

1R - 336

APPROVALS

YEAR(S):

2009

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Wednesday, March 11, 2009 3:04 PM
To: Haskell Conder
Cc: Lara Weinheimer; Katie Jones; Johnson, Larry, EMNRD; Price, Wayne, EMNRD; 'Gil Van Deventer'; Jones, Brad A., EMNRD
Subject: RE: 1R336 Termination - Plugging Report Approval

**RE: "Final Report and Request for Closure"
for the Rice Operating Company's
EME SWD I-1 Site
Unit Letter I, Section 1, T20S, R36E, Lea County, New Mexico
Remediation Plan (1R336) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring well plugging report for the EME SWD I-1 Site, dated March 10, 2009, and has conducted a review of the report. The plugging report, submitted for the above-referenced site, indicates that the Rice Operating Company has met the plugging requirements. Therefore, the OCD hereby approves the plugging report and gives notice that the OCD case file for the Remediation Plan (1R-336) is closed.

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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

From: Gil Van Deventer [mailto:gilbertvandeventer@suddenlink.net]
Sent: Wednesday, March 11, 2009 1:18 PM
To: Jones, Brad A., EMNRD
Cc: Lara Weinheimer; Katie Jones; Haskell Conder; Hansen, Edward J., EMNRD; Johnson, Larry, EMNRD; Price, Wayne, EMNRD
Subject: Re: 1R336 Termination
Importance: High

Hello Brad

Per NMOCD requirements, as requested by Edward Hansen in his email dated January 7, 2009 (as shown below), Rice Operating Company (ROC) submits the attached *Well Plugging Report and Request for Final Termination* for the BD I-1 SWD site (1R0336). A hard copy has also been sent today via USPS mail (Certified Mail Receipt No. 7099 3400 0017 1737 1737 1926).

Well plugging activities were conducted by Harrison & Cooper, Inc. (NM Permit #WD-1271) on February 9, 2009, in accordance with NMOCD requirements (1% to 3% mixture of bentonite clay in the cement grout). ROC received the plugging reports from the driller yesterday.

ROC looks forward to your acknowledgement that required actions have been performed for final termination of NMOCD Case No. 1R0336 and that no further actions are required. If you have any questions, please contact me at (432) 638-8740 or Hack Conder at (575) 393-9174.

Thanks - Gil

Gilbert J. Van Deventer, PG, REM
Trident Environmental
P. O. Box 7624, Midland TX 79708
Work/Mobile: 432-638-8740
Fax: 413-403-9968
Home: 432-682-0727

CONFIDENTIALITY NOTICE

This message (including attachments) is subject as a confidential communication and is intended solely for the use of the addressee. It is not intended for transmission to, or receipt by, any unauthorized person. If you are not the intended recipient or received these documents by mistake, please contact the sender by return e-mail. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, action or reliance upon the contents of the documents is strictly prohibited.

----- Original Message -----

From: Hansen, Edward J., EMNRD
To: Hack Conder
Cc: Price, Wayne, EMNRD ; Johnson, Larry, EMNRD ; Gil Van Deventer
Sent: Wednesday, January 07, 2009 7:20 PM
Subject: 1R336 Termination

**RE: "Final Report and Request for Closure"
for the Rice Operating Company's
EME SWD I-1 Site
Unit Letter I, Section 1, T20S, R36E, Lea County, New Mexico
Remediation Plan (1R336) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the closure report for the EME SWD I-1 Site, dated March 21, 2008, and has conducted a review of the report. The closure report, submitted for the above reference site, indicates that the Rice Operating Company (ROC) has completed the closure requirements. Therefore, the OCD hereby conditionally approves the closure report and gives notice that the Remediation Plan (1R-336) is terminated:

ROC must plug the groundwater monitoring wells with a cement grout of 1% to 3% bentonite. Please submit to the OCD a final plugging report within 60 days of receipt of this email.

