

AP - 60

APPROVALS

YEAR(S):

2011

**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Thursday, May 26, 2011 11:29 AM  
**To:** 'Hack Conder'  
**Cc:** Leking, Geoffrey R, EMNRD; 'Katie Jones'; lpg@texerra.com  
**Subject:** Plugging Report Approval - (AP-60) Rice EME K-33-1

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has reviewed the groundwater monitoring well plugging report, dated May 16, 2011, for the above-referenced site. The OCD hereby approves the report as fulfillment of the Abatement Plan, AP-60.

Also, 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 questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen  
Hydrologist  
Environmental Bureau

**L. Peter Galusky, Jr. Ph.D., P.G.**

**Texerra**

**75 Wuthering Heights Drive Colorado Springs, CO 80921  
Tel: 719-339-6791 E-mail: lpg@texerra.com**

**May 16<sup>th</sup>, 2011**

2011 MAY 19 A 11: 21

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

**Re: Monitor Well Plugging & Abandonment Reports  
Rice Operating Company  
Sarah Phillips EOL – NMOCD Case Number 1R-427-17  
K-33-1 Jct - NMOCD AP-60**

Sent via E-mail and Certified U.S. Mail w Return Receipt No. 7011 0110 0001 5863 4806

Mr. Hansen:

Please be advised that Rice Operating Company has plugged and abandoned the monitor wells (MW-1, MW-2, MW-3 and MW-4) located at the EME K-33-1 site and the single monitor well (MW-1) at the Sarah Phillips EOL site per the specifications given in the NMOCD notices of termination sent via e-mail on February 21<sup>st</sup>, 2011. These monitor wells were plugged on March 23<sup>rd</sup>, 2011 with cement grout containing between 1% to 3% bentonite and a 3 foot cap of cement (see photographs in Figures 1&2 and attached driller's reports). With this action we understand that Rice Operating Company has fulfilled their requirements under 19.15.29 NMAC and 19.15.30 NMAC for these projects.

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.

Thank you for your consideration.

Sincerely,



L. Peter Galusky, Jr. Ph.D.

Attachment: Driller's monitor well plugging & abandonment reports  
Copy: Rice Operating Company

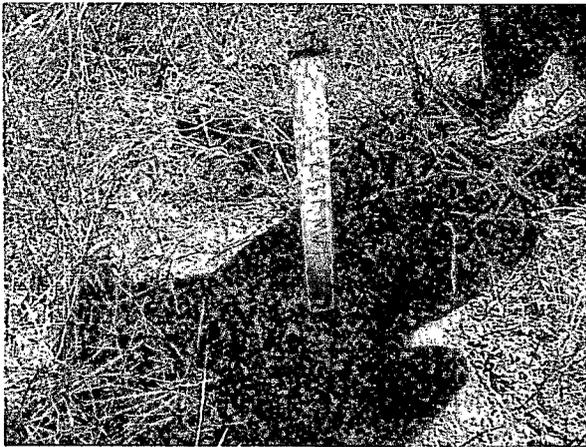
**Figure 1a – EME K-33-1 plugging and abandonment of monitor wells.**



