

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.

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

Complete the
Attachment Checklist

	Oper	OGCC
Detailed Site Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Topo Map w/ Pit Location	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water Analysis (Form 25)	<input type="checkbox"/>	NA
Source Wells (Form 26)	<input type="checkbox"/>	NA
Pit Design/Plan & Cross Sec	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Design Calculations	<input type="checkbox"/>	NA
Sensitive Area Determ.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mud Program	<input type="checkbox"/>	NA
Form 2A	<input type="checkbox"/>	NA

API Number (of associated well): 05-045-19447

OGCC Facility ID (of other associated facility):

335529
LOCATION ID#

Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): SWSE S18-T6S-R91W- 6th

Latitude: 39.522160 Longitude: -107.594632 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: KP 34-18 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: 249 ground water: 126 water wells: 3595

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: 58 Soil Complex/Series No:

Soils Series Name: Potts Horizon thickness (in inches): A: 0-4 ; B: 4-28 ; C: 28-60

Soils Series Name: Ildefonso Horizon thickness (in inches): A: 0-8 ; B: 8-60 ; 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: 10/28/2010

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

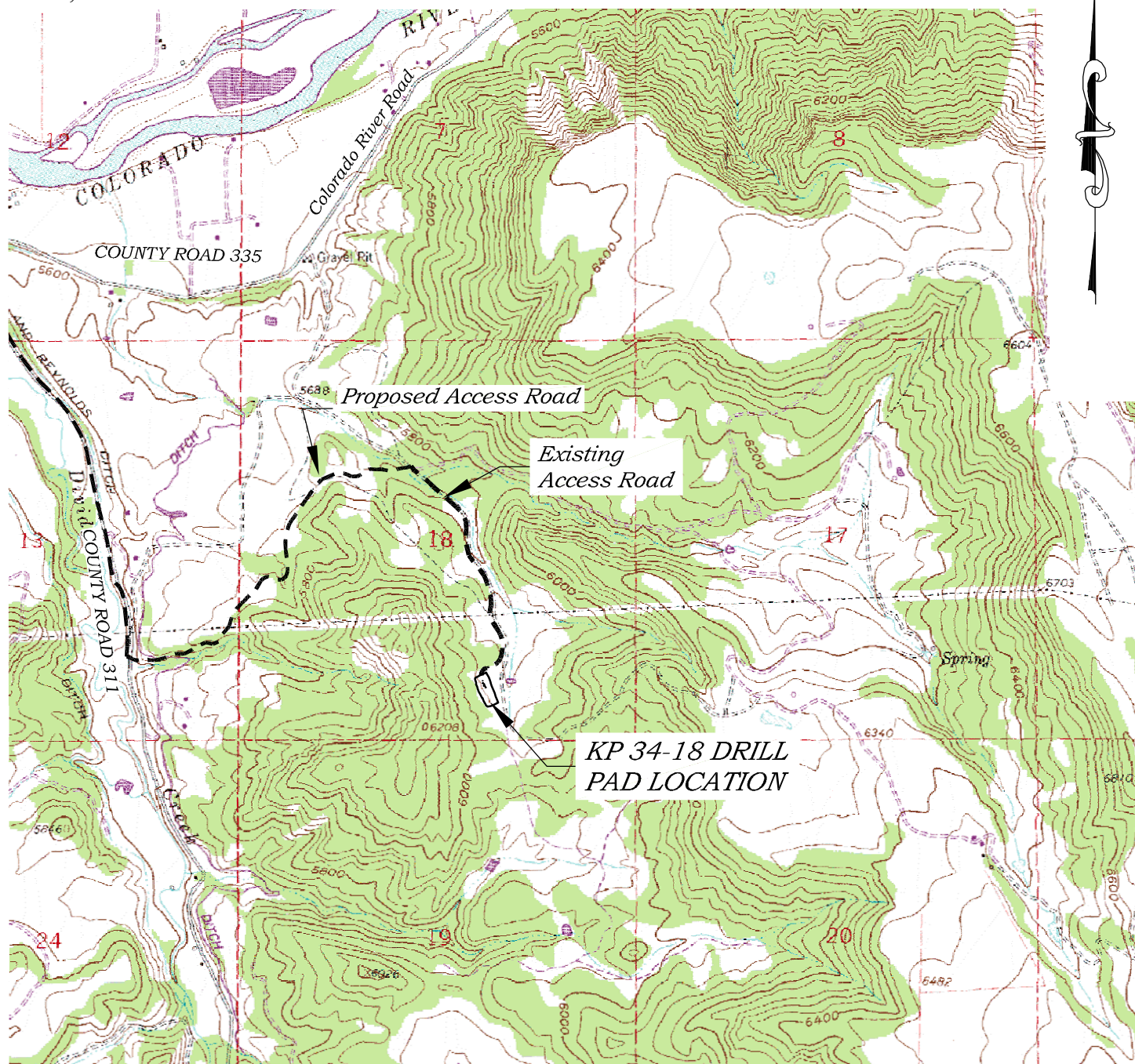
CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER: 422639

