

State of Colorado  
**Oil and Gas Conservation Commission**

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



DOCUMENT  
#2216414

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RECEIVED  
9/14/2011

**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	<input checked="" type="checkbox"/>	
Topo Map w/ Pit Location	<input checked="" type="checkbox"/>	
Water Analysis (Form 25)		
Source Wells (Form 28)		
Pit Design/Plan & Cross Sect		
Design Calculations		
Sensitive Area Determ.		
Mud Program		
Form 2A		

OGCC Operator Number: 100185

Name of Operator: Encana Oil & Gas (USA) Inc.

Address: 370 17th Street, Suite 1700

City: Denver State: CO Zip: 80202

Contact Name and Telephone:

Chris Hines

No: 970-285-2653

Fax: \_\_\_\_\_

API Number (of associated well): 334732 (Location ID)

OGCC Facility ID (of other associated facility): \_\_\_\_\_

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNW Sec. 21 T7S R9SW (PD-21)

Latitude: 39.429275

Longitude: 108.007744

County: Garfield

Pit Use: ☒ Production

☐ Drilling (Attach mud program)

☐ Special Purpose (Describe Use): \_\_\_\_\_

Pit Type: ☒ Lined

☐ Unlined

Surface Discharge Permit: ☐ Yes ☐ No

Offsite disposal of pit contents: ☐ Injection

☒ Commercial

Pit/Facility Name: PD

Pit/Facility No: NA 21

**Attach Form 28 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: ~315 ground water: ~140 water wells: ~1710

**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

☐ CRP

Non-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 form USNRCS survey: Sheet No: \_\_\_\_\_

Soil Complex/Series No: 56

Soils Series Name: Potts Loam

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: ~200

Width: ~150

Depth: ~12

Calculated pit volume (bbls): 53,430

Daily inflow rate (bbls/day): \_\_\_\_\_

Daily disposal rates (attach calculations):

