

1R - 425-64

APPROVALS

YEAR(S):

2011

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Monday, July 25, 2011 3:49 PM
To: 'hconder@riceswd.com'
Cc: Leking, Geoffrey R, EMNRD; 'Katie Jones'; 'Dale Littlejohn'
Subject: Remediation Plan (1R425-64) Termination - ROC Vacuum F-25 EOL Site

**RE: Termination Request
for the Rice Operating Company's
Vacuum F-25 EOL Site
Unit Letter F, Section 25, T17S, R35E, NMPM, Lea County, New Mexico
Remediation Plan (1R425-64) 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 June 30, 2011 (received July 5, 2011). The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Part 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R425-64) is terminated in accordance with 19.15.29 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.

Edward J. Hansen
Hydrologist
Environmental Bureau

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, May 26, 2011 2:41 PM
To: 'Katie Jones'
Cc: Leking, Geoffrey R, EMNRD; 'Hack Conder'
Subject: RE: Vacuum F-25 EOL (1R425-64) Extension Request

**RE: Remediation Plan (1R425-64) Extension Approval
for the Rice Operating Company's
Vacuum F-25 EOL Site
Unit Letter F, Section 25, T17S, R35E, NMPM, Lea County, New Mexico**

Dear Ms. Jones:

The New Mexico Oil Conservation Division (OCD) has reviewed your request for extension of the submittal of the corrective actions report for the Remediation Plan (1R425-64) for the above-referenced site. The OCD hereby approves the request for extension of the submittal until Friday, July 1, 2011.

Please be advised that OCD approval of this extension 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: Katie Jones [<mailto:kjones@riceswd.com>]
Sent: Thursday, May 26, 2011 1:03 PM
To: Hansen, Edward J., EMNRD
Cc: Hack Conder
Subject: Vacuum F-25 EOL (1R425-64) Extension Request

Mr. Hansen,

RICE Operating Company (ROC) respectfully requests an additional 30 days to complete and finalize the Vacuum F-25 EOL (1R425-64) the corrective actions approved by NMOCD on February 1, 2011. Liner installation is complete and the site requires seeding to complete corrective actions. With NMOCD approval, the site will be seeded and a final report will be submitted by July 1, 2011. If you have any questions or require any additional information, please contact me at (575)393-9174 or Hack Conder at (575)631-6432.

Thank you.

Katie Jones
Environmental Project Coordinator
RICE Operating Company

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Tuesday, February 01, 2011 12:09 PM
To: Hack Conder
Cc: Leking, Geoffrey R, EMNRD; 'Katie Jones'; 'Katie Lee'
Subject: Corrective Action Plan (1R425-64) Approval - Vacuum F-25 EOL Site

**RE: "Corrective Action Plan"
for the Rice Operating Company's (ROC)
Vacuum F-25 EOL Site
Unit Letter F, Section 25, T17S, R35E, NMPM, Lea County, New Mexico
Corrective Action Plan (1R425-64) Approval**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received the Corrective Action Plan for the Vacuum F-25 EOL Site, dated November 23, 2010 (and addendum dated January 31, 2011) and has conducted a review of the Plan. The Plan indicates that Rice Operating Company (ROC) has met the requirements of 19.15.29 NMAC (Part 29; formerly, Rule 116) for a remediation plan. Therefore, the OCD hereby conditionally approves the Corrective Action Plan as proposed for above-referenced site in accordance with 19.15.29 NMAC:

ROC must submit to the OCD a final report of the corrective actions within 120 days.

Please be advised that OCD approval of this Plan 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

Modeling Inputs for the F-25 Site Predictive Modeling

Modeling Inputs for the F-25 Site Predictive Modeling	
Input Parameter	Source
Vadose Zone Thickness - 60 feet	From Nearby Well logs
Vadose Zone Texture	Five Boring logs from the site
Dispersion Length – 10% of model length	Standard Modeling Practice
Climate	46.5 years of Pearl N.M. Weather Station data
Soil Moisture	HYDRUS-1D initial condition simulation
Initial soil chloride Concentration Profile	Chloride Concentration data from the 3 trenches and 5 borings
Aquifer Thickness – 15 feet	Conservative assumption
Background Chloride in Ground Water 45 mg/L	PTTC/PRRC Chloride Concentration Data
Ground Water Flux – 2.1 cm/day (0.07 feet/day)	Calculated with conservative hydraulic conductivity estimate and slope of topography
Length of release parallel to ground water flow - 42 feet	Largest possible diameter of the site

The proposed remedy for the site consists of a 30-foot by 30-foot liner placed at the bottom of a 4-foot deep excavation centered over the site. Clean fill is to be placed above the liner and vegetation will be established. Figure 3, below, is a schematic cross section of the remedy for the site.

Cross Section of the Remedy Design for the F-25 EOL Site