For A Fischer

Topo Map with Pit Location

Section 18
T. 6 S., R 91 W



ACCESS DESCRIPTION:

FROM THE INTERSECTION OF COLORADO INTERSTATE 70 OVERPASS (Exit 97) AND RIVER FRONTAGE ROAD SOUTH OF SILT, COLORADO, PROCEED EAST ± 0.4 MILES ALONG RIVER FRONTAGE ROAD TO THE INTERSECTION WITH COUNTY ROAD 311 (DIVIDE CREEK ROAD), PROCEED RIGHT IN A SOUTHERLY TO EASTERLY DIRECTION ± 2.0 MILES TO A 'Y' INTERSECTION WITH COUNTY ROAD 335, PROCEED RIGHT IN AN SOUTHERLY DIRECTION ALONG COUNTY ROAD 311 ± 1.3 MILES TO THE INTERSECTION WITH A DIRT GRAVEL ROAD, PROCEED LEFT IN AN EASTERLY TO NORTHEASTERLY DIRECTION ± 1.0 MILES TO THE INTERSECTION WITH A DIRT GRAVEL ROAD, PROCEED PROCEED RIGHT IN AN SOUTHERLY DIRECTION ± 0.6 MILES TO THE EXISTING KP 34-18 DRILL PAD LOCATION, AS SHOWN HEREON.

REVISED: 3/12/10

SCALE: 1" = 2000'
DATE: 12/15/09
PLAT: 5 of 9
PROJECT: Williams
DFT: cws

Construction Plan Prepared for:

Williams Williams Production, RMT

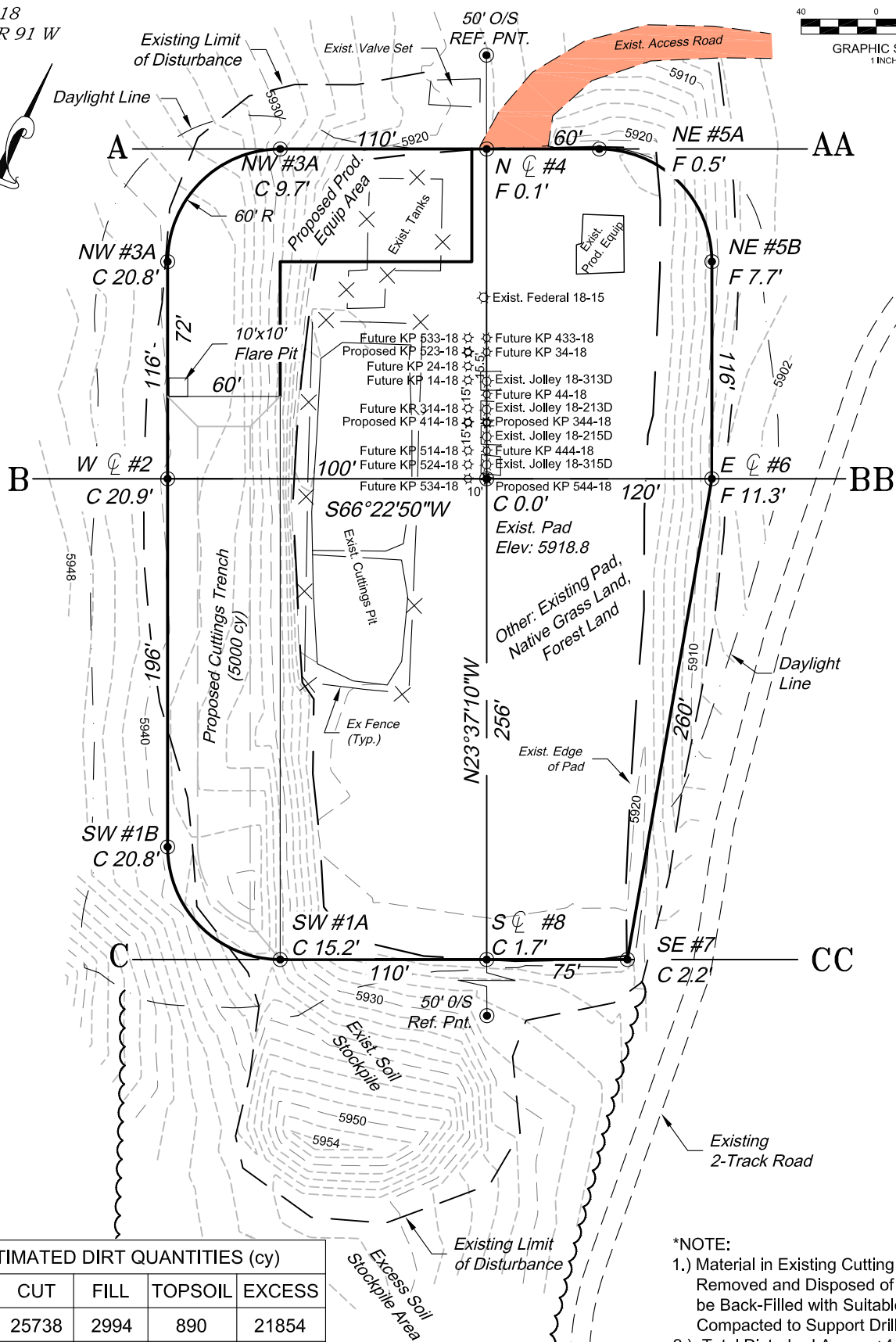
*KP 34-18 Drill Pad - Plat 5
ACCESS ROAD MAP*

