

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)834-2100 Fax:(303)834-2109



FOR OGCC USE ONLY

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.

FORM SUBMITTED FOR:

☒ Pit Report

☐ Pit Permit

OGCC Operator Number: 96850

Name of Operator: Williams Production RMT

Address: 1058 County Rd 215

City: Parachute State: CO Zip: 81635

Contact Name and Telephone:

Karolina Blaney

No: 970 683 2295

Fax: (970) 265-9573

Complete the  
Attachment Checklist

	Operator	OGCC
Detailed Site Plan	x	
Topo Map w/ Pit Location	x	
Water Analysis (Form 25)	x	
Source Wells (Form 25)		
Pit Design/Plan & Cross Sec	x	
Design Calculations		
Sensitive Area Determ.	x	
Mud Program		
Form 2A		

API Number (of associated well): 05-045-19601

OGCC Facility ID (of other associated facility): 417668

Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): SENW- 21-6S-95W-06M

Latitude: 39.510622

Longitude: -108.008284

County: Garfield

Pit Use: ☐ Production ☐ Drilling (Attach mud program) ☒ Special Purpose (Describe Use): Flare

Pit Type: ☐ Lined ☒ Unlined Surface Discharge Permit: ☐ Yes ☒ No

Offsite disposal of pit contents: ☐ Injection ☐ Commercial Pit/Facility Name: PA 22-21 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: 498 ground water: 130 water wells: 7813

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 from USNRCS survey: Sheet No: \_\_\_\_\_ Soil Complex/Series No: 62

Soils Series Name: Rock outcrop Horizon thickness (in inches): A: 0-60 ; B: ; C:

Soils Series Name: Torriorthents Horizon thickness (in inches): A: 0-4 ; B: 4-30 ; C: 30-34

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 10 Width: 10 Depth: 5

Calculated pit volume (bbls): ~50 Daily inflow rate (bbls/day): \_\_\_\_\_

Daily disposal rates (attach calculations): Evaporation: NA bbls/day Percolation: NA bbls/day

Type of liner material: none Thickness: NA

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): NA

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: Karolina Blaney

Signed: Karolina Blaney

Title: Environmental Specialist

Date: 2/10/2011

OGCC Approved: *Carol Kujala* Title: Env. Supervisor Date: 04/08/2011

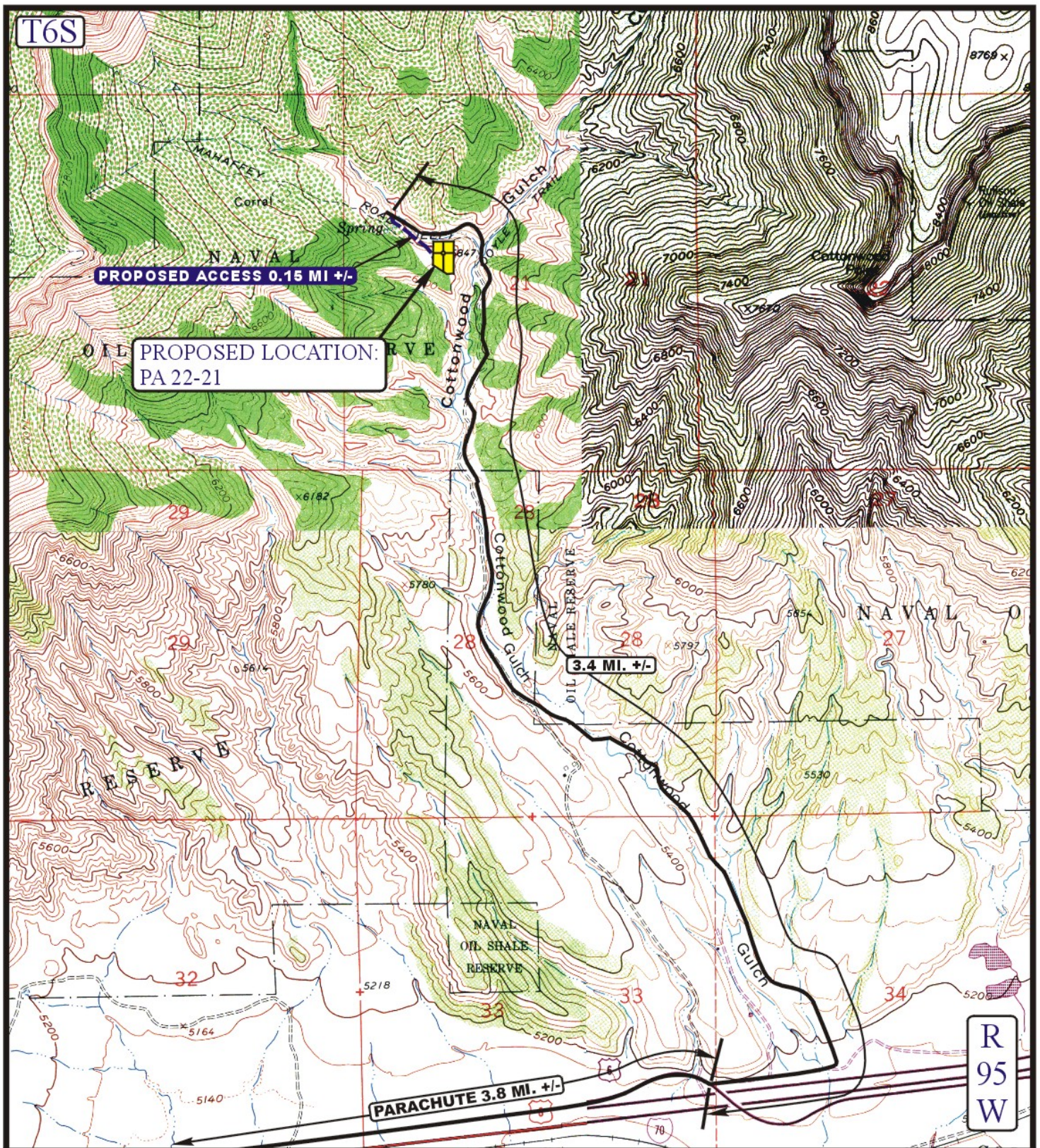
CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER: 422644

