

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Linn Energy	Contact	Gary Wink
Address	2130 W. Bender Blvd., Hobbs, NM	Telephone No.	(575) 738-1739 ext. 1218
Facility Name	Caprock Maljamar Unit #98	Facility Type	Injection Well
Surface Owner	State Lease Angell	Mineral Owner	State of NM
		Lease No.	30-025-01525

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	28	17S	33E	709	FSL	926	FWL	Lea

Latitude 32°48'0.745"N Longitude 103°40'25.7"W

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	Unknown	Volume Recovered	Unknown
Source of Release	Fiberglass Line	Date and Hour of Occurrence	5/1/2012	Date and Hour of Discovery	5/1/2012
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking		
By Whom?	Gary Wink	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Fiberglass line ruptured. The line was excavated out and repaired with a flange. The flange failed, and the damaged line was replaced with a new joint.

Describe Area Affected and Cleanup Action Taken.*

The leak affected approximately 6,700 square feet of pasture land. The impacted area was delineated and representative soil samples were sent to a commercial laboratory for chloride and TPH confirmation. Impacted soils were excavated into the root zone and removed to a NMOCD approved disposal facility. A 20 mil reinforced liner was placed in the excavation bottom. The excavation was backfilled with clean imported soil and contoured to the surrounding area. The site will be seeded with a natural vegetative blend.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	<i>Gary W. Wink</i>	OIL CONSERVATION DIVISION	
Printed Name:	Gary Wink	Approved by	<i>Geoffrey Leking</i> District Supervisor
Title:	Production Foreman	Approval Date:	9/21/12
E-mail Address:	gawink@linenergy.com	Expiration Date:	-
Date:	Phone: (575) 738-1739 ext. 1218	Conditions of Approval:	-
		Attached	<input type="checkbox"/>
		IRP-9-12-2848	

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company	Linn Operating	Contact	Gary Wink
Address	2130 W. Bender Blvd.	Telephone No.	(575) 738-1739 ext. 1218
Facility Name	Caprock Maljamar Unit #98	Facility Type	Injection Well
Surface Owner	State lease Angell	Mineral Owner	State of NM
		Lease No.	30-025-01525

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	28	17S	33E	709	FSL	926	FWL	Lea County

Latitude 32°48'0.745"N Longitude 103°40'25.7"W

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	Unknown	Volume Recovered	Unknown
Source of Release	Fiberglass Line	Date and Hour of Occurrence	5/1/2012	Date and Hour of Discovery	5/1/2012
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking		
By Whom?	Gary Wink	Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* Fiberglass line ruptured. The line was excavated out and repaired with a flange. The flange failed, and the damaged line was replaced with a new joint.					
Describe Area Affected and Cleanup Action Taken.* The initial release affected 5,016 sq. ft. of pasture, and the second release affected 1,276 sq. ft. of pasture. The site will be remediated to NMOCD standards.					

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Gary W. Wink</i>	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Gary Wink	Approved by District Supervisor:		
Title: Production Foreman	Approval Date:	Expiration Date:	
E-mail Address: gawink@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5/10/2012	Phone: 575-738-1739 ext. 1218		

* Attach Additional Sheets If Necessary

LINN ENERGY

2130 W. Bender Blvd.
Hobbs, NM 88241
Phone 575.738.1739

Caprock Maljamar Unit #98

Closure Report

API 30-025-01525

Release Date: May 1, 2012

Unit Letter M, Section 28, Township 17S, Range 33E

approved
Steve Luking
Envr Specialist
NMOC-DIST 1
4/21/12

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

August 13, 2012

Geoffrey Leking
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District 1
1625 N. French Dr.
Hobbs, NM 88240-9273

**RE: TERMINATION REQUEST
Linn Energy – Caprock Maljamar Unit #98 AD
UL/M sec. 28 T17S R33E
API No. 30-025-01525**

Mr. Leking:

Linn Energy has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the site referenced above.

Background and Previous Work

The site is an accidental discharge of produced water associated with the Caprock Maljamar Unit #98. A fiberglass line ruptured and released fluids into pasture land. The line was repaired with a flange. The flange failed, resulting in a second release, and the line was replaced with a new joint. An initial form C-141 was submitted by Linn Energy on May 10, 2012 (Appendix A). The site is located approximately 10 miles west of Buckeye in unit letter 'M' of section 28, T17S, R33E in Lea County, New Mexico.

Soil samples collected from the initial impacted area were field tested for chloride. Headspace measurements were also taken in the field using a Photo Ionization Detector (PID) (Figure 1). Samples from points 1 thru 4 were submitted to a commercial laboratory for chloride and TPH (GRO/DRO) analyses (Appendix C). All samples except the sample from Point #4 showed low chloride levels at approximately 1.5 ft. below ground surface (bgs).

The second leak event, due to a failed flange, further impacted the portion of the initial leak area surrounding Point #4 (Figure 2). From May 17 through June 12, 2012, soil bore sampling was used to determine the lateral and vertical extent of the secondary impact. Soil samples were similarly field tested and representative samples were submitted to a commercial laboratory for chloride and TPH analyses (Appendix C). Lab analysis confirmed that chloride levels decreased to less than 250 mg/kg at 65 ft. bgs. All soil bores were plugged in full with bentonite.

On June 11, 2012, a temporary groundwater monitoring well was installed approximately 90 ft. west of the leak area to a depth of 160 ft. to determine the existence of groundwater (Figure 2).

On June 14, 2012, groundwater was confirmed at a depth of 123 ft. bgs (Appendix D). The temporary monitoring well was plugged with bentonite to ground surface.

Succeeding these activities, NMOCD approved the following implementation. The area encompassing the second leak event was excavated to a depth of 5 ft. bgs (Figure 3). The bottom of the excavation was lined with a 20 mil reinforced plastic liner, and the remaining space was backfilled with clean soil to ground surface. The larger area encompassing the first leak event was excavated to 1.5 ft. bgs, and was backfilled with clean soil to ground surface as well. The entire affected area was contoured to the surrounding vicinity and was reseeded with Klein grass seed.

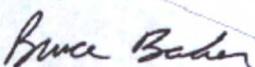
Impacted soils were removed from the excavations and transported to a NMOCD approved disposal facility. See Appendix B for photographs of field activities.

Conclusion

Due to the removal of impacted soils in the root zone, confirmed depth to groundwater, and the installation of a protective barrier to prevent further downward migration of remaining chloride, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call me at the number below if you have any questions or comments.