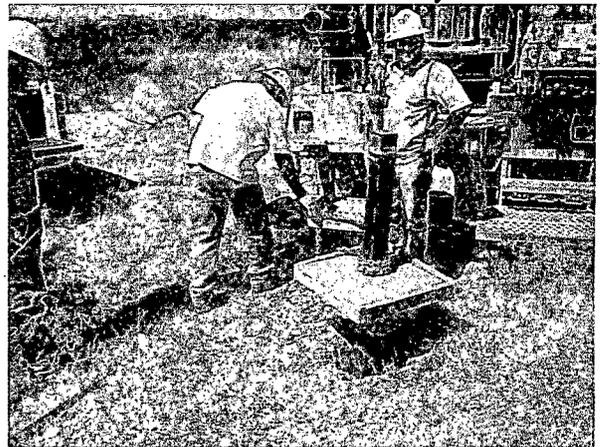
**Pulling MW-1**



**Plugging the well with 1-3% bentonite/concrete slurry**



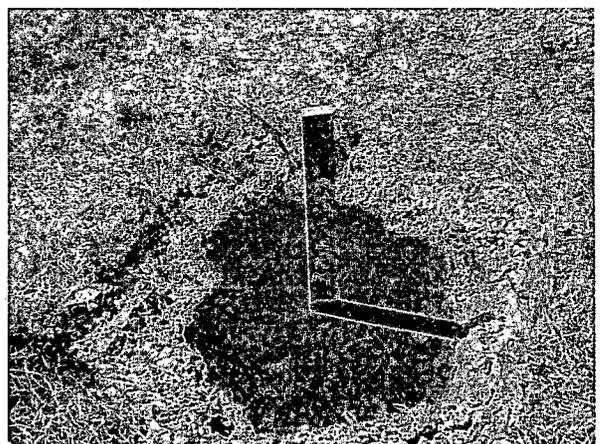
**Plugged and abandoned MW-1**



**Pulling MW-2**

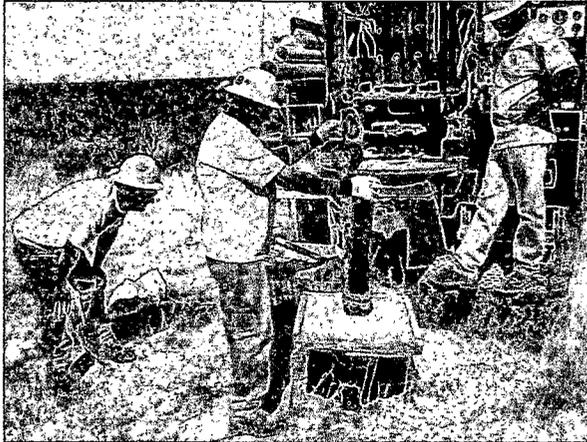


**Plugging the well with 1-3% bentonite/concrete slurry**

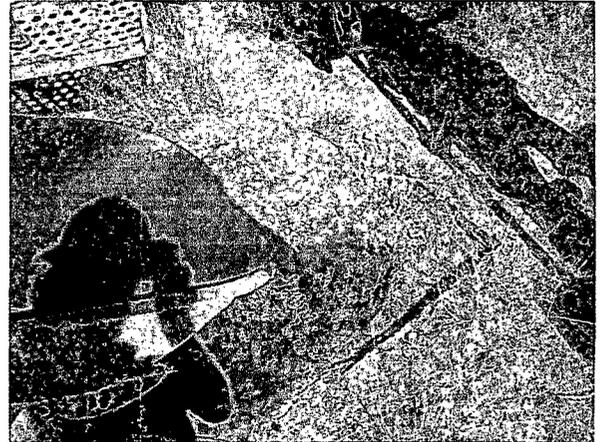


**Plugged and abandoned MW-2**

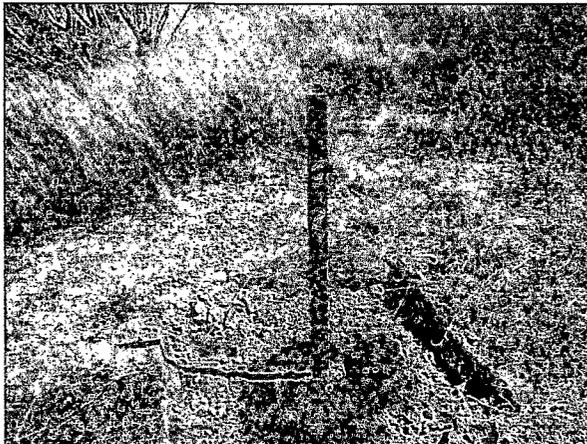
**Figure 1b – EME K-33-1 plugging and abandonment of monitor wells.**



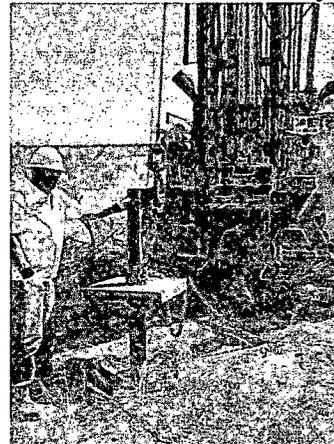
**Pulling MW-3**



**Plugging the well with 1-3% bentonite/concrete slurry**



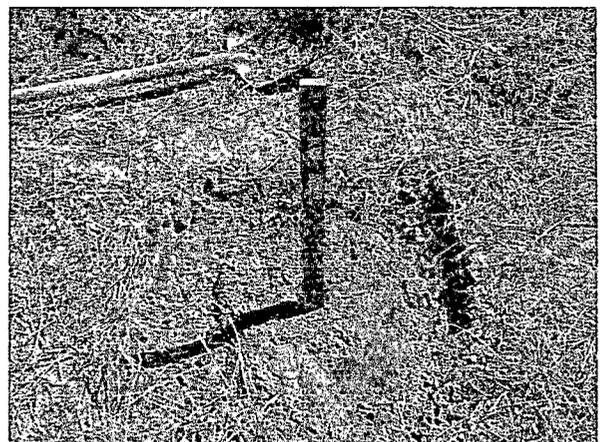
**Plug and abandoned MW-3**



**Pulling MW-4**



**Plugging the well with 1-3% bentonite/concrete slurry**



**Plug and abandoned MW-4**

# 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

[hcidrill.com](http://hcidrill.com)

## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	3/23/2011
Site	EME K-33-1
Well ID	MW-1
Casing Diameter	2"
Well Depth	41'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-41'
Cement Interval	0'-3'

Copies: File

Email (Lara Weinheimer; Katie Jones)

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

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	3/23/2011
Site	EME K-33-1
Well ID	MW-2
Casing Diameter	2"
Well Depth	45'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-45'
Cement Interval	0'-3'

Copies: File

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	3/23/2011
Site	EME K-33-1
Well ID	MW-3
Casing Diameter	2"
Well Depth	46'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-46'
Cement Interval	0'-3'

Copies: File

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## Plugging Report

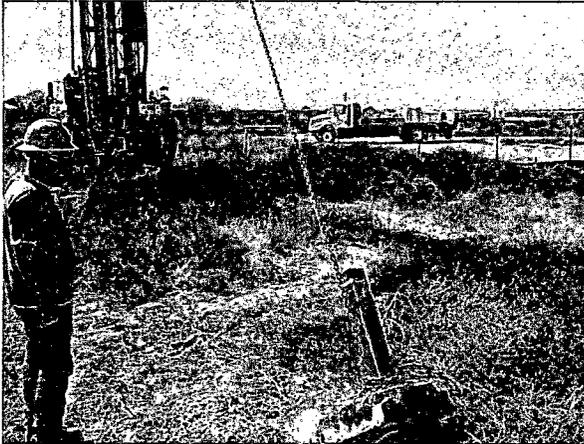
Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	3/23/2011
Site	EME K-33-1
Well ID	MW-4
Casing Diameter	2"
Well Depth	48'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-48'
Cement Interval	0'-3'

Copies: File

Email (Lara Weinheimer; Katie Jones)

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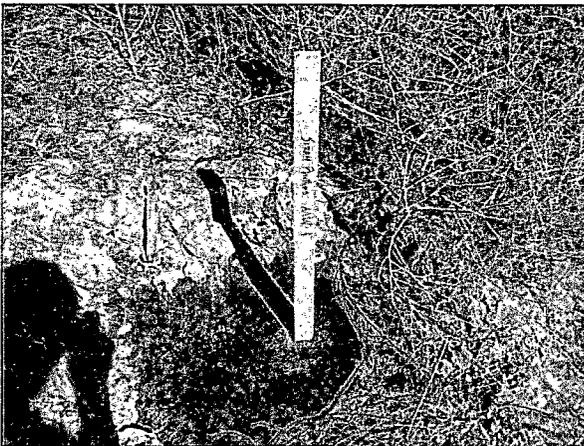
**Figure 2 – EME Sarah Phillips EOL plugging & abandonment of monitor wells.**



**Pulling MW-1**



**Plugging the bore with 1-3% bentonite/concrete slurry**



**Completed plug and abandon**

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	3/23/2011
Site	EME Sarah Phillips EOL
Well ID	MW-1
Casing Diameter	2"
Well Depth	44'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-44'
Cement Interval	0'-3'

Copies: File

Email (Lara Weinheimer; Katie Jones)

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**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Monday, February 21, 2011 2:41 PM  
**To:** Hack Conder  
**Cc:** Leking, Geoffrey R, EMNRD; 'Scott Curtis'; 'Marvin Burrows'; 'Katie Jones'; lpg@texerra.com  
**Subject:** Abatement Plan (AP-60) Termination - ROC EME K-33-1 Site

**RE: Groundwater Monitoring Report and Remediation Termination Request  
for the Rice Operating Company's  
EME K-33-1 Site  
Unit Letter K, Section 33, T19S, R37E, NMPM, Lea County, New Mexico  
Abatement Plan (AP-60) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site (dated December 22, 2010) and addendum (dated February 18, 2011). The report is acceptable to the OCD. Please submit to the OCD a final plugging report for groundwater monitoring wells (MW-1, MW-2, MW-3 and MW-4) at the site within 90 days of receipt of this notice.

The above-referenced report, submitted in accordance with 19.15.30.19 NMAC [Section 19 of (Part 30; formally, Rule 19)], indicates that Rice Operating Company has met the requirements of 19.15.30.9 NMAC; therefore, the OCD approves the report and hereby notifies you that the abatement plan (AP-60) is terminated in accordance with 19.15.30.19.B 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 505-476-3489.

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