Please be advised that NMOCD 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, NMOCD 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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

Hansen, Edward J., EMNRD

From: Gil Van Deventer [gilbertvandeventer@suddenlink.net]
Sent: Wednesday, March 11, 2009 1:18 PM
To: Jones, Brad A., EMNRD
Cc: Lara Weinheimer; Katie Jones; Haskell Conder; Hansen, Edward J., EMNRD; Johnson, Larry, EMNRD; Price, Wayne, EMNRD
Subject: Re: 1R336 Termination
Attachments: Plugging Report I-1.pdf
Importance: High

Hello Brad

Per NMOCD requirements, as requested by Edward Hansen in his email dated January 7, 2009 (as shown below), Rice Operating Company (ROC) submits the attached *Well Plugging Report and Request for Final Termination* for the BD I-1 SWD site (1R0336). A hard copy has also been sent today via USPS mail (Certified Mail Receipt No. 7099 3400 0017 1737 1737 1926).

Well plugging activities were conducted by Harrison & Cooper, Inc. (NM Permit #WD-1271) on February 9, 2009, in accordance with NMOCD requirements (1% to 3% mixture of bentonite clay in the cement grout). ROC received the plugging reports from the driller yesterday.

ROC looks forward to your acknowledgement that required actions have been performed for final termination of NMOCD Case No. 1R0336 and that no further actions are required. If you have any questions, please contact me at (432) 638-8740 or Hack Conder at (575) 393-9174.

Thanks - Gil

Gilbert J. Van Deventer, PG, REM
Trident Environmental
P. O. Box 7624, Midland TX 79708
Work/Mobile: 432-638-8740
Fax: 413-403-9968
Home: 432-682-0727

CONFIDENTIALITY NOTICE

This message (including attachments) is subject as a confidential communication and is intended solely for the use of the addressee. It is not intended for transmission to, or receipt by, any unauthorized person. If you are not the intended recipient or received these documents by mistake, please contact the sender by return e-mail. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution, action or reliance upon the contents of the documents is strictly prohibited.

----- Original Message -----

From: Hansen, Edward J., EMNRD
To: Hack Conder
Cc: Price, Wayne, EMNRD ; Johnson, Larry, EMNRD ; Gil Van Deventer
Sent: Wednesday, January 07, 2009 7:20 PM
Subject: 1R336 Termination

RE: "Final Report and Request for Closure"
for the Rice Operating Company's
EME SWD I-1 Site
Unit Letter I, Section 1, T20S, R36E, Lea County, New Mexico
Remediation Plan (1R336) Termination

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the closure report for the EME SWD I-1 Site, dated March 21, 2008, and has conducted a review of the report. The closure report, submitted for the above reference site, indicates that the Rice Operating Company (ROC) has completed the closure requirements. Therefore, the OCD hereby conditionally approves the closure report and gives notice that the Remediation Plan (1R-336) is terminated:

ROC must plug the groundwater monitoring wells with a cement grout of 1% to 3% bentonite. Please submit to the OCD a final plugging report within 60 days of receipt of this email.

Please be advised that NMOCD 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, NMOCD 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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

CERTIFIED MAIL
RETURN RECEIPT NO. 7099 3400 0017 1926



March 10, 2009

Mr. Brad Jones
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RE: **WELL PLUGGING REPORT AND REQUEST FOR FINAL TERMINATION
EME I-1 SWD OFFSITE ENCROACHMENT SITE
T20S, R36E, SECTION 1, UNIT LETTER I
NMOCD CASE No.: 1R0336**

Mr. Jones:

Per NMOCD requirements as requested by Edward Hansen in his email dated January 7, 2009 (Attachment A) Rice Operating Company (ROC) submits the attached well plugging reports (Attachment B) for the above-referenced site. Well plugging activities were conducted by Harrison & Cooper, Inc. (NM #WD-1271) on February 9, 2009, in accordance with NMOCD requirements (1% to 3% mixture of bentonite clay in the cement grout).

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

ROC looks forward to your acknowledgement that required actions have been performed for final termination of NMOCD Case No. 1R0336 and that no further actions are required. If you have any questions, please contact me at (432) 638-8740 or Hack Conder at (575) 393-9174.

