

AP - 48

Plugging
STAGE 1 & 2
REPORTS

DATE:

12-11-12



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December 11, 2012

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

Re: Monitoring Well Plugging Report, Rice Operating Company, Justis Saltwater Disposal System (SWD) L-1 Boot, Unit L, Section 1, T-25-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-0 (AP-48)

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Tetra Tech, Inc. (Tetra Tech) submits the following Monitoring Well Plugging Report for the Justis Saltwater Disposal System (SWD) L-1 boot (NMOCD AP-48). ROC is the service provider (agent) for the Justis SWD system and has no ownership of any portion of the pipeline, well or facility. The Justis SWD system is owned by a consortium of oil producers, Systems Parties, who provide all operating capital on a percentage ownership/usage basis.

On September 7, 2012, ROC submitted a Termination Request for this site to the NMOCD. The Termination Request was approved by the NMOCD on September 13, 2012. As part of the Termination Request, on October 16, 2012, all five (5) monitor wells (MW-1 through MW-5) were properly plugged using a cement grout with 1% to 3% bentonite and a 3-foot cap of cement at the surface. The concrete pads and surface completions were removed during the plugging operations. RW-1 was left in place to monitor up-gradient groundwater quality. Copies of the Plugging Reports and photographs of the plugging activities are attached to this report.

The groundwater recovery system was dismantled and removed from the site. The area was then reseeded with native vegetation and vegetation is expected to return to native vegetative capacity. Seeding Documentation along

Tetra Tech

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Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

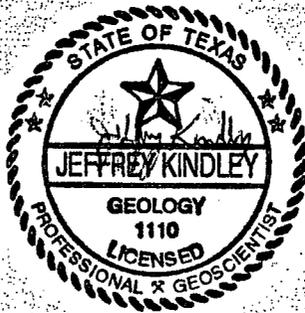


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with photographs depicting the reseeded of the site is included as part of this report.

ROC acknowledges they have met the requirements of 19.15.30 NMAC, the NMOCD terminated the remediation plan (AP-48) in accordance with 19.15.30 NMAC and no further action is required.

If you require any additional information or have any questions or comments concerning the plugging report, please contact Hack Conder of ROC at (575) 393-9174.



Respectfully Submitted,
Tetra Tech, Inc.



Jeffrey Kindley, P.G.
Senior Project Manager

cc: Hack Conder – ROC
Enclosures: Plugging Reports, Photographs, Reseeding Documentation

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

hcidrill.com

Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	10/16/2012
Site	Justis L-1 boot
Well ID	MW-1
Casing Diameter :	2"
Well Depth	90'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-90'
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	10/16/2012
Site	Justis L-1 boot
Well ID	MW-2
Casing Diameter	2"
Well Depth	90'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-90'
Cement Interval	0'-3'

Copies: File
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Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	10/16/2012
Site	Justis L-1 boot
Well ID	MW-3
Casing Diameter	2"
Well Depth	90'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-90'
Cement Interval	0'-3'

Copies: File
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Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	10/16/2012
Site	Justis L-1 boot
Well ID	MW-4
Casing Diameter	2"
Well Depth	90'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-90'
Cement Interval	0'-3'

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Plugging Report

Client	Rice Operating
Contractor	Harrison & Cooper
Date Completed	10/16/2012
Site	Justis L-1 boot
Well ID	MW-5
Casing Diameter	2"
Well Depth	88'
Casing Material	PVC
Plugging Material	Portland/Bentonite Slurry
Slurry Interval	3'-88'
Cement Interval	0'-3'

Copies: File
Email (Rice)

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**Justis L-1 boot
Unit L, Section 1, T-25-S, R-37-E**



Pulling MW-1, facing southeast 10/16/12



Plugging MW-1 with a 1-3% bentonite/concrete slurry and a 3 ft concrete cap 10/16/12



Completed plug and abandonment of MW-1, facing north 10/16/12



Pulling MW-2, facing south 10/16/12



Plugging MW-2 with a 1-3% bentonite/concrete slurry and a 3 ft concrete cap 10/16/12



Completed plug and abandonment of MW-2, facing south 10/16/12



Pulling MW-3, facing north 10/16/12



Plugging MW-3 with a 1-3% bentonite/concrete slurry and a 3 ft concrete cap 10/16/12



Completed plug and abandonment of MW-3, facing north 10/16/12



Pulling MW-4, facing southeast 10/16/12



Plugging MW-4 with a 1-3% bentonite/concrete slurry and a 3 ft concrete cap 10/16/12



Completed plug and abandonment of MW-3, facing southeast 10/16/12



Pulling MW-5, facing east 10/16/12



Plugging MW-5 with a 1-3% bentonite/concrete slurry and a 3 ft concrete cap 10/16/12



Completed plug and abandonment of MW-5, facing east 10/16/12



PO Box 5630
 Hobbs, NM 88241
 Phone: (575) 393-4411
 Fax: (575) 393-0293

REVEGETATION FORM

1. General Information

Site name: Justis L-1 boot						
U/L	Section	Township	Range	County	Latitude	Longitude
L	1	T25S	R37E	LEA	N-32°9'24.865"	W-103°7'23.766"
Contact Name: Bruce Baker						
Email: bbaker@rice-ecs.com						
Site size: 6,528 square feet			Map detail of site attached <input type="checkbox"/>			
Additional information:						

2. Soils

**Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site <input type="checkbox"/>	Bioremediated <input type="checkbox"/>	Imported <input type="checkbox"/>	Blended <input type="checkbox"/>	Depth (in):	
Texture:		Describe soil & subsoil:			
Soil prep methods:	Rip <input type="checkbox"/>	Depth(in): 6"	Disc <input checked="" type="checkbox"/>	Depth (in): 3"	Rollerpack <input type="checkbox"/>
Date completed: 9/12/12					

3. Bioremediation

Fertilizer <input type="checkbox"/>	Hay <input type="checkbox"/>	Other <input type="checkbox"/>
Type:	Describe	
Lbs/acre:		

4. Seeding

**Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom seed mix <input checked="" type="checkbox"/>	Prescribed mix <input type="checkbox"/>	Seed mix name: Dooms Mix 10 LBS.	Seeding date: 11/28/12
Broadcast <input checked="" type="checkbox"/>			
Method: Drop Seeder			
Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/>			
Photos attached <input type="checkbox"/>	Observations:		
Number of photos:			

5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name: Robert Egans	Title: Environmental Tech	Date: 11/28/2012
Signature: <i>Robert Egans</i>		

**Justis L-1 boot (AP-48)
Unit L, Section 1, T25S, R37E**



**Groundwater recovery system
Facing East 6/27/2012**



**Seeding the site after the removing the recovery system
Facing east 11/28/2012**



Site complete, facing east 11/28/2012