

FORM
2A

Rev
04/01

State 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:
400190282

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 324118

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 standalone 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:
324118
Expiration Date:
09/07/2014

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 LLC
Address: 1001 17TH STREET - SUITE #1200
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: Duggan Number: RWF 11-32
County: GARFIELD
Quarter: NWNW Section: 32 Township: 6S Range: 94W Meridian: 6 Ground Elevation: 5538

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: 1104 feet FNL, from North or South section line, and 1290 feet FWL, from East or West section line.
Latitude: 39.485663 Longitude: -107.915941 PDOP Reading: 1.8 Date of Measurement: 05/16/2011
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="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="text" value="17"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="text" value="3"/>	Water Tanks: <input type="text" value="3"/>	Separators: <input type="text" value="17"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: _____

6. Construction:

Date planned to commence construction: 11/01/2011 Size of disturbed area during construction in acres: 5.10
Estimated date that interim reclamation will begin: 07/01/2012 Size of location after interim reclamation in acres: 0.94
Estimated post-construction ground elevation: 5538 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, Backfill & Evap

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ 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 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: 1182, public road: 1428, above ground utilit: 1435
, railroad: 3937, property line: 211

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): ExistingWell Pad
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: 34. Ildefonso Stony Loam, 25 -45% slopes

NRCS Map Unit Name: 58. Potts - Ildefonso complex, 12 -25% 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: _____

List individual species: Pinion, Juniper, Sagebrush, Grasses

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, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): Existing 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: 176, water well: 1307, depth to ground water: 227

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 Suppl 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 an additional 16 wells to be drilled on the existing pad. Minerals and surface are Fee. The RWF 442-31 well is the location reference point from which point all measurements were made. 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: 08/05/2011 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.

COGCC Approved: David S. Nashin Director of COGCC Date: 9/8/2011

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.

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Attachment Check List

Att Doc Num	Name
400190282	FORM 2A SUBMITTED
400192238	ACCESS ROAD MAP
400192239	CONST. LAYOUT DRAWINGS
400192240	HYDROLOGY MAP
400192241	LOCATION DRAWING
400192242	NRCS MAP UNIT DESC
400192243	OTHER
400192244	REFERENCE AREA MAP
400192245	MULTI-WELL PLAN
400192246	SURFACE OWNER CONSENT

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Changed the related forms to match submitted form 2 number	8/31/2011 12:14:34 PM
DOW	This well pad is located within the boundary of a CPW-Williams Wildlife Mitigation Plan. The BMPs submitted for this location were developed and agreed upon in consultation of the Wildlife Mitigation Plan. The BMPs and COAs as submitted by the operator and those contained in the WMP agreement are appropriate for the site and species effected. Michael Warren on Monday, August 8, 2011 at 5:45 P.M.	3/8/2011 5:47:11 PM
OGLA	Initiated/Completed OGLA Form 2A review on 08-08-11 by Dave Kubeczko; passed by CDOW on 08-19-11 with operator agreed to BMPs and WMP stipulations and COAs acceptable; passed OGLA Form 2A review on 08-26-11 by Dave Kubeczko; no COAs, BMPs have been revised to include site-specific requirements.	3/8/2011 9:01:58 AM
Permit	Returned to draft. Location of mud disposal question unanswered. Missing "surface owner is" answers.	8/5/2011 10:24:58 AM

Total: 4 comment(s)

BMP

Type	Comment
Site Specific	<p>A Sensitive Area Determination has not yet been performed for this location, however, prior to the submittal of a form 15 for the flare pit (special purpose pit) shown on the plats, a Sensitive Area Determination will be performed. Regardless of the result of the Sensitive Area Determination, Williams will employ the following BMPs to support protection of surface and ground water:</p> <ul style="list-style-type: none"> • Williams will ensure 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 location will be stabilized, inspected at regular intervals (at least every 14 days), and maintained in good condition. • Williams will implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface or buried pipelines. • Reserve pit, or any other pit used to contain/hold fluids, if constructed, must be lined or a closed loop system (which operator has indicated on the Form 2A Permit) must be implemented during drilling.
Drilling/Completion Operations	<p>DRILLING/COMPLETIONS BMP's</p> <ul style="list-style-type: none"> • Use centralized hydraulic fracturing operations. • Install and maintain adequate measures to exclude all types of wildlife (e.g., big game, birds, and small rodents) from all fluid pits (e.g., fencing, netting, and other appropriate exclusion measures). • Conduct well completions with drilling operations to limit the number of rig moves and traffic. • Flowback and stimulation fluids will be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.
Planning	<p>PLANNING BMP's</p> <ul style="list-style-type: none"> • Share/consolidate corridors for pipeline ROWs to the maximum extent possible. • Maximize the utility of surface facilities by developing multiple wells from a single pad (directional drilling), and by co-locating multipurpose facilities (for example, well pads and compressors) to avoid unnecessary habitat fragmentation and disturbance of additional geographic areas. • Minimize newly planned activities and operations within 300 feet of the ordinary high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river. • Avoid new surface disturbance and placing new facilities in key wildlife habitats in consultation with CDOW. • Minimize the number, length, and footprint of oil and gas development roads • Use existing roads where possible • Combine and share roads to minimize habitat fragmentation • Place roads to avoid obstructions to migratory routes for wildlife, and to avoid displacement of wildlife from public to private lands. • Maximize the use of directional drilling to minimize habitat loss/fragmentation • Maximize use of remote completion/frac operations to minimize traffic • Maximize use of remote telemetry for well monitoring to minimize traffic • Restrict oil and gas activities as practical during critical seasonal periods

Final Reclamation	<p>PRODUCTION/RECLAMATION</p> <ul style="list-style-type: none">• Remove well pad and road surface materials that are incompatible with post-production land use and re-vegetation requirements• Use only certified weed-free native seed in seed mixes, except for non-native plants that benefit wildlife• Williams will use certified, weed free grass hay, straw, hay or other mulch materials used for the reseeding and reclamation of disturbed areas.• Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents and openings.• Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multi-function contractors.• Avoid dust suppression activities within 300 feet of the ordinary high water mark of any reservoir, lake, wetland, or natural perennial or seasonally flowing stream or river where possible.
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Total: 4 comment(s)