1R428-67

Termination Request

Approved December 2014

From:	Lowe, Leonard, EMNRD
То:	"Laura Flores"
Cc:	"Hack Conder"; "Katie Jones"
Subject:	TERMINATION REQUEST APPROVED ROC - Hobbs Jct. E-33-1 (1R428-67)
Date:	Monday, December 22, 2014 4:31:00 PM

Termination Request Approved for the Hobbs SWD System Hobbs Jct. E – 33 - 1 (1R428-67) Unit Letter E Section 33, T18S, R38E, NMPM, Lea County, New Mexico

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received RICE Environmental 's Request to terminate the above-referenced site, dated November 26, 2014. The termination request is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Environmental has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R-428-67) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3492.

Leonard Lowe

Environmental Engineer [Environmental Bureau] Oil Conservation Division Energy Minerals and Natural Resources Department 1220 South St. Frances Santa Fe, New Mexico 87004 Office: 505-476-3492 Fax: 505-476-3462 E-mail: leonard.lowe@state.nm.us Website: http://www.emnrd.state.nm.us/ocd/

From: Laura Flores [mailto:lflores@rice-ecs.com]
Sent: Wednesday, November 26, 2014 8:03 AM
To: Lowe, Leonard, EMNRD
Cc: 'Hack Conder'; 'Katie Jones'
Subject: ROC - Hobbs Jct. E-33-1 (1R428-67) Termination Request

Mr. Lowe,

Attached is the Termination Request for the Hobbs Jct. E-33-1 (1R428-67) site.

If you have any questions or require any additional information, please contact Hack Conder, Katie Jones or me.

Thank you,

Laura Flores Project Manager Rice Environmental Consulting & Safety (RECS)



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

November 26, 2014

Mr. Leonard Lowe New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: Termination Request Rice Operating Company – Hobbs SWD System Hobbs Jct. E-33-1 (1R428-67): UL/E, Sec. 33, T18S, R38E

Mr. Lowe:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced sites in the Hobbs Salt Water Disposal (SWD) system.

ROC is the service provider (agent) for the Hobbs SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 1.7 miles west of Hobbs, New Mexico, at UL/E, Sec. 33, T18S R38E, as shown on the Site Location Map (Figure 1). Groundwater beneath this site is located at approximately 69 +/- feet below ground surface (bgs).

With the abandonment of the Hobbs SWD system in 2002, ROC removed the Hobbs E-33-1 junction box and the upper four feet of the vadose zone. The resultant excavation was then backfilled with a mixture of silty loam and some caliche.

As part of the Investigation and Characterization Plan (ICP) submitted to NMOCD on January 20th, 2006 and approved on February 23rd, 2006, one soil boring was advanced immediately over the former junction box on May 2nd, 2006. The bore was field tested for chlorides and screened for hydrocarbons with a photo-ionization detector (PID). The highest chloride field numbers were between 20 and 40 ft bgs with a peak chloride reading at 35 ft bgs of 1,381 mg/kg which declined to 729 mg/kg at 60 ft bgs. All PID readings throughout the bore were 0 ppm. A representative sample from the bore was taken to a commercial laboratory for confirmation of chloride field numbers. At 24 ft bgs, the laboratory chloride reading was 1,640 mg/kg. Based on the elevated chloride readings in the bore, a monitor well was installed within the bore to a depth of 75 ft bgs. The monitoring well has been sampled quarterly since installation. A table summarizing the quarterly sampling data can be found in Appendix A.

On January 3rd, 2007, ROC submitted a Corrective Action Plan (CAP) to NMOCD, which was approved on August 8th, 2007. The report recommended that ROC restore the ground surface surrounding the former junction box. The surface surrounding the former junction box was restored and seeded on February 3rd, 2009. Since then, vegetation has recovered. Photographs of this are included in Appendix C.