Sincerely,

Gilbert J. Van Deventer, PG, REM

cc: Edward Hansen (NMOCD – Santa Fe, NM)
Hack Conder (Rice Operating Co. - Hobbs, NM)
Marvin Burrows (Rice Operating Co. - Hobbs, NM)

Attachments: A (email), B (Plugging reports and well diagrams), and C (Photodocumentation)

ATTACHMENT A

NMOCD Email (01/07/09)

Gil Van Deventer

From: "Hansen, Edward J., EMNRD" <edwardj.hansen@state.nm.us>
To: "Hack Conder" <hconder@riceswd.com>
Cc: "Price, Wayne, EMNRD" <wayne.price@state.nm.us>; "Johnson, Larry, EMNRD" <larry.johnson@state.nm.us>;
"Gil Van Deventer" <gilbertvandeventer@suddenlink.net>
Sent: Wednesday, January 07, 2009 7:20 PM
Subject: 1R336 Termination

**RE: "Final Report and Request for Closure"
for the Rice Operating Company's
EME SWD I-1 Site
Unit Letter I, Section 1, T20S, R36E, Lea County, New Mexico
Remediation Plan (1R336) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the closure report for the EME SWD I-1 Site, dated March 21, 2008, and has conducted a review of the report. The closure report, submitted for the above reference site, indicates that the Rice Operating Company (ROC) has completed the closure requirements. Therefore, the OCD hereby conditionally approves the closure report and gives notice that the Remediation Plan (1R-336) is terminated:

ROC must plug the groundwater monitoring wells with a cement grout of 1% to 3% bentonite. Please submit to the OCD a final plugging report within 60 days of receipt of this email.

Please be advised that NMOCD 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, NMOCD 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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

ATTACHMENT B

Well Plugging Reports

And

Well Completion Diagrams

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

harrisoncooper-drilling.com

Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	2/9/2009
Site	EME I-1-SWD
Well ID	MW-1
Casing Diameter	2"
Well Depth	42'
Casing Material	PVC
Plugging Material	3/8" Bentonite Chips Cement
Bentonite Interval	2'-42'
Bentonite Quantity	3
Cement Interval	0'-2'
Cement Quantity	1

Copies: File
Email (Lara Weinheimer)

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

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

harrisoncooper-drilling.com

Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	2/9/2009
Site	EME I-1-SWD
Well ID	MW-2
Casing Diameter	2"
Well Depth	42'
Casing Material	PVC
Plugging Material	3/8" Bentonite Chips Cement
Bentonite Interval	2'-42'
Bentonite Quantity	3
Cement Interval	0'-2'
Cement Quantity	1

Copies: File

Email (Lara Weinheimer)

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

harrisoncooper-drilling.com

Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	2/9/2009
Site	EME I-1-SWD
Well ID	MW-3
Casing Diameter	2"
Well Depth	41'
Casing Material	PVC
Plugging Material	3/8" Bentonite Chips Cement
Bentonite Interval	2'-41'
Bentonite Quantity	3
Cement Interval	0'-2'
Cement Quantity	1

Copies: File

Email (Lara Weinheimer)

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

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

harrisoncooper-drilling.com

Plugging Report

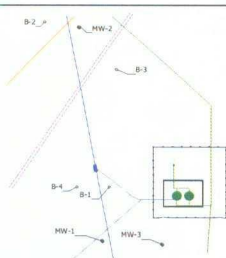
Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	2/9/2009
Site	EME I-1-SWD
Well ID	B-1
Casing Diameter	4"
Well Depth	20'
Casing Material	PVC
Plugging Material	3/8" Bentonite Chips Cement
Bentonite Interval	2'-20'
Bentonite Quantity	7
Cement Interval	0'-2'
Cement Quantity	1

Copies: File

Email (Lara Weinheimer)

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

LITHOLOGIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM



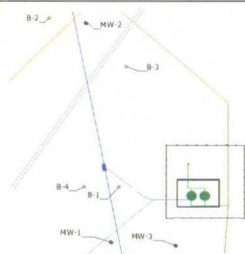
MONITOR WELL NO.: MW-1
 SITE ID: EME I-1
 CONTRACTOR: Eades Drilling & Pump Service
 DRILLING METHOD: Air Rotary
 START DATE: 02/06/06
 COMPLETION DATE: 02/06/06
 COMMENTS: Located ~30 ft southwest of where former Conoco 4" water line crosses former Rice 10" AC water line.