Sincerely,



Bruce Baker
Head Foreman
RECS
(575) 631-5157

Attachments:

- Figure 1: Site Plat with Initial Release and Sample Data
- Figure 2: Site Plat with Second Release and Soil Bore Sampling Data
- Figure 3: Site Plat with Excavation and Liner Dimensions
- Appendix A: Initial Form C-141
- Appendix B: Site Photographs
- Appendix C: Laboratory Results
- Appendix D: Letter of Groundwater Verification and Drilling Photographs
- Appendix E: Final Form C-141

Site Plat

Point 1

Sample Description	Cl-	PID	LAB Cl-
Pt 1 @ surface	12,596	65.1	18,800
Pt 1 @ 6"	174	52.5	
Pt 1 @ 1'	999	4	
Pt 1 @ 1.5'	147	1.5	192
Pt 1 @ 2'	205	1.1	240

Point 2

Sample Description	Cl-	PID	LAB Cl-
Pt 2 @ surface	7,366	11.9	6,480
Pt 2 @ 6"	143	14.1	
Pt 2 @ 1'	694	6.3	
Pt 2 @ 1.5'	145	5.9	32
Pt 2 @ 2'	254	6.1	160

Point 3

Sample Description	Cl-	PID	LAB Cl-
Pt 3 @ surface	11,879	39.7	14,600
Pt 3 @ 6"	337	11.9	
Pt 3 @ 1'	444	1.6	
Pt 3 @ 1.5'	236	6.6	288
Pt 3 @ 2'	145	6.2	80

Point 4

Sample Description	Cl-	PID	LAB Cl-	GRO	DRO
Pt 4 @ surface	10,902	27.5	11,600		
Pt 4 @ 6"	8,368	7			
Pt 4 @ 1'	8,364	7.9			
Pt 4 @ 1.5'	8,446	15.8			
Pt 4 @ 2'	9,146	5.6			
Pt 4 @ 2.5'	8,011	2.3			
Pt 4 @ 3'	3,188	4.1			
Pt 4 @ 3.5'	1,483	1.6			
Pt 4 @ 4'	1,019	1.8			
Pt 4 @ 4.5'	462	6.9	640	<10	15.7

Point 7

Sample Description	Cl-	PID
PT 7 @ SURFACE	245	0
PT 7 @ 6"	1990	0
PT 7 @ 1'	1051	0
PT 7 @ 1'6"	876	0
PT 7 @ 2'	236	0
PT 7 @ 2'6"	151	0

Point 8

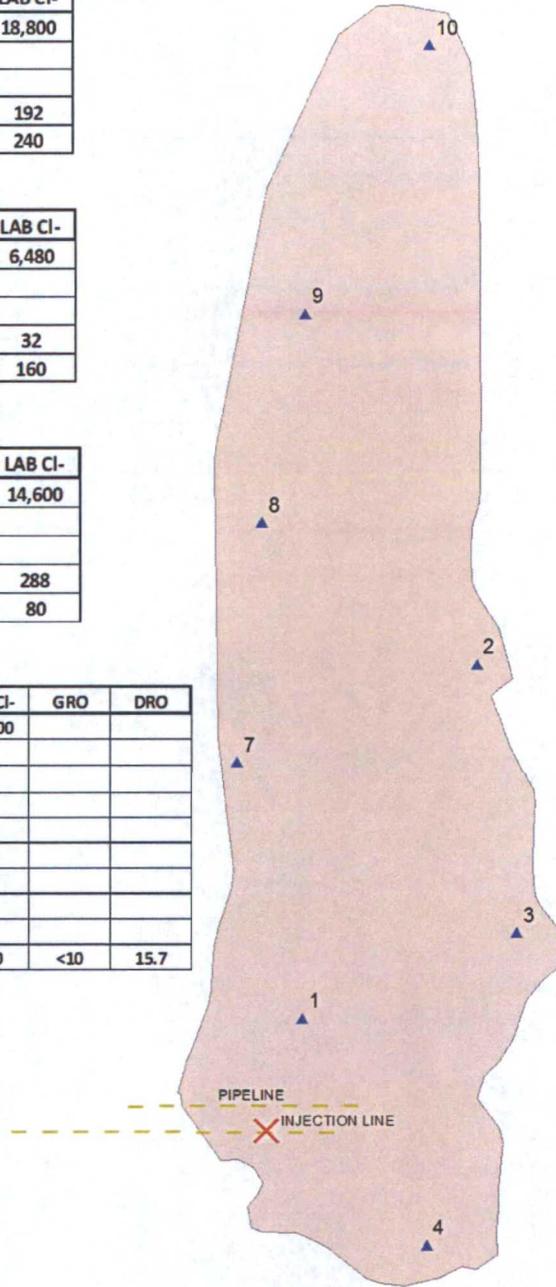
Sample Description	Cl-	PID
PT 8 @ SURFACE	354	0
PT 8 @ 6"	1629	0
PT 8 @ 1'	1421	0
PT 8 @ 1'6"	145	0
PT 8 @ 2'	191	0

Point 9

Sample Description	Cl-	PID
PT 9 @ SURFACE	393	0
PT 9 @ 6"	1967	0
PT 9 @ 1'	1054	0
PT 9 @ 1'6"	268	0
PT 9 @ 2'	202	0

Point 10

Sample Description	Cl-	PID
PT 10 @ SURFACE	681	0
PT 10 @ 6"	1926	0
PT 10 @ 1'	617	0
PT 10 @ 1'6"	178	0
PT 10 @ 2'	150	0



Legend

- ▲ SAMPLE POINT
- × SOURCE
- STAIN (8,157 sq ft)