ROC submitted an Update Report on December 11th, 2012 in which RECS recommended that ROC install an up gradient monitor well to determine if an up gradient source exists to account for the elevated chloride and TDS concentrations in MW-1. NMOCD approved this plan on December 26th, 2012. The up gradient well (MW-2) was installed on February 14th, 2013, and has been sampled quarterly since installation (Appendix A). Documentation of monitor well installation can be found in Appendix B.

Chloride concentrations in MW-1 have generally remained low, with a max concentration of 530 mg/L being observed in August 2010. Since then, concentrations have decreased, with the last four quarters being below WQCC standards. MW-1 had a chloride reading of 234 mg/kg in quarter 4 of 2013. Quarter 1 of 2014 had a chloride value of 236 mg/kg. Quarters 2 and 3 of 2014 both had a chloride value of 212 mg/kg. Chloride concentrations in MW-2 have remained low, all below 172 mg/L, since the well was installed.

Given that the monitor well chloride concentrations have remained below regulatory standards for four consecutive quarters, and that vegetation surrounding the site has recover, ROC respectfully requests 'remediation termination' or similar closure status of the site.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 if you have any questions or wish to discuss the site.

Sincerely,

Hores

Laura Flores Rice Environmental Consulting & Safety (RECS) Project Manager

Attachments: Figure 1 – Site Location Map Figure 2 – Site Map Appendix A – Quarterly Monitoring Well Sampling Data and Most Recent Lab Result Appendix B – MW-2 Installation Documentation Appendix C – Photo Documentation

Figures

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

Site Location Map



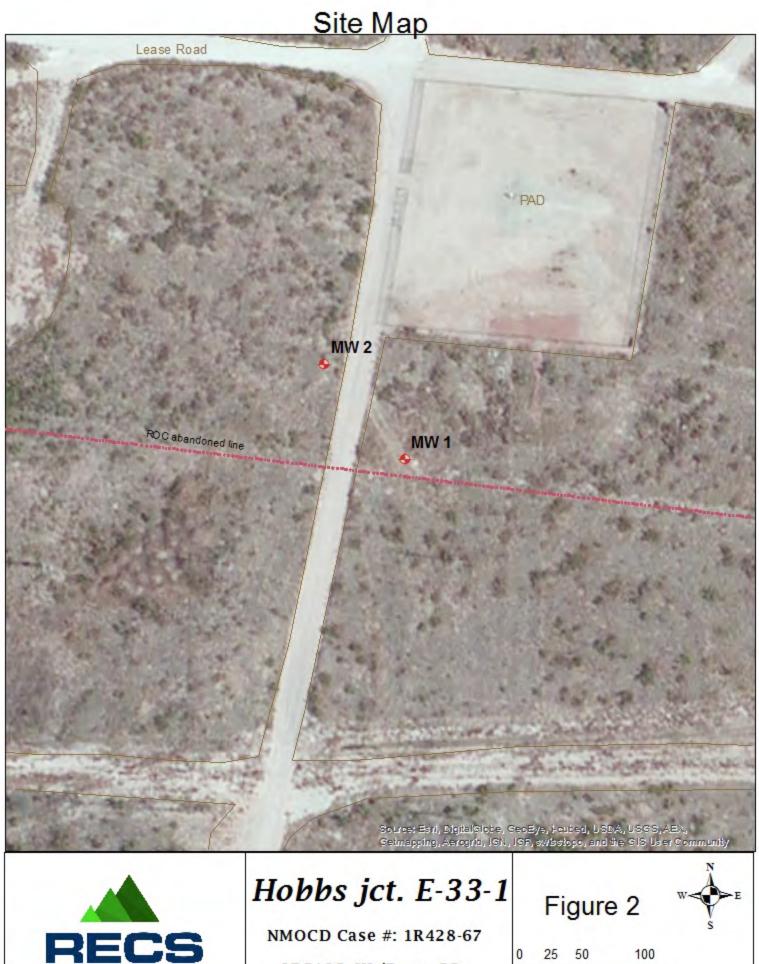


Hobbs jct. E-33-1

NMOCD Case #: 1R428-67

LEGALS: UL/E sec. 33 T-18-S E-38-E

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	date: 1/24/12 by: L.Weinheimer	



