

Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

4/25/11

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 26)		
Source Wells (Form 26)		
PR Design/Plan & Cross Sec'd	<input checked="" type="checkbox"/>	
Design Calculations		
Sensitive Area Determin.	<input checked="" type="checkbox"/>	
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) 285-9573

API Number (of associated well): 05-045-07592

OGCC Facility ID (of other associated facility): 335397 (LOCATION ID)

Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): SESW- S27-T6S-R96W- 6M

Latitude: 39.491097

Longitude: -108.095086

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: GM 24-27 Pit/Facility No:

Attach Form 26 to identify Source Wells and Form 26 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: 589 ground water: 16 water wells: 3188

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: 47 and 9

Soils Series Name: 47 - Nihill channery loam Horizon thickness (in inches): A: 0-11 ; B: 11-18 ; C: 18-60

Soils Series Name: 9 - Badland Horizon thickness (in inches): A: 0-60 ; B: ; C:

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): NA

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: 4/25/2011

OGCC Approved: [Signature] Title: For Greg Deramlean Date: 08/24/2011

CONDITIONS OF APPROVAL, IF ANY: OGCA Supervisor

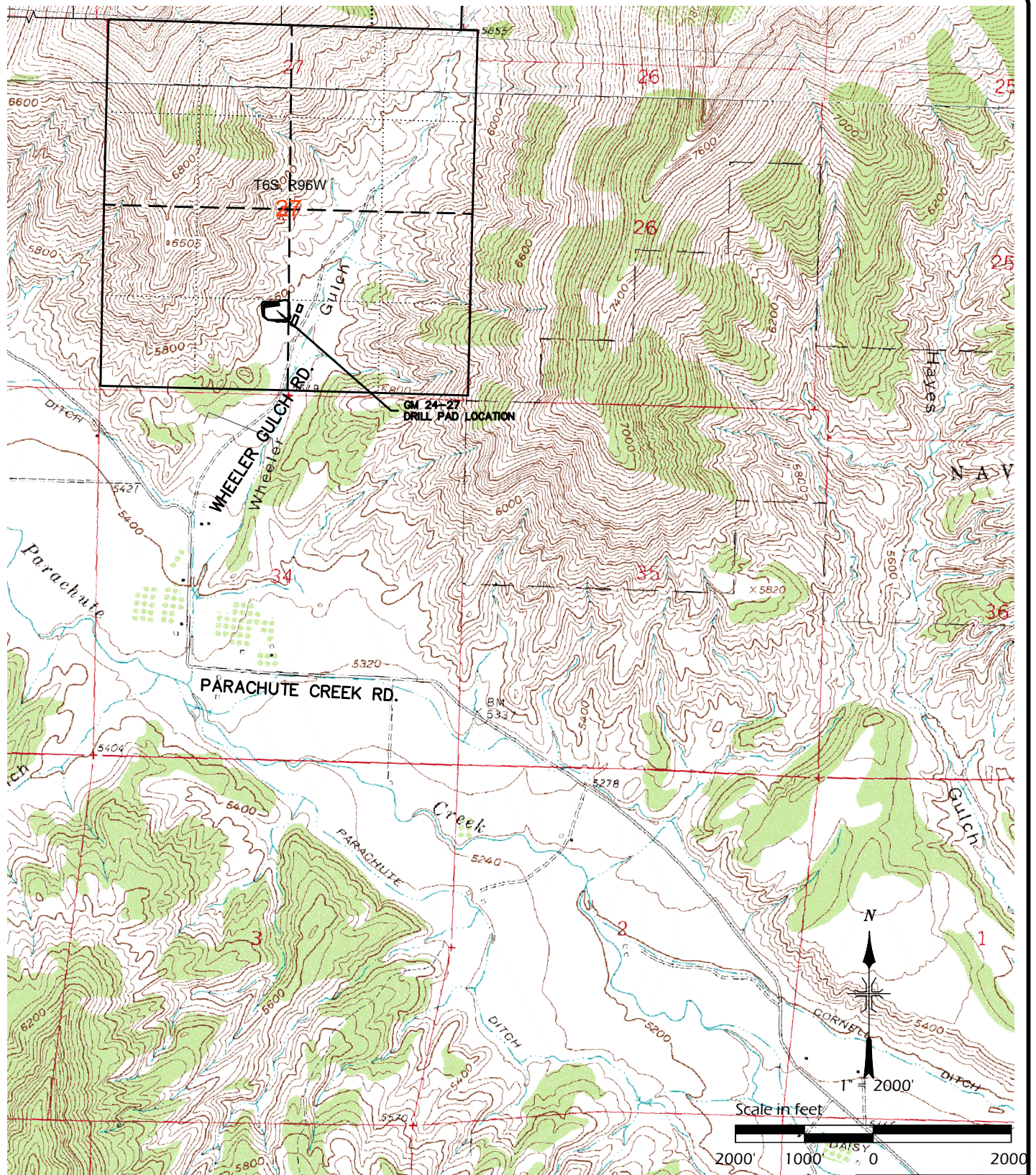
FACILITY NUMBER:

424959

According to operator, this flare pit was never used and will be closed in accordance with Form 27# 6050

Topo Map with Pit Location





DATE REVISED: 2010-06-09

DEL-MONT CONSULTANTS IS PROVIDING GRADING DESIGN FOR THIS PROJECT THAT PROVIDES DIMENSIONS AND VOLUME INFORMATION FOR CONSTRUCTION.



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www.del-mont.com • service@del-mont.com



**SE SW, S27, T6S, R96W, 6TH P.M.  
ACCESS ROAD MAP**

**WELL PAD GM 24-27  
GARFIELD COUNTY, CO  
WILLIAMS PRODUCTION, RMT**

DMC JOB NO.: 10030

DATE ISSUED: 2010-04-30

DATE SURVEYED: 2008-11-15

PLAT: 5 of 9

DESIGNED BY:

MGW

SCALE:

1"=2000'

CHECKED BY:

SNS

FILE NAME:

10030C-GM24-27\_PAD\_SITE

## Detailed Site Plan

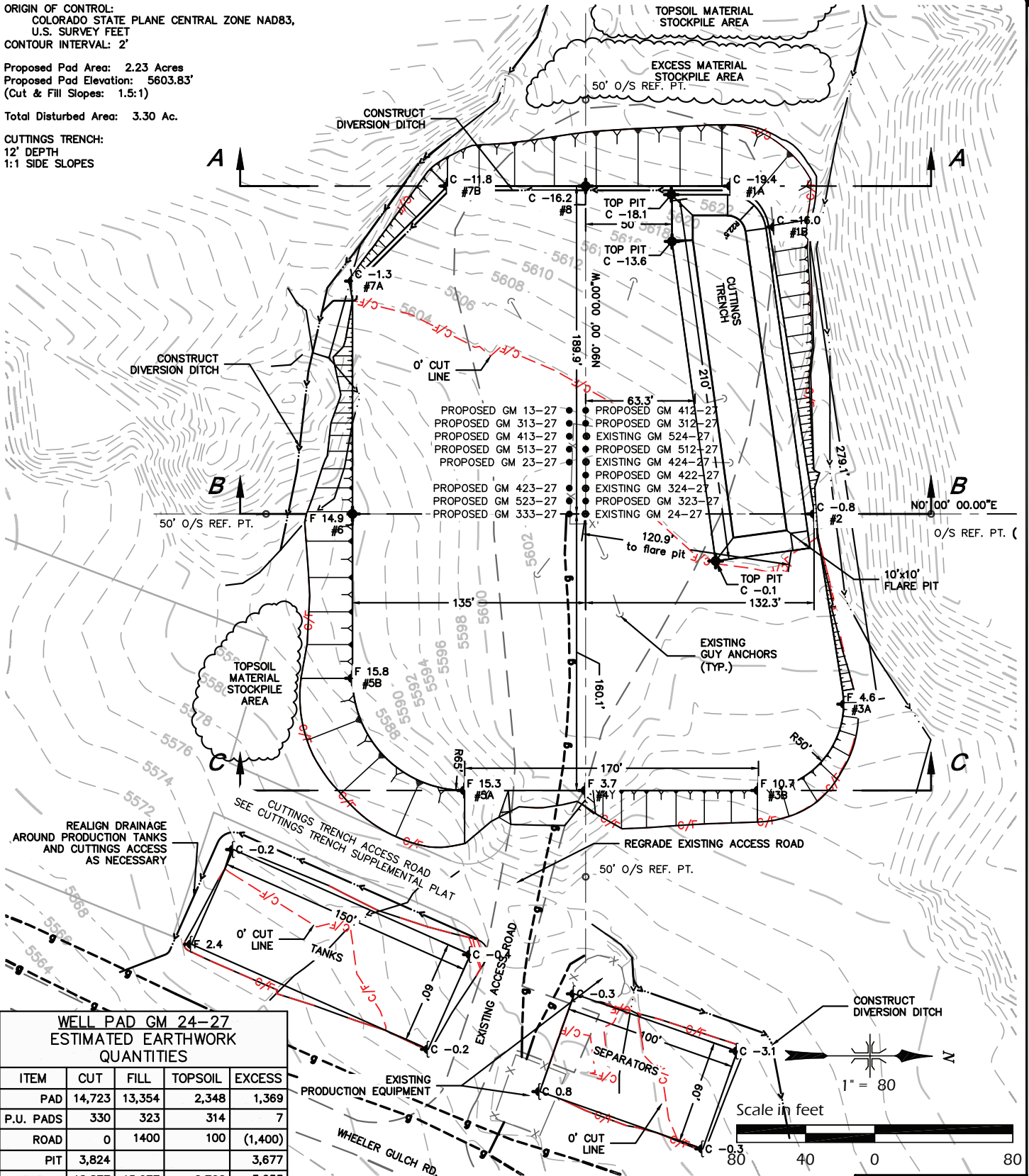


ORIGIN OF CONTROL:  
COLORADO STATE PLANE CENTRAL ZONE NAD83,  
U.S. SURVEY FEET  
CONTOUR INTERVAL: 2'

Proposed Pad Area: 2.23 Acres  
Proposed Pad Elevation: 5603.83'  
(Cut & Fill Slopes: 1.5:1)

Total Disturbed Area: 3.30 Ac.

CUTTINGS TRENCH:  
12' DEPTH  
1:1 SIDE SLOPES



WELL PAD GM 24-27 ESTIMATED EARTHWORK QUANTITIES				
ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	14,723	13,354	2,348	1,369
P.U. PADS	330	323	314	7
ROAD	0	1400	100	(1,400)
PIT	3,824			3,677
TOTALS	18,877	15,077	2,762	3,653

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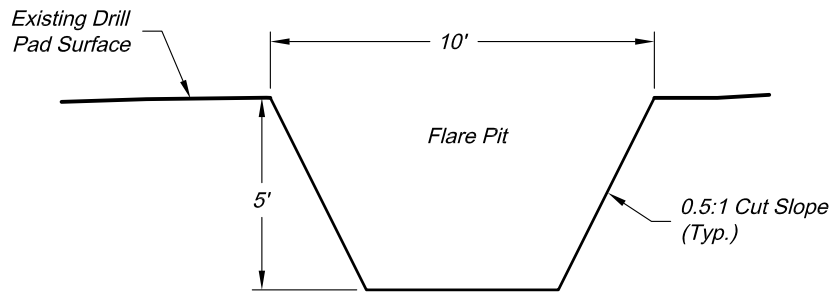
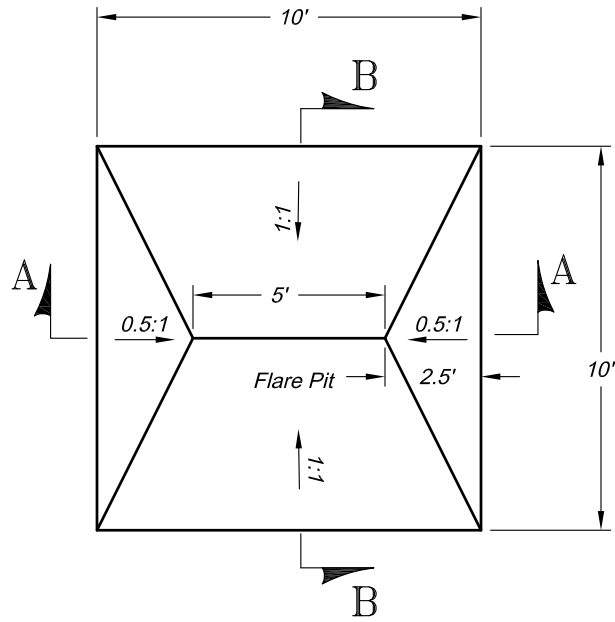
SE SW, S27, T6S, R96W, 6TH P.M.  
CONSTRUCTION LAYOUT

