

1R - 487

Plugging  
REPORTS

DATE:

2-22-13

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

Sent Certified Mail  
Return Receipt No. 7002 2410 0001 5813 4194

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**  
**Hobbs N-6 Pipeline Leak Site**  
**Unit N, SEC. 5& 6, T19S, R38E, NMOCD Case #1R-487**

Date:  
February 22, 2013

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 December 3, 2012 notification that ROC has conditionally met the requirements of 19.15.29 NMAC (Rule 29; formally, Rule 116). Monitoring wells MW-3, MW-3R, PZ-3, PZ-4, and BS-3 were plugged on December 17, 2012 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 19.15.29 NMAC and will continue to monitor the remaining wells at the site, including IWW-1 if possible.

Our ref.  
MT000910.0001

Rice Operating Company is the service provider (agent) for the Hobbs Salt Water Disposal (SWD) System and has no ownership of any portion of pipeline, well, or facility. The Hobbs 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

Copies:  
Hack Conder, ROC

Attachments: Well Plugging Reports and Photographs

# HARRISON & COOPER, INC.

*Drilling & Pump Professionals*

Ph: (806) 866-4026

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

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

Fax: (806) 866-4044

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

## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	12/17/2012
Site	Hobbs N-6
Well ID	MW-3
Casing Diameter	4"
Well Depth	155'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-155'
Cement Interval	0'-3'

Copies: File  
Email (Rice)

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	12/17/2012
Site	Hobbs N-6
Well ID	MW-3R
Casing Diameter	2"
Well Depth	56'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-56'
Cement Interval	0'-3'

Copies: File  
Email (Rice)

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## Plugging Report

Client	Rice Operating <sup>l</sup>
Contractor	Harrison & Cooper
Date Completed	12/17/2012
Site	Hobbs N-6
Well ID	PZ-3
Casing Diameter	2"
Well Depth	37'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-37'
Cement Interval	0'-3'

Copies: File  
Email (Rice)

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	12/17/2012
Site	Hobbs N-6
Well ID	PZ-4
Casing Diameter	2"
Well Depth	37'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-37'
Cement Interval	0'-3'

Copies: File  
Email (Rice)

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## Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	12/17/2012
Site	Hobbs N-6
Well ID	BS-3
Casing Diameter	4"
Well Depth	70'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-70'
Cement Interval	0'-3'

Copies: File  
Email (Rice)

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

**Hobbs N-6 leak (1R-487)  
Unit N, Section 6, T19S, R38E**



Plugging MW-3 with a 1-3% bentonite/concrete slurry with a 3 ft concrete cap, facing south  
12/17/12



MW-3 plugged and abandoned, facing south  
12/17/12



Plugging MW-3R with a 1-3% bentonite/concrete slurry with a 3 ft concrete cap, facing south  
12/17/12



Pulling concrete base free of MW-3R, facing southeast  
12/17/12



MW-3R plugged and abandoned, facing south  
12/17/12



Plugging PZ-4 with a 1-3% bentonite/concrete slurry with a 3 ft concrete cap, facing north  
12/17/12



Pulling concrete base free of PZ-4, facing southwest 12/17/12



PZ-4 plugged and abandoned, facing south 12/17/12



Plugging PZ-3 with a 1-3% bentonite/concrete slurry with a 3 ft concrete cap, facing north 12/17/12



Pulling concrete base free of PZ-3, facing east 12/17/12



PZ-3 plugged and abandoned, facing north 12/17/12



Plugging BS-3 with a 1-3% bentonite/concrete slurry with a 3 ft concrete cap, facing north 12/17/12



Pulling concrete base free of BS-3, facing east  
12/17/12



BS-3 plugged and abandoned, facing northeast  
12/17/12

**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Monday, December 03, 2012 3:07 PM  
**To:** Katie Jones <kjones@riceswd.com> (kjones@riceswd.com)  
**Cc:** Leking, Geoffrey R, EMNRD; Hack Conder (hconder@riceswd.com); Laura Pena (lpena@riceswd.com); sharon.hall@arcadis-us.com  
**Subject:** Well Plugging Request (1R-487) Approval - ROC Hobbs N-6 Pipeline Leak Site