FOR A Fischer

## Topo Map with Pit Location





# LEGEND:

----- PROPOSED ACCESS ROAD  
 \_\_\_\_\_ EXISTING ROAD

## WILLIAMS PRODUCTION RMT COMPANY

PA 22-21  
 SECTION 21, T6S, R95W, 6th P.M.  
 SE 1/4 NW 1/4



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
 MAP

03 05 09  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.H. REVISED: 04-12-10

5  
 PLAT



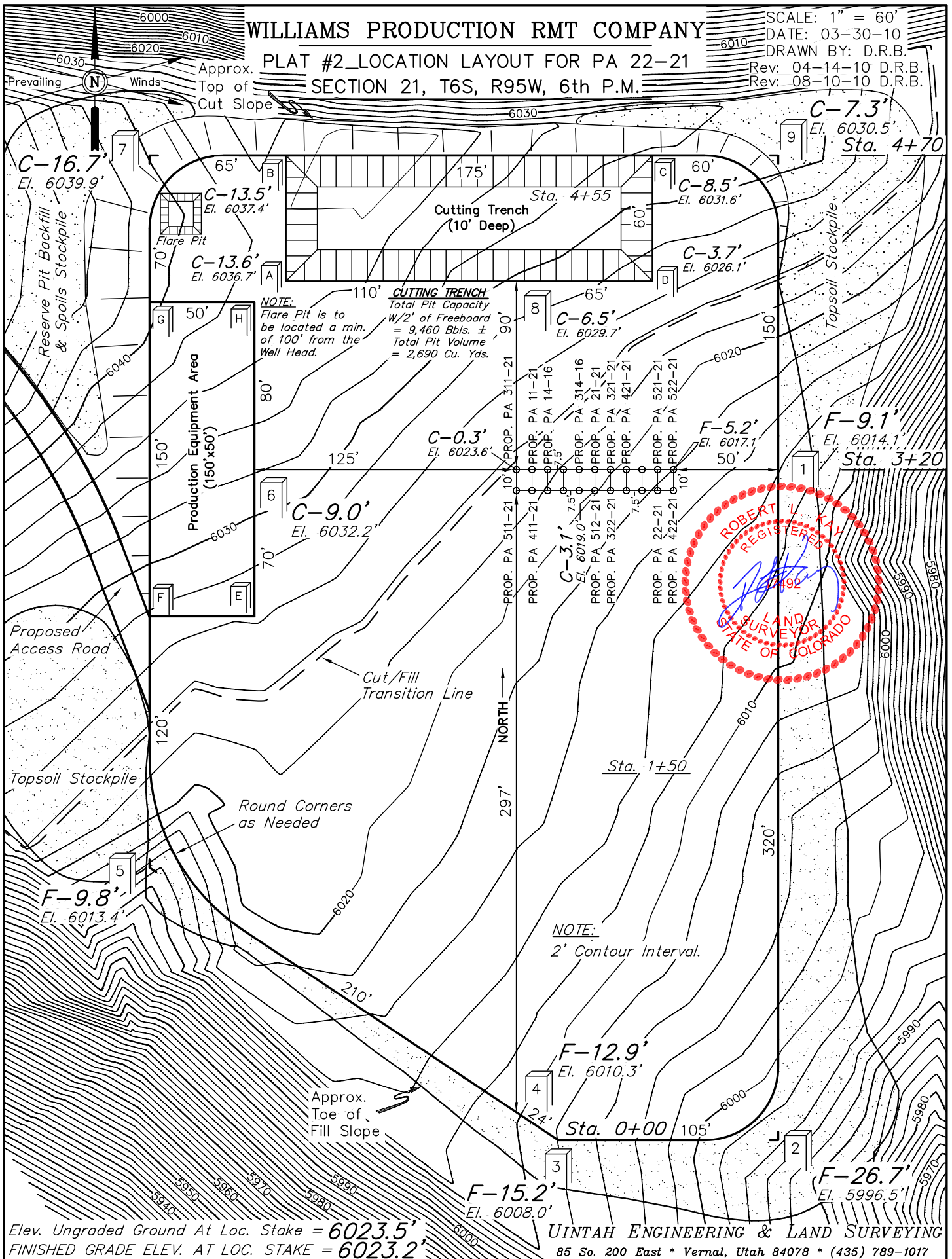
## Detailed Site Plan

# WILLIAMS PRODUCTION RMT COMPANY

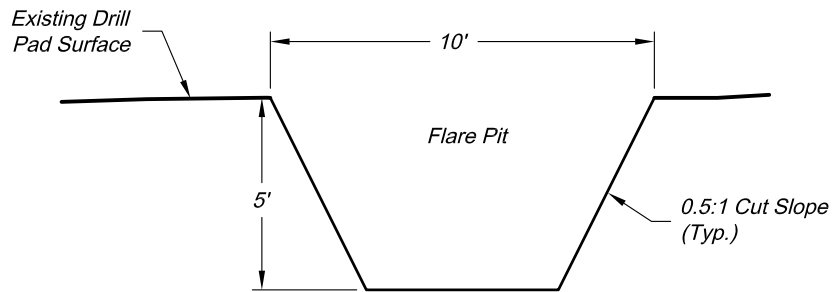
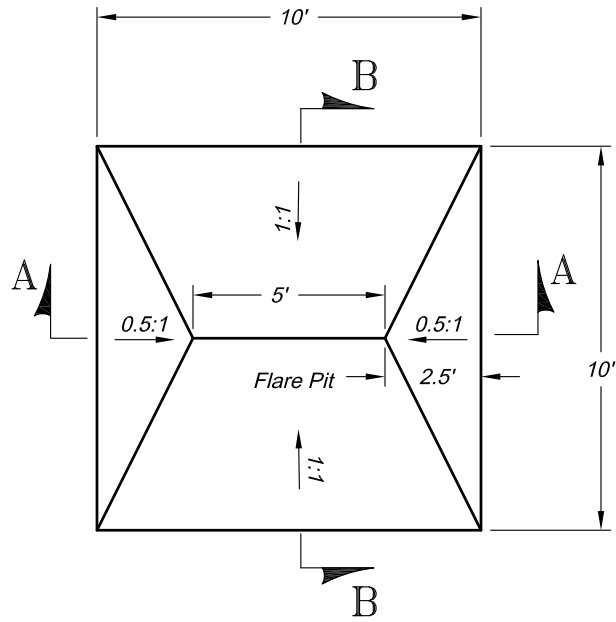
PLAT #2 LOCATION LAYOUT FOR PA 22-21

SECTION 21, T6S, R95W, 6th P.M.

SCALE: 1" = 60'  
DATE: 03-30-10  
DRAWN BY: D.R.B.  
Rev: 04-14-10 D.R.B.  
Rev: 08-10-10 D.R.B.

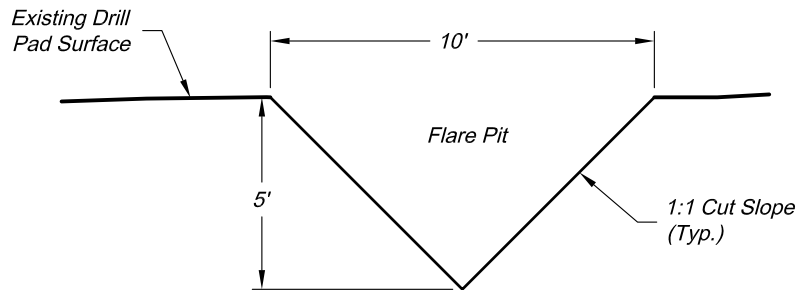


Pit Design/Plan and Cross Section  
Design Calculations



**Section A**

Scale: 1" = 5'



**Section B**

Scale: 1" = 5'

Total Volume ~ 50bbbls

Revised date: 8/11/09

**Construction Plan Prepared for:**

**Williams** Williams Production, RMT

136 East Third Street  
Rifle, Colorado 81650  
Ph. (970) 625-1330  
Fax (970) 625-2773



SCALE: 1" = 5'  
DATE: 5/15/09  
SHEET: 1 of 1  
PROJECT: Williams  
DFT: cws

10' x 10' FLARE PIT  
WILLIAMS STANDARD DETAIL

## Sensitive Area Determination





# Legend

- Water Well
- Pad
- Proposed Road
- Stream
- 1000' Buffer

Williams Production RMT

Plat 5C

PA 22-21 Hydrology Map  
T6S R95W, Section 21



## Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
<b>Person(s) conducting inspection</b>	Ashlee Lane	01/26/10
<b>Site Information</b>	Proposed	
Location:	PA 22-21	Time: 900
Type of Facility:	Well Pad	
<b>Environmental Conditions</b>	Snow flurries, site conditions frozen with 8-10” of snow in the area	
Temperature (°F)	20°F	

Has the proposed, new or existing location been designated as a sensitive area?

