

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

FORM SUBMITTED FOR:

☐ Pit Report ☒ Pit Permit

Detailed Site Plan	x
Topo Map w/ Pit Location	x
Water Analysis (Form 25)	N/A
Source Wells (Form 25)	N/A
Pit Design Plan & Cross Sec	x
Design Calculations	x
Sensitive Area Determ.	x
Mud Program	N/A
Form 2A	x

OGCC Operator Number: 96850Name of Operator: Williams Production RMTAddress: 1058 County Rd 215City: Parachute State: CO Zip: 81635

Contact Name and Telephone:

Karolina BlaneyNo: 970 683-2295Fax: (970) 285-9573API Number (if associated well): 045-05055OGCC Facility ID (if other associated facility): 322291Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): SWNW 34, S 14, T 7S, R 95W, M 6thLatitude: 39.440312Longitude: 107.972721County: GarfieldPit Use: ☐ Production ☐ Drilling (Attach mud program) ☒ Special Purpose (Describe Use): Flare PitPit Type: ☐ Lined ☒ Unlined Surface Discharge Permit: ☐ Yes ☒ NoOffsite disposal of pit contents: ☐ Injection ☐ Commercial Pit/Facility Name: FEDERAL RULISON UNIT Pit/Facility No: 14-95

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: 2135 ground water: 173 water wells: 2052

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 ☐ CRPNon-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☒ Other (describe): Reclaimed Well PadSubdivided: ☐ Industrial ☐ Commercial ☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units from USNRCS survey: Sheet No: NA Soil Complex/Series No: 67Soils Series Name: Torriforthents - Rock Outcrop Complex Horizon thickness (in inches): A: 0-4 ; B: 4-30 ; C: 30-34

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: 5Calculated pit volume (bbls): ~50 Daily Inflow rate (bbls/day): N/ADaily disposal rates (attach calculations): Evaporation: N/A bbls/day Percolation: N/A bbls/dayType of liner material: N/A 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): N/AIs 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.

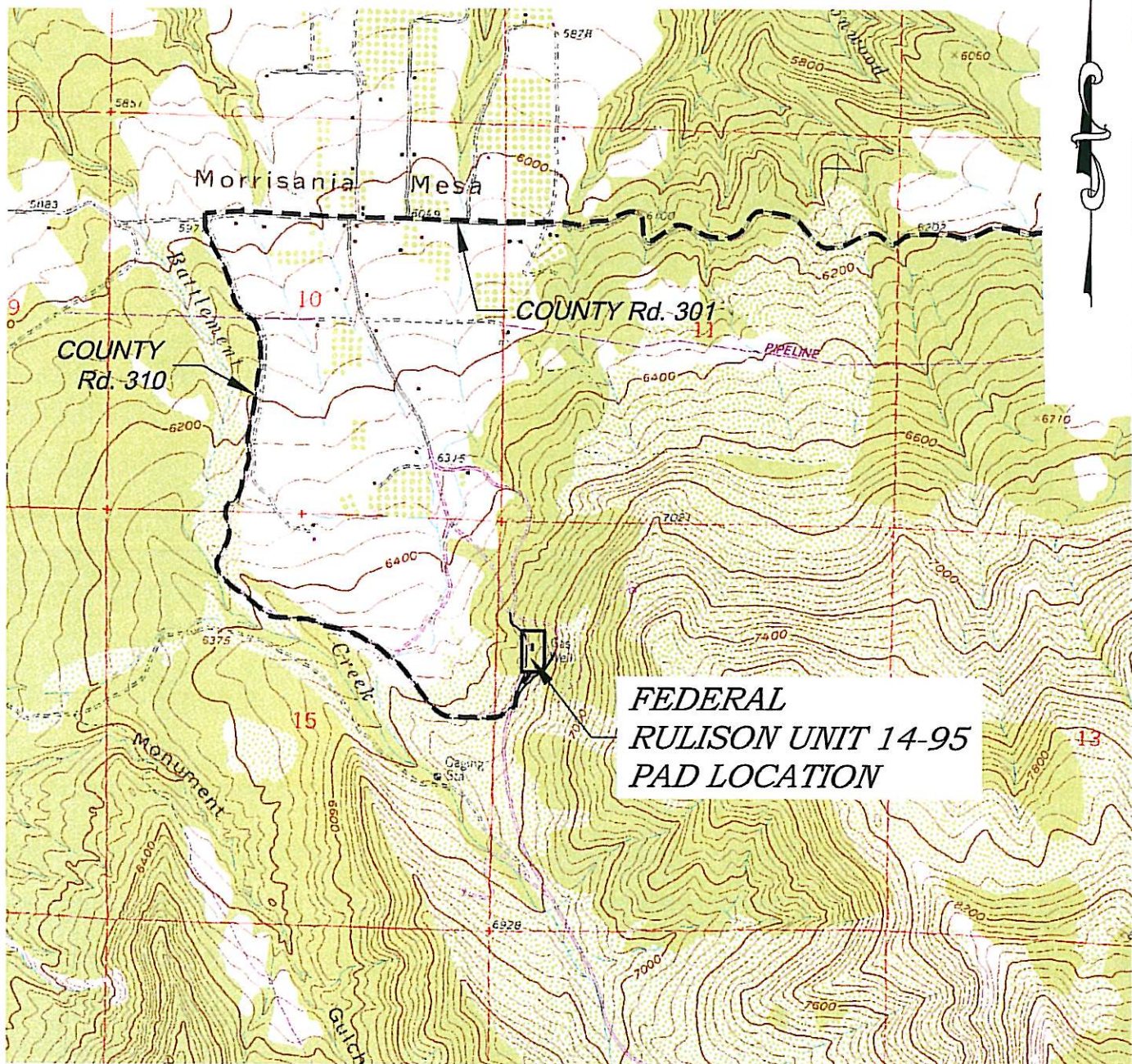
Print Name: Karolina BlaneySigned: Karolina BlaneyTitle: Environmental SpecialistDate: 8/12/09OGCC Approved: Paula Blythe Title: Env. Supervisor Date: 04/06/2011