**RE: Well Plugging Request for the Rice Operating Company's  
Hobbs N-6 Pipeline Leak Site  
Unit Letter N, Section 5 & 6, T19S, R38E, NMPM, Lea County, New Mexico  
Well Plugging Request (1R-487) Approval**

Dear Ms. Jones:

The New Mexico Oil Conservation Division (OCD) has received the well plugging request (dated November 30, 2012) and additional information of December 3, 2012, for the above-referenced site. The request indicates that Rice Operating Company (ROC) has met the requirements of 19.15.29 NMAC (Rule 29; formerly, Rule 116) for a remediation plan. Therefore, the OCD hereby conditionally approves the request as proposed for above-referenced site in accordance with 19.15.29 NMAC:

ROC must continue to monitor the remaining wells at the site (including IWW-1 if possible).

ROC must submit to the OCD a plugging report within 90 days.

Please be advised that OCD approval of this request 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

**Hansen, Edward J., EMNRD**

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**From:** Katie Jones <kjones@riceswd.com>  
**Sent:** Friday, November 30, 2012 1:46 PM  
**To:** Hansen, Edward J., EMNRD  
**Cc:** Hack Conder; Hall, Sharon; Laura Pena  
**Subject:** ROC - Hobbs N-6 (1R-487) Plugging Request  
**Attachments:** Hobbs N-6 (1R-487).jpg

Mr. Hansen,

Rice Operating Company (ROC) respectfully requests to plug and abandon monitoring wells located at the above referenced site. Recent development adjacent to the Hobbs N-6 (1R-487) site has encompassed MW-3, MW-3R, BS-3, PZ-3 and PZ-4. The wells are now located in the roadway and entrance gate to a oilfield storage yard. Due to safety concerns, ROC requests to plug and abandon the wells using a cement grout with 1-3% bentonite and a 3 ft cap of cement on the surface. If you have any questions or require any additional information, please contact Hack Conder or myself at (575)393-9174.

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

Thank you.

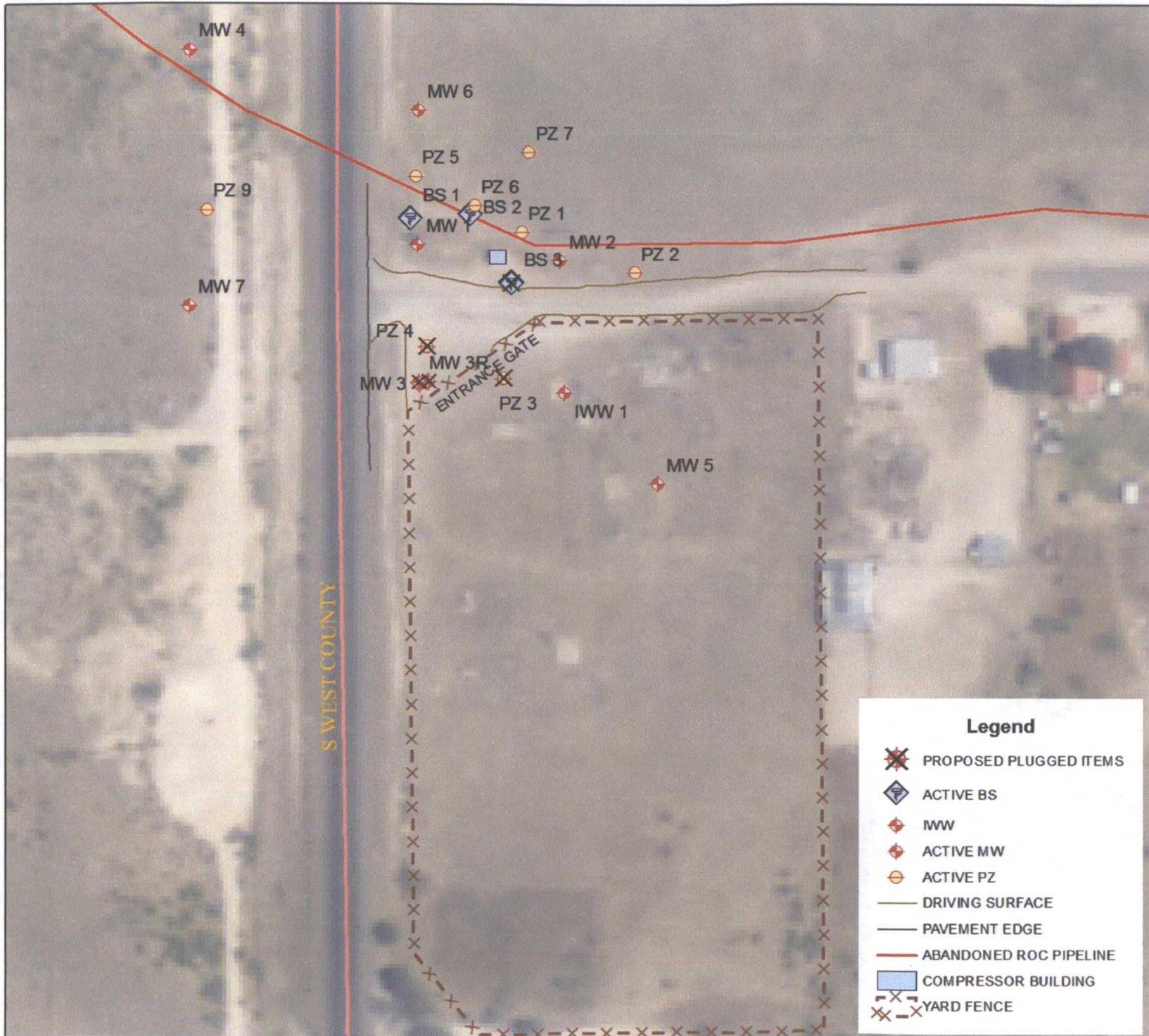
Katie Jones  
Environmental Project Manager  
RICE *Operating Company*