☒ Yes      ☐ No

### **SURFACE WATER**

1. Are there any surface water features or SWSAs adjacent to or within ¼ mile of the proposed/new or existing facility?

☒ Yes      ☐ No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands: Cottonwood Gulch, a perennial stream; one unnamed intermittent drainage, and one unnamed ephemeral drainage.

If yes, describe location relative to facility: Cottonwood Gulch is approximately 460 feet to the east of the proposed facility, the unnamed intermittent drainage is approximately 355 feet to the north of the proposed facility, and the unnamed ephemeral drainage is approximately 250 feet to the southwest of the proposed facility.

2. Could a potential release from the facility reach surface water features?

☒ Yes      ☐ No

If yes, describe the pathway a release from the facility would likely follow to determine if the potential to impact surface water is high or low. If a potential release were to migrate off the location, flow would be to the north, south, east, and southwest.

3. Is the potential to impact surface water from a facility release high or low?

☒ High      ☐ Low

## GROUNDWATER

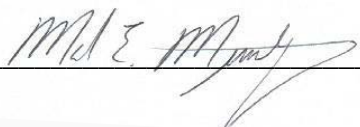
1. Will the proposed/new or existing facility have any pits which will contain hydrocarbons and chlorides or other E&P wastes?  
☒ Yes      ☐ No  
If yes, List the pit type(s): Drilling pit and possibly an emergency flare pit.
2. Is the site of the proposed facility underlain by an unconfined aquifer or recharge zone?  
☐ Yes      ☒ No
3. Is the hydraulic conductivity of the underlying soil or geologic material  $\leq 1.0 \times 10^{-7}$  cm/sec?  
☐ Yes      ☒ No
4. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well which would use the same aquifer?  
☐ Yes      ☒ No
5. Is the proposed facility located within a 100 year floodplain?  
☐ Yes (*Sensitive Area*)      ☒ No (*If no, proceed to question #6.*)
6. Is the depth to groundwater known?  
☐ Yes (*If yes, follow instructions provided in 5(a) of this section.*)  
☒ No (*If no, follow instructions provided in 5(b) of this section.*)
  - (a) If yes, could a potential release from the proposed facility reach groundwater?  
☐ Yes      ☐ No  
If yes, explain:
  - (b) If no:
    - (i) Evaluate surrounding soils, topography, and vegetation which may suggest the presence of shallow groundwater.
    - (ii) Gather information from surrounding well data in order to determine a depth to groundwater, i.e. State Engineers Office.
    - (iii) Drill a soil boring to determine depth to groundwater or
    - (iv) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.
7. Is the potential to impact ground water from the facility in the event of a release high or low?  
☐ High      ☒ Low

### **Additional Comments:**

The potential for a release, if it were to migrate off the proposed facility, to contact live surface water is high. The proposed facility will be constructed on top of a small plateau which abruptly slopes to the north, east, and south southwest. These abrupt slopes all have a potential direct connection to Cottonwood Gulch with the east side of the facility posing the greatest risk. In order to prevent or mitigate any potential release from migrating off site and potentially affecting Cottonwood Gulch; adequate best management practices (BMPs) should be installed during the construction of the facility.

The depth to ground water is not known. No ground water well data is available for the area from the Colorado Division of Water Resources indicating that there are no water wells within 1/8-1/4 mile of the proposed location. However, based on the elevation difference between the proposed facility and Cottonwood Creek it can be assumed that groundwater, if present, would be at a depth sufficient enough that a potential release from then facility would have no impact. Additional indicators of shallow groundwater (vegetation) within the immediate vicinity of the proposed location on top of the plateau were not observed during the site visit.

The vegetation surrounding the immediate location of the proposed facility is high desert shrubs with Piñon Juniper Forest. Vegetation adjacent to Cottonwood Gulch is laden with riparian inhabiting vegetation (i.e. Cottonwood trees and Willows). Therefore it is the opinion of HCSI that the proposed PA 22-21 well pad be considered a sensitive area due to the proximity of the location to Cottonwood Gulch.

Inspector Signature(s):  Date: 02/16/10

 Date: 02/16/10