TOTAL DEPTH: 42 Feet
 CLIENT: Rice Operating Company
 COUNTY: Lea
 STATE: New Mexico
 LOCATION: T20S-R36E-Sec 1-Unit I
 FIELD REP.: G. Van Deventer

USCS	Sample		Chloride (ppm)	PID (ppm)	LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATURES
	Depth	Time			
SW					Tan fine to medium grained dune sand
SM	5				Alternating thin layers of reddish-brown (10R 4/6) and light olive gray (5Y 6/1) silty fine sand, subrounded, moderately sorted.
		0848	151	4	
CAL	10				Caliche with some fine-grained sand in matrix. Caliche is soft to moderately hard and is very pale orange (10 YR 8/2). Sand is pale yellowish brown (10 YR 6/2), moderately sorted, subangular grains.
		0858	598	0	
CAL/SW	15				Pale reddish brown (10R 4/6) silty fine to medium sand, moderately sorted, subrounded with veinlets of caliche. Caliche is soft and is very pale orange (10 YR 8/2). Caliche content decreasing with depth.
		0905	516	0	
SW	20				Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded. Groundwater encountered at approximately 31 ft below ground surface.
		0915	290	0	
	25				
		0928	276	0	
	30				
		0950	292	0	
	35				
	40				
	45				
	50				

Bottom of boring at 42 ft below ground surface.

LITHOLOGIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM

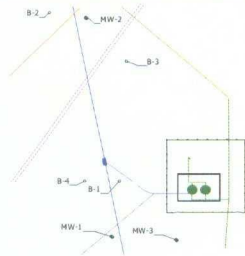


MONITOR WELL NO.: MW-2 TOTAL DEPTH: 42 Feet
 SITE ID: EME I-1 CLIENT: Rice Operating Company
 CONTRACTOR: Eades Drilling & Pump Service COUNTY: Lea
 DRILLING METHOD: Air Rotary STATE: New Mexico
 START DATE: 02/06/06 LOCATION: T20S-R36E-Sec 1-Unit I
 COMPLETION DATE: 02/08/06 FIELD REP.: G. Van Deventer
 COMMENTS: Located ~25 ft east of where Texaco low pressure gas line crosses former Rice 10" AC water line.

USCS	Sample			Chloride (ppm)	PID (ppm)	LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATURES
	Depth	Time	Type			
SW			Surface			Tan fine to medium grained dune sand
SM	5					Reddish-brown (10R 4/6) fine sand, subrounded, moderately sorted.
CAL/ SW	10	1143	Split Spoon	296	0	Caliche with some fine-grained sand in matrix. Caliche is soft to moderately hard and is very pale orange (10 YR 8/2). Sand is pale yellowish brown (10 YR 6/2), moderately sorted, subangular grains.
SW/ CAL	15	1151	Split Spoon	628	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded with caliche in matrix. Caliche is soft and is very pale orange (10 YR 8/2). Caliche content decreasing with depth.
	20	1156	Split Spoon	282	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded with less caliche in matrix. Caliche content decreasing with depth.
	25	1205	Split Spoon	268	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded with much less caliche in matrix.
SW	30	1244	Split Spoon	425	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded.
	35	1255	Split Spoon	211	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded. Groundwater encountered at approximately 31 ft below ground surface.
	40					
	45					Bottom of boring at 42 ft below ground surface.
	50					

12/20 Silica Sand Pack
 2" Diameter Screen with 0.010" Slots
 12/20 Silica Sand Pack
 3/8 Bentonite Hole Plug
 2" Sched 40 PVC Blank Casing
 3/8 Bentonite Hole Plug
 Cement
 Cement
 5"

LITHOLOGIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM



MONITOR WELL NO.: MW-3
 SITE ID: EME I-1
 CONTRACTOR: Eades Drilling & Pump Service
 DRILLING METHOD: Air Rotary
 START DATE: 02/08/06
 COMPLETION DATE: 02/08/06
 COMMENTS: Located ~170 ft southeast (downgradient) of boring B-1.

