

**FORM
2A**Rev
04/01State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400094539

Oil and Gas Location Assessment☒ New Location ☐ Amend Existing Location Location#: _____

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.

Location ID:

420224

Expiration Date:

11/03/2013☒ 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

Name: WILLIAMS PRODUCTION RMT COMPANY

Address: 1515 ARAPAHOE ST STE 1000

City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Howard Harris

Phone: (303) 606-4086

Fax: (303) 629-8268

email: howard.harris@williams.com

4. Location Identification:

Name: T & T Assoc. LTD Number: PA 21-7

County: GARFIELD

Quarter: LOT 2 Section: 7 Township: 7S Range: 95W Meridian: 6 Ground Elevation: 5083

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: 1203 feet, from North or South section line: FNL and 1502 feet, from East or West section line: FWL

Latitude: 39.456476 Longitude: -108.043846 PDOP Reading: 5.9 Date of Measurement: 03/30/2009

Instrument Operator's Name: J. Kirkpatrick

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

Special Purpose Pits: <input type="text"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text" value="15"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="15"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text" value="1"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text" value="2"/>	Fuel Tanks: <input type="text"/>	

Other: Cuttings Trench

6. Construction:

Date planned to commence construction: 04/01/2011 Size of disturbed area during construction in acres: 5.70
Estimated date that interim reclamation will begin: 04/01/2012 Size of location after interim reclamation in acres: 2.90
Estimated post-construction ground elevation: 5083 Will a closed loop system be used for drilling fluids: Yes ☒
Will salt sections be encountered during drilling: Yes ☐ No ☒ Is H2S anticipated? 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-Use, Evap. & Backfill

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 12/22/2009
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 executer 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: ☐ \$2000 ☐ \$5000 ☐ Blanket Surety ID _____

8. Reclamation Financial Assurance:

☒ Well Surety ID: 20030107 ☐ Gas Facility Surety ID: _____ ☐ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒
Distance, in feet, to nearest building: 720, public road: 852, above ground utilit: 924
, railroad: 335, property line: 196

10. Current Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____
Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

11. Future Land Use (Check all that apply):

Crop Land: ☐ Irrigated ☐ Dry land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP
Non-Crop Land: ☒ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____
Subdivided: ☐ Industrial ☒ Commercial ☐ 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: 3. Arvada Loam, 1 to 6 percent slopes

NRCS Map Unit Name: 72. Wann sandy loam, 1 to 3 percent slopes

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: 03/30/2009

List individual species: Sage, Chokecherry, buffalograss, cheatgrass

Check all plant communities that exist in the disturbed area.

- ☐ Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
☒ Native Grassland (Bluestern, 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, Cattail, Arrowhead)
☐ Alpine (above timberline)
☐ Other (describe): _____

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: 453, water well: 784, depth to ground water: 56

Is the location in a riparian area: ☒ No ☐ Yes Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes

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:

This location assessment is for the PA 21-7 well pad which will contain 15 new wells. The location reference point for this pad is the PA 422-7 well from which all distances were measured. Reference photos will be provided at a later date. A closed mud system will be used.

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

Signed: _____ Date: 10/04/2010 Email: howard.harris@williams.com

Print Name: Howard Harris Title: Sr. Regulatory Specialist

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

Daniel S. Neslin

COGCC Approved: _____

Director of COGCC

Date: 11/4/2010

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

Operator will conduct regular inspections of equipment for leaks and equipment problems with appropriate documentation retained in the operator's office. All equipment deficiencies shall be corrected. Monitoring should end approximately 30 days after well completion and/or after production has been stabilized; however, timely inspections should continue during the production phase.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

The area of the frac pad where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material (per Rule 604.a.(4)).

Location is in a sensitive area because of shallow groundwater; therefore either a lined drilling pit or a closed loop system (which Williams has already indicated on the Form 2A) must be implemented.

Flowback to tanks only. Flowback and stimulation fluids shall be contained within tanks that are placed on the frac pad in an area with additional downgradient perimeter berming. Operator must submit a secondary and tertiary containment plan via sundry notice Form 4 for the tanks to Dave Kubeczko. Operator must obtain approval of the plan prior to fracing flowback operations.

If fluids are conveyed via pipeline, operator must implement best management practices to contain any unintentional release of fluids.

Operator will use adequately sized containment devices for all chemicals and/or hazardous materials stored or used on location.

Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations; including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad and frac pad locations will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition.

The access road will be constructed as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.

Location is in a sensitive area because of its proximity to surface water; therefore, operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations.

Operator must implement best management practices to contain any unintentional release of fluids.

No portion of any pit that will be used to hold liquids shall be constructed on fill material, unless the pit and fill slope are designed and subject to review and approval by the director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

Attachment Check List

Att Doc Num	Name	Doc Description
2033484	CORRESPONDENCE	LF@2609175 2033484
2033485	LOCATION DRAWING	LF@2609238 2033485
2033486	REFERENCE AREA MAP	LF@2609231 2033486
2033487	CONST. LAYOUT DRAWINGS	LF@2609233 2033487
400094539	FORM 2A SUBMITTED	LF@2597960 400094539
400097249	317B NOTIFICATION	LF@2597961 400097249
400097250	ACCESS ROAD MAP	LF@2597962 400097250
400097251	PROPOSED BMPs	LF@2597964 400097251
400097252	CONST. LAYOUT DRAWINGS	LF@2597965 400097252
400097253	HYDROLOGY MAP	LF@2597966 400097253
400097255	LOCATION DRAWING	LF@2597967 400097255
400097256	MULTI-WELL PLAN	LF@2597968 400097256
400097257	NRCS MAP UNIT DESC	LF@2597969 400097257
400097258	REFERENCE AREA MAP	LF@2597970 400097258
400097259	SENSITIVE AREA DATA	LF@2597971 400097259
400097261	SURFACE AGRMT/SURETY	LF@2597972 400097261
400097680	LOCATION PICTURES	LF@2597973 400097680

Total Attach: 17 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Changed distance to nearest building to 720'	11/2/2010 1:04:03 PM
OGLA	Initiated/Completed OGLA Form 2A review on 10-11-10 by Dave Kubeczko; requested clarifications and acknowledgement of close SW fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill, and geberal 317B COAs from operator on 10-11-10; received clarifications and acknowledgement of COAs from operator on 10-26-10; passed by CDOW on 10-06-10 with operator submitted BMPs (with permit application) and WMP acceptable; passed OGLA Form 2A review on 10-26-10 by Dave Kubeczko; fluid containment, spill/release BMPs, lined pits/closed loop, cuttings low moisture content, no pit in fill, and geberal 317B COAs.	10/11/2010 1:21:47 PM
DOW	This well pad is located within the boundary of an approved, signed Williams-CDOW Wildlife Mitigation Plan. BMPs were developed and agreed to in consultation and development of the Wildlife Mitigation Plan. The BMPs as submitted by the operator are appropriate for the site and species affected. by Michael Warren on Wednesday, October 6, 2010 at 8:55 A.M.	10/6/2010 8:53:44 AM
Permit	Opr supplied correct information	10/5/2010 4:00:24 PM
Permit	Back to draft for the following: Qtr/Qtr should be a Lot. Also, the 2A indicates that the size of the location after interim reclamation is 29.00 acres and it is missing the location pictures	10/5/2010 11:06:51 AM

Total: 5 comment(s)

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