

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:  
400212474

## 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:

Expiration Date:

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: 10232  
 Name: LARAMIE ENERGY II, LLC  
 Address: 1512 LARIMER ST STE 1000  
 City: DENVER      State: CO      Zip: 80202

### 3. Contact Information

Name: Wayne P Bankert  
 Phone: (970) 683-5419  
 Fax: (303) 339-4399  
 email: wbankert@laramie-energy.com

### 4. Location Identification:

Name: Jensen      Number: 19-01 Pad  
 County: MESA  
 Quarter: NENE Section: 19 Township: 9S Range: 93W Meridian: 6 Ground Elevation: 7078

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: 695 feet FNL, from North or South section line, and 440 feet FEL, from East or West section line.

Latitude: 39.267730      Longitude: -107.803840      PDOP Reading: 2.5      Date of Measurement: 08/10/2011

Instrument Operator's Name: Dave Murrey

### 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" value="20"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="10"/>	Water Tanks: <input type="text"/>	Separators: <input type="text" value="5"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text" value="0"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="0"/>	Pigging Station: <input type="text"/>
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"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: 5 4-pack Separators. Water/Condensate in Common Tanks

## 6. Construction:

Date planned to commence construction: 03/01/2012 Size of disturbed area during construction in acres: 5.50  
Estimated date that interim reclamation will begin: 03/01/2015 Size of location after interim reclamation in acres: 2.00  
Estimated post-construction ground elevation: 7078 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: Ronald W. Jensen Phone: 970-487-3229  
Address: 67002 Highway 330 Fax: \_\_\_\_\_  
Address: \_\_\_\_\_ Email: \_\_\_\_\_  
City: Collbran State: CO Zip: 81624 Date of Rule 306 surface owner consultation: 06/03/2010  
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: 20070074  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: 610, public road: 380, above ground utilit: 540  
, railroad: 76881, property line: 380

## 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: 37: Fughes Clay Loam 2-6% 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: 08/10/2011

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: 60, water well: 2700, depth to ground water: 10

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:

Nearest Permitted Water Source is Spring: Groundwater depth estimated. Irrigaton Ditch Identifeid as nearest surface water. Ditch to be re-routed around pad.

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_ Email: wbankert@laramie-energy.com

Print Name: Wayne P. Bankert Title: Snr. Reg & Env Coord.

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: \_\_\_\_\_

**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
400213263	ACCESS ROAD MAP
400213264	CONST. LAYOUT DRAWINGS
400213266	HYDROLOGY MAP
400213267	LOCATION DRAWING
400213268	MULTI-WELL PLAN
400213269	REFERENCE AREA MAP
400213270	REFERENCE AREA PICTURES
400213271	LOCATION PICTURES
400213273	SURFACE AGRMT/SURETY
400213275	NRCS MAP UNIT DESC
400213277	NRCS MAP UNIT DESC

Total Attach: 11 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)

**BMP**

<u>Type</u>	<u>Comment</u>
Wildlife	<p>LARAMIE ENERGY II, LLC</p> <p>Best Management Practices (BMP's) To Reduce Impacts to Wildlife For Operations in NENE Section 19, Twn. 9S Rng. 93W 6th PM Jensen 19-01 Pad Mesa County, CO</p> <p>** NO SWH or RSO on the Jensen 19-01 Pad</p> <p>In an effort to minimize the impacts to wildlife, the following BMP's are part of Laramie Energy II's (LEII) standard operating procedures for drilling and operations within the Piceance Basin. This list is a partial of LEII's policy.</p> <p>Initial Stages for Infrastructure and Roads</p> <p>1. Road design and General</p> <ul style="list-style-type: none"> <li>- No firearms, no dogs on location, and no feeding of wildlife.</li> <li>- Minimize the amount of traffic on lease roads within 3 hours of sunrise and sunset.</li> <li>- Use existing routes as much as possible to avoid new disturbance and habitat fragmentation and minimize new road construction.</li> <li>- Maximize the topography as much as possible in designing roads to reduce, visual, noise, impacts, etc.</li> </ul>

- Participate in road sharing agreements with other Operators when possible.
- Design and surface roads based on the traffic, speed, and type of vehicles to reduce, dust, mud, and environmental damage.
- Locate roads away from riparian areas and bottoms of drainages as much as possible or re-route entirely.
- Obtain Army Corp of Engineer Permits for any stream crossings prior to construction.
- Analyze crossings and flow characteristics to determine the best method of crossing, (i.e. culvert, bridge, or low water).
- Armor all stream crossings to reduce erosion and to comply with Stormwater Requirements.
- Implementation of fugitive dust control measures including but not limited to water or magnesium chloride applications, and road surfacing.
- Limit traffic to the minimum needed for safe and efficient operations.
- No driving or parking off of disturbed areas.
- Install and use locked gates or other means when allowed by landowner or Federal Agencies to prevent unauthorized travel on roads and rights-of ways.

