

STATE OF
COLORADO

Andrews - DNR, Doug <doug.andrews@state.co.us>

Form 2A review for Noble's COPPERHEAD LD14-04 & LD15-04 locations - Doc #400453312 & 4004567122 messages

Andrews - DNR, Doug <doug.andrews@state.co.us>

Wed, Aug 28, 2013 at 2:31 PM

To: smiller@nobleenergyinc.com

Susan,

I have reviewed both of the referenced Form 2A Oil & Gas Location Assessments and have the same request for additional information for both of them.

Please provide me with **site-specific** best management practices for the proposed water vaults that indicates how they will be installed to ensure protection from a release at the oil and gas location.

In the future, whenever Noble submits a Form 2A where the oil and gas location will include partially buried water vaults, please include the BMPs regarding them on the Form 2A as these appear to now be a common production equipment at Noble oil and gas locations. If you have any questions, please feel free to contact me. Thank you.

—

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Area
Colorado Oil & Gas Conservation Commission
1120 Lincoln St., Suite 801
Denver, CO 80203

doug.andrews@state.co.us
303-894-2100 Ext. 5180

LLindow@nobleenergyinc.com <LLindow@nobleenergyinc.com>

Tue, Sep 3, 2013 at 3:22 PM

To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Cc: SMiller@nobleenergyinc.com, KMiller@nobleenergyinc.com

Hi Doug,

Please accept the following for a water vault BMP. I am covering for Susan while she is out this week, please email me on any follow up questions.

1. A contiguous spray liner will be installed and will underlay the entire tank battery. The location of a partially buried cement water vault will be excavated prior to liner install.
2. A 60 bbl cement water vault will be utilized to collect excess produced water from oil tanks. Produced water in the vault will be removed as needed and disposed of in an approved UIC disposal well. The cement water vault is one piece with no seams designed to minimize potential for leaks. All piping associated with the use of the water vault will be aboveground and visually inspected on a regular basis.
3. The partially buried cement water vault will be installed above the spray in liner.
4. A sized steel secondary containment ring will be installed surrounding the entire tank battery. Sand and gravel bedding will be installed to protect the liner prior to placing equipment in the containment area.

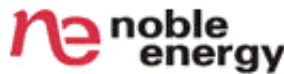
Thanks,

Liz Lindow
Regulatory Analyst
Noble Energy, Inc.
1625 Broadway, Suite 2200
Office: 720-587-2079
Cell: 303-590-8789

From: Susan Miller/Denver/NobleEnergy/Samedan
To: Liz Lindow/Contractor/Denver/NobleEnergy/Samedan@SAMEDAN
Date: 09/03/2013 03:01 PM
Subject: Fw: EXTERNAL: Form 2A review for Noble's COPPERHEAD LD14-04 & LD15-04 locations - Doc #400453312 & 400456712

Susan Miller
Regulatory Analyst III
EHS&R

direct: 303-228-4246
cell: 303-946-1657
fax: 303-228-4286
smiller@nobleenergyinc.com



----- Forwarded by Susan Miller/Denver/NobleEnergy/Samedan on 09/03/2013 03:01 PM -----

From: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
To: smiller@nobleenergyinc.com
Date: 08/28/2013 02:31 PM
Subject: EXTERNAL: Form 2A review for Noble's COPPERHEAD LD14-04 & LD15-04 locations - Doc #400453312 & 400456712

[Quoted text hidden]

The information contained in this e-mail and any attachments may be confidential. If you are not the intended recipient, please understand that dissemination, copying, or using such information is prohibited. If you have received this e-mail in error, please immediately advise the sender by reply e-mail and delete this e-mail and its attachments from your system.