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LEGALS: UL/E sec. 33 T-18-S E-38-E

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Appendix A

Quarterly Monitoring Well Sampling Data and Most Recent Lab Results

> RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

ROC Hobs Jct. E-33-1 MW Depth to Water Total Depth Well Volume Volume Purged Sample Date Sample Date Cl TDS Benzene Total Toluene Sulfate Benzene Comments 1 64.44 79.35 2.4 10 5/17/2006 142 678 <0.001 <0.001 <0.001 93.4 Silt to Clear/No Odor 1 64.48 79.35 2.4 10 10/31/2006 164 620 <0.001 <0.001 <0.001 96.2 Silt and Sand Present Clear 1 64.67 79.12 2.3 8 2/22/2007 222 678 <0.001 <0.001 <0.001 112 Silt to sand present Clear 1 64.67 79.12 2.3 8 4/25/2007 195 684 <0.001 <0.001 <0.001 NO Odor 101 No Odor/Silt and Sand Present Clear 1 64.89 79.12 2.3 8 1/2/19/2007 308 933 <0.002 <0.002 <0.001																	
MW	-				Sample Date	Cl	TDS	Benzene	Toluene	-		Sulfate	Comments				
1	64.44	79.35	2.4	10	5/17/2006	142	678	< 0.001	< 0.001	< 0.001	< 0.001	93.4	Silt to Clear/No Odor				
1	64.48	79.35	2.4	10	10/31/2006	164	620	< 0.001	< 0.001	< 0.001	< 0.001	96.2	Silt and Sand Present Clear				
1	64.67	79.12	2.3	8	2/22/2007	222	678	< 0.001	< 0.001	< 0.001	< 0.001	112	Silt to sand present Clear No odor				
1	64.77	79.12	2.3	8	4/25/2007	195	684	< 0.001	< 0.001	< 0.001	< 0.001	101	No Odor/ Silt and Sand Present clear				
1	64.89	79.12	2.3	8	7/30/2007	215	754	< 0.001	< 0.001	< 0.001	< 0.001	115	Silt and Sand Present Clear No Odor				
1	65.03	79.12	2.3	8	12/19/2007	308	933	< 0.002	< 0.002	< 0.002	< 0.006	174	Clear/silt and sand present No odor				
1	65.08	79.1	2.2	8	2/8/2008	368	1120	< 0.002	< 0.002	< 0.002	< 0.004	176	Clear with silt and sand present No odor				
1	65.21	79.1	2.2	8	5/1/2008	116	677	< 0.002	< 0.002	< 0.002	< 0.006	178	Silt to sand to clear No odor				
1	65.28	79.1	2.2	8	7/25/2008	196	785	< 0.002	< 0.002	< 0.002	< 0.006	100	Silt to sand to clear No odor				
1	65.47	79.4	2.2	8	10/29/2008	344	1240	< 0.001	< 0.001	< 0.001	< 0.003	170	Silt and sand present Clear No odor				
1	65.68	79.36	2.2	8	2/2/2009	328	1160	XXX	XXX	XXX	XXX	166	Silt and sand present Clear No odor				
1	65.73	79.36	2.2	8	5/4/2009	332	1240	XXX	XXX	XXX	XXX	158	Silt and sand present Clear No odor				
1	65.85	79.36	2.2	8	8/10/2009	348	1170	XXX	XXX	XXX	XXX	159	Silt and sand present Clear No odor				
1	65.98	79.36	2.1	8	10/27/2009	380	1200	XXX	XXX	XXX	XXX	168	Silt/sand to clear No odor				
1	66.21	79.38	2.1	8	3/12/2010	436	1290	XXX	XXX	XXX	XXX	198	No Odor / Silt and Sand Present Clear				
1	66.32	79.38	2.1	8	6/4/2010	428	1440	XXX	XXX	XXX	XXX	160	Silt/sand to clear No odor				
1	66.42	79.38	2.1	8	8/30/2010	530	1600	XXX	XXX	XXX	XXX	130	Silt/sand to clear No odor				
1	66.54	79.38	2.1	8	12/10/2010	472	1250	XXX	XXX	XXX	XXX	202	Silt/Sand to clear No odor				
1	66.68	79.38	2	8	3/23/2011	510	1490	XXX	XXX	XXX	XXX	193	Silt/sand to clear No odor				
1	66.84	79.38	2	8	6/20/2011	470	1290	XXX	XXX	XXX	XXX	188	Silt/sand to clear No odor				
1	66.94	79.38	2	8	9/20/2011	500	1420	XXX	XXX	XXX	XXX	221	Silt/sand to clear No odor				
1	67.14	79.38	2	8	12/15/2011	480	1330	XXX	XXX	XXX	XXX	222	Silt/sand to clear No odor				
1	67.27	79.38	1.9	8	3/13/2012	456	1300	XXX	XXX	XXX	XXX	214	Silt/sand to clear No odor				
1	67.46	79.38	1.9	8	6/11/2012	400	1200	XXX	XXX	XXX	XXX	220	Silt/sand to clear No odor				
1	67.69	79.38	1.9	8	9/6/2012	343	1090	XXX	XXX	XXX	XXX	195	Silt/sand to clear No odor				
1	67.88	79.38	1.8	8	11/29/2012	320	1130	XXX	XXX	XXX	XXX	139	Silt/sand to clear No odor				
1	67.97	79.38	1.8	8	3/1/2013	284	1040	XXX	XXX	XXX	XXX	190	Silt/sand to clear No odor				
1	68.25	79.38	1.8	8	6/24/2013	264	1080	XXX	XXX	XXX	XXX	190	Silt/sand to clear No odor				
1	68.43	79.38	1.8	8	9/16/2013	336	1170	XXX	XXX	XXX	XXX	193	Silt/sand to clear No odor				
1	68.62	79.38	1.7	8	12/12/2013	224	896	XXX	XXX	XXX	XXX	164	Silt/sand present clear No odor				

