FORM 15 Rev 6/99

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

	Oper	OGCC
Detailed Site Plan	X	
Topo Map w/ Pit Location	X	
Water Analysis (Form 25)	NA	
Source Wells (Form 26)	NA	
Pit Design/Plan & Cross Sect	X	
Design Calculations	X	
Sensitive Area Determ.	X	
Mud Program	NA	
Form 2A	NA	

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) 285-9573

API Number (of associated well): 05-045-18108 OGCC Facility ID (of other associated facility): _____

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE Sect 20 T6S, R95W 6th

Latitude: 39.517658 Longitude: -108.013317 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: DOE 2-W-20 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: 345 ground water: 130 water wells: 9713

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 form USNRCS survey: Sheet No: _____ Soil Complex/Series No: 52

Soils Series Name: Parachute Loam Horizon thickness (in inches): A: 0-5 ; B: 5-18 ; C: 18-33

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: 8/13/2010

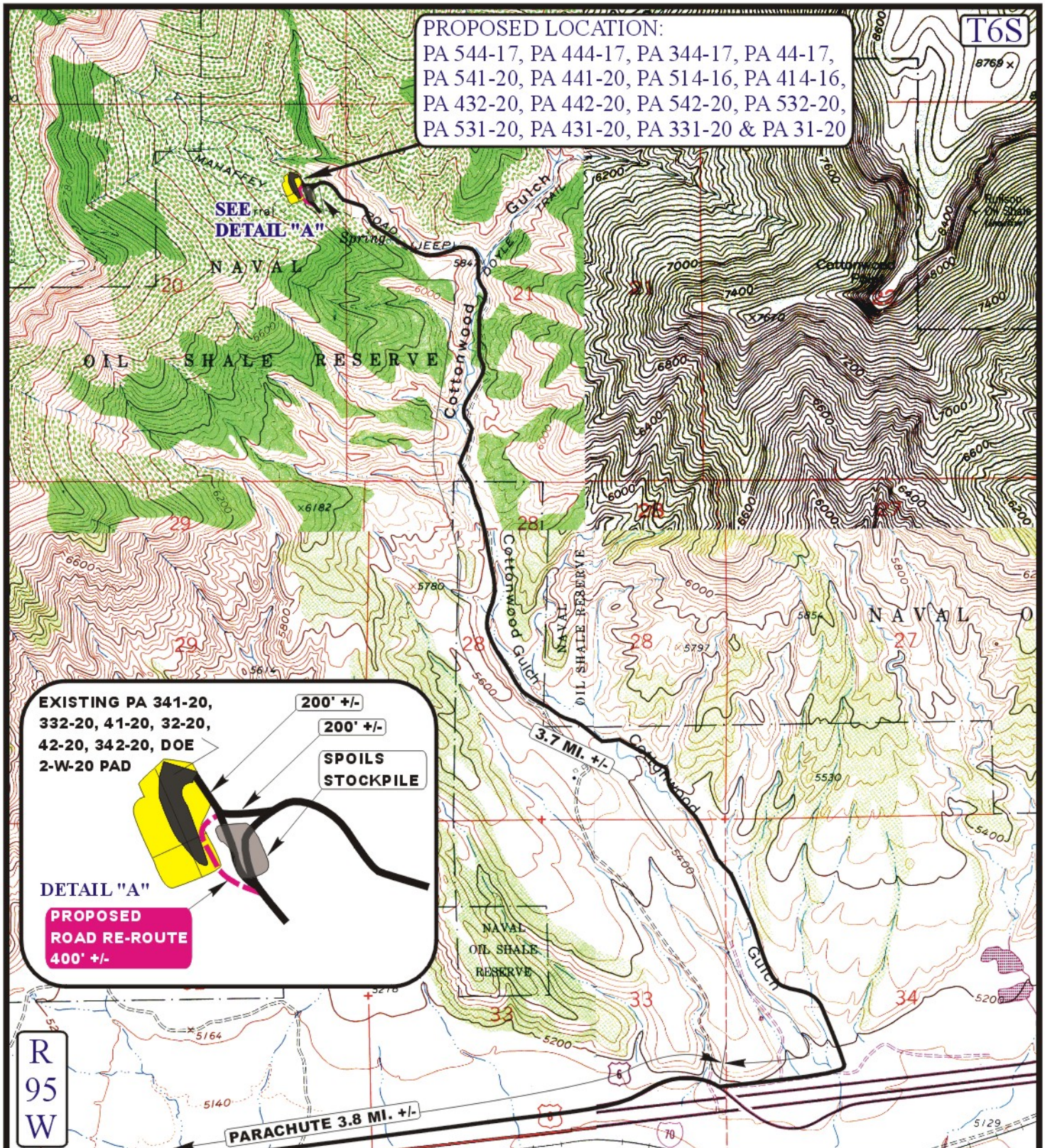
OGCC Approved: Chris Canfield, P.G. Title: _____ Date: _____

