

State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

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

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)		
PK Design/Plan & Cross Sec	x	
Design Calculations	x	
Sensitive Area Determ.	x	
Mud Program		
Form 2A		

OGCC Operator Number: 96850 Contact Name and Telephone: Karolina Blaney
 Name of Operator: Williams Production RMT No: 970 683-2295
 Address: 1058 County Rd 215 Fax: (970) 285-9573
 City: Parachute State: CO Zip: 81635

API Number (of associated well): 05-045-06568 ✓ OGCC Facility ID (of other associated facility): 323789
 Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): NWSE-S27-T6S-R96W-06M ✓ Location ID #
 Latitude: 39.493164 ✓ Longitude: -108.089948 ✓ County: Garfield

Pit Use: Production Drilling (Attach mud program) Special Purpose (Describe Use): Flare Pit
 Pit Type: Lined Unlined Surface Discharge Permit: Yes No
 Offsite disposal of pit contents: Injection Commercial Pit/Facility Name: MV 29-27 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: 441 ground water: 73 water wells: 4425

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: 9
 Soils Series Name: Badland Horizon thickness (in inches): A: 0-60 ; 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: 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: NA 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: 1/7/2011

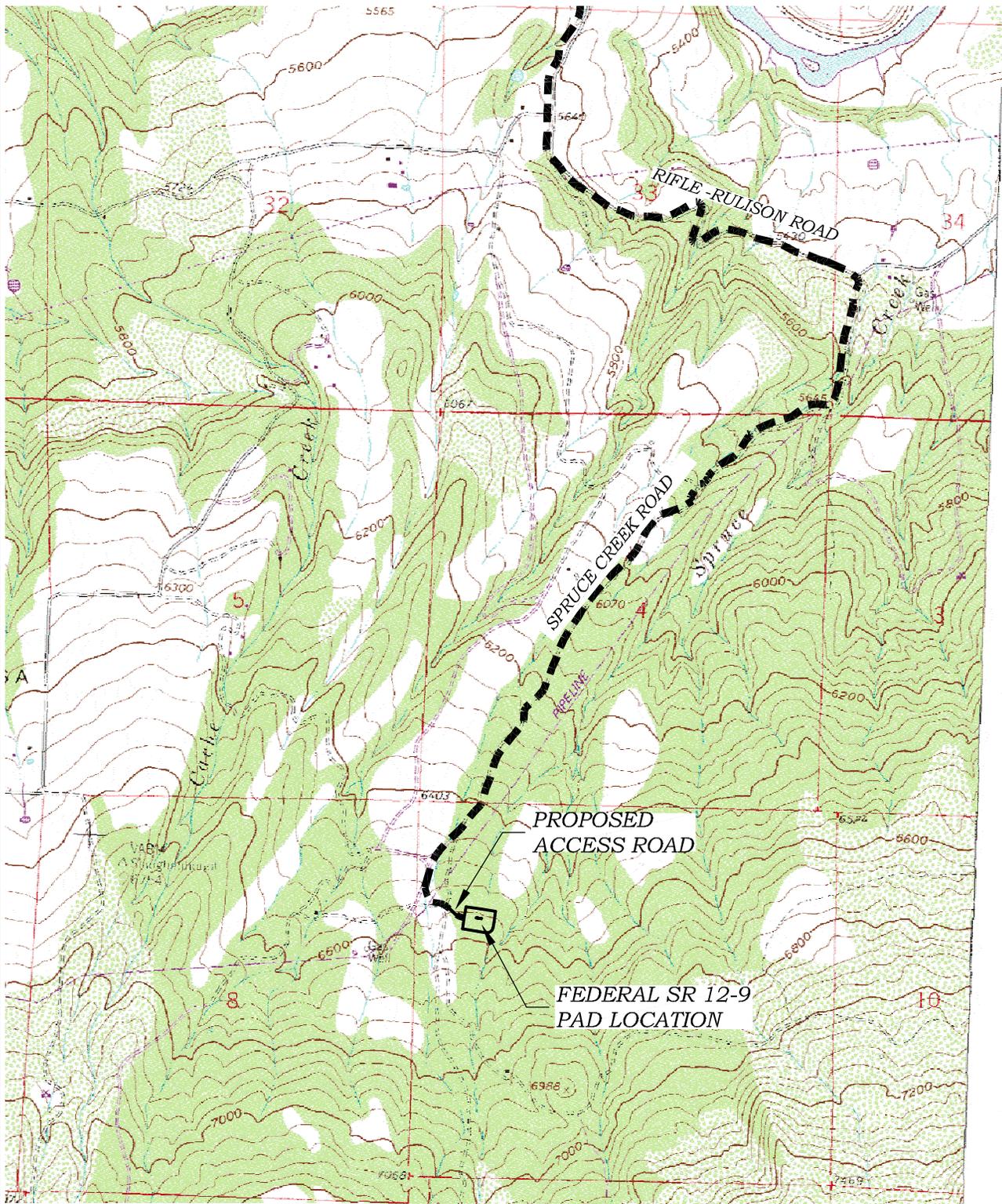
OGCC Approved: [Signature] Title: Env. Supervisor Date: 04/07/2011