	ROC Hobbs Jct. E-33-1													
мw	AW Depth to Total		Well Volum		Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments	
101 00	Water	Depth	Volume	Purged	Sample Date	CI	105	Delizene	Tolucile	Benzene Xylene		Sunate	Comments	
1	68.79	79.38	1.7	8	3/19/2014	236	782	XXX	XXX	XXX	XXX	147	Silt sand present clear/No Odor	
1	68.98	79.38	1.7	8	6/16/2014	212	888	XXX	XXX	XXX	XXX	169	Silt and sand present clear/no odor	
1	69.27 79.38 1.6 8 9/10/2014 212 776 XXX XXX XXX 163 No odor/Silt and sand present clear									No odor/Silt and sand present clear				

]	ROC Hob	os Jct. E-3	33-1			
MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	ample Date I CI I TDS I Benzene I Toluene I		Ethyl Benzene	Total Xylenes	Sulfate	Comments		
2	68.09	79.1	1.8	8	3/1/2013	164	691	XXX	XXX	XXX	XXX	111	No odor/Silt Sand Present Clear
2	68.32	79.1	1.7	8	6/24/2013	164	710	XXX	XXX	XXX	XXX	109	No Odor/Silt sand present clear
2	68.49	79.1	1.7	8	9/16/2013	160	686	XXX	XXX	XXX	XXX	87	No odor/Silt sand present clear
2	68.71	79.1	1.7	8	12/12/2013	156	714	XXX	XXX	XXX	XXX	107	No odor/ Silt sand present clear
2	68.86	79.1	1.6	8	3/19/2014	160	672	XXX	XXX	XXX	XXX	104	No Odor/silt sand present clear
2	69.12	79.1	1.6	8	6/16/2014	168	750	XXX	XXX	XXX	XXX	104	No odor/silt and sand present clear
2	69.34	34 79.1 1.6 8 9/10/2014 172 750 XXX XXX XXX 96 No odor/Silt and sand present clear							No odor/Silt and sand present clear				