Landowner: State Lease to Darr Angell

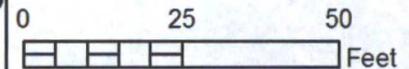
DGW = 123 ft



**LINN OPERATING
CAPROCK
MALJAMAR UNIT #98**

UL/M SECTION 28
T-17-S R-33-E
LEA COUNTY, NM

Figure 1



GPS date: 5-9-12 by BB
Drawing date: 5-10-12
Drafted by: L. Weinheimer

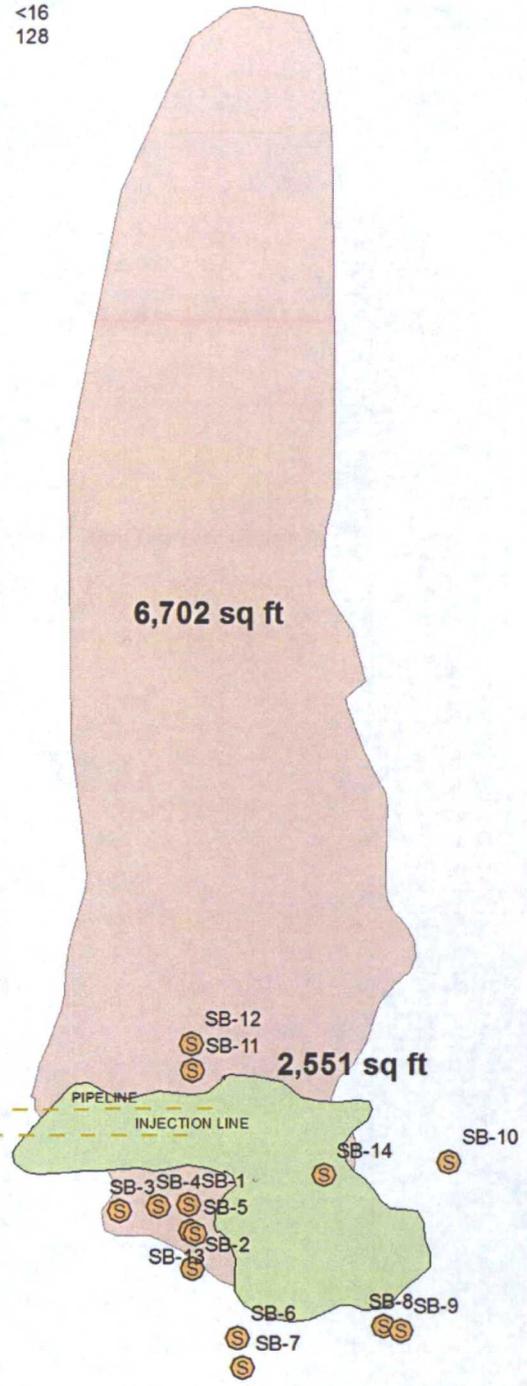
Site Plat

SB-1			SB-3			SB-9			SB-10			
Depth	CI-	PID	Depth	CI-	PID	Depth	CI-	PID	Depth	CI-	PID	LAB CI-
2	850	2.5	1	222	0.2	1	85	5.6	1	85	1.5	<16
4	2690	0.9	2	536	0.4	2	85	4.8	2	169	1.4	128
6	5374	4.9	3	123	0.3							
8	5303	6.5	4	117	0.5							
10	7572	8.7										
12	7838	4.1										
14	7784	7.1										
16	10143	6.3										
18	12497	10										
20	7364	8.2										
22	5886	5.4										
24	5393	3.8										
26	4953	2.9										
28	6307	3.6										
30	4774	7.1										
32	5185	9.6										
34	6624	5.2										
36	7988	6										
38	9277	10.5										
40	8449	5.2										
42	6853	5.5										
44	6707	6.4										
46	6912	9.2										
48	7922	10.2										
49	8006	7.4										

SB-2			SB-7				SB-6		
Depth	CI-	PID	Depth	CI-	PID	LAB CI-	Depth	CI-	PID
1	1114	0.2	1	110	2.5	16	1	500	1.9
2	909	0.4	2	121	1.7	16	2	3058	2.2
3	117	0.2					3	6010	12.6
4	142	0.4					4	6884	9.8

SB-4			SB-5				SB-11				
Depth	CI-	PID	LAB CI-	Depth	CI-	PID	LAB CI-	Depth	CI-	PID	LAB CI-
1	883	0.3	880	1	285	0.2		1	1510	1.4	
2	466	0.4		2	4739	0	5200	2	4241	1.6	
3	141	0.2	32	3	118	0.5	<16	3	5810	2.1	6160
4	117	0.3	64	4	120	0.4	32	4	1565	1.1	
								5	2336	2.7	
								6	184	1.2	48
								7	151	2	48

SB-12			SB-13								
Depth	CI-	PID	LAB CI-	GRO	DRO	SS					
1	627	1.4				1501	8.7				
2	5200	1	1020			148	2.9				
3	3261	0.5				2816	5.1				
4	118	1.5	<16			15	3856	6.9	4440	<10	<10
5	140	2.4	<16			20	2596	1.5			
						25	1803	5.3			
						30	2623	4.7			
						35	1404	5.8			
						40	677	6.4			
						45	360	2.3			
						50	284	2.6			
						55	302	4.4			
						60	434	6.5			
						65	200	2.1	128	<10	<10
						70	249	2	160	<10	<10



Legend

- SOIL BORES
- TEMPORARY MW
- STAIN 2nd RELEASE (1,276 sq ft)
- STAIN (8,157 sq ft)

