

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite #01, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

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.

Complete the Attachment Checklist

FORM SUBMITTED FOR:

Pit Report **Pit Permit**

Oper OGCC

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

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

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 *Location ID #*
 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 25 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: Torrorthants 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

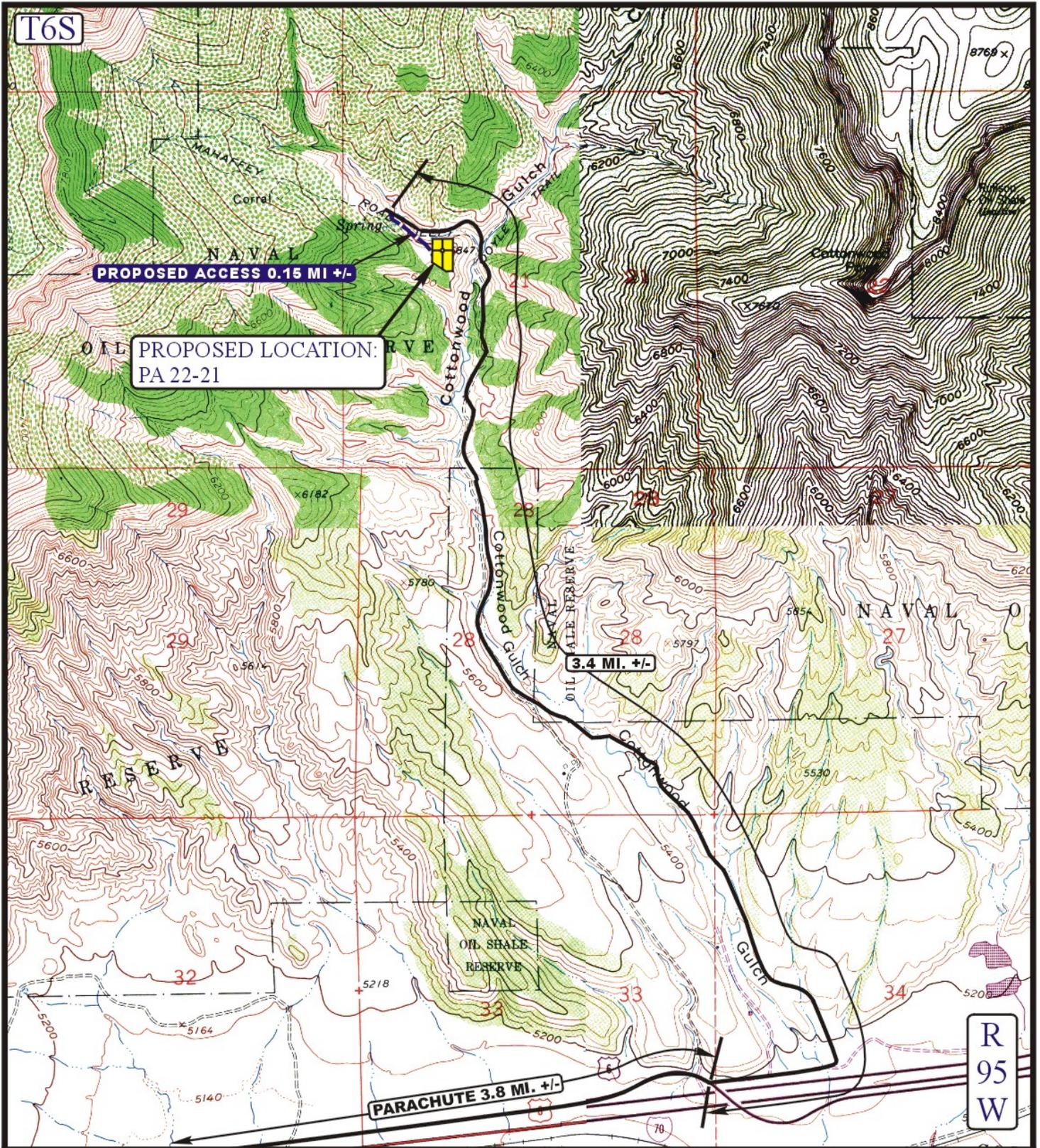
OGCC Approved: *Carol Kujala* Title: Env. Supervisor Date: 04/08/2011