CONDITIONS OF APPROVAL, IF ANY:

FACILITY NUMBER: 422635

FOR A Fischer

Topo Map with Pit Location



ACCESS DESCRIPTION:

FROM THE INTERSECTION OF STATE HIGHWAY 6 AND COUNTY ROAD 323 (RULISON ROAD) NORTH OF RULISON, PROCEED SOUTHERLY ALONG COUNTY ROAD 323 (RULISON ROAD) ± 1.1 MILES TO THE INTERSECTION WITH COUNTY ROAD 309 (RULISON PARACHUTE ROAD), PROCEED LEFT IN AN EASTERLY DIRECTION ± 2.3 MILES TO THE INTERSECTION WITH COUNTY ROAD 301, PROCEED RIGHT IN A SOUTHERLY TO WESTERLY DIRECTION ± 5.8 MILES TO THE INTERSECTION WITH COUNTY ROAD 310, PROCEED LEFT IN A SOUTHERLY TO NORTHEASTERLY DIRECTION ± 1.6 MILES TO THE FEDERAL RULISON 14-95 DRILL PAD LOCATION, AS SHOWN HEREON.

136 East Third Street
Rt. 6, Colorado 81650
Ph. (970) 625-1330
Fax (970) 625-2773



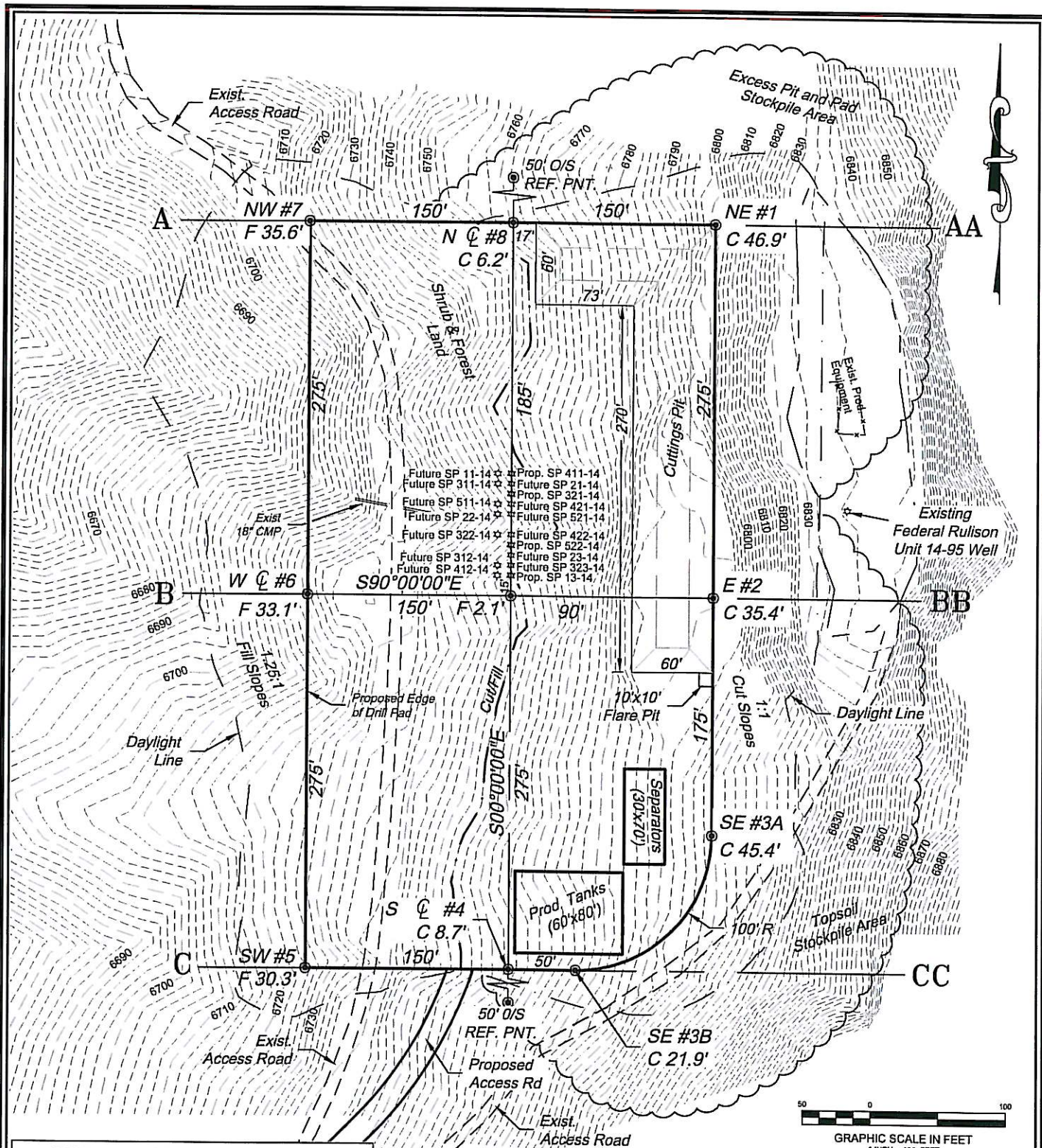
BOOKCLIFF
Survey Services, Inc.

SCALE: 1" = 2000'
DATE: 7/13/09
PLAT: 5 of 9
PROJECT: Williams
DFT: cws

Construction Plan Prepared for:
Williams. Williams Production, RMT

Federal Rulison Unit 14 - 95 - Plat 5
ACCESS ROAD MAP

Detailed Site Plan



ESTIMATED DIRT QUANTITIES (cy)

ITEM	CUT	FILL	TOPSOIL	EXCESS
PAD	110221	98087	9700	2434
PIT	7200			7200
TOTALS	117421	98087	9700	9634

NOTE:

- 1.) TOPSOIL VOLUME BASED ON 12" SOIL DEPTH.
- 2.) TOTAL DISTURBED AREA = 8.16 ac.

