

FORM 2A

Rev 04/01

State of Colorado Oil and Gas Conservation Commission

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Table with columns DE, ET, OE, ES

Document Number: 400208031

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 415778

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: 415778 Expiration Date: 11/16/2014

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: 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: Hittle Cattle Co. Number: 1-4H (PL1NW)
County: MESA
Quarter: LOT 4 Section: 1 Township: 10S Range: 96W Meridian: 6 Ground Elevation: 6009

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.

Footage at surface: 341 feet FNL, from North or South section line, and 796 feet FWL, from East or West section line.
Latitude: 39.223600 Longitude: -108.059455 PDOP Reading: 0.0 Date of Measurement: 02/09/2009
Instrument Operator's Name: Ted 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: 4 Production Pits: 0 Dehydrator Units: 1
Condensate Tanks: 4 Water Tanks: 0 Separators: 4 Electric Motors: 0 Multi-Well Pits: 0
Gas or Diesel Motors: 0 Cavity Pumps: 0 LACT Unit: 0 Pump Jacks: 0 Pigging Station: 1
Electric Generators: 0 Gas Pipeline: 1 Oil Pipeline: 0 Water Pipeline: 1 Flare: 0
Gas Compressors: 1 VOC Combustor: 0 Oil Tanks: 0 Fuel Tanks: 0

Other: Currantly one well on location (1-4H) and plan to add three more wells, 12-14H, 12-12H & 12-12H2.

6. Construction:

Date planned to commence construction: 12/01/2011 Size of disturbed area during construction in acres: 5.30  
Estimated date that interim reclamation will begin: 05/01/2012 Size of location after interim reclamation in acres: 1.30  
Estimated post-construction ground elevation: 6009 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: 06/02/2009  
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: 5500, public road: 675, above ground utilit: 8000  
, railroad: 29000, property line: 341

### 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: 32 - Dominguez clay loam, 3 to 8 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: Saline wildrye, Western wheatgrass, Wy big sagebrush, Sandberg bluegrass, Indian ricegrass & Shadscale saltbush.

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: 540, water well: 3050, depth to ground water: 269

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 #274662, is located 3050' away. The reference area for this locatin will be adjacent to the north side of the pad. All distances and the single point as a location reference for this location are measured from the existing 1-4H wellhead. This existing pad is being expanded approximatly 1.27 acres to accomadate the three new wells and the Rig chosed to drill all the wells.

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

Signed: \_\_\_\_\_ Date: 09/23/2011 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: 11/17/2011

**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
2034067	CORRESPONDENCE
400208031	FORM 2A SUBMITTED
400208040	MULTI-WELL PLAN
400208041	HYDROLOGY MAP
400208042	LOCATION PICTURES
400208043	LOCATION DRAWING
400208045	ACCESS ROAD MAP
400208046	NRCS MAP UNIT DESC
400208047	CONST. LAYOUT DRAWINGS
400208048	SURFACE AGRMT/SURETY

Total Attach: 10 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	LGD/pub. comm. waived. CPW comments addressed by BLM stips. APD doc #400001055 approved 11/20/2009. Final comprehensive review status--passed.	11/7/2011 10:45:27 AM
DOW	CPW affirms that the lease stipulations and conditions of approval assigned to this permit (approved APD) by the BLM suffice to address habitat and mitigation concerns.  Tuesday, November 2, 2011 at 4:50 p.m.	11/1/2011 4:47:48 PM
Permit	pad is in Plateau Crk. Deep Unit COC 74774X, so locations are legal. ready to approve in permitting.	10/18/2011 11:35:49 AM
Permit	emailed oper. that submitted Mancos APD's do not meet statewide spacing rules.	10/11/2011 11:38:59 AM
OGLA	Initiated/Completed OGLA Form 2A review on 10-10-11 by Dave Kubeczko (previously reviewed and approved [02-20-10] Form 2A#400001233); same COAs from original permit will apply; fluid containment, spill/release BMPs; passed by CDPW on 11-02-11 with BLM stipulations and COAs acceptable; pad was moved by BLM; revised Location Drawing and Construction Layout Drawings have been submitted and attached to this Form 2A#400208031; Form 2A#400220433 was withdrawn on 11-17-11 per operator request of 11-07-11 (see CORRESPONDENCE attachment); passed OGLA Form 2A review on 11-07-11; taken OFF HOLD on 11-17-11 by Dave Kubeczko; fluid containment, spill/release BMPs COAs.	10/10/2011 8:21:58 AM

Total: 5 comment(s)

### BMP

<u>Type</u>	<u>Comment</u>
Wildlife	All wildlife stipulations and best management practices that apply, are applicable and that have been agreed to with the BLM in our approved APD will be followed.

Total: 1 comment(s)