

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, 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	<input checked="" type="checkbox"/>	
Topo Map w/ Pit Location	<input checked="" type="checkbox"/>	
Water Analysis (Form 25)	<input type="checkbox"/>	
Source Wells (Form 26)	<input type="checkbox"/>	
Pit Design/Plan & Cross Sec	<input checked="" type="checkbox"/>	
Design Calculations	<input type="checkbox"/>	
Sensitive Area Determ.	<input checked="" type="checkbox"/>	
Mud Program	<input type="checkbox"/>	
Form 2A	<input type="checkbox"/>	

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) 589-0743
Fax: (970) 285-9573

API Number (of associated well): 05-103-10597 OGCC Facility ID (of other associated facility): 335718

Pit Location (Ctr Qtr, Sec, Twp, Rng, Meridian): NWNE S2 T25 R98W 6th PM
Latitude: 39.910101 Longitude: -108.358278 County: Rio Blanco

Pit Use: Production Drilling (Attach mud program) Special Purpose (Describe Use): Multi-Well

Pit Type: Lined Unlined Surface Discharge Permit: Yes No

Offsite disposal of pit contents: Injection Commercial Pit/Facility Name: RGU 31-2-298 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: 832 ground water: unknown water wells: 6383

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: 73
Soils Series Name: Rentsac Horizon thickness (in inches): A: 0-5 ; B: 5-16 ; C: 16-20
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: 125 Width: 100 Depth: 15

Calculated pit volume (bbls): 21474 Daily inflow rate (bbls/day): various

Daily disposal rates (attach calculations): Evaporation: _____ bbls/day Percolation: none bbls/day

Type of liner material: Polethylene Thickness: 2 x 24 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): gravity separation

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: 12/12/2011

OGCC Approved: [Signature] Title: Env. Sup Date: 12/15/11

CONDITIONS OF APPROVAL, IF ANY:

COA: Operator will cease use of pit by 6/30/12 or conduct 72-hour hydrostatic test of liner by same date. Operator will submit closure plan Form 27 or provide status update to OGCC by 6/30/2012. Operator will provide analytical data from grab sample collected from pit water on Form 4 by 6/30/2012. ADF 12/15/11