REVISED: 8/4/09

SCALE: 1" = 100'
 DATE: 6/29/09
 PLAT: 2 of 9
 PROJECT: Williams
 DFT: cws

Construction Plan Prepared for:
Williams. Williams Production, RMT

Federal Rulison Unit 14-95 - Plat 2
 CONSTRUCTION LAYOUT

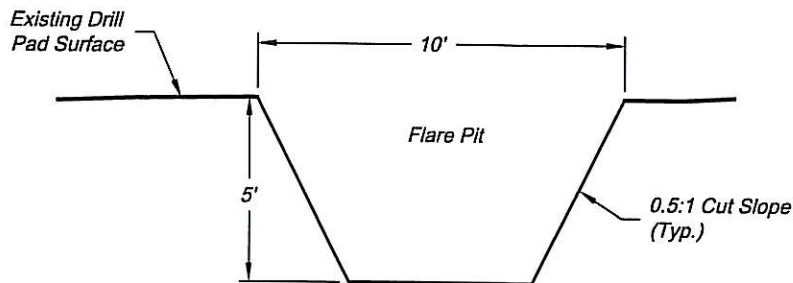
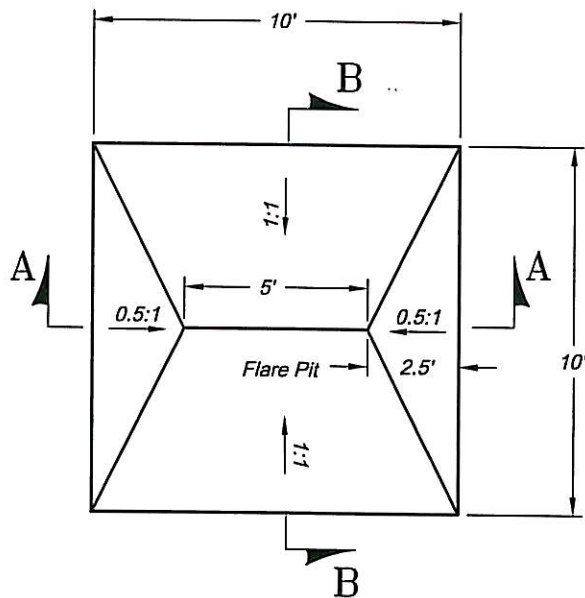
136 East Third Street
 Rifle, Colorado 81650
 P.O. (970) 625-1330
 Fax (970) 625-3773



BOOKCLIFF
 Survey Services, Inc.

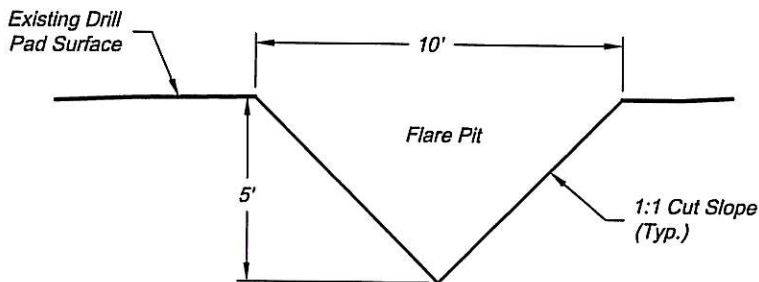
Pit Design/Plan and Cross Section

Design Calculations



Section A

Scale: 1" = 5'



Section B

Scale: 1" = 5'

Total Volume ~ 50bbls

Revised date: 8/11/09

Construction Plan Prepared for:

Williams. Williams Production, RMT

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

10' x 10' FLARE PIT
WILLIAMS STANDARD DETAIL

Sensitive Area Determination

Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
Person(s) conducting inspection	Mark E. Mumby Ashley Lane	Date: 8/11/2009
Site Information		
Location:	Rulison Federal 14-95	Time: 10:00
Site Activity:	None Existing Well Pad	
Personnel on-site:	None	
Environmental Conditions	Clear, calm, soil conditions are dry	
Temperature (°F)	~67	

1. Will the pit of the proposed facility contain hydrocarbons and chlorides or other E&P wastes?
☒ Yes ☐ No (*If no, this form does not need to be completed.*)
 If yes, list pit type(s): Flare Pit

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within the ¼ mile buffer zone?
☐ Yes ☒ No (*If no, move to Groundwater section of this checklist.*)
 If yes, list type of surface water feature(s), i.e. seeps, springs, wetlands:

 If yes, describe location relative to facility:
2. Could a potential release from the proposed facility reach surface water features?
☐ Yes ☐ No (*If no, move to Groundwater section of this checklist.*)
 If yes, describe the pathway release from facility will likely follow to determine if the potential to impact surface water is high or low.
3. Is the potential to impact surface water from a facility release high or low?
☐ High ☐ Low

GROUNDWATER

1. Is the site of the proposed facility underlain by an unconfined aquifer?
☒ Yes ☐ No (*If no, this section does not need to be completed.*)
2. Is the hydraulic conductivity of the underlying soil or bedrock $\geq 1.0 \times 10^{-7}$ cm/sec?
☐ Yes (*If yes, this section does not need to be completed.*) ☒ No
3. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well?
☐ Yes ☒ No (*If no, this section does not need to be completed.*)
4. Is the proposed facility located within a 100 year floodplain?
☐ Yes (*Sensitive Area*) ☐ No (*If no, proceed to question #5.*)
5. Is the depth to groundwater known?
☐ Yes ☐ 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 no, this section does not need to be completed.*)
If yes, model the hydro geologic conditions to determine if the potential to impact groundwater is high or low.
 - (b) If no:
 - (i) Drill a soil boring to determine depth to groundwater.
 - (ii) Evaluate subsurface data to determine if confining layers exist.
 - (iii) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.
6. Is the potential to impact ground water from a facility release high or low?
☐ High ☐ Low