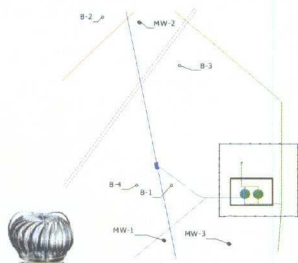
TOTAL DEPTH: 41 Feet
 CLIENT: Rice Operating Company
 COUNTY: Lea
 STATE: New Mexico
 LOCATION: T20S-R36E-Sec 1-Unit I
 FIELD REP.: G. Van Deventer

USCS	Sample			Chloride (ppm)	PID (ppm)	LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATURES
	Depth	Time	Type			
SW			Surface			Tan fine to medium grained dune sand
SM	5	1455	Split Spoon	384	0	Alternating thin layers of reddish-brown (10R 4/6) and light olive gray (5Y 6/1) silty fine sand, subrounded, moderately sorted.
CAL/ SW	10	1503	Split Spoon	650	0	Caliche with some fine-grained sand in matrix. Caliche is soft to moderately hard and is very pale orange (10 YR 8/2). Sand is pale yellowish brown (10 YR 6/2), moderately sorted, subangular grains.
SW/ CAL	15	1509	Split Spoon	779	0	Pale reddish brown (10R 4/6) silty fine to medium sand, moderately sorted, subrounded with veinlets of caliche. Caliche is soft and is very pale orange (10 YR 8/2). Caliche content decreasing with depth.
	20	1517	Split Spoon	2249	0	Light brown (5R 5/6) fine to medium sand, moderately sorted, subrounded.
	25	1528	Split Spoon	846	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded.
SW	30	1538	Split Spoon	892	0	Pale reddish brown (10R 4/6) fine to medium sand, moderately sorted, subrounded. Groundwater encountered at approximately 31 ft below ground surface.
	35					
	40					
	45					
	50					

5"

Bottom of boring at 41 ft below ground surface.

LITHOLOGIC LOG AND MONITORING WELL CONSTRUCTION DIAGRAM



MONITOR WELL NO.: B-1
 SITE ID: EME I-1
 CONTRACTOR: Eades Drilling & Pump Service
 DRILLING METHOD: Air Rotary
 START DATE: 02/08/06
 COMPLETION DATE: 02/08/06
 COMMENTS: Located adjacent to southwest corner of excavated area that has been backfilled and lined with clay.

TOTAL DEPTH: 32 Feet
 CLIENT: Rice Operating Company
 COUNTY: Lea
 STATE: New Mexico
 LOCATION: T20S-R36E-Sec 1-Unit I
 FIELD REP.: G. Van Deventer

