

FORM  
2A

Rev  
04/01

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

400384884

Date Received:

04/22/2013

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:

**432879**

Expiration Date:

**05/16/2016**

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: 10401

Name: MAK-J ENERGY COLORADO LLC

Address: 1600 N BROADWAY, SUITE 1740

City: DENVER State: CO Zip: 80202

3. Contact Information

Name: Dawn G. Meek

Phone: (303) 339-5877

Fax: (303) 468-0093

email: dmeek@makjenergy.com

4. Location Identification:

Name: McCoy Pad Number: 11-33

County: WELD

Quarter: NWSW Section: 33 Township: 4N Range: 68W Meridian: 6 Ground Elevation: 5030

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: 791 feet FNL, from North or South section line, and 231 feet FWL, from East or West section line.

Latitude: 40.274710 Longitude: -105.016890 PDOP Reading: 2.1 Date of Measurement: 12/11/2012

Instrument Operator's Name: Brian Brinkman

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="6"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="6"/>	Water Tanks: <input type="text" value="2"/>	Separators: <input type="text" value="3"/>	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" value="2"/>	Oil Tanks: <input type="text"/>	Fuel Tanks: <input type="text"/>	

Other: \_\_\_\_\_

6. Construction:

Date planned to commence construction: 06/01/2013 Size of disturbed area during construction in acres: 2.50  
Estimated date that interim reclamation will begin: 12/01/2013 Size of location after interim reclamation in acres: 1.00  
Estimated post-construction ground elevation: 5054 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: 20120004  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: 1244, public road: 221, above ground utility: 1460,  
railroad: 5280, property line: 231

### 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: NUNN CLAY LOAM, 1 TO 3 PERCENT SLOPES

NRCS Map Unit Name: COLBY LOAM, 5 TO 9 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: \_\_\_\_\_  
\_\_\_\_\_

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: 457, water well: 434, depth to ground water: 89

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:

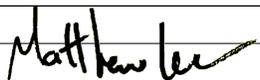
Location is listed as "sensitive area" due to proximity to surface water and possible proximity to ground water. The closest water well is #:1026--, located SESE Sec 32 T4N R68W just west of Thomas Reservoir, approximately 1,316" (SW) from the location. The well pumped at 10 gpm with reported static water level of 8'. There is no elevation listed for the well, but topographic maps show it @ approximately 5065", which results in an elevation corrected water level of -3 (that is, 3' above ground surface) at the location, suggesting that there may be leaching from Thomas Reservoir affecting the ground water level at the above water well. Static water level was determined from the next closest water well, Permit #: 158797--, located SESE Sec 32 T4N R68W, ~ 1600' FNL & 750' FEL, approxiametly 2260' (NW) of location. This well pumped at 10 gpm with static water level of 80' with an approximate Topographic Map derived elevation of 5045'. Resulting in an elevation corrected water level of 89' at location. This has been reported above. Operator requests a Rule 318A(I).a and 318A(I).c exception location; well is to be located outside of the GWA drilling window and will be located more than 50' from an existing location. Waiver and Request are forthcoming.MAK-J has a surface use agreement with the land owners.

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

Signed: \_\_\_\_\_ Date: 04/22/2013 Email: pmounsey@makjenergy.com

Print Name: Peter R. Mounsey Title: CEO

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

**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
400384884	FORM 2A SUBMITTED
400384892	MULTI-WELL PLAN
400384893	NRCS MAP UNIT DESC
400384895	HYDROLOGY MAP
400384896	LOCATION DRAWING
400405398	LOCATION PICTURES
400405399	LOCATION PICTURES
400405400	REFERENCE AREA PICTURES
400405404	ACCESS ROAD MAP
400405405	WASTE MANAGEMENT PLAN
400405873	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	Final review complete.	5/16/2013 9:10:29 AM
OGLA	Changed land use and deleted drilling pit, reviewed 5/15/2013.	5/15/2013 3:10:08 PM
Permit	Ready to pass pending public comment 5/14/13.	4/23/2013 10:48:23 AM
Permit	Passed completeness.	4/23/2013 7:31:31 AM
Permit	Changed H2S to NO as requested by Operator.	4/23/2013 7:30:44 AM
Permit	Requested answer to H2S question.	4/23/2013 5:06:22 AM

Total: 6 comment(s)

**BMP**

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