Evaporation: \_\_\_\_\_

bbls/day

Percolation: \_\_\_\_\_

bbls/day

Type of liner material: HDPE

Thickness: 30 mil

**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): Mechanical Settling/Separating

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: Heather Mitchell

Signed: Heather Mitchell

Title: REgulatory Analyst

Date: 09/26/2011

OGCC Approved: Greg D'Amico

Title: For Greg D'Amico

Date: 10/05/2011

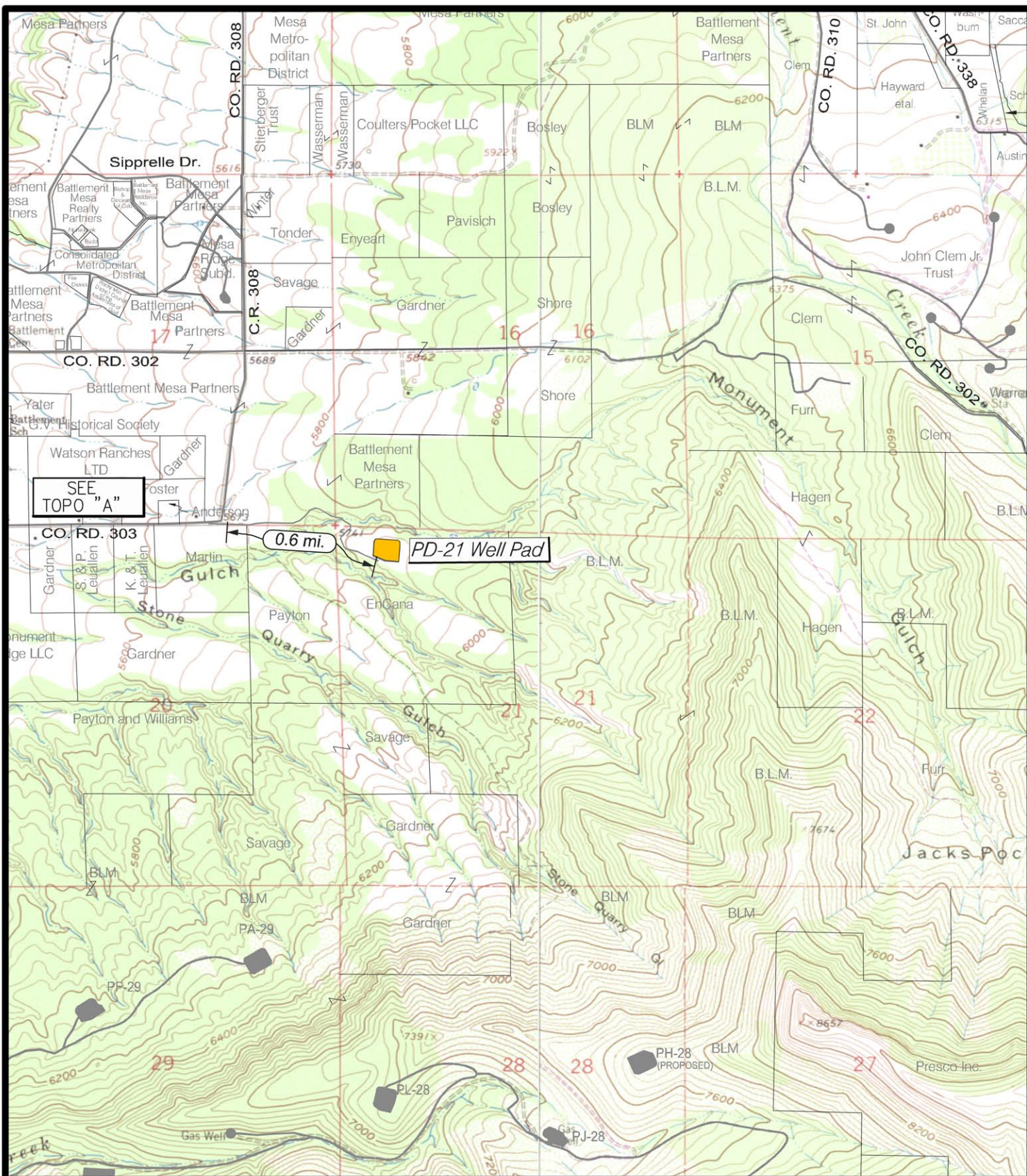
**CONDITIONS OF APPROVAL, IF ANY:**

Pit report submitted retroactively.  
to establish pit facility ID #  
for closure purposes.

Form 27 to be submitted shortly.

**FACILITY NUMBER: 425753**

OGCA Supervisor



**EnCana Oil & Gas (USA) Inc.**

**Well Pad PD-21-7-95**

**Section 21, T7S, R95W, 6th P.M.**

**Garfield County, Colorado**



906 Main Street  
Evanston, Wyoming 82930  
Phone No. (307) 789-4545

DATE: JANUARY 4, 2006

SCALE: 1" = 2000'