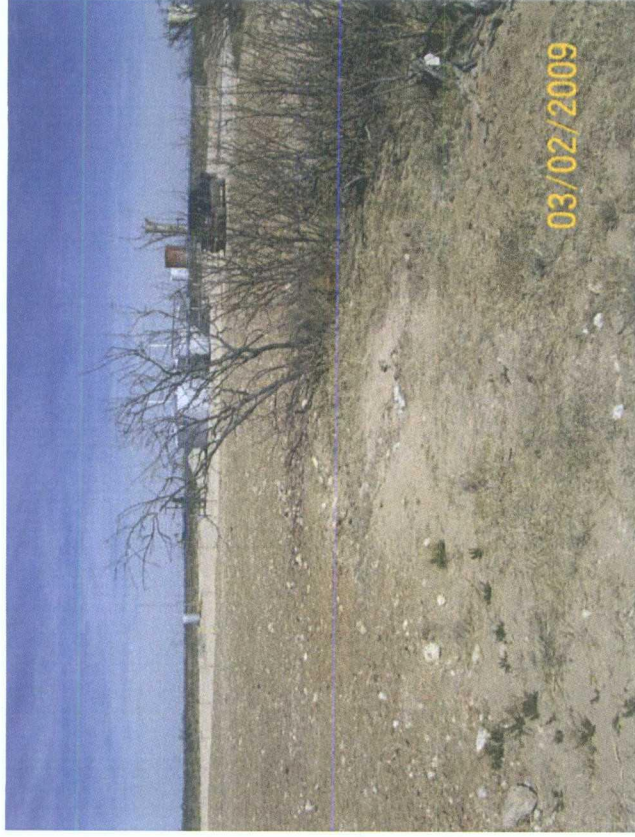
This boring was converted into a 4" diameter passive vapor recovery well and fitted with a wind-powered turbine.

USCS	Sample		Chloride (ppm)	PID (ppm)	LITHOLOGIC DESCRIPTION: LITHOLOGY, COLOR, GRAIN SIZE, SORTING, ROUNDING, CONSOLIDATION, DISTINGUISHING FEATURES
	Depth	Type			
SW		Surface			Tan fine-grained dune sand and caliche cover.
SM	5				Light brown (5R 5/6), greenish gray (5Y 6/1), and brownish black (5YR 2/1) silty fine sand, subrounded, moderately sorted, very moist with strong hydrocarbon odor, some oil seepage at 6 ft.
		1139 Split Spoon	122	477	
CAL/ SW	10				Caliche with some fine-grained sand in matrix and strong hydrocarbon odor. Caliche is soft to moderately hard and is light greenish gray (5GY 8/1). Sand is pale yellowish brown (10YR 6/2), moderately sorted, subangular grains.
		1149 Split Spoon	140	539	
SM/ CAL	15				Pale reddish brown (10R 4/6) silty fine to medium sand, moderately sorted, subrounded with caliche in matrix. Strong hydrocarbon odor. Caliche is soft and is very pale orange (10YR 8/2). Caliche content decreasing with depth.
		1157 Split Spoon	85	458	
	20				
		1207 Split Spoon	56	7	Pale red (10R 6/2) fine to medium sand, moderately sorted, subrounded.
SW	25				
		1218 Split Spoon	84	6	Pale reddish brown (10R5/4) fine to medium sand, moderately sorted, subrounded.
	30				
		1229 Split Spoon	85	15	Pale red (10R 6/2) fine to medium sand, moderately sorted, subrounded. Groundwater encountered at approximately 31 ft below ground surface.
					Bottom of boring at 32 ft below ground surface.
	35				
	40				
	45				
	50				