Additional Comments:

This location can be listed as non-sensitive

Inspector(s) Signature(s):

Mel E. Mandy

Date: 8/11/2009

Adrian Lane

Date: 8/11/2009

Copy of Form 2A



For COGCC Use Only

Oil and Gas Location Assessment

☐ New Location ☒ Amend Existing Location Location #: 322291

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a stand alone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this Assessment will allow for the construction of the below specified location; however, it does not supersede any land use rules applied by the local land use authority. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Deemed Complete:

Complete the Attachment Checklist

Attachment	Op	COGCC
Location Pictures	<input checked="" type="checkbox"/>	
Location Drawing	<input checked="" type="checkbox"/>	
Hydrology Map	<input checked="" type="checkbox"/>	
Access Road Map	<input checked="" type="checkbox"/>	
Reference Area Map	<input checked="" type="checkbox"/>	
Reference Area Pictures	<input checked="" type="checkbox"/>	
NRCS Map Unit Desc	<input checked="" type="checkbox"/>	
Const Layout Drawings	<input checked="" type="checkbox"/>	
Multi-well Plan	<input checked="" type="checkbox"/>	
Proposed BMPs	<input checked="" type="checkbox"/>	
Sensitive Area Data	<input type="checkbox"/>	
Section 404 Permit	<input type="checkbox"/>	
CDP Conditions	<input type="checkbox"/>	
317B Notification	<input type="checkbox"/>	

☒ This location assessment is included as part of a permit application.

1. Consultation

- ☐ This location is included in a Comprehensive Drilling Plan. CDP # _____
- ☒ This location is in a sensitive wildlife habitat area.
- ☐ This location is in a wildlife restricted surface occupancy area.
- ☐ This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 96850 Suffix: _____

Name: Williams Production RMT Co.

Address: 1515 Arapahoe St., Tower 3, Suite 1000

City: Denver State: CO Zip: 80202

3. Contact Information

Name: Howard Harris

Phone: (303) 606-4086

Fax: (303) 629-8272

email: howard.harris@williams.com

4. Location Identification:

Name: Federal Refson Number: 14-95

County: Garfield

Quarter: SWNW Section: 14 Township: 7S Range: 95W Meridian: 6th Ground Elevation: 6752

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1711 feet, from North or South section line: N and 470 feet, from East or West section line: W

Latitude: 39.440312 Longitude: 107.972721 PDOP Reading: <6.0 Date of Measurement: 8/27/08

Instrument operator's name: _____

5. Facilities (Indicate the number of each type of oil and gas facility planned on location)

Wells	17	Drilling Pits		Special Purpose Pits		Production Pits		Multi-Well Pits		Oil Tanks	
Condensate Tanks	2	Water Tanks	4	Separators	17	LACT Unit		Dehydrator Units		Gas Compressors	
Pump Jacks		Cavity Pumps		Electric Motors		Gas or Diesel Motors	3	Electric Generators	3	Fuel Tanks	1
Pigging Station		Gas Pipeline	1	Oil Pipeline	1	Water Pipeline	1	Flare	1	VOC Combustor	
Other: _____ Cuttings Trench											

6. Construction

Date planned to commence construction: 2/1/2010 Size of disturbed area during construction in acres: 8.16 Is H2S Anticipated: Yes ☐

Estimated date that interim reclamation will begin: 5/1/2011 Size of location after interim reclamation in acres: 1.57

Estimated post-construction ground elevation: 6754 Will a closed loop system be used for drilling fluids: Yes ☒

Will soil sections be encountered during drilling: Yes ☐ No ☒ Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes ☐ No ☒

Mud disposal: Offsite ☐ Onsite ☒ Method: Land Farming ☐ Land Spreading ☐ Disposal Facility ☐ Other ☒ Re-Used

