 10-23-82 Hole # 45-14 Rig # 11 Driller: MB Supervisor: D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
	4	2325	Drilling	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
		2334		
			VIS IN 34 OUT 46 Temp 114 120 WT 9.4 PH 9	
	6	2354	Mix mud & checked mud - checked valve	MATERIALS USED Mud 6 sacks LC _____ Type _____ Cem Type 1 sacks CMC 1 1/4 sacks _____ 1 sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____
	4			
	12		BHA	
			6 1/2 Bit	
			7 1/2 sub	
			1 stab	
			1 DC	
			1 stab	
			2 DC	
			1 stab	
			7 DC 273 total	
WATER TRIP MILES - <u>14</u> - 1 Trip				CREW HOURS Driller <u>MB 12</u> Helper <u>_____ 12</u> Helper <u>_____ 12</u> Helper <u>_____ 12</u>

Footage: FROM 2325 TO 2335 TOTAL FOOTAGE 50 AIR _____ MUD _____ HAMMER _____
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
_____ changed at _____ ' Size _____" Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. Gordon Mallon

Date: 10-24-82		Hole# 45-14 Rig# 11		Driller: JD Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	10	2375	Repair Pump clutch globe	2. Rig Up	
1	4		Drilling	3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
VLS-IN 42 OUT 40 w/ 108 12.4 WT 9.3 PH 9				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
6		2394		Lignite 11 sacks	
7				_____ sacks	
8				_____ sacks	
9				Viscose _____ / 50 Lb.	
10				Cement _____ / 100 Lb.	
11				Diesel _____ / Gal.	
12				Foamer _____ / Gal.	
1				Detergent _____ / Gal.	
2				Other _____	
DHA 6 1/2 Bit 7-1/2 sub 1 stab				CREW HOURS	
10				Driller JD 12	
11	14	2400	Circ to clean hole for dev test	Helper BR 12	
12	4	2412	Run Dev Tool 20' with wire line	Helper BR 12	
1			Drilling	Helper BR 12	
WATER TRIP MILES - 700-273 T					

Footage: FROM 2375 TO 2412 TOTAL FOOTAGE 37 AIR _____ MUD A HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: 10-24-82		Hole# 45-14 Rig# 11		Driller: MB Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12		2412		2. Rig Up	
1		2414	Drilling	3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
VLS IN 46 OUT 44 Temp 90 131 WT 9.4 PH 9				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
6		2434		Coke 1 1/2 sacks	
7				Coke Lignite _____ sacks	
8				_____ sacks	
9				Viscose _____ / 50 Lb.	
10				Cement _____ / 100 Lb.	
11				Diesel _____ / Gal.	
12				Foamer _____ / Gal.	
1				Detergent _____ / Gal.	
2				Other _____	
BHA 6 1/2 Bit 7 1/2 sub 1 stab				CREW HOURS	
10	6	2454	Mix Mud	Driller MB 12	
11	4			Helper BR 12	
12				Helper BR 12	
WATER TRIP MILES - 273' total					

Footage: FROM 2412 TO 2462 TOTAL FOOTAGE 50 AIR _____ MUD C HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. Gordy Gallon

Date: <u>10-25-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>JD</u>		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	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 _____					
				Zig-zag _____ sacks					
				_____ sacks					
				_____ sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller <u>JD 12</u>					
				Helper <u>BO 2</u>					
				Helper <u>DA 2</u>					
				Helper <u>FL 2</u>					
				WATER TRIP MILES - _____					

Date: <u>10-25-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>MB</u>		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	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 _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller <u>MB 12</u>					
				Helper <u>BS 12</u>					
				Helper <u>DA 12</u>					
				Helper <u>FL 12</u>					
				WATER TRIP MILES - _____					

TEMP
111 out
108 130

116 132

Footage: FROM 2462 TO 2513 TOTAL FOOTAGE 51 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Footage: FROM 2513 TO 2529 TOTAL FOOTAGE 16 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____" Approved _____



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CLIENT _____
 PROJECT _____
 CLIENT REP. Gordy Gallan