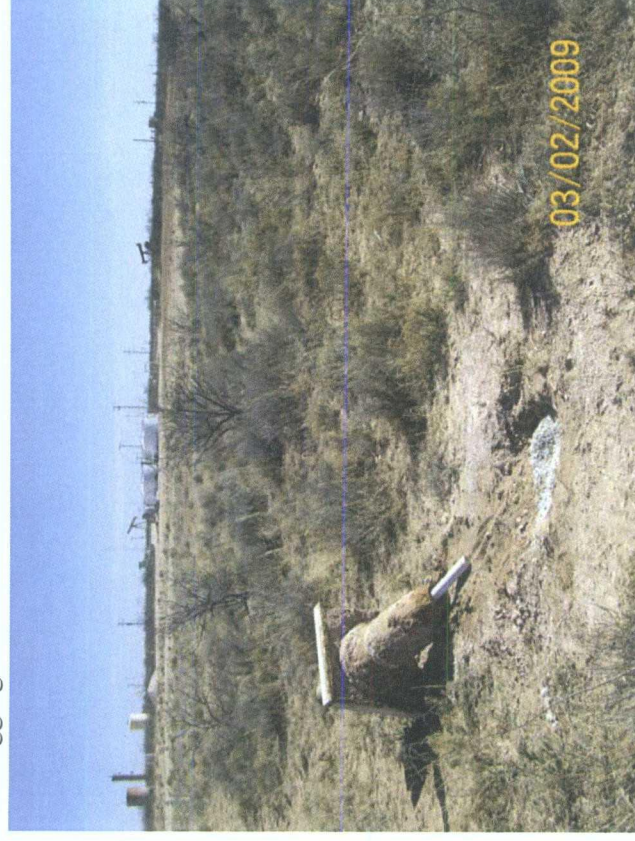
ATTACHMENT C

Photodocumentation

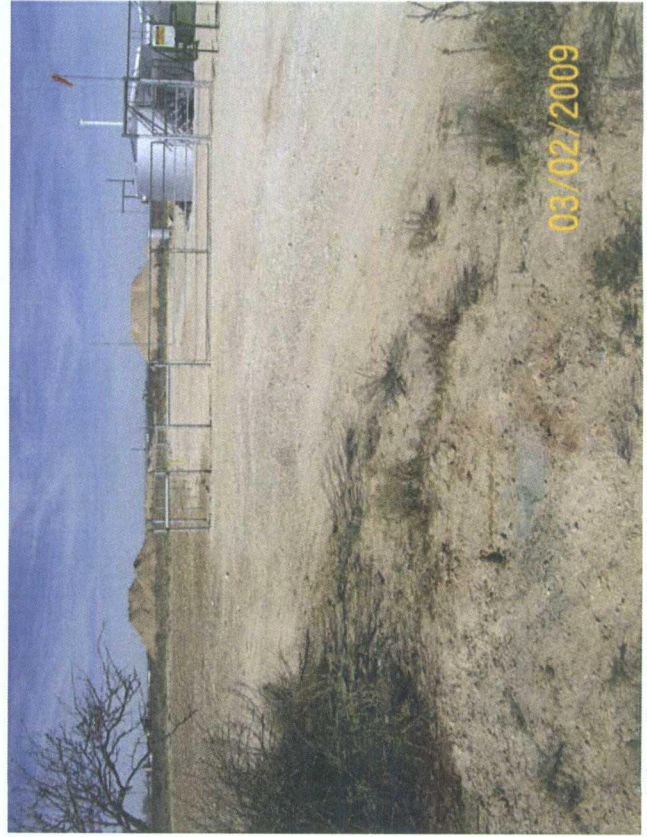
EME I-1 SWD Well Plugging



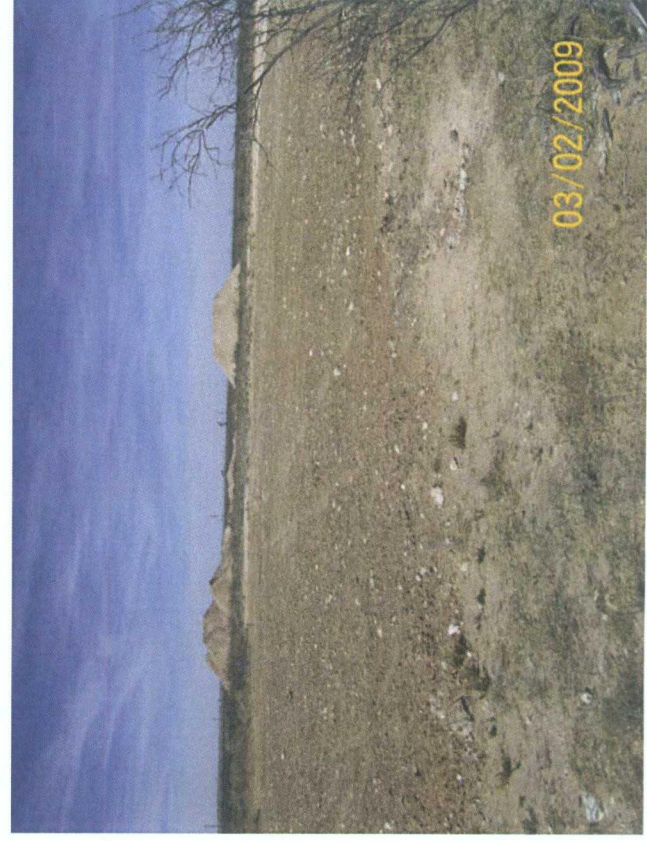
View facing northeast showing former location of MW-1 center).