CONDITIONS OF APPROVAL, IF ANY:

For A Fisher

FACILITY NUMBER: 422643

Topo Map with Pit Location



ACCESS DESCRIPTION:

FROM THE INTERSECTION OF RULISON ROAD (COUNTY ROAD 323) & I-70 AT THE RULISON EXIT, PROCEED SOUTHEASTERLY ALONG RULISON ROAD (COUNTY ROAD 323) ±0.4 MILES TO THE INTERSECTION WITH RIFLE-RULISON ROAD (COUNTY ROAD 320), PROCEED LEFT IN A EASTERLY DIRECTION ±3.8 MILES ALONG RIFLE-RULISON ROAD (COUNTY ROAD 320) TO A "Y" INTERSECTION WITH SPRUCE CREEK ROAD (COUNTY ROAD 329), PROCEED RIGHT IN A SOUTHWESTERLY DIRECTION ALONG SPRUCE CREEK ROAD (COUNTY ROAD 329) ±2.1 MILES TO AN INTERSECTION WITH A DIRT/GRAVEL ROAD, PROCEED LEFT IN A SOUTHEASTERLY DIRECTION ± 0.2 MILES TO THE FEDERAL SR 12-9 DRILL PAD LOCATION AS SHOWN HEREON.

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



SCALE: 1" = 2000'
 DATE: 5/9/08
 SHEET: 5 of 9
 PROJECT: WILLIAMS
 DFT: CWS