### HOBBS N-6 LEAK

UL N SECTION 5&6  
T-19-S R-38-E  
LEA COUNTY, NM

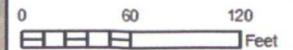
1R-487



#### Legend

-  PROPOSED PLUGGED ITEMS
-  ACTIVE BS
-  IWW
-  ACTIVE MW
-  ACTIVE PZ
-  DRIVING SURFACE
-  PAVEMENT EDGE
-  ABANDONED ROC PIPELINE
-  COMPRESSOR BUILDING
-  YARD FENCE

DGW = 43 FT



Drawing date: 11/6/12  
Drafted by: TONY GRIECO

**Hansen, Edward J., EMNRD**

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**From:** Katie Jones <kjones@riceswd.com>  
**Sent:** Monday, December 03, 2012 1:43 PM  
**To:** Hansen, Edward J., EMNRD  
**Cc:** Hack Conder; Laura Pena; Hall, Sharon  
**Subject:** ROC - Hobbs N-6 (1R-487) Plugging Request: Additional Information  
**Attachments:** ROC - Hobbs N-6 (1R-487) MW Data.pdf

Mr. Hansen,

Attached is the 2012 quarterly sampling data for the IWW 1 and MW-5 located at Hobbs N-6 (1R-487), as requested. If you have any questions or require any additional information, please contact myself at (575)393-9174 or Hack Conder at (575)631-6432.

Thank you.

Katie Jones  
Environmental Project Manager  
*RICE Operating Company*

**ROC Hobbs N-6 Leak (1R-487)**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
5	41.48	51.29	6.4	30	3/20/2012	36	490	<0.001	<0.001	<0.001	<0.003	91.1	Clear No odor
5	41.67	51.29	6.3	30	6/14/2012	36	487	<0.001	<0.001	<0.001	<0.003	90.6	Clear No odor
5	41.87	51.29	6.1	30	9/11/2012	36	485	<0.001	<0.001	<0.001	<0.003	89.8	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
IWW 1	43.18	97.9	55.8	200	3/21/2012	88	567	<0.001	<0.001	<0.001	<0.003	84.5	Clear No odor
IWW 1	43.46	97.9	55.5	200	6/15/2012	92	493	<0.001	<0.001	<0.001	<0.003	77	Clear No odor
IWW 1	43.57	97.9	55.4	200	9/12/2012	72	573	<0.001	<0.001	<0.001	<0.003	97.4	Clear No odor