

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



Table with 4 columns: DE, ET, OE, ES

Document Number: 400083713

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 334621

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.

Location ID: 334621 Expiration Date: 05/05/2014

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: Greg Davis Phone: (303) 606-4071 Fax: (303) 629-8272 email: Greg.J.Davis@Williams.com

4. Location Identification:

Name: Bosely Number: SG 43-27 County: GARFIELD Quarter: LOT 3 Section: 27 Township: 7S Range: 96W Meridian: 6 Ground Elevation: 5018 Define a single point as a location reference for the facility location. Footage at surface: 2417 feet FSL, from North or South section line, and 386 feet FEL, from East or West section line. Latitude: 39.407953 Longitude: -108.088203 PDOP Reading: 1.5 Date of Measurement: 03/10/2010 Instrument Operator's Name: Robert Kay

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

Special Purpose Pits: 0 Drilling Pits: 0 Wells: 7 Production Pits: 0 Dehydrator Units: 0 Condensate Tanks: 2 Water Tanks: 2 Separators: 7 Electric Motors: 0 Multi-Well Pits: 0 Gas or Diesel Motors: 0 Cavity Pumps: 0 LACT Unit: 0 Pump Jacks: 0 Pigging Station: 0 Electric Generators: 0 Gas Pipeline: 1 Oil Pipeline: 0 Water Pipeline: 0 Flare: 0 Gas Compressors: 0 VOC Combustor: 0 Oil Tanks: 0 Fuel Tanks: 0 Other: Cuttings Trench

6. Construction:

Date planned to commence construction: 05/01/2011 Size of disturbed area during construction in acres: 2.90
Estimated date that interim reclamation will begin: 09/01/2011 Size of location after interim reclamation in acres: 1.30
Estimated post-construction ground elevation: 5018 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 and evaporation

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 07/20/2005
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 Mgmt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
Distance, in feet, to nearest building: 1483, public road: 1207, above ground utilit: 1640
, railroad: 1055, property line: 386

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 used when segregating topsoil.

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

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% slopes

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: 08/30/2010

List individual species: Wheatgrass, Sage

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: 484, water well: 1473, depth to ground water: 45

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:

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

Signed: _____ Date: 04/12/2011 Email: Greg.J.Davis@Williams.com

Print Name: Greg Davis Title: Supervisor Permits

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

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. Nesline

Director of COGCC

Date: 5/6/2011

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.

GENERAL SITE COAs:

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines.

Location is in a sensitive area because of shallow groundwater and close proximity to the Colorado River; therefore either a closed loop system (which operator has indicated on the Form 2A) must be implemented.

Operator must 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.

Flowback and stimulation fluids must be sent to tanks to allow the sand to settle out before the fluids can be placed into any pipeline or pit located on the well pad. The flowback and stimulation fluid tanks 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 (per Rule 604.a.(4)).

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.

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.

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.

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.

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

Berms or other containment devices shall be constructed in compliance with Rule 604.a.(4) around crude oil, condensate, and produced water storage tanks.

Attachment Check List

Att Doc Num	Name
2033711	CORRESPONDENCE
400083713	FORM 2A SUBMITTED
400083731	SURFACE AGRMT/SURETY
400083743	LOCATION PICTURES
400083744	MULTI-WELL PLAN
400083745	NRCS MAP UNIT DESC
400152981	CONST. LAYOUT DRAWINGS
400152982	HYDROLOGY MAP
400152983	LOCATION DRAWING
400152984	REFERENCE AREA PICTURES
400152985	PROPOSED BMPs
400152987	REFERENCE AREA MAP
400152988	SENSITIVE AREA DATA
400152989	ACCESS ROAD MAP
400152991	OTHER

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Changed right to construct location to oil and gas lease	4/18/2011 3:04:02 PM
DOW	This well pad is located within the boundary of a signed, approved Williams-CDOW Wildlife Mitigation Plan. The BMPs as submitted by the operator are applicable to the site and species impacted. by Michael Warren on Monday, April 18, 2011 at 10:30 A.M.	4/18/2011 10:27:36 AM
OGLA	Initiated/Completed OGLA Form 2A review on 04-14-11 by Dave Kubeczko; requested clarifications and acknowledgement of fluid containment, spill/release BMPs, flowback to tanks, tank berming, lined pit/closed loop, and cuttings low moisture content COAs from operator on 04-14-11; received clarifications and acknowledgement of COAs from operator on 04-14-11; passed by CDOW on 04-18-11 with operator submitted BMPs (with permit application) and WMP acceptable; passed OGLA Form 2A review on 05-06-11 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks, tank berming, lined pit/closed loop, and cuttings low moisture content COAs.	4/14/2011 6:06:15 PM
Permit	Back to draft for BMP's to be added into tab. sf	4/13/2011 11:30:41 AM

Total: 4 comment(s)

BMP

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<u>Type</u>	<u>Comment</u>
Interim Reclamation	<p>Production/Reclamation</p> <ul style="list-style-type: none">• Restore both form and function of impacted wetlands and riparian areas and mitigate erosion.• 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.• Install and use locked gates or other means to prevent unauthorized vehicular travel on roads and facility rights-of-way.
Drilling/Completion Operations	<p>Drilling/Completions</p> <ul style="list-style-type: none">• 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.
Construction	<p>Construction</p> <ul style="list-style-type: none">• Close and reclaim roads not necessary for development, including removing all bridges and culverts and recontouring/reclaiming all stream crossings.• Structures for perennial or intermittent stream channel crossings should be constructed using appropriately sized bridges or culverts.• Construct retention basins and ponds that benefit wildlife

Planning	Planning <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.• Locate roads outside of drainages where possible and outside of riparian habitat.• Avoid constructing any road segment in the channel of an intermittent or perennial stream.• Minimize the number, length, and footprint of oil and gas development roads;• Use existing roads where possible• Combine utility infrastructure (gas, electric, and water) planning with roadway planning to avoid separate utility corridors• Combine and share roads to minimize habitat fragmentation• Where possible, consolidate pipeline and existing roadways, or roadways that are planned for development• Place roads to avoid obstructions to migratory routes for wildlife, and to avoid displacement of wildlife from public to private lands.• Design roads with visual and auditory buffers or screens (e.g., topographic barriers, vegetation, and distance).• Maximize the use of directional drilling to minimize habitat loss/fragmentation• Maximize use of remote telemetry for well monitoring to minimize traffic• Restrict oil and gas activities as practical during critical seasonal periods• Implement self imposed timing limitations to protect species and/or habitat
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Total: 4 comment(s)