

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



Document Number:

2287386

Date Received:

02/10/2012

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:

**428105**

Expiration Date:

**03/07/2015**

☒ 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: 10401

Name: MAK-J ENERGY COLORADO LLC

Address: 1600 N BROADWAY, SUITE 1740

City: DENVER State: CO Zip: 80202

3. Contact Information

Name: CHUCK POLLARD

Phone: (303) 339-5884

Fax: (303) 468-0092

email: CPOLLARD@MAKJENERGY.COM

4. Location Identification:

Name: MCCOY PAD Number: 13-33

County: WELD

QuarterQuarter: NWSW Section: 33 Township: 4N Range: 68W Meridian: 6 Ground Elevation: 5054

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: 1629 feet FSL, from North or South section line, and 219 feet FWL, from East or West section line.

Latitude: 40.266790 Longitude: -105.016910 PDOP Reading: 1.3 Date of Measurement: 12/14/2011

Instrument Operator's Name: WYATT HALL

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" value="1"/>	Wells: <input type="text" value="5"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text" value="5"/>	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: 03/01/2012 Size of disturbed area during construction in acres: 2.50  
 Estimated date that interim reclamation will begin: 09/01/2012 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: 601, public road: 200, above ground utilit: 1600  
 , railroad: 5280, property line: 219

## 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: NUNNCLAY 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: 121, water well: 1316, 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 Supply 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 PERMIT #: 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 A 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, APPROXIMATELY 2260' (NW) OF LOCATION. THIS WELL PUMPED AT 10GPM WITH A 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 A GWA DRILLING WINDOW AND WILL BE LOCATED MORE THAN 50' FROM AN EXISTING LOCATION. WAIVER AND REQUESTED ARE FORTHCOMING.

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

Signed: \_\_\_\_\_ Date: 02/09/2012 Email: CPOLLARD@MAKJENERGY.COM

Print Name: CHARLES W. POLLARD Title: PRESIDENT

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: 3/8/2012

**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.**

**Attachment Check List**

Att Doc Num	Name
1694725	MULTI-WELL PLAN
1694726	NRCS MAP UNIT DESC
1694727	WASTE MANAGEMENT PLAN
2287386	FORM 2A SUBMITTED
2287387	LOCATION PICTURES
2287388	LOCATION DRAWING
2287389	HYDROLOGY MAP
2287390	ACCESS ROAD MAP
2287391	REFERENCE AREA PICTURES

Total Attach: 9 Files

**General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Final Review Completed. No LGD or public comment received.	3/7/2012 4:25:07 PM
OGLA	Added BMP for protection of nearby drainage, OK to pass.	3/7/2012 10:51:08 AM
Permit	Okay to pass pending public comment 3/05/12.	2/17/2012 9:56:56 AM
Permit	Received and attached Multi-Well Plan, WMP & NRCS Map.	2/15/2012 2:37:43 PM
Permit	Missing plugging bond. Input per operator Missing multi well plan, WMP and NRCS attachment. Missing Right to construct. Input per operator Verify the surface owner. Input per operator	2/14/2012 7:50:02 AM
Data Entry	7. SURFACE OWNER IS A REQUIRED FIELD.	2/13/2012 12:07:14 PM

Total: 6 comment(s)

**BMP**

<b><u>Type</u></b>	<b><u>Comment</u></b>
Storm Water/Erosion Control	A ditch and berm system will be incorporated on the east edge of the pad to prevent impact to the drainage to the east, northeast of the pad.

Total: 1 comment(s)