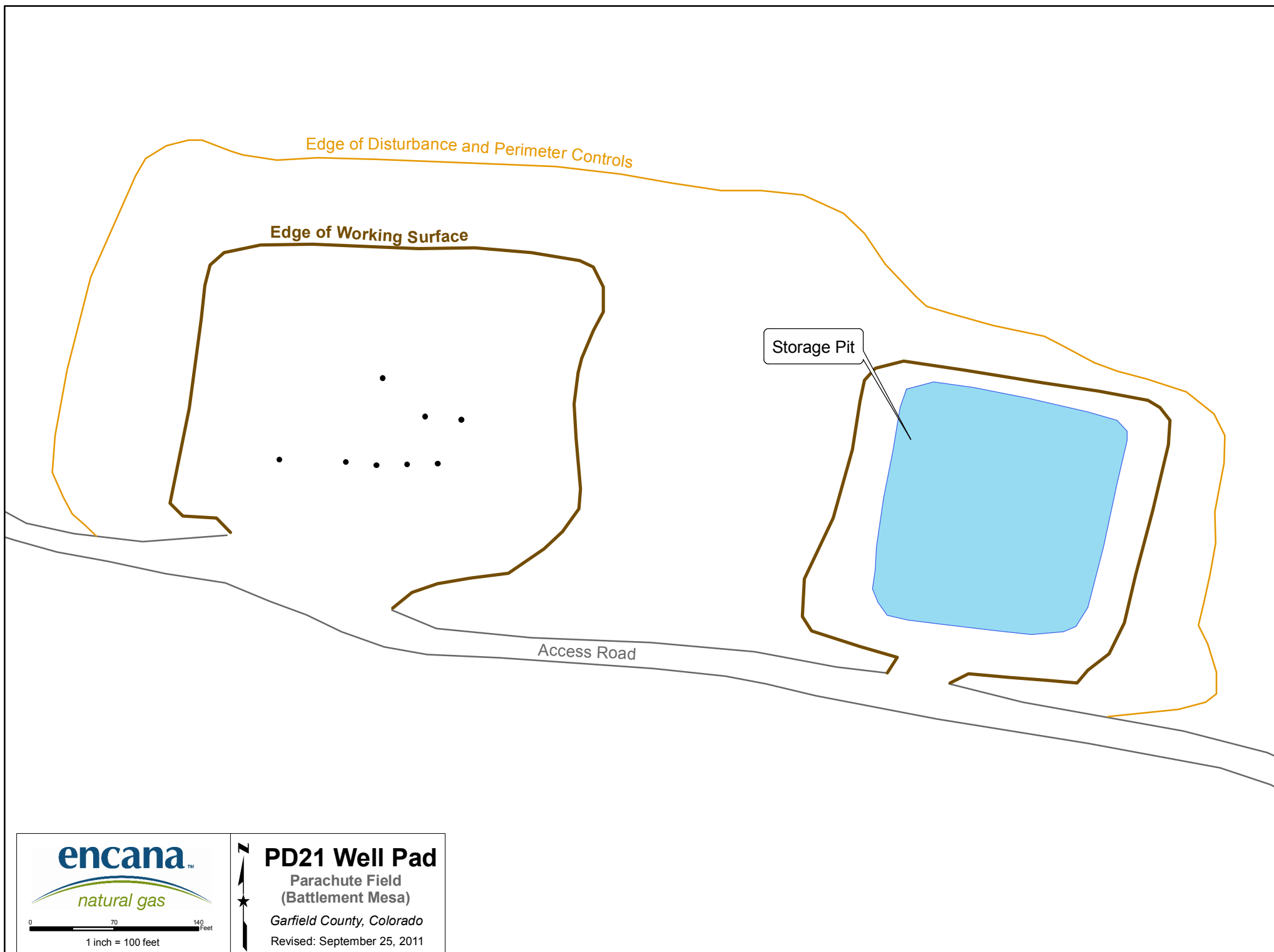
PROJECT NO.: 04-04-43

**-LEGEND-**

Existing Road

**Topo  
"B"**

**SHEET  
10  
OF 11**



## FORM 15 (Earthen Pit Report/Permit) Narrative Attachment

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### **SP PD-21 Pad – 334732(Location ID)**

Document Date – 09/06/2011

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This pit report was prepared in support of closure activities on historic and unpermitted pit on the SP PD-21 pad. Encana has limited internal documentation on the original use and construction of the pit. The intent of this submittal is not to justify continued operation of the pit, but to provide a facility ID number to reference during all correspondence associated with pit closure site investigation and remediation activities.

#### **Is the location in a “Sensitive Area?”**

No, based on the distance to surface water and the depth to ground water, this location is not found in a sensitive area.

#### **Description of pit use:**

The pit on this well pad provided storage for treated water used in support of hydraulic fracturing operations. The pits were constructed on the cut-slope and were supplied filtered produced water via pipeline from the High Mesa Treatment Facility, located in the SENW of Section 36, T5S, R96W in Garfield County or transferred from flowback tanks after mechanical settling.