## 2. Well pad design and location

- Locate well pads to maximize directional drilling practices. LEII currently plans and attempts to locate pads for 16-20 wells which equates to roughly 4 well pads per section.
- Design each location to accommodate both current and future gas production.
- Locate well pads to minimize disturbance yet maximize use to reduce surface impacts.
- Review State and Federal GIS mapping to avoid Sensitive Wildlife Habitat (SWH), Restricted Surface Occupancy (RSO) areas, steep slopes, etc., as much as possible with roads and pad location.
- Design and install gathering lines within the disturbed area of new roads and adjacent to as much as possible to reduce disturbance construction.
- Design Rights-of Way widths to the minimum needed for safe and efficient construction of pipelines
- Remote Telemetry for production operations

## 3. Drilling and Production Operations

- Implement remote telemetry in all operations
- Where topographically possible and subject to landowner approval, use centralized water gathering and transportation systems.
- Install exclusionary devices to prevent bird and other wildlife access to equipment stacks, vents, and openings.
- Locate facilities to minimize visual effects (e.g. paint color, screening, etc.)
- LEII implements a closed system in its operations. No fluid pits are constructed or used during drilling or completion operations.
- LEII implements an aggressive weed management program. LEII incorporates and uses the BLM Glenwood Springs Energy Office's "Noxious and Invasive Weed Management Plan for Oil and Gas Operators- March 2007" for all operations. Each spring, Laramie inventories all pads, roads, and pipelines to insure no noxious weeds have been introduced. If noxious weeds are found, the county will be notified and the weeds will be treated. Weeds are continuously monitored and treated throughout the growing season. Only herbicides approved by the EPA and State are used by certified weed applicators.

## 4. Reclamation

- Strip and segregate topsoil from other soil horizons during pad, road, and pipeline construction.
- Minimize topsoil degradation by windrowing no higher than 5 feet when possible.
- Immediately seed topsoil to reduce erosion and prevent weed establishment and maintain soil microbial activity.
- Use only certified weed free native seed mixes, unless recommended otherwise by Federal Agencies or the Landowner.
- Use locally adapted seed when available.
- Use diverse seed mixes to mirror the surrounding area unless recommended otherwise by Federal Agencies or the Landowner.

- Monitor re-vegetation success until a minimum of 75% of preferred perennial plant cover (no weeds) is established.
- Perform "interim" reclamation on all disturbed areas not needed for active producing operations.
- If possible, conduct interim and final reclamation during optimum periods (e.g. late fall/early winter or early spring).
- If needed, fence reclaimed areas to minimize livestock/wildlife impact until plant species have are capable of sustaining grazing.

LARAMIE ENERGY II, LLC  
 BMPS FOR  
 Sensitive Wildlife Habitat and Restricted Surface Occupancy  
 Areas Specific to Laramie Energy II, LLC  
 Operations Within the Piceance Basin  
 Garfield County, CO

Sensitive Wildlife Habitat (SWH)

Black Bear

- Initiate a food and waste/refuse management program that uses bear-proof food storage containers and trash receptacles.
- Initiate an education program that reduces bear conflicts.
- Establish policy to prohibit keeping food and trash in sleeping quarters.
- Establish policy to support enforcement of state prohibition on feeding of black bear.
- Report bear conflicts immediately to CDOW .

Deer and Elk (Mule Deer Critical Winter Range and Elk Winter Concentration SWH )

- Review State GIS and Federal GIS mapping databases at the initial stage of development to identify the locations of mule deer and elk important wintering habitats and production areas. Attempt to avoid any critical habitat patches with roads and development.
- Attempt to avoid oil and gas activities within mule deer critical winter range, elk winter concentration areas, elk production areas, and migration corridors.
- Attempt to conduct post-development well site visitation between the hours of 10:00 am and 3:00 pm. Reduce visitations from December 1st to April 30th to reduce impact to wintering wildlife.
- Phase and concentrate all development activities, so that large areas of undisturbed habitat for wildlife remain and thorough reclamation occurs immediately after development and before moving to new sites. Development should progress at a pace commensurate with reclamation success.
- Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife.
- Avoid aggressive non-native grasses and shrubs in reclamation.

Signature \_\_\_\_\_ Date \_\_\_\_ 10/10/2011 \_\_\_\_\_  
 Wayne P. Bankert  
 Senior Reg. and Env. Coordinator  
 Laramie Energy II, LLC

Storm Water/Erosion Control	<p>PROPOSED BMP's</p> <p>LARAMIE ENERGY II, LLC</p> <p>Jensen 19-01 Pad NENE Sec. 19 Twn. 9 South Rng. 93 West Mesa County, CO</p> <p>Stormwater Management</p> <p>Stormwater Management will be managed under (Laramie Energy II) LE II's Stormwater Management Plan known as the "Bruton Project Area". The Stormwater Plan and Permit (COR 03G219) will be amended to include the additional well pad and construction.</p> <p>Prior to construction a stormwater "perimeter" will be built around the site for initial work purposes. Once the pad construction is completed, LE II's Stormwater Administrator will inspect the site and install any necessary Erosion Control Devices to manage sediment discharge from the pad. These devices may include but are not limited to:</p> <ul style="list-style-type: none"> <li>- Rock Check dams</li> <li>- Settling ponds</li> <li>- Straw waddles</li> <li>- Silt Fencing (used sparingly)</li> </ul> <p>Once the final stormwater Erosion Control Devices are installed they will be mapped in GIS and a diagram of the site will be drafted and included as part of the Stormwater Documentation as required by the CDPHE General Permit.</p> <p>Each site will be inspected every 14 days and 72 hrs after any major storm event. These inspections will be recorded and documented in the Stormwater Manual onsite and any necessary repairs or modifications will be made and documented.</p> <p>Spill Prevention Control and Counter Measures (SPCC)</p> <p>Once the wells are drilled and completed onsite Laramie Energy II will prepare a SPCC plan for the site.</p>
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Total: 2 comment(s)