Construction Plan Prepared for:
Williams Williams Production, RMT

Federal SR 12-9 - Sheet 5
 ACCESS & VICINITY MAP

Detailed Site Plan

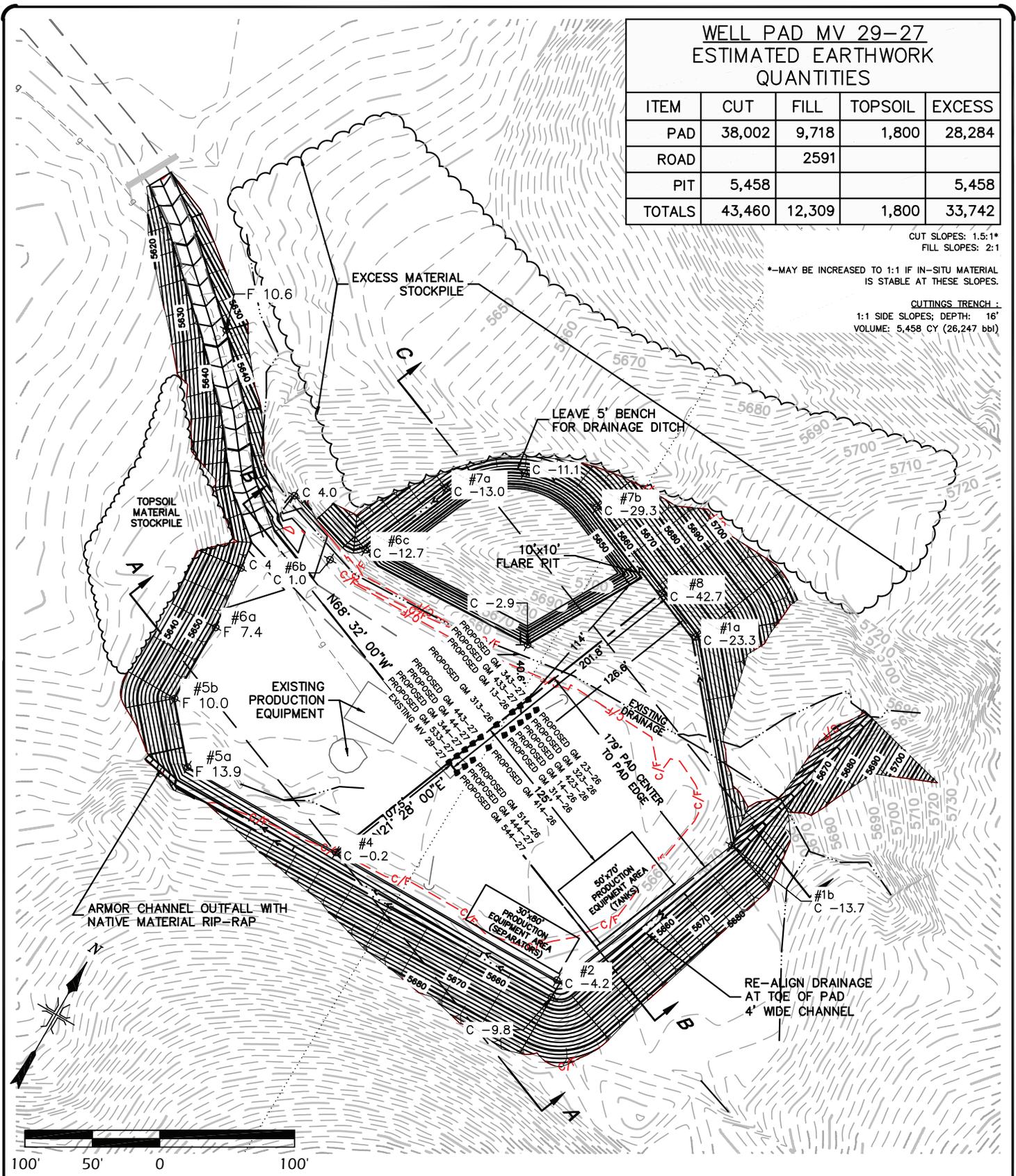
WELL PAD MV 29-27
ESTIMATED EARTHWORK
QUANTITIES

ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	38,002	9,718	1,800	28,284
ROAD		2591		
PIT	5,458			5,458
TOTALS	43,460	12,309	1,800	33,742

CUT SLOPES: 1.5:1*
FILL SLOPES: 2:1

*-MAY BE INCREASED TO 1:1 IF IN-SITU MATERIAL IS STABLE AT THESE SLOPES.

CUTTINGS TRENCH :
1:1 SIDE SLOPES; DEPTH: 16'
VOLUME: 5,458 CY (26,247 bbl)



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

DMC DEL-MONT CONSULTANTS, INC.
1800 California Ave., Suite 1000, Denver, CO 80202
www.del-mont.com

DESIGNED BY: MGW
SCALE: 1"=100'

CHECKED BY: KS
FILE NAME: 10030C-MV29-27_PAD-SITE

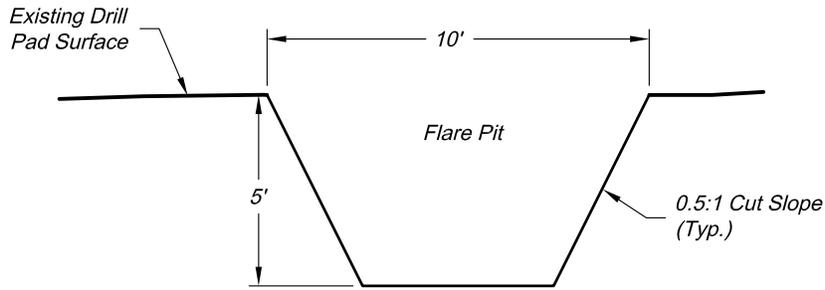
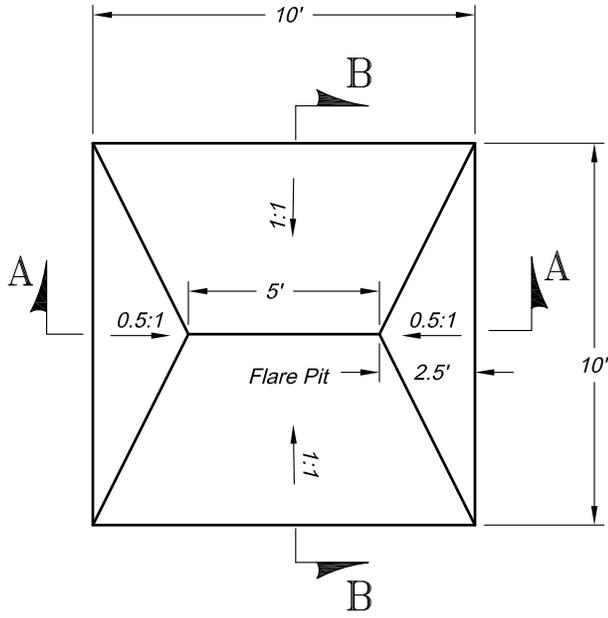
Williams