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

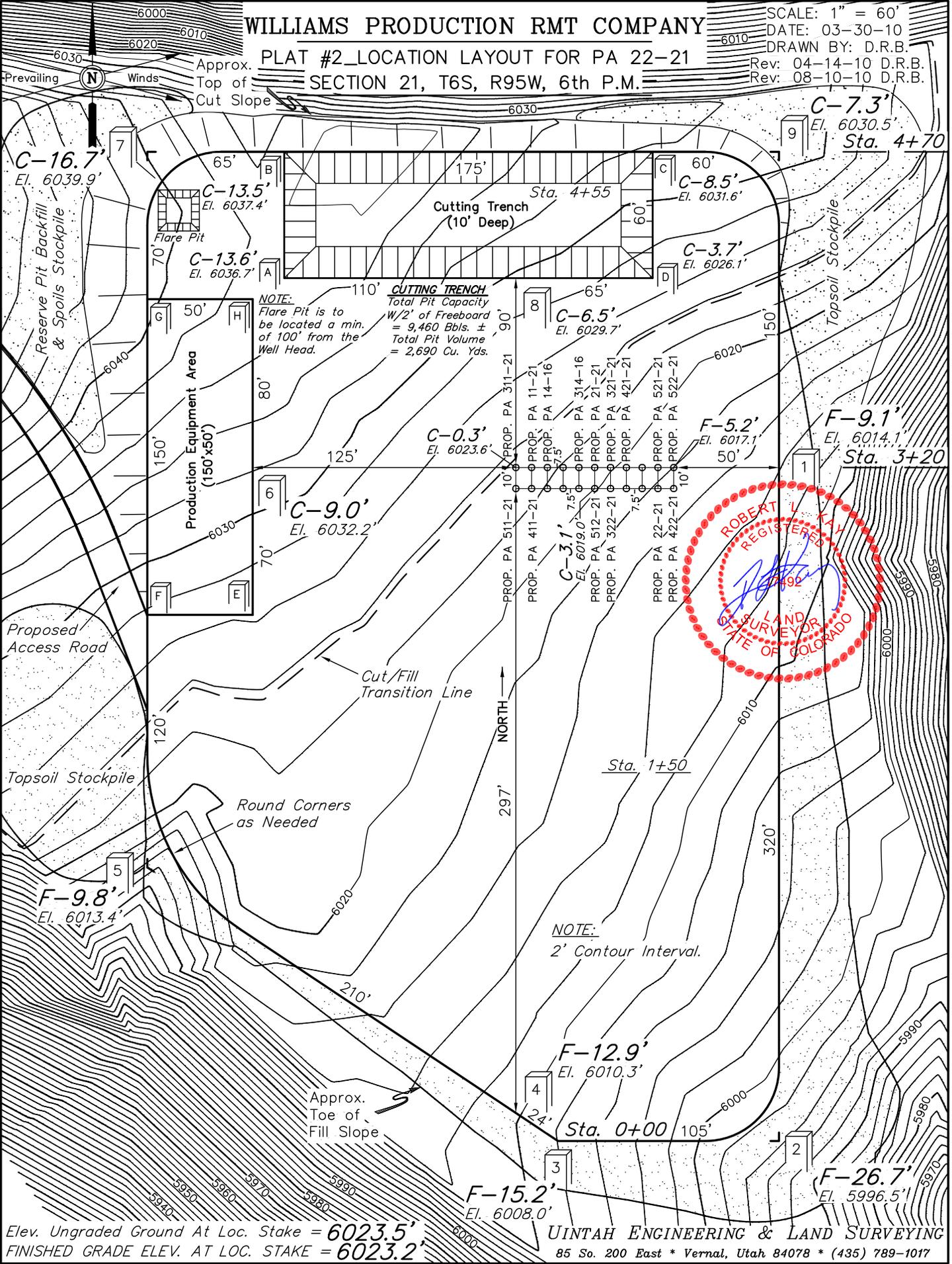
Detailed Site Plan

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.



Approx. Winds
 Top of
 Cut Slope

NOTE:
 Flare Pit is to be located a min. of 100' from the Well Head.