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



Detailed Site Plan

Section 18
T. 6 S., R 91 W



ESTIMATED DIRT QUANTITIES (cy)

ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	25738	2994	890	21854
PIT	5000			5000
TOTALS	30738	2994	890	26854

*NOTE:

- 1.) Material in Existing Cutting Trench to be Removed and Disposed of Properly. Trench to be Back-Filled with Suitable Fill Material and Compacted to Support Drilling Operations.
- 2.) Total Disturbed Area = ± 4.56 ac.

REVISED: 1/28/10

SCALE: 1" = 80'
DATE: 12/21/09
PLAT: 2 of 9
PROJECT: Williams
DFT: cws

Construction Plan Prepared for:
Williams Williams Production, RMT

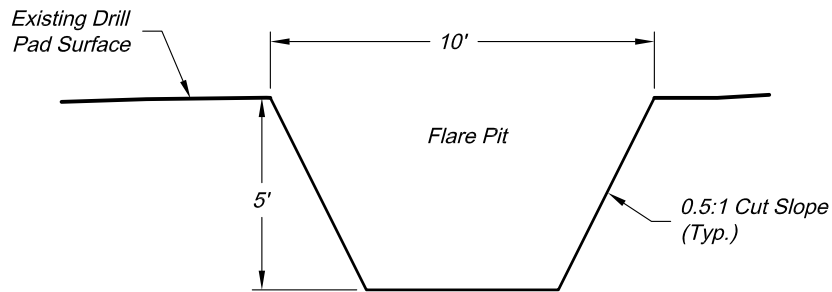
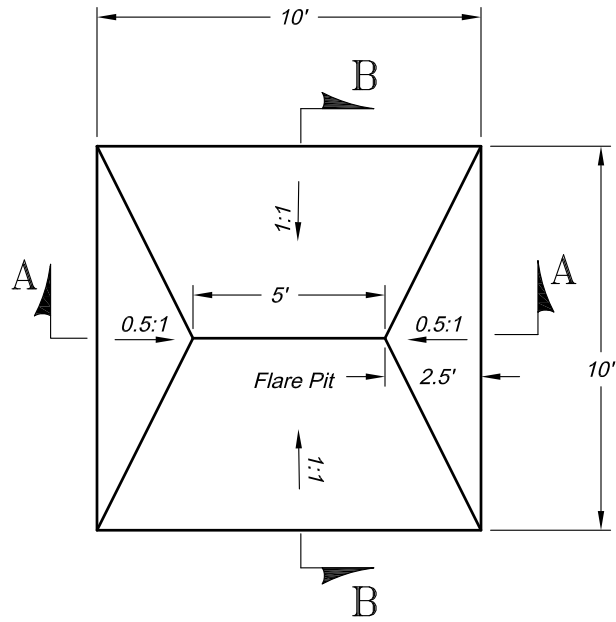
KP 34 -18 Drill Pad - Plat 2
CONSTRUCTION LAYOUT

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



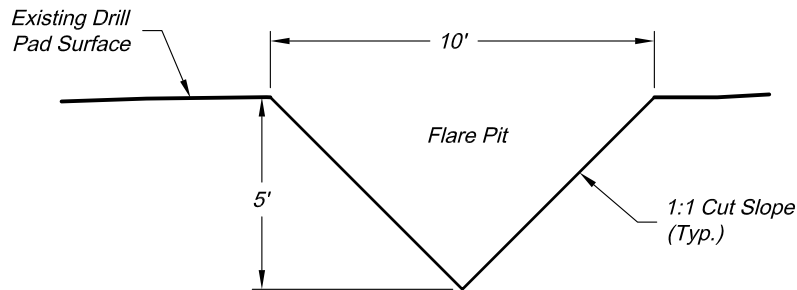
BOOKCLIFF
Survey Services, Inc.

