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FORM

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Rev 6/99

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax: (303)894-2109



FOR OGCC USE ONLY

SEP 02 2010

COGCC

## EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the  
Attachment Checklist

Oper OGCC

## FORM SUBMITTED FOR:

☐ Pit Report☒ Pit Permit

Detailed Site Plan		
Topo Map w/ Pit Location	✓	
Water Analysis (Form 25)		
Source Wells (Form 26)		
Pit Design Plan & Cross Sect	✓	
Design Calculations	✓	
Sensitive Area Detern.	✓	
Mud Program		
Form 2A		

OGCC Operator Number: 10120

Name of Operator: Noble Energy, Inc.

Address: 804 Grand Avenue

City: Platteville State: CO Zip: 80651

Contact Name and Telephone:

Todd Cullum

No: 970-785-5000

Fax: 970-785-5099

API Number (of associated well): 05-121-07044

OGCC Facility ID (of other associated facility):

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): SWNE, 11, 2N, 54W, 6

Latitude: 40.15611

Longitude: -103.38531

County: Washington

Pit Use: ☒ Production ☐ Drilling (Attach mud program) ☐ Special Purpose (Describe Use):Pit Type: ☒ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☒ NoOffsite disposal of pit contents: ☒ Injection ☒ Commercial Pit/Facility Name: Pit/Facility No:

Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

## Existing Site Conditions

Is the location in a "Sensitive Area?" ☐ Yes ☒ No Attach data used for determination.

Distance (in feet) to nearest surface water: 5,438 ground water: 17 water wells: 1,222

LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:Crop Land: ☒ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRPNon-Crop Land: ☐ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe):Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units from USNRCS survey: Sheet No: Soil Complex/Series No: 71

Soils Series Name: Valent Sand, 9 to 30 percent slopes Horizon thickness (in inches): A: ; B: ; C:

Soils Series Name: Horizon thickness (in inches): A: ; B: ; C:

Attach detailed site plan and topo map with pit location.

## Pit Design and Construction

Size of pit (feet): Length: 100 Width: 63 Depth: 9

Calculated pit volume (bbls): 5,000 Daily inflow rate (bbls/day): 3,000

Daily disposal rates (attach calculations): Evaporation: 3,000 bbls/day Percolation: 0 bbls/day

Type of liner material: Reinforced Polyethylene Thickness: 0.45 millimeters

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): Separator

Is pit fenced? ☒ Yes ☐ No Is pit netted? ☒ Yes ☐ No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Todd Cullum