FACILITY NUMBER: 426887

Topo Map with Pit Location



Legend

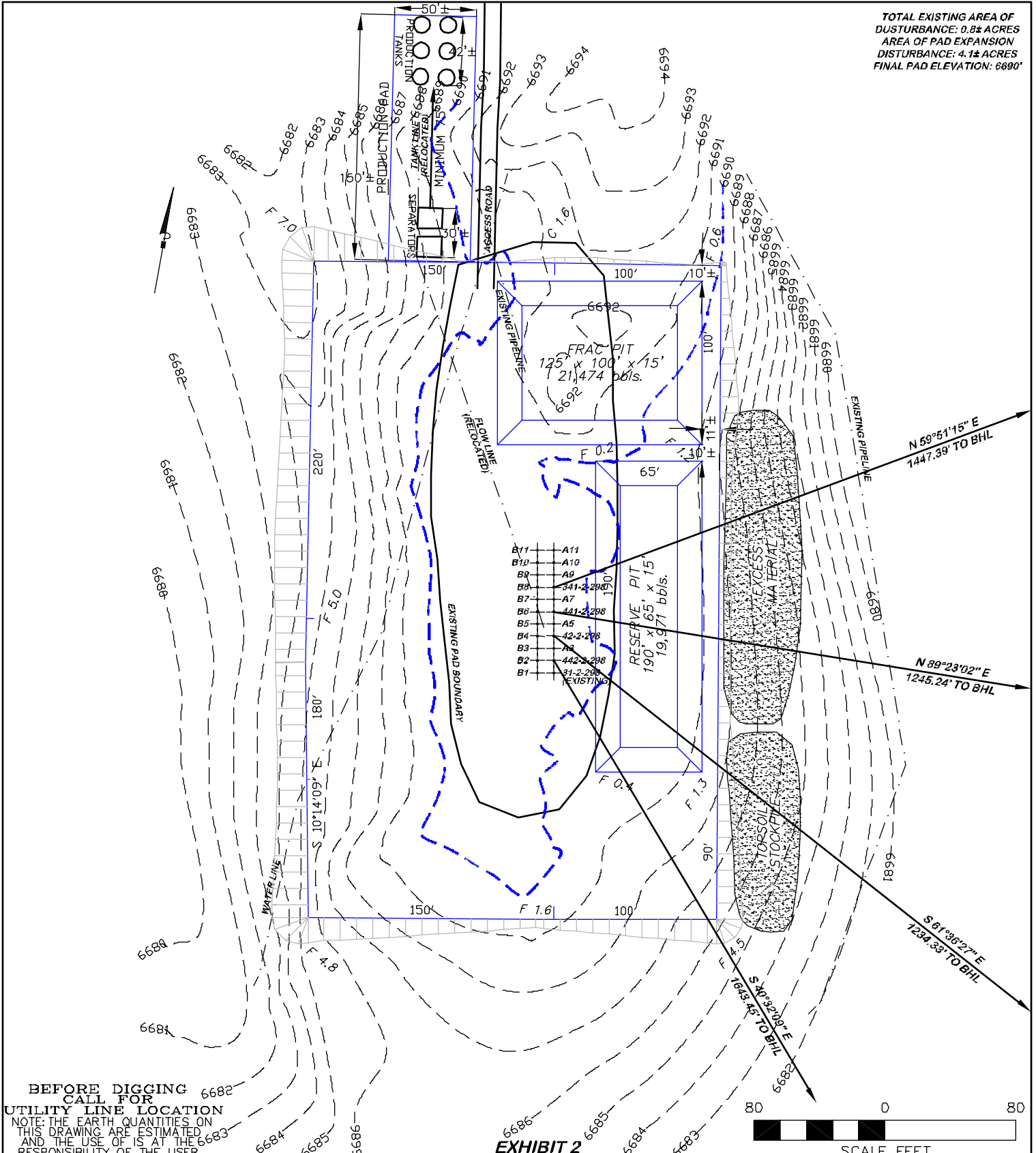
- Pad Location
- County Road
- Other Road

RGU 31-2-298
Regional Location Map



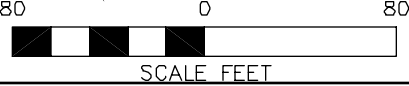
Detailed Site Plan
Pit Design Plan and Cross Sections

TOTAL EXISTING AREA OF
DISTURBANCE: 0.8± ACRES
AREA OF PAD EXPANSION
DISTURBANCE: 4.1± ACRES
FINAL PAD ELEVATION: 6890'



BEFORE DIGGING
CALL FOR
UTILITY LINE LOCATION
NOTE: THE EARTH QUANTITIES ON
THIS DRAWING ARE ESTIMATED
AND THE USE OF IS AT THE USER'S
RESPONSIBILITY OF THE USER.