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

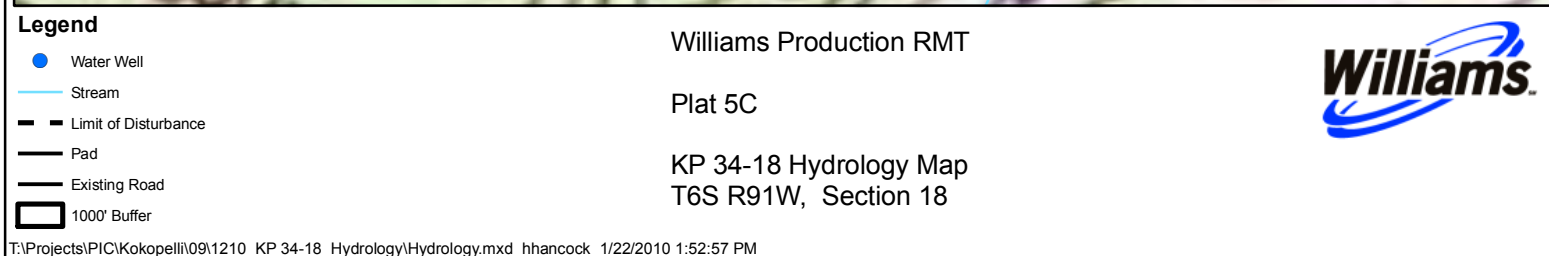
136 East Third Street
Rifle, Colorado 81650
Ph. (970) 625-1330
Fax (970) 625-2773



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

Williams Production RMT Company – Valley		
Person(s) conducting inspection	Ashlee Lane	1/20/2010
Site Information		
Location:	KP 34-18	Time: 12:00
Type of Facility:	Existing Well Pad	
Environmental Conditions	Winter conditions with ~6-10” of snow cover and snowing. Site visit not conducive for inspecting surface features, i.e. vegetation and surface water features.	
Temperature (°F)	~32	

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: An unnamed ephemeral drainage.

If yes, describe location relative to facility: It is located approximately 249 feet to the east 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 could reach the unnamed ephemeral drainage if it was to migrate off the northeast side 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?

X 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 X No

3. Is the hydraulic conductivity of the underlying soil or geologic material $\leq 1.0 \times 10^{-7}$ cm/sec?

☐ Yes X 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 X No

5. Is the proposed facility located within a 100 year floodplain?

☐ Yes (*Sensitive Area*) X 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.*)

X 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 X Low

Additional Comments:

The KP 43-18 is located within the COGCC Rule 317B external buffer zone ruling for the City of Silt's surface water supply area. From a surface water perspective, a release from the facility does have the potential to enter the associated drainage within the 317B buffer zone.

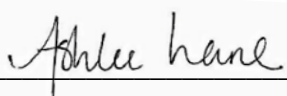
However, during the 404 investigation conducted in the fall of 2009, the unnamed drainage exhibits ephemeral characteristics in the immediate vicinity of the facility and did not have evidence of surface flow even though it is declared an intermittent stream topographically. In addition there is one dam without a spillway that has been constructed in the unnamed drainage slightly downstream of the facility. It appears that this dam was constructed to capture runoff water from precipitation events in order to provide water to livestock. The dam has no spillway or outlet to let surface water flow further downstream. If a release were to occur off the eastern edge of the facility it appears that a majority of the release could be contained by this dam. Therefore it would be very unlikely that a potential release could impact the drainage to any great degree below this point and come in contact with any live surface water. A request has been submitted as well to construct an additional dam further downstream of the current one which will further aid in the mitigation of any potential release off the facility. In addition, the pad currently has excellent storm water BMP's in place which would aid in the prevention of any potential release migrating off the facility.

The closest water well is approximately 3,595 feet to the west in section 13 and has a known ground water depth of approximately 126 feet. The well would also be in a separate flow regime from that of the KP 34-18.

A field visit was conducted to evaluate surface water features and vegetation cover. However due to winter conditions, the area is still under a considerable amount of snow making onsite data collection impractical. Therefore the data collected for this sensitive area determination is based on the COGCC data base, State Engineers Office website, and the NRCS Web Soil Survey website via desktop review. The desktop review indicates that this location is not in a sensitive area.

When the weather permits, a field investigation will be conducted to confirm the desk top review.

Inspector Signature:  Date: 1/25/2020

 Date: 1/20/2010