Date: 10-26-82		Hole# 45-14		Rig# 11		Driller: JO		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS			LOG REFERENCE #			
11						1. Crew Travel To Site			
12	5		POH - Dev tool in drill string shows 5° Dev.			2. Rig Up			
1						3. Reenter Hole			
2	12		Brisk clutch slipping at 20,000 lbs. - checked - cleaned & reinstalled clutch control valve - checked clutch for adjustment and checked air bleets			4. Drilling			
3						5. Pull Pipe			
4						6. Mix Mud & Fill			
5						7. Coring			
6						8. Install Casing/Pipe			
7						9. Cementing			
8	6		Cleaned both pits filled with fresh water and cleaned up 3rd pit & mixed mud			10. Rig Down			
9						11. Move Rig to New Site			
10						12. Maintenance			
11						13. Standby (Explain)			
12						14. Other (Explain)			
						15. Logging			
						16. Water Trip			
MATERIALS USED									
Mud 46 sacks									
LC _____ Type _____									
CMC 100 50b sacks									
Soda Ash 12 sacks									
_____ 1 sacks									
Viscose / 50 Lb.									
Cement / 100 Lb.									
Diesel / Gal.									
Foamer / Gal.									
Detergent / Gal.									
Other _____									
CREW HOURS									
Driller JO 12.									
Helper DW 12.									
Helper DW 12.									
Helper EL 12.									
WATER TRIP MILES - _____									

Date: 10-26-82		Hole# 45-14		Rig# 11		Driller: MB		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS			LOG REFERENCE #			
11						1. Crew Travel To Site			
12						2. Rig Up			
1						3. Reenter Hole			
2						4. Drilling			
3	14		Change BHT on Rig. Replace tie line on screw works. Check gear boxes.			5. Pull Pipe			
4	5		Pick up BHA			6. Mix Mud & Fill			
5			RTH			7. Coring			
6						8. Install Casing/Pipe			
7	6		Mix mud			9. Cementing			
8	12		Add water to BHA pits. Unable to lift BHA pipe off slips 1/2" at 40,000 lbs. 7ft sub string wt 1 stab			10. Rig Down			
9						11. Move Rig to New Site			
10						12. Maintenance			
11						13. Standby (Explain)			
12						14. Other (Explain)			
						15. Logging			
						16. Water Trip			
MATERIALS USED									
Mud 15 sacks									
LC _____ Type _____									
_____ 1 sacks									
_____ 1 sacks									
_____ 1 sacks									
Viscose / 50 Lb.									
Cement / 100 Lb.									
Diesel / Gal.									
Foamer / Gal.									
Detergent / Gal.									
Other _____									
CREW HOURS									
Driller MB 12									
Helper MB 12									
Helper JW 12									
Helper BR 12									
WATER TRIP MILES - _____									

Temp in ice

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "

Footage: FROM 2509 TO 2529 TOTAL FOOTAGE 0 ' AIR _____ MUD _____ HAMMER _____
 Bit W4237 changed at 2529 ' Size 6 1/2" J33
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ " Approved _____



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PROJECT _____

CLIENT REP. Gordy Gallan

Date: 10-28-82		Hole# 45-14		Rig# 11		Driller: J.D.		Supervisor: D.W.	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	5		POH to pick up 8 5/8 hole opener.	2. Rig Up					
1				3. Reenter Hole					
2	475		make up hole opener & 1 1/4".	4. Drilling					
3				5. Pull Pipe					
4	6		water pits & mud mud.	6. Mix Mud & Fill					
5	475		opening hole to 8 5/8	7. Coring					
6	496			8. Install Casing/Pipe					
7	516			9. Cementing					
8	536			10. Rig Down					
9	556			11. Move Rig to New Site					
10	576			12. Maintenance					
11	596			13. Standby (Explain)					
12	616			14. Other (Explain)					
1	636			15. Logging					
2	656			16. Water Trip					
3	676			MATERIALS USED					
4	696			Mud 10 sacks					
5	716			LC _____ Type _____					
6				S. Ash 1 sacks					
7				_____ 1 sacks					
8				_____ 1 sacks					
9				Viscose 150 Lb.					
10				Cement 100 Lb.					
11				Diesel 1 Gal.					
12				Foamer 1 Gal.					
1				Detergent 1 Gal.					
2				Other _____					
3				CREW HOURS					
4				Driller J.D. 12					
5				Helper B.O. 12					
6				Helper B.R. 12					
7				Helper _____ 1					
8				WATER TRIP MILES -					

Footage: FROM 475 TO 716 TOTAL FOOTAGE 241 AIR _____ MUD HAMMER _____

Bit 1 1/2" hole opener changed at _____ Size 8 5/8"

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Date: 10-28-82		Hole# 45-14		Rig# 11		Driller: M.B.		Supervisor: D.W.	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12		716	opening hole to 8 5/8	2. Rig Up					
1				3. Reenter Hole					
2		736		4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8				10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
3				MATERIALS USED					
4				Mud _____ sacks					
5				LC _____ Type _____					
6				_____ 1 sacks					
7				_____ 1 sacks					
8				Viscose 150 Lb.					
9				Cement 100 Lb.					
10				Diesel 1 Gal.					
11				Foamer 1 Gal.					
12				Detergent 1 Gal.					
1				Other _____					
2				CREW HOURS					
3				Driller M.B. 12					
4				Helper K.S. 12					
5				Helper J.M. 12					
6				Helper D.H. 12					
7				WATER TRIP MILES -					

Footage: FROM 716 TO 758 TOTAL FOOTAGE 42 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Approved _____



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CLIENT _____

PROJECT _____

CLIENT REP. _____

Date: 10-29-82 Hole# 45-14 Rig# 11 Driller: J.D. Supervisor: D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	<u>7</u>	<u>758</u>		2. Rig Up
				3. Reenter Hole
				4. Drilling
1				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
2				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
3				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
4				16. Water Trip
MATERIALS USED				
5			Mud <u>4</u> sacks	
			LC _____ Type _____	
6			/ sacks	
			/ sacks	
7		<u>776</u>	/ sacks	
			/ sacks	
			Viscose / 50 Lb.	
8			Cement / 100 Lb.	
			Diesel / Gal.	
9			Foamer / Gal.	
			Detergent / Gal.	
10			Other _____	
CREW HOURS:				
11			Driller <u>J.D. 12</u>	
12			Helper <u>B.O. 12</u>	
			Helper <u>O.R. 12</u>	
			Helper <u>1</u>	
WATER TRIP MILES -				

Footage: FROM 758 TO 784 TOTAL FOOTAGE 38 ' AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: 10-29-82 Hole# 45-14 Rig# 11 Driller: M.B. Supervisor: P.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	<u>7</u>	<u>786</u>		2. Rig Up
				3. Reenter Hole
				4. Drilling
1				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
2				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
3				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
4				16. Water Trip
MATERIALS USED				
5			Mud _____ sacks	
			LC _____ Type _____	
6			/ sacks	
			/ sacks	
7			/ sacks	
			/ sacks	
			Viscose / 50 Lb.	
8		<u>796</u>	Cement / 100 Lb.	
			Diesel / Gal.	
9			Foamer / Gal.	
			Detergent / Gal.	
10			Other _____	
CREW HOURS:				
11			Driller <u>M.B. 12</u>	
12			Helper <u>B.S. 12</u>	
			Helper <u>M.A. 12</u>	
			Helper <u>M.H. 12</u>	
WATER TRIP MILES -				

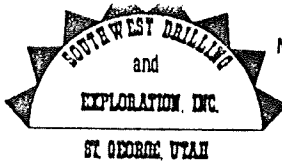
Footage: FROM 786 TO 796 TOTAL FOOTAGE 10 ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 10-30-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
7 11				1. Crew Travel To Site	
3 12	14		LODP	2. Rig Up	
1 1			Pick up and load Equip	3. Reenter Hole	
10 2				4. Drilling	
11 3				5. Pull Pipe	
12 4				6. Mix Mud & Fill	
1 5				7. Coring	
1 6				8. Install Casing/Pipe	
3 7				9. Cementing	
4 8				10. Rig Down	
5 9				11. Move Rig to New Site	
10 10				12. Maintenance	
11 11				13. Standby (Explain)	
12 12				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud	sacks
				LC	Type _____
					/ sacks
					/ sacks
					/ sacks
				Viscose	/ 50 Lb.
				Cement	/ 100 Lb.
				Diesel	/ Gal.
				Foamer	/ Gal.
				Detergent	/ Gal.
				Other	_____
				CREW HOURS	
				Driller	/
				Helper	/
				Helper	/
				Helper	/
				WATER TRIP MILES -	

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: 10-31-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11 11				1. Crew Travel To Site	
8 12				2. Rig Up	
9 1				3. Reenter Hole	
10 2			Logging Hole	4. Drilling	
11 3	15			5. Pull Pipe	
12 4			6-1/2 hrs	6. Mix Mud & Fill	
1 5				7. Coring	
2 6				8. Install Casing/Pipe	
3 7				9. Cementing	
4 8				10. Rig Down	
5 9				11. Move Rig to New Site	
6 10				12. Maintenance	
11 11				13. Standby (Explain)	
12 12				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud	sacks
				LC	Type _____
					/ sacks
					/ sacks
					/ sacks
				Viscose	/ 50 Lb.
				Cement	/ 100 Lb.
				Diesel	/ Gal.
				Foamer	/ Gal.
				Detergent	/ Gal.
				Other	_____
				CREW HOURS	
				Driller	/
				Helper	/
				Helper	/
				Helper	/
				WATER TRIP MILES -	

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: <u>11-1-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>MBS</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11									
8									
9	10		Rig Down						
10									
11	11		Move Rig to Penio Junction						
12									
1									
2	14		Remove Mud from pits						
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
1									

Date:		Hole#		Rig#		Driller:		Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11									
12									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
1									

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____