CUTTING TRENCH
 Total Pit Capacity
 W/2' of Freeboard
 = 9,460 Bbls. ±
 Total Pit Volume
 = 2,690 Cu. Yds.

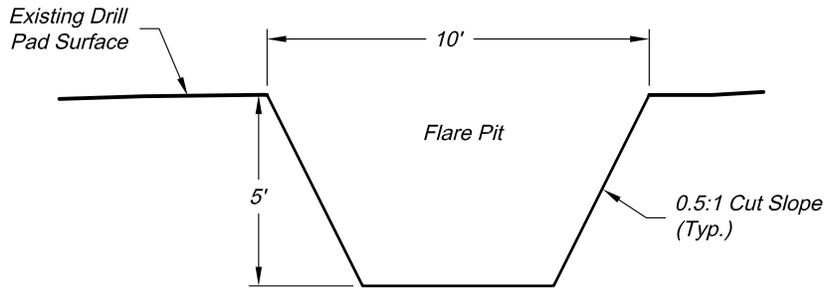
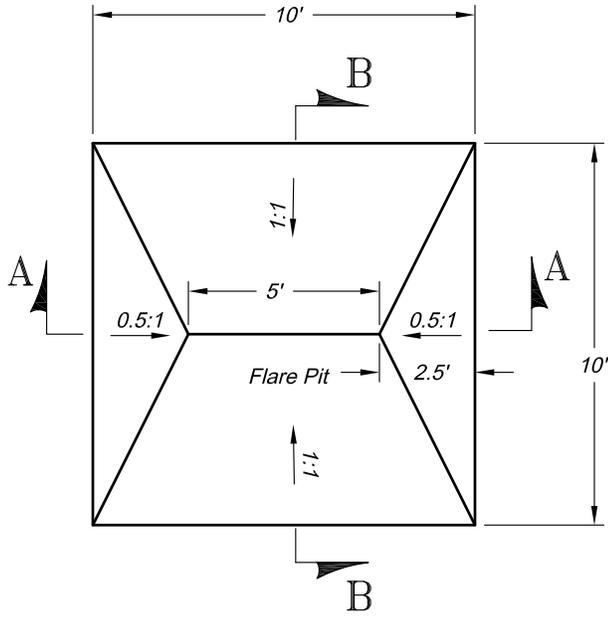


NOTE:
 2' Contour Interval.

Elev. Ungraded Ground At Loc. Stake = 6023.5'
 FINISHED GRADE ELEV. AT LOC. STAKE = 6023.2'

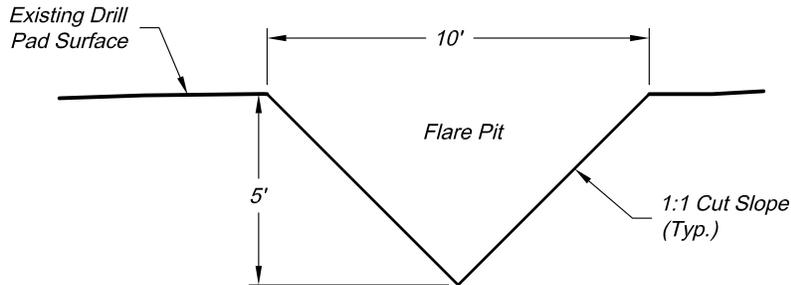
UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Pit Design/Plan and Cross Section
Design Calculations



Section A

Scale: 1" = 5'



Section B

Scale: 1" = 5'

Total Volume ~ 50bbls

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

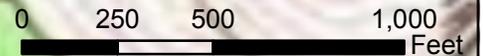
10' x 10' FLARE PIT
 WILLIAMS STANDARD DETAIL

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		
Person(s) conducting inspection	Ashlee Lane	01/26/10
Site Information	Proposed	
Location:	PA 22-21	Time: 900
Type of Facility:	Well Pad	
Environmental Conditions	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.

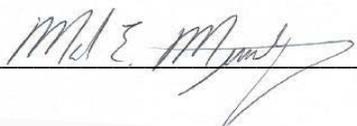
7. Is the potential to impact ground water from the facility in the event of a release high or low?
 High Low

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