Digitally signed by Chris Canfield, P.G.
DN: cn=Chris Canfield, P.G., o=COGCC, ou=EPS - NW Region, email=chris.canfield@state.co.us, c=US
Date: 2010.09.10 12:50:29 -06'00'

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER:

Topo Map with Pit Location



LEGEND:

PROPOSED ACCESS ROAD

EXISTING ROAD

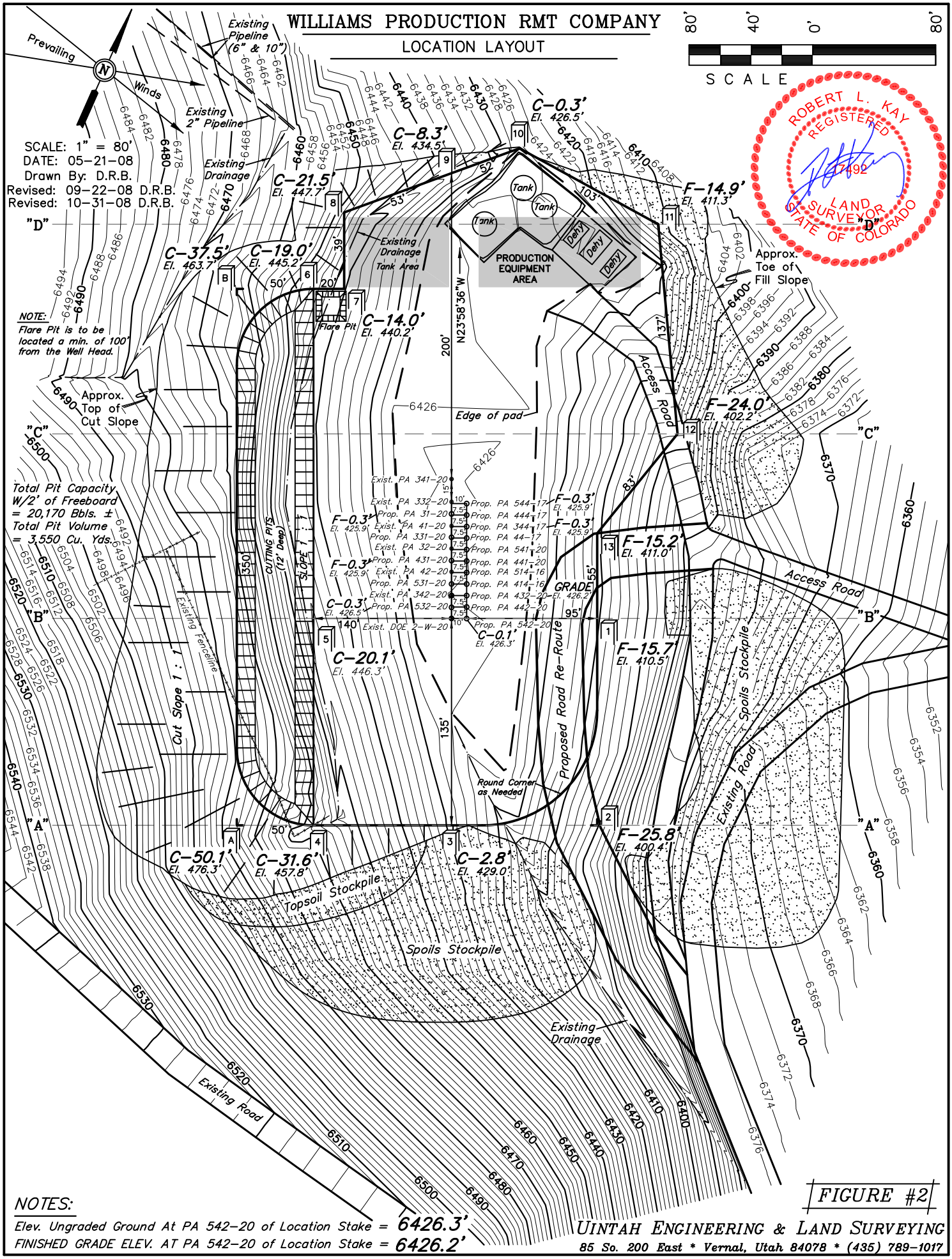
WILLIAMS PRODUCTION RMT COMPANY

N

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

TOPOGRAPHIC MAP	11 MONTH	4 DAY	08 YEAR	5 FIGURE
SCALE: 1" = 2000'	DRAWN BY: J.L.G.	REVISED: 00-00-00		

Detailed Site Plan



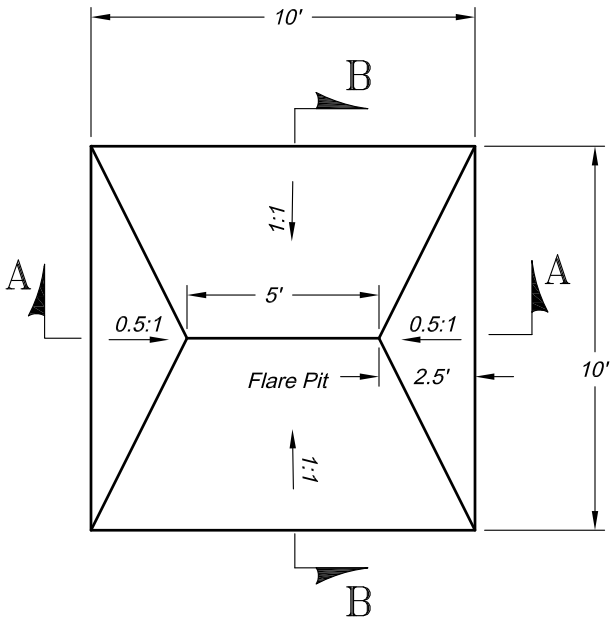
NOTES:

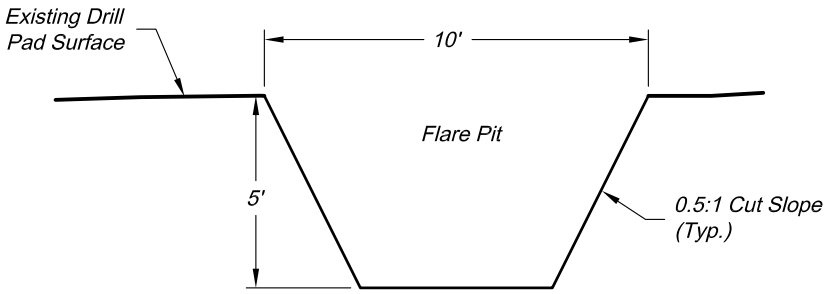
FIGURE #2

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

Pit Design/Plan and Cross Section

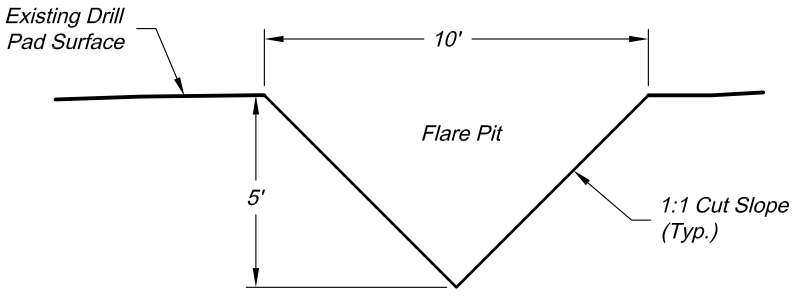
Design Calculations





Section A

Scale: 1" = 5'



Section B

Scale: 1" = 5'

Total Volume ~ 50bbls

Revised date:8/11/09

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

BOOKCLIFF Survey Services, Inc.

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

Construction Plan Prepared for:

Williams Production, RMT

10' x 10' FLARE PIT

WILLIAMS STANDARD DETAIL

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Sensitive Area Determination

Sensitive Area Determination Checklist

Williams Production RMT Company – Valley			
Person(s) conducting inspection		Ashlee Lane	7/30/10
Site Information			
Location:	DOE 2-W-20		Time: 1300
Type of Facility:	Existing Well Pad		
Environmental Conditions	Clear and calm; soil conditions slightly saturated due to recent precipitation events.		
Temperature (°F)	90		

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: Unnamed intermittent drainage.

   If yes, describe location relative to facility: The unnamed intermittent drainage is located 513 feet to the north of the existing 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. Any potential flows off of the facility would tend to flow to the northeast and east. The unnamed intermittent drainage to the north of the facility leads directly to Cottonwood Gulch. Potential flows would follow the topography of the area traveling off of the northeast side of the pad and/or would have the potential to follow the access road to the east which could enter the unnamed intermittent drainage via road culverts.

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): Emergency Flare Pit

2. Is the site of the existing facility underlain by an unconfined aquifer or recharge zone?
   ☒ Yes ☐ No

3. Is the hydraulic conductivity of the underlying soil or geologic material $\leq 1.0x10^{-7}$ cm/sec?
   ☐ Yes ☒ No

4. Is the existing 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 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 existing 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 If present ☐ Low

Additional Comments:

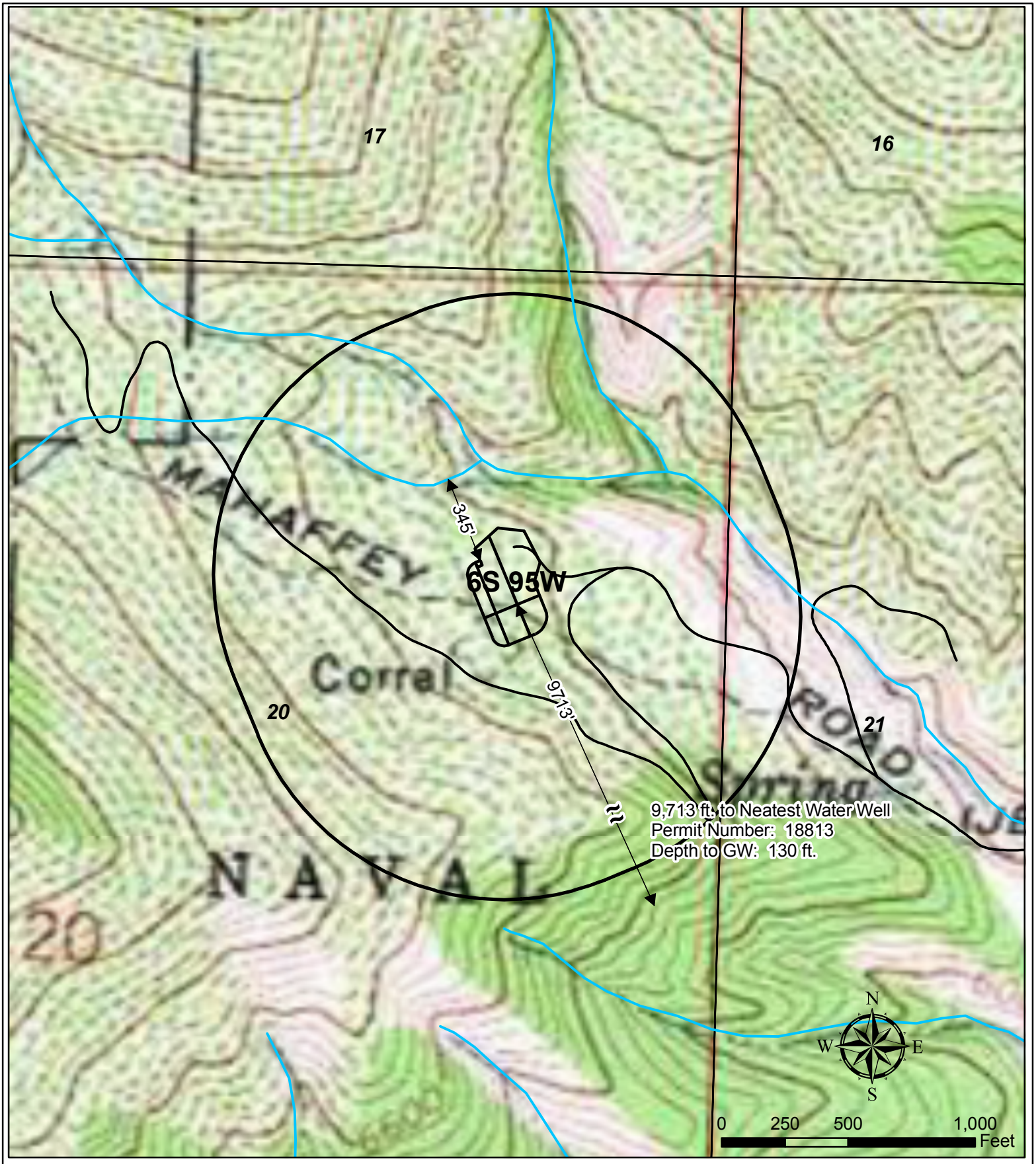
As identified during the site investigation, an unnamed intermittent drainage resides approximately 513 feet north of the existing facility. The well pad is cut into the North Parachute (Allen Point) mountains with the cut slope existing on the west side of the well pad. The north side of the well pad is covered by a thick vegetative filter. It is more plausible for a release to either migrate off of the north east corner of the well pad down the access road or due east off of the well pad. There are identified culverts which empty north of the access road which may have the potential to enter the unnamed intermittent drainage. As identified in the surface water section of this sensitive area determination checklist, the potential to impact surface water will be high due to the steepness of the topography on the northern side of the facility. Live water is present in the intermittent drainage below the facility. Adequate BMPs should be installed and maintained in the form of containment berms and straw bale barriers around the northern and eastern parameters during the life of the well pad to maintain site containment integrity.

The nearest water well is 9,713 feet south east of the facility with a known depth to ground water being 130 feet. There were no field indicators that identified a presence of shallow ground water within the vicinity of the existing well pad. However the facility is located within the Green river formation which is known to be fractured both vertically and horizontally which allows for potential fluid migration over fairly large distances. If a potential release were to intersect a fracture system there is the possibility that the lower surface water features could be impacted. Evidence of possible fracture flow is noted by a lone elm tree approximately 100 meters south of the existing facility on the hillside. In order to prevent a potential release from migrating into the sub-surface the emergency flare pit should be lined.

Based on the sensitive area determination checklist and the rationale indicated above, this facility should be designated as being in a sensitive area.

Inspector Signature(s): _____ Date: 08/10/2010

_____ Date: 08/09/2010



Legend

- Water Well
- Pad or Pit
- Stream
- 1000' Buffer

Williams Production RMT

DOE 2-W-20 Hydrology Map
T6S R95W, Section 20

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