

AP - 42

Plugging  
STAGE 2  
REPORT

Date  
10-1-10

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# ARCADIS

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ARCADIS U.S., Inc.  
1004 North Big Spring Street  
Suite 300  
Midland  
Texas 79701  
Tel 432 687 5400  
Fax 432 687 5401  
www.arcadis-us.com

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

Environmental

Subject:

**WELL PLUGGING REPORT  
Jct. M-16-1, EME SWD System  
Unit M, SEC. 16, T20S, R37E  
NMOCD CASE #AP-42 Termination**

Date:  
October 1, 2010

Mr. Hansen:

Contact:  
Sharon E. Hall

On behalf of Rice Operating Company (ROC), ARCADIS U.S., Inc. (ARCADIS) respectfully submits this Well Plugging Report for the above-referenced site per NMOCD's August 16, 2010 notification that the remediation plan is terminated in accordance with 19.15.30.29B NMAC, and request for a final well plugging report. Monitoring wells (MW-1, MW-2, MW-3, MW-4, and RW-1) were plugged on September 14, 2010 with a cement grout containing 1% to 3% bentonite and a three foot cap of cement at the surface. The monitoring well plugging reports and photo documentation are attached.

Phone:  
432 687-5400

Email:  
shall@arcadis-us.com

ROC acknowledges they have met the requirements of 19.15.30.9 NMAC, the NMOCD terminated the remediation plan (AP-42) in accordance with 19.15.30.19.B NMAC and no further actions are warranted.

Our ref:  
MT000834.0001

Rice Operating Company is the service provider (agent) for the EME Salt Water Disposal (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 Parties, who provide all operating capital on a percentage ownership/usage basis.

If you have any questions please contact Hack Conder at (575) 393-9174.

Sincerely,  
ARCADIS U.S.  
*Sharon E. Hall*  
Sharon E. Hall  
Associate Vice President

Page:  
1/2

**Mr. Ed Hansen**  
**October 1, 2010**

Copies:

Hack Conder, ROC

Attachments:

Well Plugging Reports

Site Seeding Reports and Photographs

Use or disclosure of information contained on this sheet is subject to the restriction and disclaimer located on the signature page of this document.

# HARRISON & COOPER, INC.

*Drilling & Pump Professionals*

7414 85<sup>th</sup> Street, Lubbock, Texas 79424-4951

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

Ph: (806) 866-4026

Fax: (806) 866-4044

[harrisoncooper-drilling.com](http://harrisoncooper-drilling.com)

## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	9/14/2010
Site	EME Jct. M-16-1
Well ID	MW-1
Casing Diameter	2"
Well Depth	35'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-35'
Cement Interval	0'-3'

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Email (Lara Weinheimer)

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	9/14/2010
Site	EME Jct. M-16-1
Well ID	MW-2
Casing Diameter	2"
Well Depth	35'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-35'
Cement Interval	0'-3'

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	9/14/2010
Site	EME Jct. M-16-1
Well ID	MW-3
Casing Diameter	2"
Well Depth	35'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-35'
Cement Interval	0'-3'

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	9/14/2010
Site	EME Jct. M-16-1
Well ID	MW-4
Casing Diameter	2"
Well Depth	35'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-35'
Cement Interval	0'-3'

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	9/14/2010
Site	EME Jct. M-16-1
Well ID	RW-1
Casing Diameter	4"
Well Depth	57'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-57'
Cement Interval	0'-3'

Copies: File

Email (Lara Weinheimer)

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EME Jct. M-16-1 (AP-42)  
Unit M, SEC. 16, T20S, R37E



plugging MW-1



plugging MW-4



plugging MW-2



plugging RW-1



plugging MW-3