S26 & S27, T6S, R96W, 6TH P.M.
CONSTRUCTION LAYOUT
WELL PAD MV 29-27

GARFIELD COUNTY, CO
WILLIAMS PRODUCTION, RMT

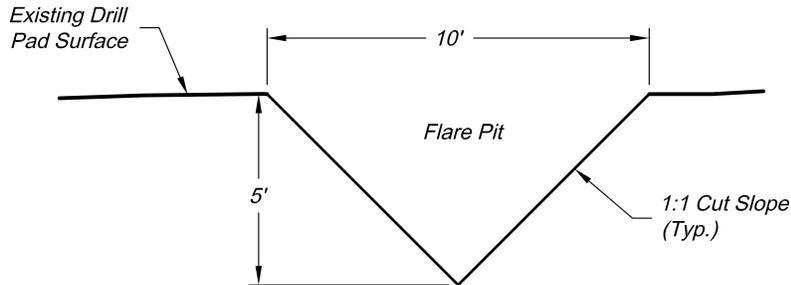
DMC JOB NO.: 10030
DATE ISSUED: 2010-04-26
DATE SURVEYED: 2008-11-17
PLAT: 2 of 9

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

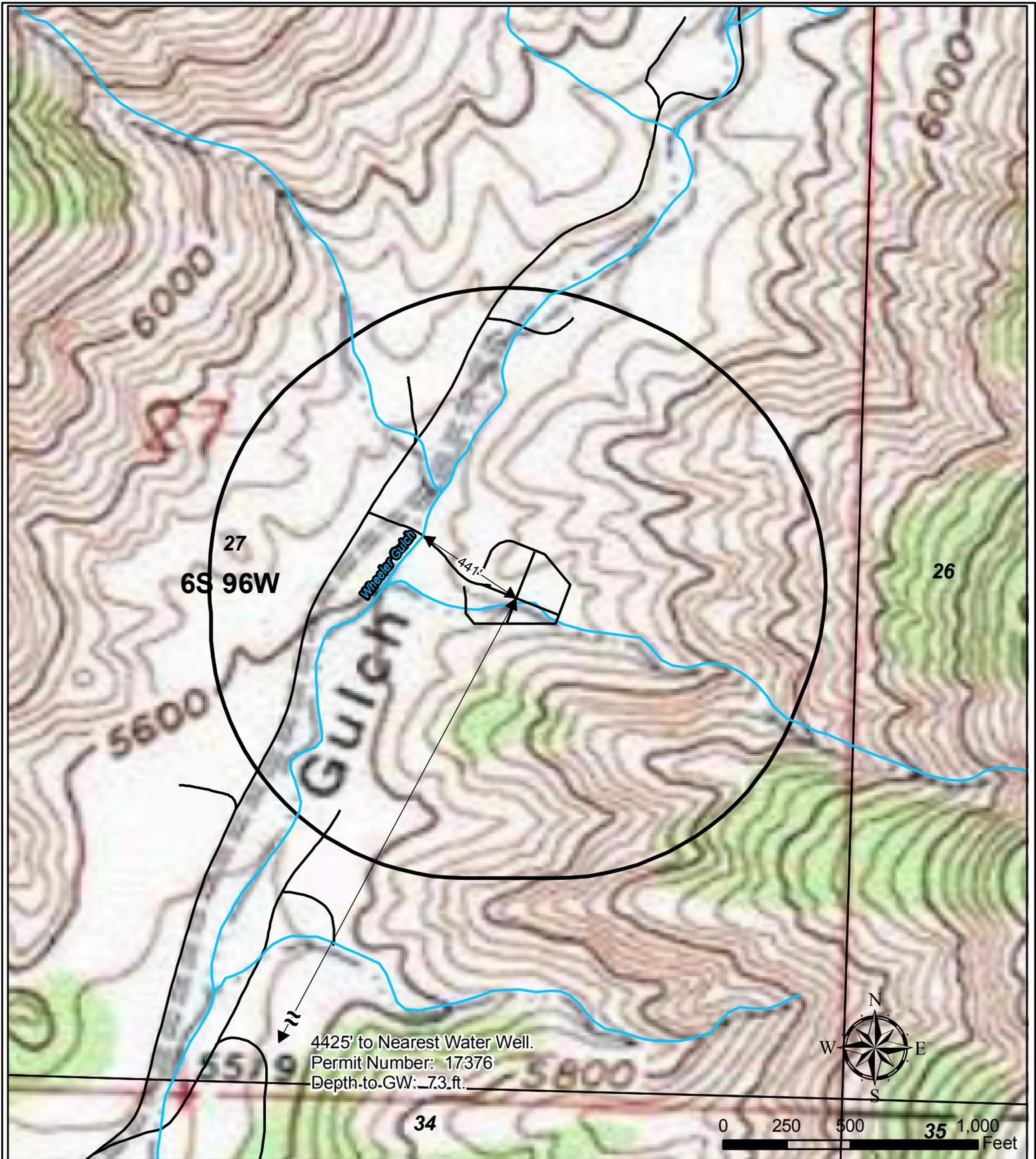
136 East Third Street
 Rifle, Colorado 81650
 Ph. (970) 625-1330
 Fax (970) 625-2773