Temporary MW Total Depth = 160 ft

Landowner = State Leased to Dar Angell

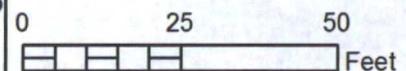
DGW = 123 ft



**LINN OPERATING
CAPROCK
MALJAMAR UNIT #98**

UL/M SECTION 28
T-17-S R-33-E
LEA COUNTY, NM

Figure 2



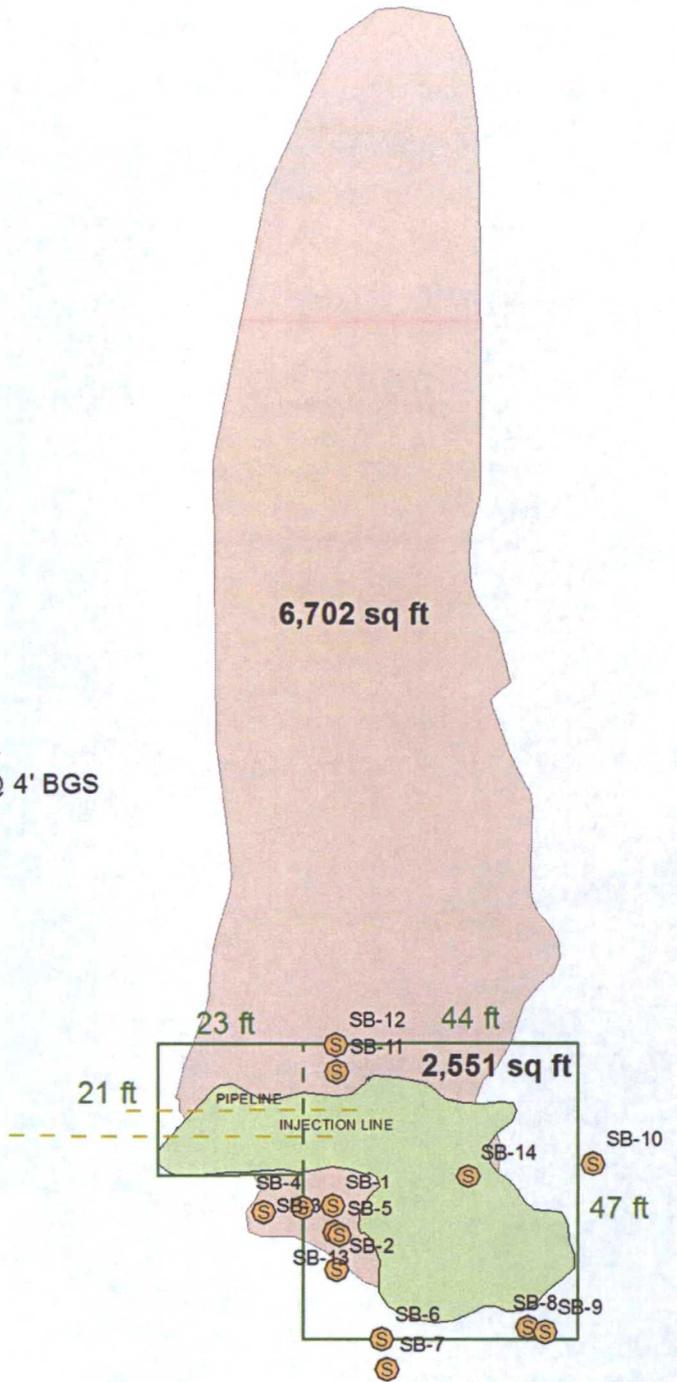
GPS date: 5-9-12 by BB
Drawing date: 5-10-12
Drafted by: L. Weinheimer

Site Plat

Legend

-  SOIL BORES
-  TEMPORARY MW
-  PROPOSED 20-MIL REINFORCED POLY LINER @ 4' BGS
-  STAIN 2nd RELEASE (1,276 sq ft)
-  STAIN (8,157 sq ft)


Temporary MW
Total Depth = 160 ft



Landowner = State Leased to Dar Angell

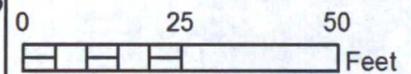
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**LINN OPERATING
CAPROCK
MALJAMAR UNIT #98**