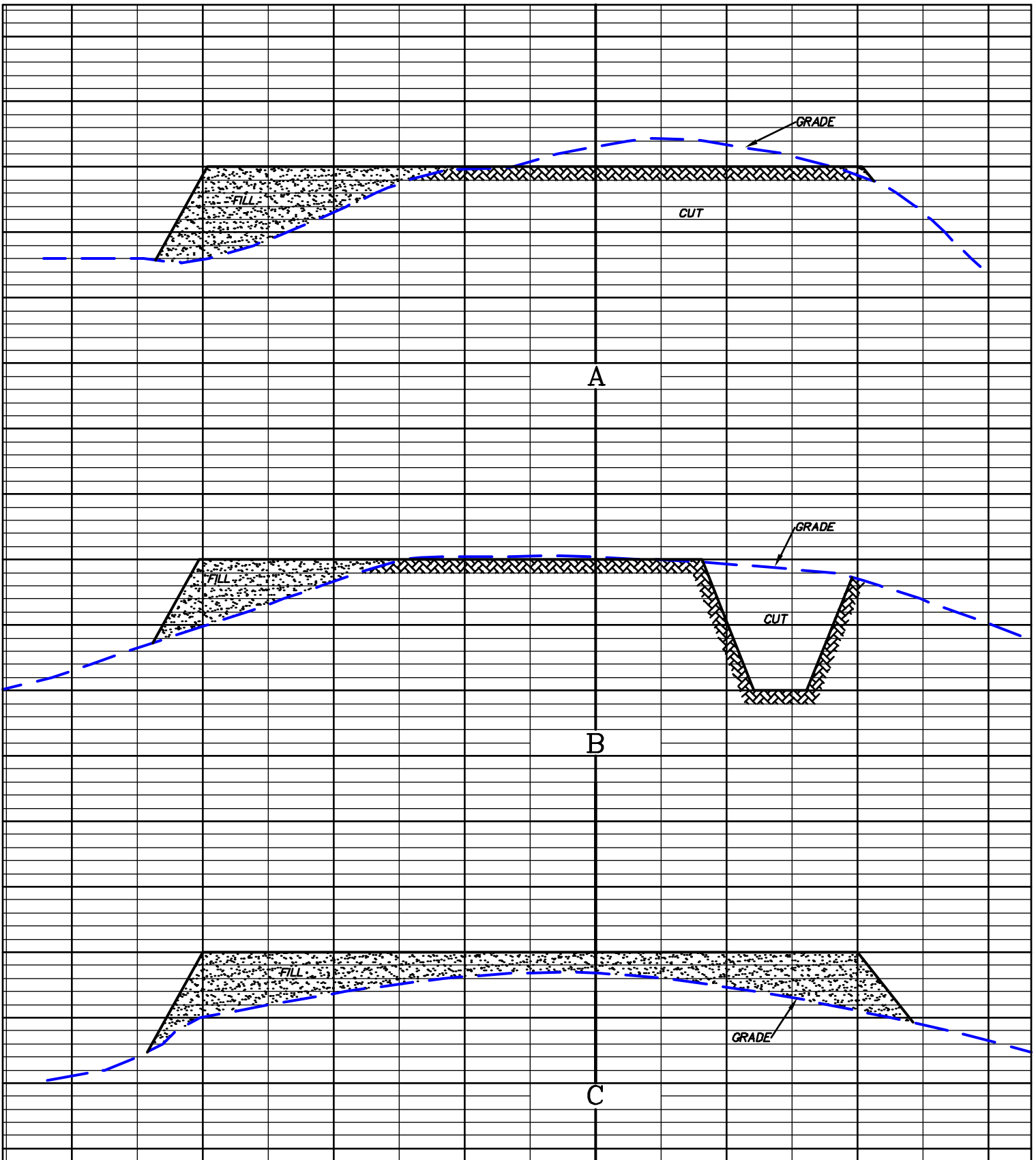
EXHIBIT 2



**WILLIAMS PRODUCTION RMT COMPANY
FEDERAL RGU 31-442-42-441-341-2-298**

ESTIMATED EARTHWORK

1414 ELK ST., SUITE 202 ROCK SPRINGS, WY 82901 (307) 362-5028	SCALE: 1" = 80'	ITEM	CUT	FILL	TOPSOIL	EXCESS
	JOB No. 12605	PAD	557 CY	4605 CY	N/A	-4048 CY
	REVISED: 8/23/07	PIT	4153 CY			4153 CY
		TOTALS	4710 CY	4605 CY	N/A	105 CY



DRG RIFFIN & ASSOCIATES, INC.

**WILLIAMS PRODUCTION RMT COMPANY
FEDERAL RGU 31-,442-,42-,441-,341-2-298**

1414 ELK ST., SUITE 202
ROCK SPRINGS, WY 82901
(307) 362-5028

JOB No. 12605
REVISED: 11/8/07

HORZ. 1" = 50' VERT. 1" = 10'

FINAL ELEVATION: 6690.0'

EXHIBIT 3

Sensitive Area Determination

Sensitive Area Determination Checklist

Williams Production RMT Company		
Person(s) Conducting Field Inspection	Ashlee Lane	10/13/10
	<i>Biologist</i>	
Site Information		
Location:	RGU 31-2-298	Time: 1600
Type of Facility:	Existing Well Pad	
Environmental Conditions	Clear and calm	
Temperature (°F)	70°	

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, USGS identified unnamed intermittent drainages, tributaries to Ryan Gulch, and one unnamed ephemeral drainage.

