

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:  
400184156

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:  
**424718**  
Expiration Date:  
**08/15/2014**

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: 10131  
Name: ST. JAMES ENERGY OPERATING INC  
Address: 11177 EAGLE VIEW DR STE 1  
City: SANDY State: UT Zip: 84092

3. Contact Information

Name: Dan Hull  
Phone: (970) 226-0342  
Fax: (970) 226-0879  
email: dan.hull@LRA-inc.com

4. Location Identification:

Name: Larson Farms Directional Number: #3  
County: WELD  
Quarter: NESW Section: 24 Township: 6N Range: 64W Meridian: 6 Ground Elevation: 4643

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: 2269 feet FSL, from North or South section line, and 2534 feet FWL, from East or West section line.  
Latitude: 40.470940 Longitude: -104.498670 PDOP Reading: 1.1 Date of Measurement: 07/13/2011  
Instrument Operator's Name: Z. Waddle

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

Special Purpose Pits: <input type="checkbox"/>	Drilling Pits: <input type="checkbox"/>	Wells: <input type="text" value="13"/>	Production Pits: <input type="checkbox"/>	Dehydrator Units: <input type="checkbox"/>
Condensate Tanks: <input type="checkbox"/>	Water Tanks: <input type="checkbox"/>	Separators: <input type="checkbox"/>	Electric Motors: <input type="checkbox"/>	Multi-Well Pits: <input type="checkbox"/>
Gas or Diesel Motors: <input type="checkbox"/>	Cavity Pumps: <input type="checkbox"/>	LACT Unit: <input type="checkbox"/>	Pump Jacks: <input type="checkbox"/>	Pigging Station: <input type="checkbox"/>
Electric Generators: <input type="checkbox"/>	Gas Pipeline: <input type="checkbox"/>	Oil Pipeline: <input type="checkbox"/>	Water Pipeline: <input type="checkbox"/>	Flare: <input type="checkbox"/>
Gas Compressors: <input type="checkbox"/>	VOC Combustor: <input type="checkbox"/>	Oil Tanks: <input type="checkbox"/>	Fuel Tanks: <input type="checkbox"/>	

Other: Drill rig includes 23 electric motors, 8 gas/diesel motors, 2 electric generators, 8 fuel tanks

6. Construction:

Date planned to commence construction: 08/31/2011 Size of disturbed area during construction in acres: 5.00  
Estimated date that interim reclamation will begin: 08/31/2012 Size of location after interim reclamation in acres: 0.50  
Estimated post-construction ground elevation: 4643 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: \_\_\_\_\_  
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: 20050105  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: 2750, public road: 2265, above ground utilit: 2565  
, railroad: 55440, property line: 202

### 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: Aquolls and Aquepts, Flooded

NRCS Map Unit Name: Nunn clay loam, 0 to 1 percent slopes

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: Switchgrass, Western Wheatgrass, Green Needlegrass, Fourwing saltbrush, perennial forbs, perennial grasses, other shrubs

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: 197, water well: 1100, depth to ground water: 15

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:

1) Depth to Groundwater determined from nearby water well, receipt # 14949-R. 2) The reference area is located adjacent (to the northeast) to the well pad.

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

Signed: \_\_\_\_\_ Date: 08/03/2011 Email: dan.hull@LRA-inc.com

Print Name: Dan Hull Title: Senior Project Manager

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: 8/16/2011

**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.**

Operator must implement site-specific best management practices in accordance with good engineering practices, including, but not limited to, construction of a berm or diversion dike, site grading, or other comparable measures, sufficient to protect Crow Creek to the north and west of the proposed location as shown on the on the attached hydrology map from a release of drilling, completion, produced fluids, and chemical products.

**Attachment Check List**

Att Doc Num	Name
2533346	CORRESPONDENCE
2533352	VARIANCE REQUEST
2533353	WAIVERS
2533354	WAIVERS
2533355	WAIVERS
400184156	FORM 2A SUBMITTED
400184173	SURFACE AGRMT/SURETY
400192033	NRCS MAP UNIT DESC
400192034	NRCS MAP UNIT DESC
400192035	ACCESS ROAD MAP
400192036	HYDROLOGY MAP
400192039	LOCATION DRAWING
400192040	LOCATION PICTURES
400192041	LOCATION PICTURES
400192042	MULTI-WELL PLAN
400192043	REFERENCE AREA PICTURES
400192044	REFERENCE AREA PICTURES

Total Attach: 17 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
OGLA	Passed on 8/11/2011 due to Exigent Circumstances.	8/11/2011 11:39:14 AM
OGLA	Ready to pass 8/25/2011.	3/9/2011 1:54:09 PM
OGLA	Sensitive area due to the close proximity of Crow Creek and the presence of shallow groundwater.	3/9/2011 9:07:30 AM

Total: 3 comment(s)

## BMP

<u>Type</u>	<u>Comment</u>
Interim Reclamation	Reclamation 1. Interim and/or final reclamation of the site will be completed per the Colorado Oil and Gas Conservation Commission (COGCC) rules and regulations.
Drilling/Completion Operations	Spill Prevention 1. All materials, waste, and fluids kept on site will be stored in an appropriate manner to prevent contamination with the environment 2. If a spill occurs, it will be cleaned up using absorbent material and by removing the contaminated soil 3. Any contaminated soil will be placed in a sealed container that can be disposed of appropriately 4. All efforts will be made to prevent the spill from migrating off-site or coming into contact with stormwater runoff 5. The Spill Control and Countermeasures plan, if applicable, will address and control all spill procedures
Storm Water/Erosion Control	Stormwater 1. When site disturbance is greater than one acre, a stormwater discharge permit will be completed per state regulations 2. Stormwater best management practices will be installed 3. All stormwater best management practices will remain in place until final stabilization is achieved.
General Housekeeping	Solid Waste 1. The site will be cleaned of all trash and waste as soon as practical 2. All waste will be stored in sealed containers until it can be disposed of appropriately 3. Solid waste will be removed from the site and disposed of per state regulations for solid waste
Drilling/Completion Operations	A closed loop system will be used for drilling fluids.
General Housekeeping	Noxious Weeds 1. Site will be inspected to document weed infested areas 2. Prompt action will be taken to mitigate infested areas. 3. All noxious weeds identified will not be allowed to reach the flowering or seed dispersal stage. 4. Vehicles will not be allowed to drive through weed infested areas. 5. Machinery will not be parked in weed infested areas. 6. Vehicles sent off site regularly will be inspected to assure that undercarriages and grill works are kept free of weed seed. 7. Undercarriages of vehicles or machinery potentially contaminated with noxious weed seeds will be washed before entry is made into non infested areas.
Storm Water/Erosion Control	Fugitive Dust and Vehicle Tracking 1. Traffic speeds will be limited to control fugitive dust 2. Watering will be completed to control fugitive dust as needed 3. Graveled entries will be provided for vehicle tracking control 4. Furlowing of disturbed soil will be provided at right angles to prevailing winds as needed 5. Silt fences will be installed for wind breaks as needed

Total: 7 comment(s)