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
- Stream
- 1000' Buffer

Williams Production RMT

Plat 5C

MV 29-27 Hydrology Map
 T6S R96W, Section 27



Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
Person(s) conducting inspection	Ashlee Lane	5/3/2010
Site Information		
Location:	MV 29-27	Time: 13:30
Type of Facility:	Existing Well pad	
Environmental Conditions	Clear, breezy, dry soil conditions	
Temperature (°F)	~65	

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

X Yes No

SURFACE WATER

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

X Yes No

If yes, list type of surface water feature(s), i.e. rivers, creeks, streams, seeps, springs, wetlands: 2 ephemeral drainages and Wheeler Gulch which is perennial.

If yes, describe location relative to facility:

The existing pad is constructed on top of the largest ephemeral drainage essentially cutting it off from Wheeler Gulch. The smaller ephemeral drainages branches off the larger drainage to the east of the facility and flows to a flat lying area adjacent to the existing facility on the northeast corner. Wheeler Gulch is approximately 441 feet to the east of the existing facility.

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

X 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. Any potential release that would migrate of the west side of the facility. Fluids could potentially enter the remnant channels of the two ephemeral drainages that are still present west of the facility and flow into Wheeler Gulch. In addition Wheeler Gulch could be impacted should a potential release migrate down the access road to the west of the facility.

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:

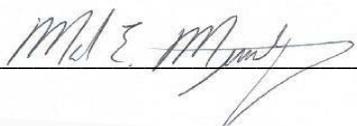
Most if any impacts as a result of a potential release would be to surface water features. Wheeler Gulch in general has become an area of concern due to activities within the Canyon itself and activities on top of the Roan Plateau which has resulted in increased traffic and thus the potential for impacts to live surface water. In addition, Wheeler Gulch is less than 500 feet from the existing facility and therefore according to the COGCC lies within a sensitive area.

When reconfiguration of the pad commences, close consideration should be given to devise a plan to divert the flow from the ephemeral drainages around the pad either through open cuts or culverts. The way the facility is currently situated a majority of storm water runoff infiltrates into the flat lying area northeast of the facility. Adequate BMP's should be installed on all sides of the pad with extra attention given to the western side of the facility. The access road should also be addressed in order to prevent any impacts form a potential release from migrating down the access road towards wheeler Gulch.

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 proposed facility should know where the spill prevention devises are located and trained in the operation of these devises in the event of a potential release.

Due to the fact 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 73 feet. 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.

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: 5/5/2010

 Date: 5/5/2010