If yes, describe location relative to facility: The first USGS identified ephemeral drainage is located 1,144 feet to the west and the second USGS identified ephemeral drainage is located 798 feet to the east of the existing facility. The unnamed ephemeral drainage is located approximately 20 feet from the northwestern corner of the 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. A potential release, if it were to migrate off the facility would tend to flow to the east or southwest following the natural topographic contours of the area.

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

High to actual surface water features Low to any flowing surface water

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): Multi-well 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 6(a) of this section.*)
 No (*If no, follow instructions provided in 6(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.

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

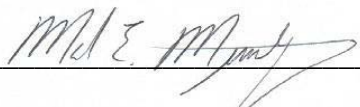
Additional Comments:

As stated in the surface water section of this sensitive area determination there are two USGS identified unnamed intermittent drainages located to the east and west of the existing facility which are tributary to Ryan Gulch and one unnamed ephemeral drainage. It is not anticipated that the unnamed intermittent drainage to the west of the facility would be impacted by a potential release due to the fact that flow off the west side of the facility would enter the unnamed ephemeral drainage immediately west of the facility. Flow would then have to flow an additional 1,900 feet to impact the unnamed intermittent drainage. The unnamed ephemeral drainage has very poorly defined channel and a vegetated bottom suggesting flow does not occur a majority of the time. In addition, the unnamed intermittent drainage to the west of the facility, although identified as intermittent, exhibits more ephemeral characteristics in the immediate vicinity of the facility. The channel does not have a well defined ordinary high water mark (OHMW) and is vegetated along the bottom in certain areas. It is not anticipated that the unnamed intermittent drainage to the east of the facility would be impacted by a potential due to the relatively thick vegetative cover, and the moderate to high infiltration rates of the underlying soils. If a potential release were to migrate the entire 798 feet to unnamed intermittent drainage, it would have to flow an additional 4.8 miles further to the southeast and east to potentially impact any live surface water (Parachute Creek). The existing facility currently has Best Management Practices (BMP's) installed along the eastern, western, and southern sides in the form of a perimeter berm on the facility itself and a diversion ditch along the above noted fill slopes. These should be monitored and maintained to ensure site containment further reducing the potential to impact the above mentioned drainages.

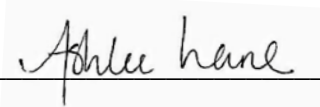
The State Engineer's Office and USGS records were reviewed and no records were revealed that would provide additional information pertaining to the depth to groundwater. The vegetative cover in the immediate vicinity of the facility, Piñon Juniper woodland and sage brush does not suggest the presence of shallow groundwater. The facility resides in the Uintah formation, which like the Green River Formation, tends to be fractured both vertically and horizontally which allows fluids to migrate in the subsurface over large distances. Based on the topographical setting of the facility, it is not anticipated that an overland release would impact groundwater due to the short duration time involved and the fact it would spread out over a large area. The greatest potential for impact to groundwater, if present, would be from a release that occurred over a longer period of time such as a leaking pit. To lessen any potential to impact groundwater, it would be highly recommended that the pit be lined in accordance to COGCC criteria and tested prior to placement of any materials into it.



