

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

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Document Number:

400283712

Date Received:

05/11/2012

Oil and Gas Location Assessment☐ New Location☒ Amend Existing Location Location#: 324267

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:

324267

Expiration Date:

07/08/2015☒ 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: 100185Name: ENCANA OIL & GAS (USA) INCAddress: 370 17TH ST STE 1700City: DENVER State: CO Zip: 80202-5632**3. Contact Information**Name: Miracle PfisterPhone: (720) 876-3761Fax: (720) 876-4861email: miracle.pfister@encana.com**4. Location Identification:**Name: SHIDELERNumber: 31-6DD (K31E)County: GARFIELDQuarterQuarter: NESW Section: 31 Township: 7S Range: 92W Meridian: 6 Ground Elevation: 6899

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: 2206 feet FSL, from North or South section line, and 1433 feet FWL, from East or West section line.Latitude: 39.401817 Longitude: -107.708941 PDOP Reading: 2.5 Date of Measurement: 11/13/2010Instrument Operator's Name: C.D. SLAUGH**5. Facilities (Indicate the number of each type of oil and gas facility planned on location):**

Special Purpose Pits: <input type="text" value="0"/>	Drilling Pits: <input type="text" value="0"/>	Wells: <input type="text" value="11"/>	Production Pits: <input type="text" value="0"/>	Dehydrator Units: <input type="text" value="0"/>
Condensate Tanks: <input type="text" value=""/>	Water Tanks: <input type="text" value="0"/>	Separators: <input type="text" value="11"/>	Electric Motors: <input type="text" value="0"/>	Multi-Well Pits: <input type="text" value="0"/>
Gas or Diesel Motors: <input type="text" value="0"/>	Cavity Pumps: <input type="text" value="0"/>	LACT Unit: <input type="text" value="0"/>	Pump Jacks: <input type="text" value="0"/>	Pigging Station: <input type="text" value="0"/>
Electric Generators: <input type="text" value="0"/>	Gas Pipeline: <input type="text" value="1"/>	Oil Pipeline: <input type="text" value="0"/>	Water Pipeline: <input type="text" value="1"/>	Flare: <input type="text" value="1"/>
Gas Compressors: <input type="text" value="0"/>	VOC Combustor: <input type="text" value="0"/>	Oil Tanks: <input type="text" value="6"/>	Fuel Tanks: <input type="text" value="0"/>	

Other: _____

6. Construction:

Date planned to commence construction: 07/15/2012 Size of disturbed area during construction in acres: 6.18
 Estimated date that interim reclamation will begin: 09/01/2013 Size of location after interim reclamation in acres: 1.30
 Estimated post-construction ground elevation: 6899 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: 01/13/2004
 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: 5305, public road: 715, above ground utilit: 5305
 , railroad: 49737, property line: 2753

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: #6 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: _____
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: 450, water well: 5360, depth to ground water: 44
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 reference area is adjacent to the pad in the West direction. Because of this a reference area map is not required. Reference area pictures will be taken this spring/summer during growing season and submitted to the COGCC separately. The depth to ground water is based on a water well 5360' to the north.

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

Signed: _____ Date: 05/11/2012 Email: miracle.pfister@encana.com

Print Name: Miracle Pfister Title: Regulatory Analyst

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:  Director of COGCC Date: 7/9/2012

**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:

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.

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

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, if are to remain onsite, 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 or pit 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.

Attachment Check List

Att Doc Num	Name
1533250	OTHER
2034420	CORRESPONDENCE
400283712	FORM 2A SUBMITTED
400283796	ACCESS ROAD MAP
400283800	CONST. LAYOUT DRAWINGS
400283802	LOCATION PICTURES
400283808	HYDROLOGY MAP
400283809	MULTI-WELL PLAN
400283810	NRCS MAP UNIT DESC
400283821	LOCATION DRAWING
400284174	SURFACE AGRMT/SURETY

Total Attach: 11 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Per oper. added 6 oil tanks to facilities tab.	7/2/2012 12:43:55 PM
Final Review	ON HOLD - 11 separators but no tanks & no mention of offsite flow.	6/29/2012 4:08:29 PM
Final Review	Changed to Sensitive area due to proximity to surface water and slope/elevation change to surface water.	6/29/2012 3:34:06 PM
Permit	No LGD or public comments. Final Review--passed.	6/29/2012 8:25:40 AM
OGLA	Initiated/Completed OGLA Form 2A review on 06-11-12 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, moisture content cuttings, and flowback to tanks COAs from operator on 06-11-12; received acknowledgement of COAs from operator on 06-18-12; passed by CPW on 05-15-12 with elk recommendations; passed OGLA Form 2A review on 06-28-12 by Dave Kubeczko; fluid containment, spill/release BMPs, moisture content cuttings, and flowback to tanks COAs.	6/28/2012 12:00:35 PM
Permit	Per oper. changed dist. to nearest rd. to 715' & dist. to prop. line to 2753'. Oper. submitted prop. line map.	6/28/2012 9:58:05 AM
Permit	don't agree w/ dist. to prop. line or nearest rd.	6/11/2012 9:50:08 AM
LGD	Passed DB	5/29/2012 10:03:30 AM
DOW	<p>This is an amended site located 8.8 miles SSE of Rifle in an Elk Winter Concentration sensitive wildlife area. There will be minimal new disturbance, but there will be considerable construction activity while drilling and completing 10 new wells.</p> <p>If feasible, CPW would like to see Encana attempt to minimize construction during the winter concentration period from 1 Dec through 15 April, and restrict site visitation to hours between 10am and 3pm during this time period. This will greatly minimize impacts on the wintering elk in this area. We also want to ensure that the contractors adhere to the HB1298 requirements #1203 and #1204, pertaining to operating requirements in sensitive wildlife areas, and regarding operating requirements in Bear Habitat.</p> <p>Comments provided by Bill Buchholz on 15 May, 2012.</p>	5/15/2012 4:16:31 PM
Permit	Operator attached SUA. This form has passed completeness.	5/14/2012 10:35:17 AM
Permit	Returned to draft. Missing SUA.	5/14/2012 6:40:54 AM

Total: 11 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Interim Reclamation	POST CONSTRUCTION/RECLAMATION Maintenance Revegetation Monitoring BMP maintenance & monitoring Weed Management
Pre-Construction	PRECONSTRUCTION Wattles, Silt Fence, Vegetation Buffers, Slash, Topsoil Windrows (diversions & ROP's), Scheduling, Phased Construction
Wildlife	Wildlife BMPs 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 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. Reclaim mule deer and elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed.
Construction	CONSTRUCTION/RECLAMATION (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

Total: 4 comment(s)