WELL PAD GM 24-27  
GARFIELD COUNTY, CO  
WILLIAMS PRODUCTION, RMT

DMC JOB NO.: 10030  
DATE ISSUED: 2010-04-30  
DATE SURVEYED: 2008-11-15  
PLAT: 2 of 9

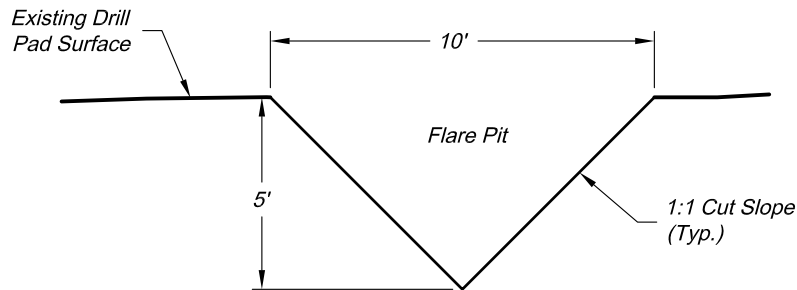
DESIGNED BY: MGW  
SCALE: 1"=80'  
CHECKED BY: SNS  
FILE NAME: 10030C-GM24-27\_PAD\_SITE

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



## Sensitive Area Determination Checklist

<b>Williams Production RMT Company – Valley</b>		
<b>Person(s) conducting inspection</b>	Ashlee Lane	5/3/10
<b>Site Information</b>		
Location:	GM 24-27	Time: 1400
Type of Facility:	Existing Well pad	
<b>Environmental Conditions</b>	Clear and breezy	
Temperature (°F)	60°	

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: Two small ephemeral drainages and Wheeler Gulch.

If yes, describe location relative to facility: The ephemeral drainages are on the north and south sides of the location and wheeler gulch is 589 feet east of the location.

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. The topography of the area slopes to the east towards the access road and Wheeler Gulch. A potential release if it were to migrate off of the north and south sides of the facility and enter the ephemeral drainages which lead to Wheeler Gulch.

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 (Cuttings Trench), 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:**

Wheeler Gulch in general has become an area of concern due to activities within the Canyon itself and activities on top of the Roan Plateau which has resulted in increased traffic and thus the potential for impacts to live surface water.

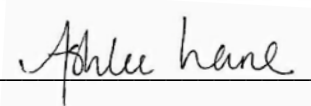
As stated in the surface water section of this determination, Wheeler Gulch is 589 feet to the east of the location. It is recommended that Best Management Practices (BMPs) in the form of a containment berm and straw bale barrier be installed around the north, east, and south boundaries of the facility in order to mitigate the potential for a release to impact Wheeler Gulch. Currently, the potential for a potential release to reach Wheeler Gulch is high. The topography of the area slopes to the east and the well pad has ephemeral drainages on the north and south sides. The ephemeral drainages lead directly to Wheeler Gulch. Adequate inlet and outlook protection on the culverts associated with these ephemeral drainages crossing the access road leading to Wheeler Gulch should be installed as well. All Best Management Practices (BMPs) should be maintained during drilling and completion activities to ensure site containment and prevent potential releases from migrating into Wheeler Gulch.

Due to the fact that the pad lies essentially in bedrock, the potential for any impacts to ground water are very low. The closest known permitted well is approximately 4,425 feet south of the facility with a depth to groundwater of 16 feet in alluvium. The depth to groundwater in this well may be influenced by irrigation water utilized in the vicinity of the well. In order to further mitigate any potential impacts to groundwater, if present, all personnel working on the facility should ensure that the only material that goes into the drilling pit is cuttings.

It should be noted that Wheeler Gulch has a spill prevention system that has been installed to aid in mitigating any potential releases to live water. All personnel working on the facility should know where the spill prevention devices are located and trained in the operation of these devices in the event of a potential release.

Due to the close proximity of Wheeler Gulch, which is perennial, the facility should be designated as being within a sensitive area

Inspector Signature(s):  Date: 6/5/2010

 Date: 06/04/10



### Legend

- Water Well
- Pad
- Stream
- 1000' Buffer

Williams Production RMT

Plat 5C

GM 24-27 Hydrology Map  
T6S R96W, Section 27