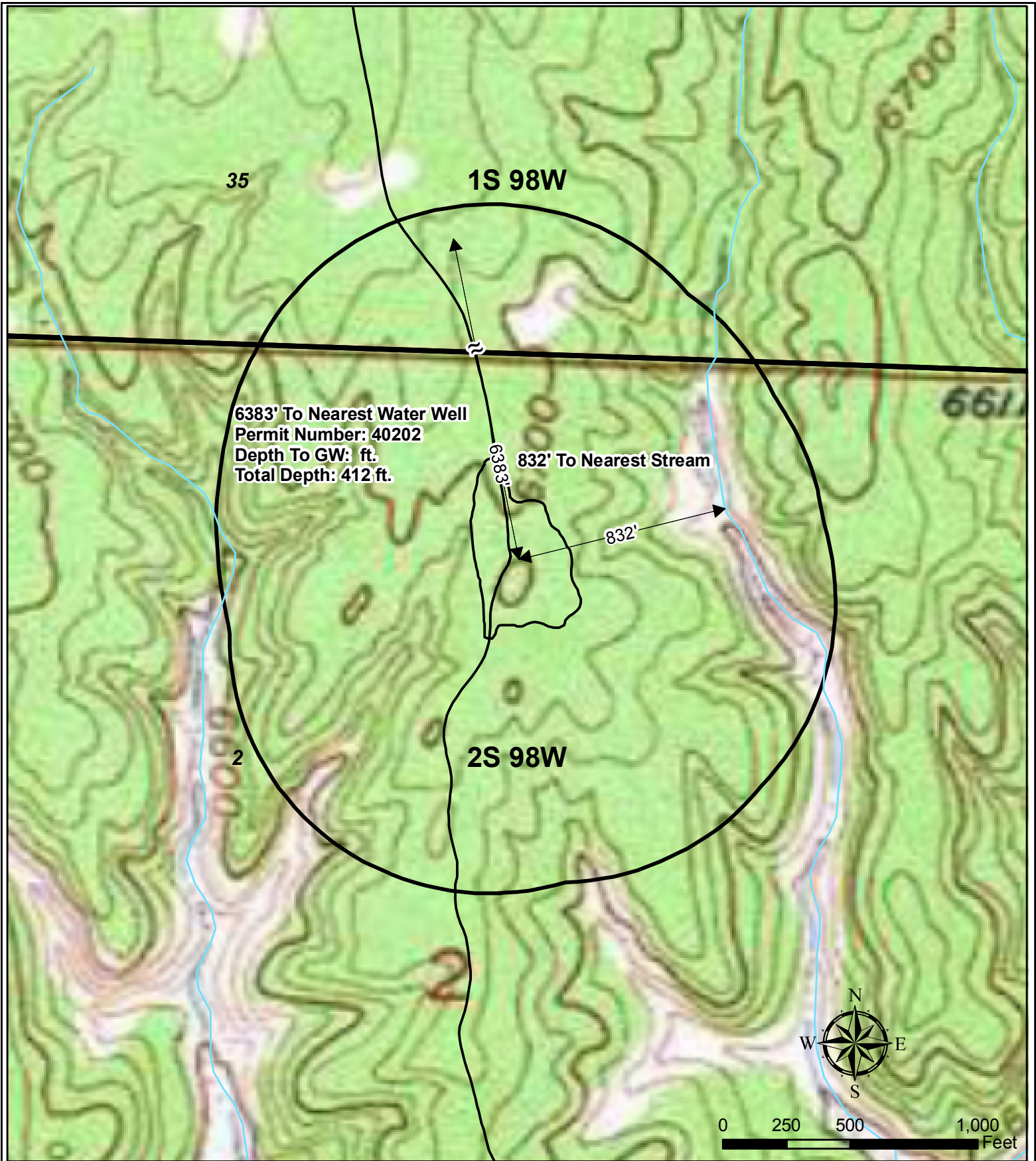
Based on the information collected during the site investigation and desktop review, the potential to impact surface water features has been deemed moderate to high. However, the potential to impact any live surface water (Parachute Creek) has been deemed low due to the distance a potential release would have to migrate (~4.8 miles) to impact this live water source. Based on the topographical setting of the proposed facility, the potential to impact ground water has been deemed low as well. Therefore, the facility can be designated as being in a non-sensitive area.

Inspector Signature(s):  Date: 11/1/2010

Mark E. Mumby, *Project Manager/RPG*
HRL Compliance Solutions, Inc.

 Date: 10/18/2010

Ashlee Lane, *Biologist*
HRL Compliance Solutions, Inc.



Legend

- Water Well
- Stream
- Pad
- 1000' Buffer

Williams Production RMT

Plat 5C

RGU 31-2-298 Hydrology Map
T2S R98W, Section 2

