

**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



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Document Number:

400231266

**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:

**427211**

Expiration Date:

**01/05/2015**☐ 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: Jevin Croteau

Phone: (720) 876-5339

Fax: (720) 876-6339

email: jevin.croteau@encana.com

**4. Location Identification:**

Name: Remote Temp Frac Pad Number: RD-11

County: GARFIELD

QuarterQuarter: SESE Section: 27 Township: 6S Range: 94W Meridian: 6 Ground Elevation: 5320

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: 1017 feet FSL, from North or South section line, and 118 feet FEL, from East or West section line.

Latitude: 39.491740 Longitude: -107.865240 PDOP Reading: 2.1 Date of Measurement: 10/11/2011

Instrument Operator's Name: Buck Hinkson

**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"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text"/>	Separators: <input type="text"/>	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"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: This is a remote Temporary Frac pad that will not have any permanent facilities on the location after the completion operations are complete.

**6. Construction:**

Date planned to commence construction: 12/16/2011 Size of disturbed area during construction in acres: 0.82  
Estimated date that interim reclamation will begin: 03/16/2012 Size of location after interim reclamation in acres: 0.00  
Estimated post-construction ground elevation: 5320 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: Roy Savage Phone: \_\_\_\_\_  
Address: 7062 County Road 309 Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Rifle State: CO Zip: 81650 Date of Rule 306 surface owner consultation: 11/03/2011  
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 Mgmt. Surety ID: \_\_\_\_\_

## 9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes ☐ No ☒  
Distance, in feet, to nearest building: 410, public road: 117, above ground utilit: 135  
, railroad: 4100, property line: 125

## 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.

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: 46 Nihill channery loam, 1 to 6 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: Western wheatgrass, Big sagebrush, Bluebunch wheatgrass, Indian ricegrass, Needleandthread & Yellow rabbitbrush.

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: 1270, water well: 410, depth to ground water: 80

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:

According to the CO DWR website the nearest water well, Permit No. 61432F is 410' away and has a static water level of 80'. The reference area for this location will be adjacent to the east side of the pad.

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

Signed: \_\_\_\_\_ Date: 12/12/2011 Email: jevin.croteau@encana.com

Print Name: Jevin Croteau 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: David S. Nashin Director of COGCC Date: 1/6/2012

**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:**

Location is in a sensitive area because of proximity to surface water (< 1/4-mile from Colorado River); therefore, 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 pipelines or buried permanent pipelines. Additional containment shall be required where temporary pumps and other necessary equipment or chemicals are located.

Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface pipelines or configuration of the permanent pipeline network.

Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment on each individual well pad before the fluids can be placed into any pipeline or pit located on the well pad or into tanker trucks for transfer to the frac pad or for offsite disposal. The flowback and stimulation fluid tanks must be placed on the frac pad in an area with additional downgradient perimeter berming and must be constructed to be sufficiently impervious to contain any spilled or released material. The site will be manned 24/7 during completion operations and period visual checks will be conducted to provide overflow monitoring of the tanks during flowback.

**Attachment Check List**

Att Doc Num	Name
2034111	CORRESPONDENCE
2537738	SURFACE AGRMT/SURETY
400231266	FORM 2A SUBMITTED
400231339	LOCATION DRAWING
400231342	ACCESS ROAD MAP
400231346	CONST. LAYOUT DRAWINGS
400231347	CONST. LAYOUT DRAWINGS
400231348	NRCS MAP UNIT DESC
400231356	HYDROLOGY MAP
400231799	LOCATION PICTURES
400231980	SURFACE AGRMT/SURETY

Total Attach: 11 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	CPW did not recommend any BMP's for this loc. LGD/public comments waived.Added plugging bond and attached corrected SUA per oper.'s email (orig. SUA did not include SHL). Bonding does not recommend any additional surface bond needed. Final Comprehensive Review Status--passed	1/5/2012 7:14:38 AM
OGLA	Initiated/Completed OGLA Form 2A review on 12-20-11 by Dave Kubeczko; requested acknowledgement of fluid containment and spill/release BMP COAs from operator on 12-20-11; received acknowledgement of COAs from operator on 12-20-11; passed by CDOW on 12-14-11 with no recommended BMPs; passed OGLA Form 2A review on 01-04-12 by Dave Kubeczko; fluid containment and spill/release BMP COAs.	12/20/2011 4:24:57 PM
DOW	The frac pad is located adjacent to existing facilities on Garfield County Road 320 and Porcupine Creek Road. The area already experiences traffic and oil and gas related activity. CPW is not recommending any BMPs for this location.  Wednesday, December 14, 2011 at 9:00 a.m.	12/14/2011 8:59:18 AM
Permit	This form has passed completeness.	12/14/2011 6:29:49 AM
Permit	Returned to draft. SUA does not cover SHL.	12/13/2011 1:53:30 PM
Permit	Returned to draft. SUA is very hard to read and does not appear to cover the proposed pad location. Missing plugging bond and mineral owner. Missing access road attachment and location pictures attachment.	12/13/2011 6:58:13 AM

Total: 6 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>

Total: 0 comment(s)