September 22, 2014

Hack Conder Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: HOBBS JUNCTION E-33-1

Enclosed are the results of analyses for samples received by the laboratory on 09/16/14 15:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company Hack Conder 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	09/16/2014	Sampling Date:	09/10/2014
Reported:	09/22/2014	Sampling Type:	Water
Project Name:	HOBBS JUNCTION E-33-1	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T18S-R38E-SEC33 E-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H402870-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	212	4.00	09/19/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	163	25.0	09/17/2014	ND	18.8	93.8	20.0	2.76	
TDS 160.1	mg	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	776	5.00	09/18/2014	ND	530	101	527	4.72	

Sample ID: MONITOR WELL #2 (H402870-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	172	4.00	09/19/2014	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	96.0	25.0	09/17/2014	ND	18.8	93.8	20.0	2.76	
TDS 160.1	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	750	5.00	09/18/2014	ND	530	101	527	4.72	

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*=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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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LAB #	FIELD CODE						GLOGOL	HCL (2 40ml VOA)	HNO ₃	JaHSO4	H ₂ SO ₄	NONE (1-1LIIOF HUPE)	DATE (2014)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH Moisture Content	Cations (Ca, Mg, Na, K)	nions (CI, SO4, CC	Sulfates Total Discolved Solids	Chlorides	Turn Around Time ~ 24 Hours
1906000	Monitor Well #1		# CONTAINERS	× WATER	SOIL	AIR	+	÷	-	2		-	-	1		-			F		1-	1	0	0	₽.	-		10	-	-	-	-
Z	Monitor Well #2	G	1	x			+		\vdash	+	-	1	-	14:20		\vdash	+	+	Н	+	+		\vdash	-		+	+	+		x) x)	-	-
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Appendix B MW-2 Installation Documentation

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

Logger: Driller:		Kyle Norman Harrison & Cooper, Inc.			MW 2	RICE ENVIRONMENTAL RECS COMBULTING & SAFETY LLC								
Drilling Method:		Air rotary		/	MW 1		Project Name:					Well ID:		
Start Date:		2/14/2013		3			Hobbs jct. E-33				3-1 MW-2			
End Date:		2/14/2013		3	is the factor of sealing and	Project Consultant: RECS		s						
Comments: MW-2 is located 100 ft					t northwest of MW-1. No as the well was installed.	Location: UL/E sec. 33 T-18-S R-38-				S R-38-E				
	Lat: 32°42'15.934"N County: Lea													
DRAFTED BY: L. Weinheimer TD = 78 ft $GW = 67$ ft							Long: 103°9'29.594"W							
Depth Chlo (feet) field t		ide I	AB	PID	Description	Lithology			Well Construction					
SS 5 ft 10 ft 15 ft 20 ft 30 ft 30 ft 40 ft					NO SAMPLES TAKEN					2 in PVC		bentonite seal		
45 ft														

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Wel	l Co	onstruction
50 ft								
55 ft								
60 ft								
65 ft				NO SAMPLES TAKEN				
70 ft								sand pack
75 ft								
78 ft								

Hobbs Jct. E-33-1 (1R428-67) Unit Letter E, Section 33, T18S, R38E



Installing MW-2, facing east 2/14/13



Installing the casing in MW-2, facing south 2/14/13



Installing the sand pack, facing south 2/14/13



Installing the bentonite seal, facing south 2/14/13



Concreting the well in, facing east 2/14/13



Completed MW-2, facing east 2/14/13

Appendix C Photo Documentation

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

Hobbs Jct. E-33-1

UL/E Sec.33 (T18S-R38E)



Site prior to surface restoration,

2/3/2009



Seeding remediated area,

2/3/2009



Spreading imported topsoil

2/3/2009



Final photo, facing north

10/9/2014