7. Surface Owner

Name: Federal Government (BLM) Phone: (970) 947-5210

Address: BLM Energy Office Fax: (970) 947-5267

Address: 2425 Grand Ave, Suite 101 email: _____

City: Glenwood Springs State: CO Zip: 81601 Date of Rule 306 surface owner consultation: _____

Surface Owner: ☐ Fee ☐ State ☒ Federal ☐ Indian

Mineral Owner: ☐ Fee ☐ State ☒ Federal ☐ Indian

The surface owner is: ☒ the mineral owner ☐ committed to an oil and gas lease ☐ is the executor of the oil and gas lease. ☐ the applicant

The right to construct the location is granted by: ☒ oil and gas lease ☐ Surface Use Agreement ☐ Right of Way ☐ applicant is owner

Surface damage assurance if no agreement is in place: ☐ \$2,000 ☐ \$5,000 ☐ Blanket Surety Id: NMB000396

8. Reclamation Financial Assurance

☒ Well Surety Id: 20030107 ☐ Gas Facility Surety Id: _____ ☐ Waste Management Surety Id: _____

9. Cultural

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒

Distance, in feet, to nearest building: 1747 , public road: 2170 , above ground utility: 441 , railroad: 12851 , property line: 473

Continue on Page Two

State of Colorado
Oil and Gas Conservation Commission

1170 Lincoln Street, Suite 601, Denver, Colorado 80203 Phone: (303)694-2100 Fax: (303)694-2109



Oil and Gas Location Assessment Page 2

10. Current Land Use (Check all that apply)

Crop Land:	<input type="checkbox"/> Irrigated	<input type="checkbox"/> Dry land	<input type="checkbox"/> Improved Pasture	<input type="checkbox"/> Hay Meadow	<input type="checkbox"/> CRP
Non-Crop Land:	<input checked="" type="checkbox"/> Rangeland	<input type="checkbox"/> Timber	<input type="checkbox"/> Recreational	<input checked="" type="checkbox"/> Other (describe):	Reclaimed Well Pad
Subdivided:	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential		

11. Future Land Use (Check all that apply)

Crop Land:	<input type="checkbox"/> Irrigated	<input type="checkbox"/> Dry land	<input type="checkbox"/> Improved Pasture	<input type="checkbox"/> Hay Meadow	<input type="checkbox"/> CRP
Non-Crop Land:	<input checked="" type="checkbox"/> Rangeland	<input type="checkbox"/> Timber	<input type="checkbox"/> Recreational	<input type="checkbox"/> Other (describe):	
Subdivided:	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input type="checkbox"/> Residential		

12. Soils

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to be used when segregating topsoil.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 67 Tormentilis - Rock Outcrop Complex, Steep

NRCS Map Unit Name:

NRCS Map Unit Name:

13. Plant Community

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes ☐ No ☒
 Plant species from: ☐ NRCS or, ☒ field observation Date of observation: 8/27/08
 List individual species: Cheat Grass, Rye, Sage, Service Berry

Check all plant communities that exist in the disturbed area.

- ☒ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
☐ Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
☒ Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
☐ Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
☐ Mountain Riparian (Cottonwood, Willow, Blue Spruce)
☐ Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
☐ Wetlands Aquatic (Bullrush, Sedge, Callail, Arrowhead)
☐ Alpine (above timberline)
☒ Other (describe): Reclaimed Well Pad

14. Water Resources

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: ☒ No ☐ Yes Was a Rule 901.e. Sensitive Areas Determination performed: ☒ No ☐ Yes
 Distance (in feet) to nearest surface water: 2135, water well: 2052, depth to ground water: 173
 Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed: ☒ No ☐ Yes If yes attach permit.
 Is the location within a Rule 317B Surface Water Supply Area buffer zone: ☒ No ☐ 0-300 ft. zone ☐ 301-500 ft. zone ☐ 501-2640 ft. zone
 If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: ☐ No ☐ Yes

15. Comments

Surface and Minerals are owned by the Federal Government.

There is currently one well on the existing well pad. We are permitting an additional four wells at this time. A total of seventeen wells are planned for the pad when it is drilled out. An additional twelve wells are planned for a later date.

The reference point for the pad is the SP 13-14 well location. All measurements for this Form 2A were taken from this point.

This well pad as well as the proposed bottom hole locations are located within the 3 mile radius for Project Rutson

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Howard Harris Date: 7/22/09 Email: howard.harris@williams.com
 Print Name: Howard Harris Title: Sr. Regulatory Specialist

COGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL will be attached.

Location Number: _____