UL/M SECTION 28
T-17-S R-33-E
LEA COUNTY, NM

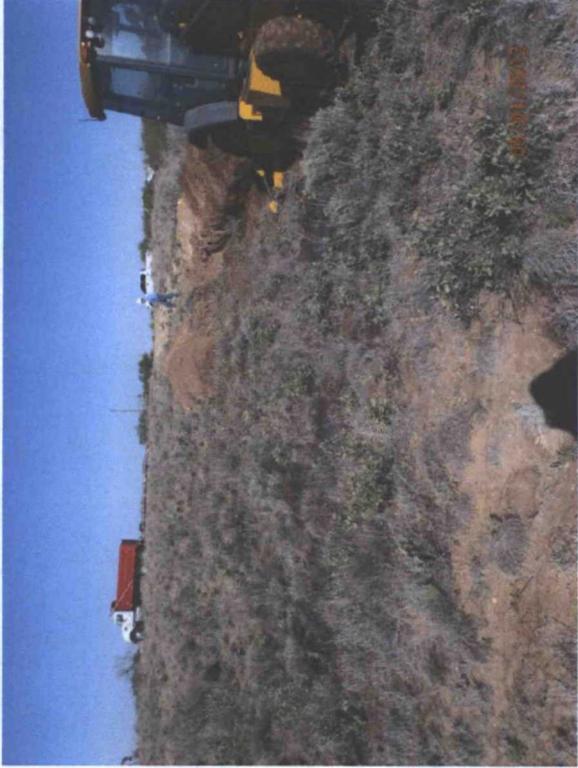
Figure 3



GPS date: 5-9-12 by BB
Drawing date: 5-10-12
Drafted by: L. Weinheimer

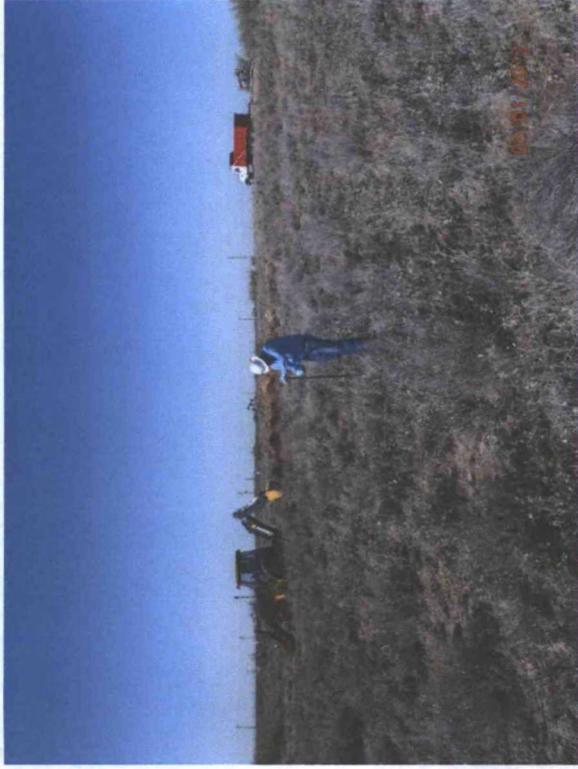
Caprock Maljamar Unit #98

Unit M, Section 28, T17S, R33E



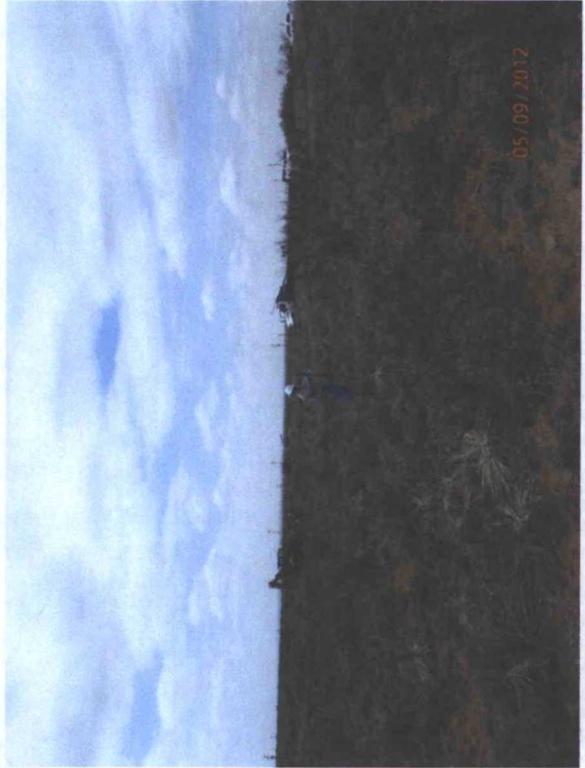
Initial release in pasture, facing west

5/1/2012



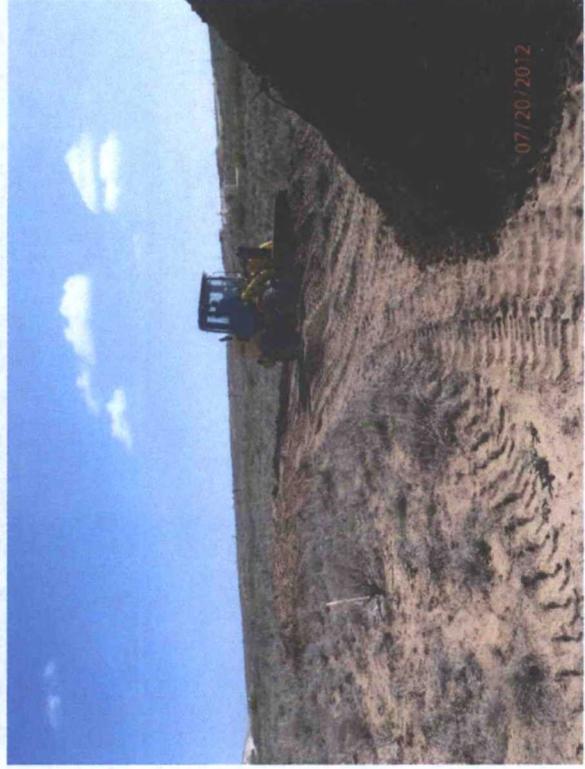
Collecting sample, facing south

5/1/2012



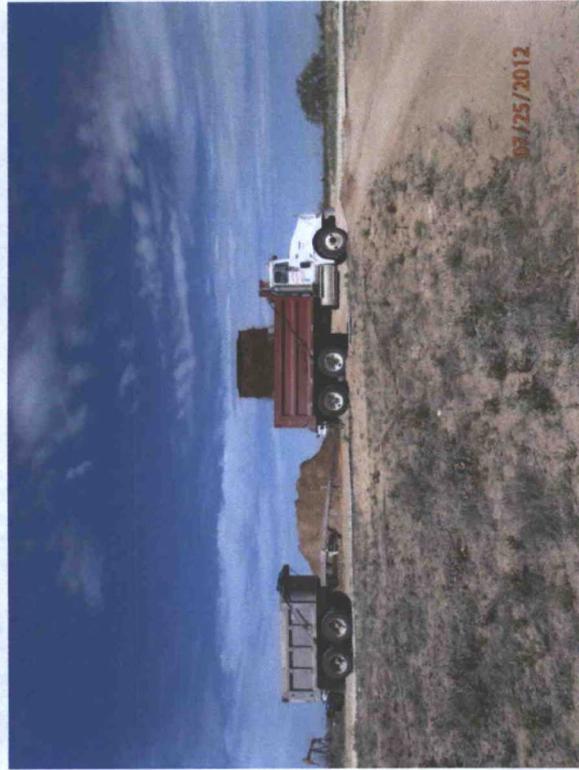
Collecting sample, facing south

5/9/2012



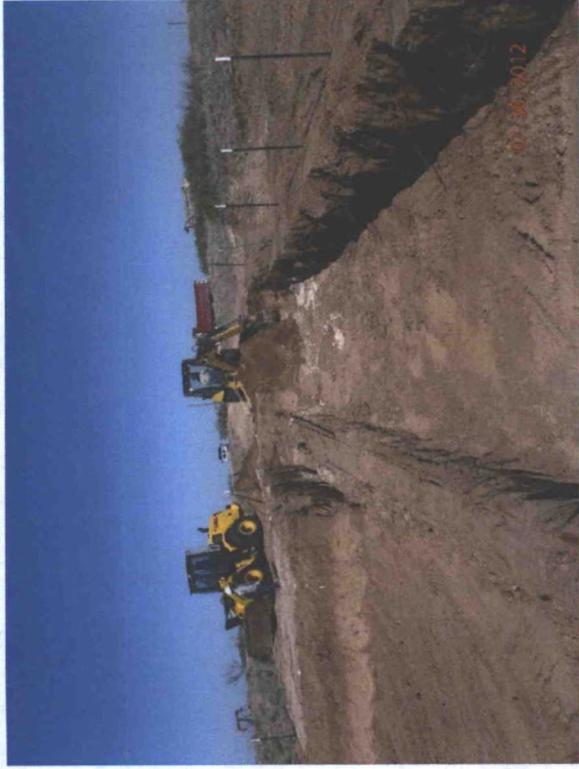
Beginning excavation, facing north

7/20/2012



Exporting spoil pile, facing west

7/25/2012



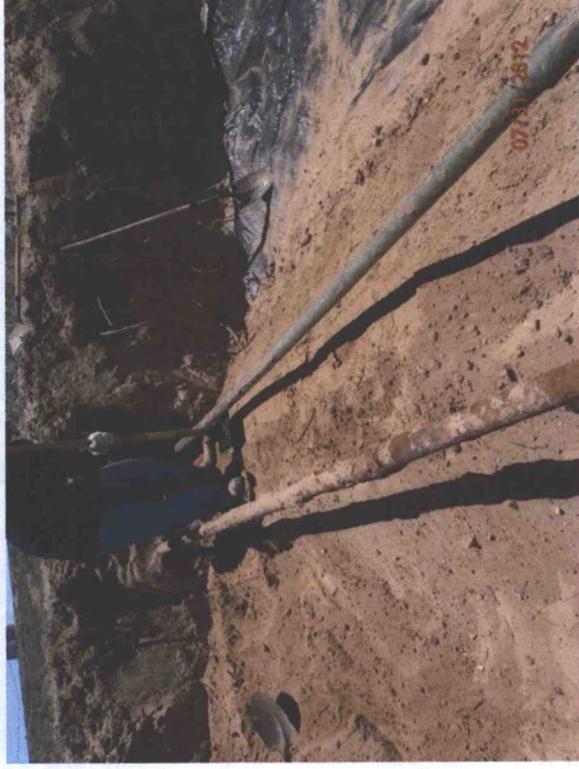
Excavating, facing south

7/25/2012



Backfilling above liner, facing north

7/31/2012



Packing soil under lines, facing east

7/31/2012



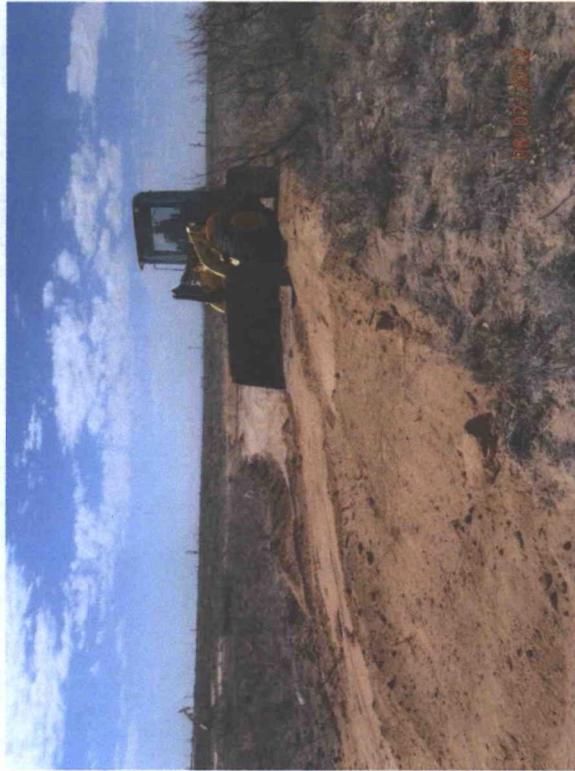
Seaming liner, facing east

8/1/2012



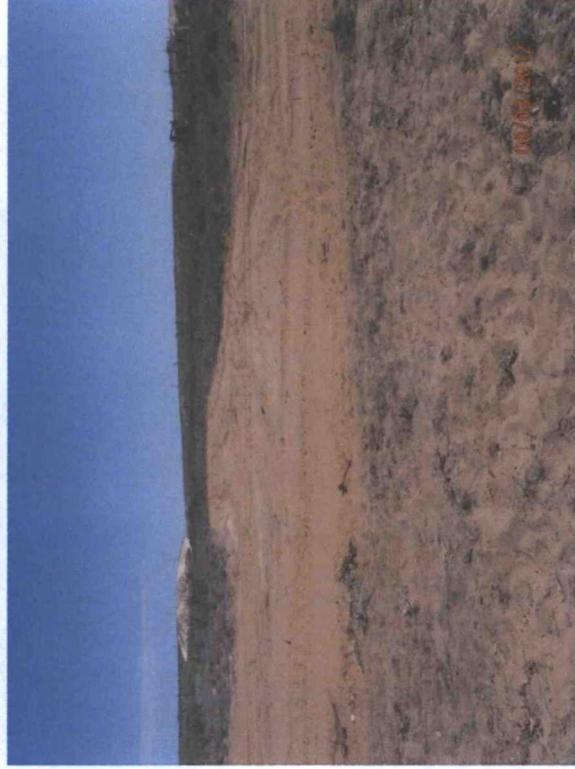
Importing clean soil, facing west

8/2/2012



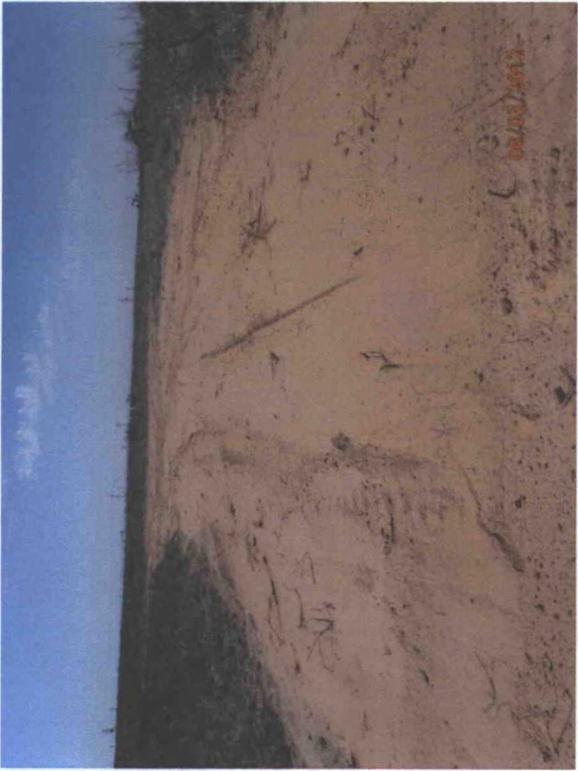
Backfilling site, facing south

8/2/2012



Site backfilled, facing north

8/3/2012



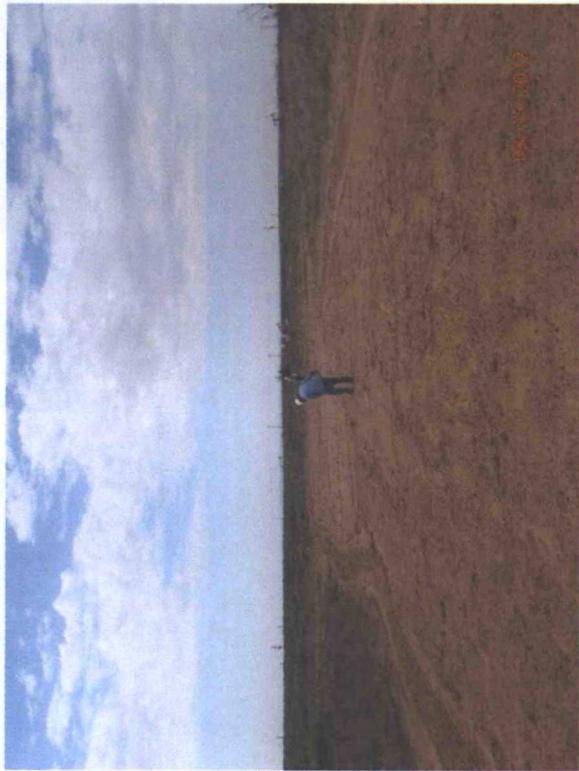
Site backfilled, facing south

8/3/2012



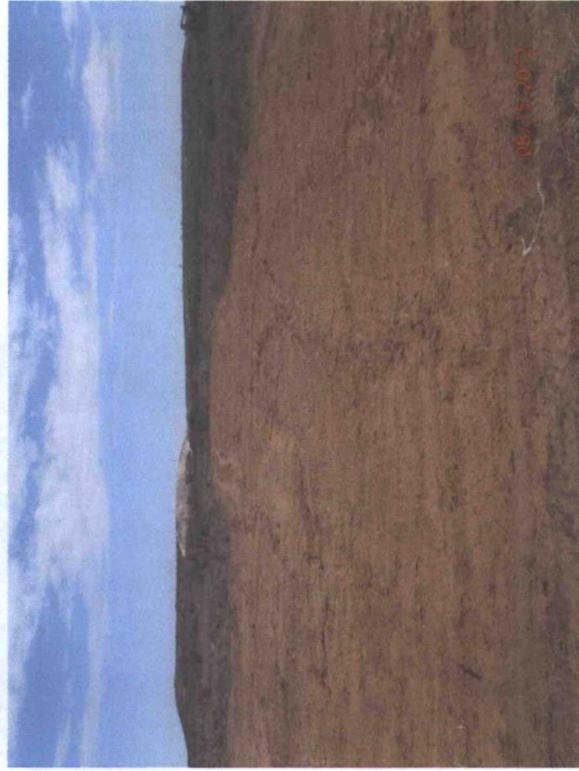
Spreading seed, facing north

8/15/2012



Raking seed, facing east

8/15/2012



Site complete, facing east

8/15/2012

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/04/2012	Sampling Date:	05/01/2012
Reported:	05/10/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 1 @ SURFACE (H201024-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 1 @ 1.5' (H201024-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 1 @ 2' (H201024-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 2 @ SURFACE (H201024-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6480	16.0	05/07/2012	ND	400	100	400	7.69		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/04/2012	Sampling Date:	05/01/2012
Reported:	05/10/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 2 @ 1.5' (H201024-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 2 @ 2' (H201024-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 3 @ SURFACE (H201024-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14600	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 3 @ 1.5 (H201024-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/07/2012	ND	400	100	400	7.69		

Sample ID: POINT 3 @ 2' (H201024-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/07/2012	ND	400	100	400	7.69		

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Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/04/2012	Sampling Date:	05/01/2012
Reported:	05/10/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: POINT 4 @ SURFACE (H201024-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	05/07/2012	ND	400	100	400	7.69	

Sample ID: POINT 4 @ 4.5' (H201024-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	05/07/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/09/2012	ND	193	96.5	200	1.03	
DRO >C10-C28	15.7	10.0	05/09/2012	ND	184	92.0	200	3.04	

Surrogate: 1-Chlorooctane	89.6 %	55.5-154
Surrogate: 1-Chlorooctadecane	109 %	57.6-158

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Company Name: *RECS*
Project Manager: *Bruce Baker*
Address:
City: Hobbs **State:** NM **Zip:** 88240
Phone #: **Fax #:**
Project #: **Project Owner:**
Project Name:
Project Location: *Caprock Maljamar # 98*
Sampler Name: Kyle Norman

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		PRESERV.		SAMPLING		ANALYSIS REQUEST												
		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:	DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	
H2D1024		G 1	✓								5/1/12	11:20	✓							
11	Point 4 @ 4.5'																			

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Relinquished By: *Kyle* **Date:** 5-4-12 **Time:** 4:25
Received By: *Jodi Gordon*
Relinquished By: **Date:** **Time:**
Received By: **Date:** **Time:**

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool Intact
 Yes No Yes No

Checked By: *[Signature]*

Phone Result: Yes No **Add'l Phone #:**
Fax Result: Yes No **Add'l Fax #:**

REMARKS:
 email results
 Knorman@rice-ecs.com
 Bbaker@rice-ecs.com; hconder@rice-ecs.com;
 Lweinheimer@rice-ecs.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/18/2012	Sampling Date:	05/17/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 4 @ 1' (H201111-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 4 @ 3' (H201111-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 4 @ 4' (H201111-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 5 @ 2' (H201111-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	05/21/2012	ND	416	104	400	0.00		

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 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/18/2012	Sampling Date:	05/17/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 5 @ 3' (H201111-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 5 @ 4' (H201111-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 7 @ 1' (H201111-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 7 @ 2' (H201111-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 10 @ 1' (H201111-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/21/2012	ND	416	104	400	0.00		

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 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/18/2012	Sampling Date:	05/17/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 10 @ 2' (H201111-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 11 @ 3' (H201111-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 11 @ 6' (H201111-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 11 @ 7' (H201111-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 12 @ 2' (H201111-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	05/21/2012	ND	416	104	400	0.00		

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 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	05/18/2012	Sampling Date:	05/17/2012
Reported:	05/22/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 12 @ 4' (H201111-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/21/2012	ND	416	104	400	0.00		

Sample ID: SB 12 @ 5' (H201111-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/21/2012	ND	416	104	400	0.00		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Company Name: <i>Cardinal Laboratories</i> Project Manager: <i>Bruce Baker</i> Address: City: Hobbs State: NM Zip: 88240 Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <i>Cuprock Maljamar #98</i> Sampler Name: Kyle Norman		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS					
Lab I.D.	Sample I.D.	MATRIX			PRESERV.			DATE	TIME
		GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE		
H201111	-1 SB4 @ 1'	✓	✓	✓	✓	✓	✓	5-17-12	9:45
	-2 SB4 @ 3'	✓	✓	✓	✓	✓	✓	5-17-12	10:00
	3 SB4 @ 4'	✓	✓	✓	✓	✓	✓	5-17-12	10:30
	4 SB5 @ 2'	✓	✓	✓	✓	✓	✓	5-17-12	12:00
	5 SB5 @ 3'	✓	✓	✓	✓	✓	✓	5-17-12	12:15
	6 SB5 @ 4'	✓	✓	✓	✓	✓	✓	5-17-12	12:30
	7 SB7 @ 1'	✓	✓	✓	✓	✓	✓	5-17-12	1:00
	8 SB7 @ 2'	✓	✓	✓	✓	✓	✓	5-17-12	1:15
	9 SB10 @ 1'	✓	✓	✓	✓	✓	✓	5-17-12	2:30
	10 SB10 @ 2'	✓	✓	✓	✓	✓	✓	5-17-12	2:45