View facing southeast showing former location of MW-2 (foreground).



View facing north showing former location of MW-3 (foreground).



View facing north showing former location of B-1 (lower left).

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Wednesday, January 21, 2009 9:40 AM
To: 'Hack Conder'
Cc: Price, Wayne, EMNRD
Subject: RE: 1R336 Termination

Dear Mr. Conder:

The Remediation Plan (1R336) Termination approval (see below) also includes the following condition:

ROC must plug the passive vapor extraction well with a cement grout of 1% to 3% bentonite. Please submit to the OCD a final plugging report within 60 days of receipt of the OCD's email of January 7, 2008 regarding the above-referenced termination.

Please be advised that NMOCD approval of this termination 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, NMOCD 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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

From: Hack Conder [mailto:hconder@riceswd.com]
Sent: Tuesday, January 20, 2009 6:03 PM
To: Hansen, Edward J., EMNRD
Subject: RE: 1R336 Termination

Ed,
The termination request included all wells to be plug including the passive vapor extraction well. We have a rig scheduled for the first of February to do this work and the termination response did not include the vapor extraction well. I wanted to make sure that it is oaky to plug all wells.

Thanks Hack

Hack Conder
Environmental Manager
Rice Operating Company
575-393-9174
Fax 575-397-1471

From: Hansen, Edward J., EMNRD [mailto:edwardj.hansen@state.nm.us]
Sent: Wednesday, January 07, 2009 5:21 PM
To: Hack Conder
Cc: Price, Wayne, EMNRD; Johnson, Larry, EMNRD; Gil Van Deventer
Subject: 1R336 Termination

**RE: "Final Report and Request for Closure"
for the Rice Operating Company's
EME SWD I-1 Site
Unit Letter I, Section 1, T20S, R36E, Lea County, New Mexico
Remediation Plan (1R336) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the closure report for the EME SWD I-1 Site, dated March 21, 2008, and has conducted a review of the report. The closure report, submitted for the above reference site, indicates that the Rice Operating Company (ROC) has completed the closure requirements. Therefore, the OCD hereby conditionally approves the closure report and gives notice that the Remediation Plan (1R-336) is terminated:

ROC must plug the groundwater monitoring wells with a cement grout of 1% to 3% bentonite. Please submit to the OCD a final plugging report within 60 days of receipt of this email.

Please be advised that NMOCD 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, NMOCD 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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

This inbound email has been scanned by the MessageLabs Email Security System.

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Wednesday, January 07, 2009 5:21 PM
To: 'Hack Conder'
Cc: Price, Wayne, EMNRD; Johnson, Larry, EMNRD; 'Gil Van Deventer'
Subject: 1R336 Termination

**RE: "Final Report and Request for Closure"
for the Rice Operating Company's
EME SWD I-1 Site
Unit Letter I, Section 1, T20S, R36E, Lea County, New Mexico
Remediation Plan (1R336) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the closure report for the EME SWD I-1 Site, dated March 21, 2008, and has conducted a review of the report. The closure report, submitted for the above reference site, indicates that the Rice Operating Company (ROC) has completed the closure requirements. Therefore, the OCD hereby conditionally approves the closure report and gives notice that the Remediation Plan (1R-336) is terminated:

ROC must plug the groundwater monitoring wells with a cement grout of 1% to 3% bentonite. Please submit to the OCD a final plugging report within 60 days of receipt of this email.

Please be advised that NMOCD 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, NMOCD 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 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau