

FORM  
**15**  
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

DOCUMENT  
#2216418

FOR OGCC USE ONLY  
**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

**FORM SUBMITTED FOR:**

**Pit Report**       **Pit Permit**

Oper OGCC

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 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): 335039 (Location ID)      OGCC Facility ID (of other associated facility): \_\_\_\_\_

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NESE Sec. 20 T7S R95W (PI-20)

Latitude: 39.421566      Longitude: 108.011748      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: PI      Pit/Facility No: N/A 20

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: -400      ground water: -250      water wells: -2500

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: 33

Soils Series Name: Ildefonso Stony 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: -170      Width: -75      Depth: -12

Calculated pit volume (bbls): 22695      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: \_\_\_\_\_

OGCC Approved: Greg Deroulean      Title: FOR Greg Deroulean      Date: 10/05/2011

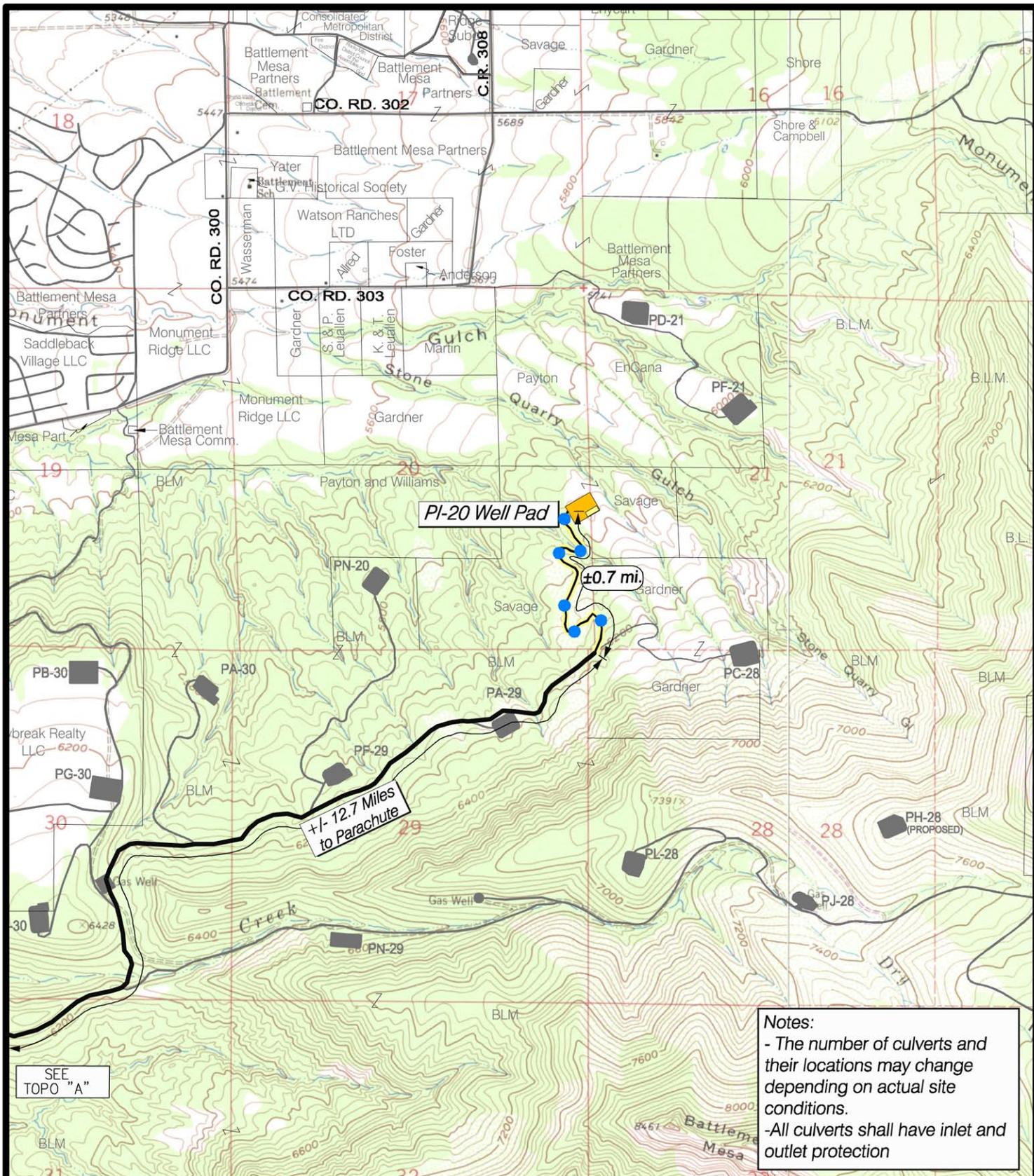
CONDITIONS OF APPROVAL, IF ANY:

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

**FACILITY NUMBER: 425760**

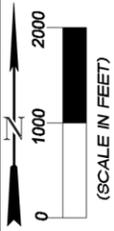
*OGLA Supervisor*

*Form 27 to be submitted shortly.*



SEE TOPO "A"

Notes:  
 - The number of culverts and their locations may change depending on actual site conditions.  
 -All culverts shall have inlet and outlet protection



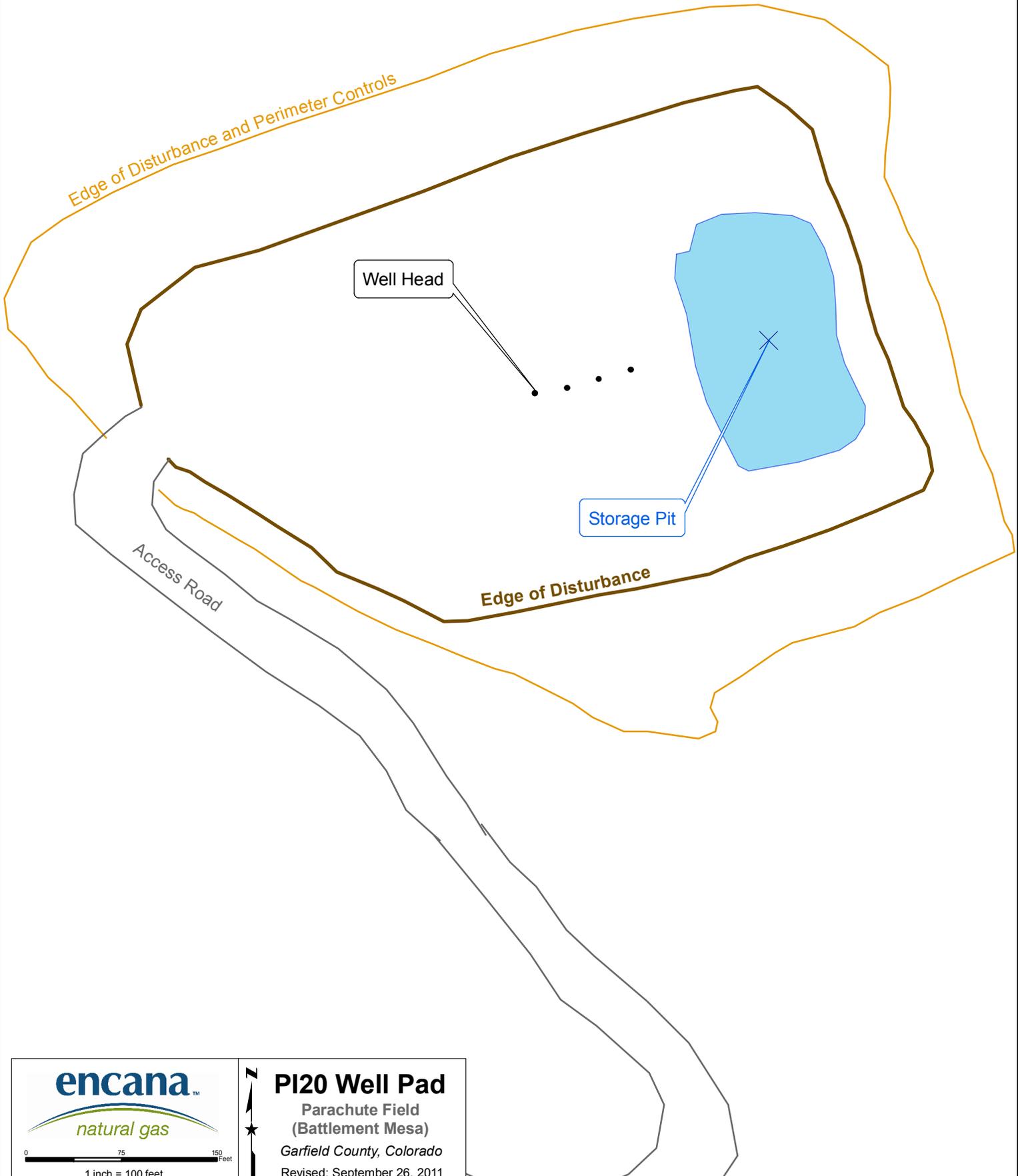
**EnCana Oil & Gas (USA) Inc.**  
 Well Pad PI-20-7-95  
 Section 20, T7S, R95W, 6th P.M.  
 Garfield County, Colorado

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

DATE: December 11, 2007  
 SCALE: 1" = 2000'  
 PROJECT NO.: 07-04-117

**-LEGEND-**  
 Existing Road  
 Proposed Road  
 Proposed Well Pad  
 Proposed Culvert

**Topo "B"**  
 SHEET 9 OF 10



**encana**™

natural gas



1 inch = 100 feet



**PI20 Well Pad**

Parachute Field  
(Battlement Mesa)

Garfield County, Colorado

Revised: September 26, 2011

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

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## **SP PI-20 Pad – 335039(Location ID)**

Document Date – 09/23/2011

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This pit report was prepared in support of closure activities on historic and unpermitted pit on the SP PI-20 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, T7S, R96W in Garfield County or transferred from flowback tanks after mechanical settling.