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Relinquished By: <i>Kyle Norman</i>	Date: 5-18-12 Time:	Received By: <i>Paula Zeno</i>	Date: 5/18/12 Time: 9:07
Relinquished By: <i>Paula Zeno</i>	Date: 5/18/12 Time: 9:07	Received By: <i>Joan Jensen</i>	Checked By: <i>JH</i>
Delivered By: <i>Circle One</i> Sampler - UPS - Bus - Other:	Sample Condition Cool: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	email results Knorman@rice-ecs.com Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Add'l Fax #:
REMARKS:			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 06/13/2012
 Reported: 06/18/2012
 Project Name: CAPROCK MALJAMAR #98
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 13 @ 15' (H201329-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4440	16.0	06/15/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		
Surrogate: 1-Chlorooctane	93.6 %	65.2-140								
Surrogate: 1-Chlorooctadecane	109 %	63.6-154								

Sample ID: SB 13 @ 65' (H201329-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/15/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		
Surrogate: 1-Chlorooctane	92.4 %	65.2-140								
Surrogate: 1-Chlorooctadecane	110 %	63.6-154								

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 06/13/2012
 Reported: 06/18/2012
 Project Name: CAPROCK MALJAMAR #98
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/11/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 13 @ 70' (H201329-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/15/2012	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

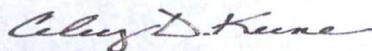
Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 06/13/2012
 Reported: 06/18/2012
 Project Name: CAPROCK MALJAMAR #98
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/12/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 14 @ 15' (H201328-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	06/15/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

 Surrogate: 1-Chlorooctane 97.4 % 65.2-140
 Surrogate: 1-Chlorooctadecane 116 % 63.6-154

Sample ID: SB 14 @ 60' (H201328-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/15/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

 Surrogate: 1-Chlorooctane 92.6 % 65.2-140
 Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 06/13/2012
 Reported: 06/18/2012
 Project Name: CAPROCK MALJAMAR #98
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/12/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 14 @ 65' (H201328-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/15/2012	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2012	ND	177	88.7	200	6.72		
DRO >C10-C28	<10.0	10.0	06/14/2012	ND	176	87.9	200	8.73		

 Surrogate: 1-Chlorooctane 99.1 % 65.2-140
 Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	07/30/2012	Sampling Date:	07/23/2012
Reported:	08/01/2012	Sampling Type:	Soil
Project Name:	CAPROCK MALJAMAR UNIT #98	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 5 PT COMP @ 2' IN PASTURE SCRAPE (H201759-01)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2012	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

HARRISON & COOPER, INC.

Drilling & Pump Professionals

7414 85th Street, Lubbock, Texas 79424-4951

P.O. Box 96, Wolfforth, Texas 79382-0096

Ph: (806) 866-4026

Fax: (806) 866-4044

hcidrill.com

July 18, 2012

INVOICE #71219

Rice Environmental Consulting & Safety
112 W. Taylor
Hobbs, NM 88240

RE: Site: Linn Operating Caprock Maljamar #98

To whom it may concern:

Harrison & Cooper, Inc. installed a soil boring at the subject location to determine if groundwater existed. After allowing a 48 hour holdover time water did exist at a static water level of 123'. If there are any questions please do not hesitate to call Kenny Cooper @ 806.300.1886.

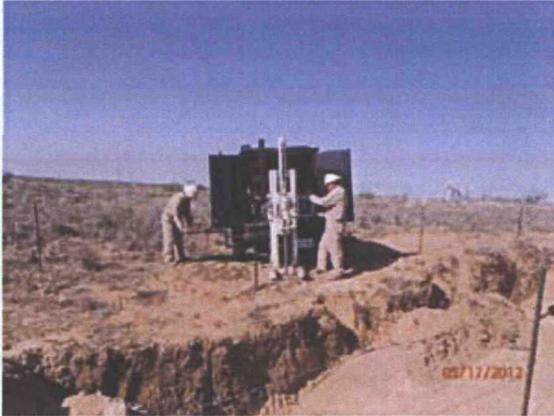
Sincerely,

Kenny Cooper

Copies: File
Email (Rice)

Regulated by: Texas Dept. of Licensing & Regulation, Water Well Division, P.O. Box 12157, Austin, TX 78711, (800) 803-9202

Linn Operating Caprock Maljamar Unit #98
Unit M, Section 28, T-17-S, R-33-E
SB1 through SB12



Drilling SB-1, facing south 5/17/12



Collecting sample, facing west 5/17/12



Plugging SB-1 in total with bentonite 5/17/12



Completed SB-1 and drilling SB-2, facing south 5/17/12



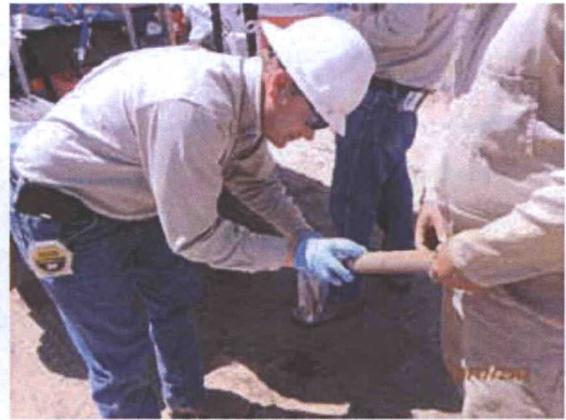
Plugging SB-2 in total with bentonite 5/17/12



Drilling SB-3, facing south 5/17/12



Plugging SB-3 in total with bentonite 5/17/12



Collecting sampling from SB-4 5/17/12



Plugging SB-4 in total with bentonite 5/17/12



Drilling SB-5, facing southwest 5/17/12



Drilling SB-6, facing west 5/17/12



Plugging SB-6 in total with bentonite 5/17/12



Plugging SB-7 in total with bentonite 5/17/12



Drilling SB-8, facing east 5/17/12



Plugging SB-8 in total with bentonite 5/17/12



Drilling SB-9, facing north 5/17/12



Plugging SB-9 in total with bentonite 5/17/12



Drilling SB-10, facing west 5/17/12



Plugging SB-10 in total with bentonite 5/17/12



Plugging SB-11 in total with bentonite 5/17/12



Plugging SB-12 in total with bentonite 5/17/12



Soil bores completed, facing north 5/17/12



Soil bores completed, facing south 5/17/12



Soil bores completed, facing southeast 5/17/12

Linn Operating Caprock Maljamar Unit #98
Unit Letter M, Section 28, T-17-S, R-33-E
Temporary Monitoring Well, SB13, and SB14



Drilling temporary MW, facing west 6/11/12



Drilling SB-13, facing east 6/11/12



Plugging SB-13 in total with bentonite 6/11/12



Completed SB-13, facing west 6/11/12



Drilling SB-14, facing east 6/12/12



Plugging SB-14 in total with bentonite 6/12/12