Signed: *Todd Cullum*

Title: Environmental Specialist

Date: 9-1-10

OGCC Approved: *[Signature]* Title: EPS Date: 9/2/10

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER: 117711

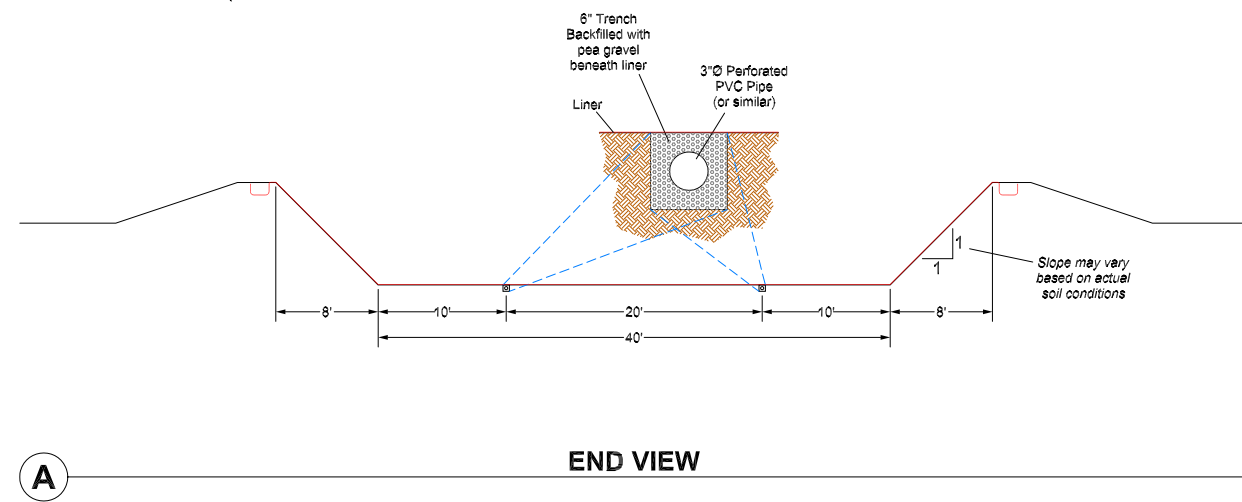
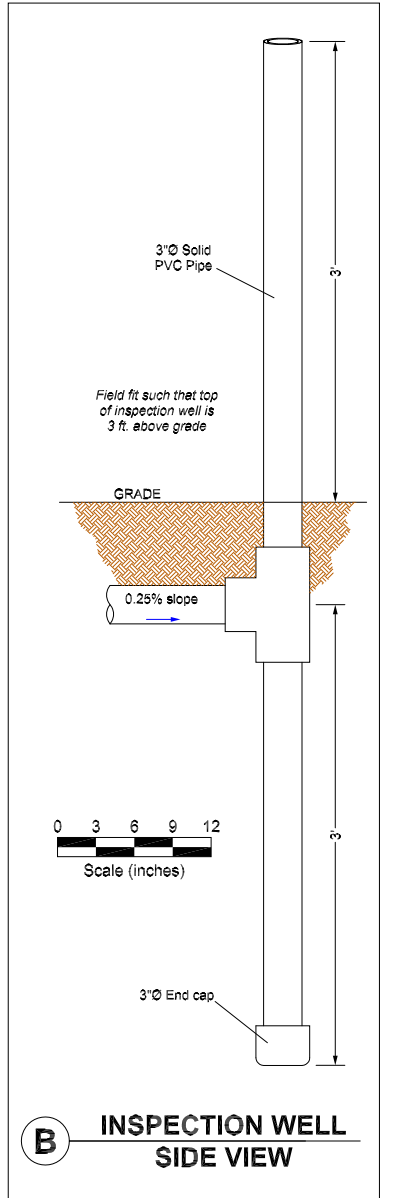
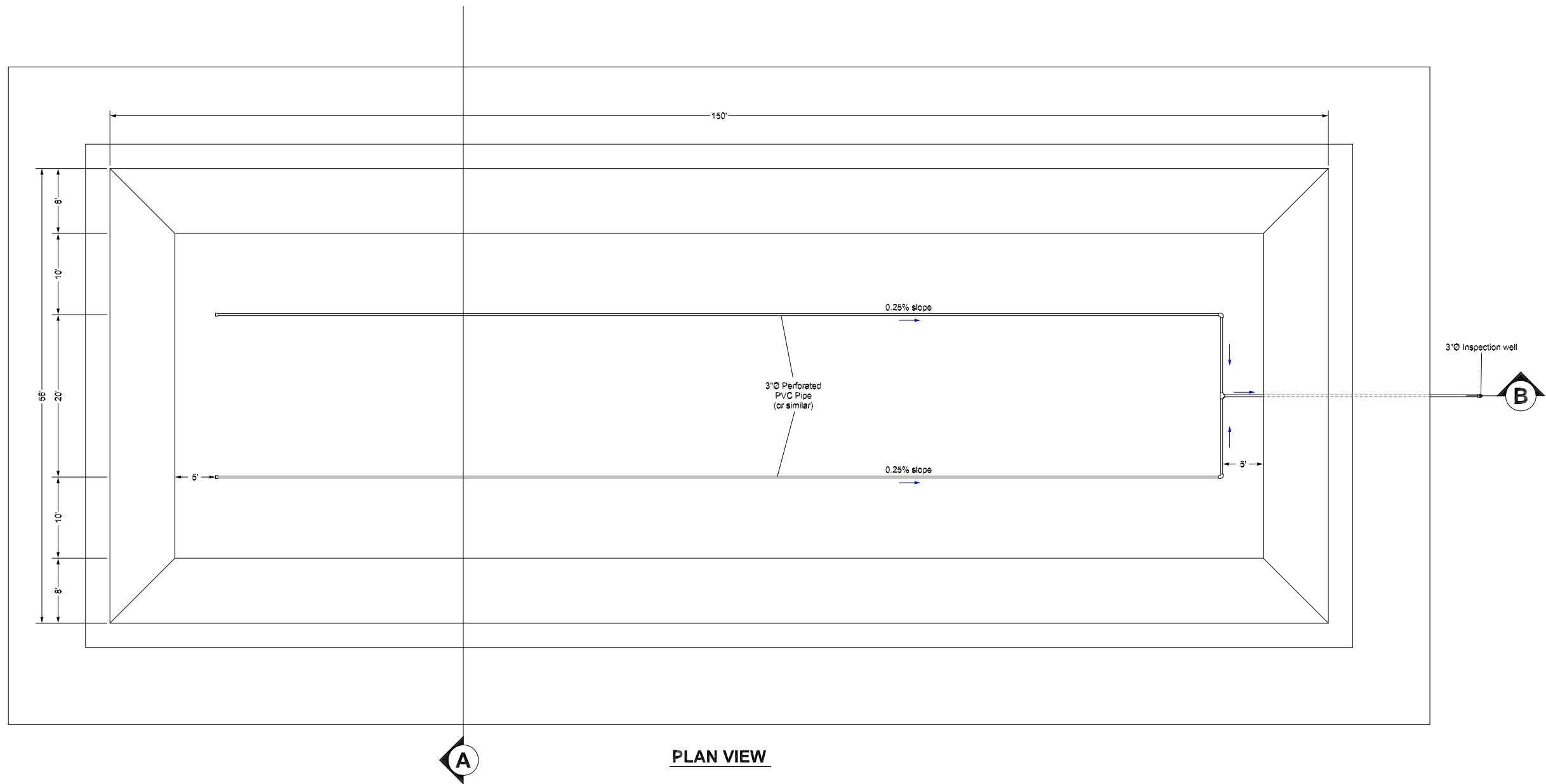
Addendum to existing facility. Previous unlined skim pits were properly closed. Reference COGCC Remediation #5200. Replaced with one lined skim pit. *[Signature]*

**FORM 15 ATTACHMENTS**  
**XENIA WEST UNIT TANK BATTERY**

**Sensitive Area Determination**

The Xenia West Unit Tank Battery is located 0.6 miles east of the intersection of Washington County Road (WCR) 40 and WCR U, in Washington County. The legal location is southwest-northeast, Section 11 Township 2N Range 54W. The surrounding land to the north, east, south and west is graded for agricultural use. Elevation at the facility is approximately 4,820 feet above sea level. The first encountered shallow alluvial table is generally located at 17 feet below surface grade. The groundwater flow is anticipated to flow to the west. The nearest body of water is located approximately 1.3 miles to the west. The nearest water well is located approximately 0.2 miles to the west, and is use for agricultural purposes.

Based on the surrounding land use, distance to ground water, surface water, and water wells from the site, the location is considered a non-sensitive area.



<p>Figure 5</p> <p><b>LEAK DETECTION SYSTEM</b></p> <p><b>Noble Energy - Xenia Lease</b>  SW NE Section 11, T2N R54W  Washington County, Colorado</p>			
Project No. C010-007	Prepared by JMA	Drawn by JMA	
Date 7/22/10	Reviewed by	Filename 10007L	