

FORM
2A

Rev
04/01

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400340728

Date Received:

10/30/2012

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 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:

431050

Expiration Date:

12/05/2015

☒ 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: 100185
Name: ENCANA OIL & GAS (USA) INC
Address: 370 17TH ST STE 1700
City: DENVER State: CO Zip: 80202-5632

3. Contact Information

Name: Bonnie Lamond
Phone: (720) 876-5156
Fax: (720) 876-6177
email: bonnie.lamond@encana.com

4. Location Identification:

Name: Shideler Number: 19-16C (O19EB)
County: GARFIELD
QuarterQuarter: SWSE Section: 19 Township: 7S Range: 92W Meridian: 6 Ground Elevation: 6509
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: 569 feet FSL, from North or South section line, and 1658 feet FEL, from East or West section line.
Latitude: 39.426129 Longitude: -107.705223 PDOP Reading: 0.0 Date of Measurement: 06/08/2012
Instrument Operator's Name: Ted T. Taggart

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

Special Purpose Pits: 0	Drilling Pits: 0	Wells: 24	Production Pits: 0	Dehydrator Units: 0
Condensate Tanks: 4	Water Tanks: 3	Separators: 27	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: 1	Flare: 1
Gas Compressors: 0	VOC Combustor: 0	Oil Tanks: 0	Fuel Tanks: 0	

Other: 1 meter house

6. Construction:

Date planned to commence construction: 12/15/2012 Size of disturbed area during construction in acres: 6.84
Estimated date that interim reclamation will begin: 07/01/2014 Size of location after interim reclamation in acres: 2.70
Estimated post-construction ground elevation: 6509 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: _____

7. Surface Owner:

Name: _____ Phone: _____
Address: _____ Fax: _____
Address: _____ Email: _____
City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 06/07/2012
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: 20100017 ☐ 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: 1400, public road: 1470, above ground utilit: 1730
, railroad: 41500, property line: 671

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: Ascalon fine sandy loam, 6 to 12 percent 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: 10/29/2012
List individual species: _____

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): _____

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: 352, water well: 2630, depth to ground water: 40
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:

The O19E production tank will be moved onto the O19EB pad. The depth to ground water is 40 feet based on nearest permitted water well 2630 feet east of the pad. This pad will be reclaimed to the adjacent vegetation to the East.

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

Signed: _____ Date: 10/30/2012 Email: bonnie.lamond@encana.com

Print Name: Bonnie Lamond Title: Permitting Technician

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: Matthew Lee Director of COGCC Date: 12/6/2012

**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.

SITE SPECIFIC COAs:

Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).

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

The access road will be constructed to prevent sediment migration from the access road to nearby surface water or any drainages leading to other nearby surface waters or wetlands areas.

Operator must ensure secondary containment for any volume of fluids contained at well site during drilling and completion operations (as shown on the Construction Layout Drawings attachment); 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.

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, if the drill cuttings are to be left onsite, they must also meet the applicable standards of table 910-1.

Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) located on the well pad; or into tanker trucks for offsite disposal. 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.

Berms or other containment devices shall be constructed to be sufficiently impervious (preferably corrugated steel with poly liner) to contain any spilled or released material around crude oil, condensate, and produced water storage tanks.

Attachment Check List

Att Doc Num	Name
1293083	CORRESPONDENCE
1533832	LOCATION DRAWING
1533833	MULTI-WELL PLAN
1533834	CONST. LAYOUT DRAWINGS
400340728	FORM 2A SUBMITTED
400340736	ACCESS ROAD MAP
400340739	LOCATION PICTURES
400340741	NRCS MAP UNIT DESC
400340742	HYDROLOGY MAP

Total Attach: 9 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	No LGD or public comments. Final Review--passed.	11/30/2012 12:47:46 PM
Permit	Surface owner is partial mineral owner in half of the proposed wells on the pad. Added related APD's.	11/28/2012 12:37:39 PM
OGLA	Initiated/Completed OGLA Form 2A review on 11-28-12 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, flowback to tanks, tank berming, sediment control access road, and cuttings low moisture content COAs from operator on 11-28-12; received concurrence from operator on 11-29-12; changed distance to SW to 352, intermittent stream to SE shown on Location Drawing; passed by CPW on 11-09-12 with operator submitted BMPs (with permit application) acceptable; passed OGLA Form 2A review on 11-29-12 by Dave Kubeczko; fluid containment, spill/release BMPs, tank berming, flowback to tanks, sediment control access road, and cuttings low moisture content COAs.	11/28/2012 11:11:31 AM
Permit	Oper. advised pad size is being reduced; submitted new attachments; trying to meet Dec. 1 deadline for pad construction. All currently in process related APD's will be withdrawn and new form 2's submitted with new SHL's. Per oper. revised SHL of reference well for pad, distance to prop. line, size of disturbed and reclaimed areas.	11/12/2012 10:30:10 AM
DOW	The BMPs submitted with the Form 2A application adequately address wildlife concerns. Jim Komatinsky 11-9-2012	11/9/2012 11:21:05 AM
LGD	Passed DB	11/6/2012 11:58:51 AM
Permit	This form passed completeness.	11/2/2012 12:14:41 PM

Total: 7 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Wildlife	<p>Minimize the number, length and footprint of oil & gas development roads Use existing routes where possible Combine utility infrastructure planning (gas, electric & water) when possible with roadway planning to avoid separate utility corridors Coordinate Employee transport when possible</p> <p>Reduce visits to well-sites through remote monitoring (i.e. SCADA) and the use of multi-function contractors. Maximize use of state-of-the-art drilling technology (e.g., high efficiency rigs, coiled-tubing unit rigs, closed-loop or pitless drilling, etc.) to minimize disturbance.</p> <p>Reclaim mule deer and elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed.</p>
Interim Reclamation	<p>Maintenance Revegetation Monitoring BMP maintenance & monitoring Weed Management</p>
Construction	<p>(Not all are used all the time) Terminal Containment, Diversions, Run-On Protection, Tracking, Benching, Terracing, ECM (Erosion Control Mulch), ECB (Erosion Control Blanket), Check Dams, Seeding, Mulching, Water Bars, Stabilized Unpaved Surfaces (Gravel), Stormwater & Snow Storage Containment, Scheduling, Phased Construction, Temporary Flumes, Culverts with inlet & outlet protection, Rip Rap, TRM (Turf Reinforcement Mats), Maintenance, Scheduling, Phased Construction, Fueling BMP's, Waste Management BMP's, Materials Handling BMP's</p>
Pre-Construction	<p>Wattles, Silt Fence, Vegetation Buffers, Slash, Topsoil Windrows (diversions & ROP's), Scheduling, Phased Construction</p>

Total: 4 comment(s)