

FORM  
2A

Rev  
08/13

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:

400682961

Date Received:

09/10/2014

Oil and Gas Location Assessment

☒ New Location    ☐ Refile    ☐ Amend Existing Location    Location#: \_\_\_\_\_

Submit signed original form. This Oil and Gas Location Assessment is to be submitted to the COGCC for approval prior to any ground disturbance activity associated with oil and gas operations. Approval of this Oil and Gas Location 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. Please see the COGCC website at <http://cogcc.state.co.us/> for all accompanying information pertinent this Oil and Gas Location Assessment.

Location ID:

**439262**

Expiration Date:

**10/08/2017**

☒ This location assessment is included as part of a permit application.

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.

Operator

Operator Number: 61250

Name: MULL DRILLING COMPANY INC

Address: 1700 N WATERFRONT PKWY B#1200

City: WICHITA    State: KS    Zip: 67206-6637

Contact Information

Name: CARL SMALLEY

Phone: (719) 767-8805

Fax: (719) 767-8994

email: CSMALLEY@MULLDRILLING.COM

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20000063    ☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: NORTHWEST ARAPAHOE UNIT (NWAU)    Number: 38

County: CHEYENNE

QuarterQuarter: NWSW    Section: 25    Township: 13S    Range: 43W    Meridian: 6    Ground Elevation: 3988

Define a single point as a location reference for the facility location. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 2070 feet FSL from North or South section line

659 feet FWL from East or West section line

Latitude: 38.891760    Longitude: -102.181870

PDOP Reading: 1.8    Date of Measurement: 08/27/2014

Instrument Operator's Name: ELIJAH FRANE

## RELATED REMOTE LOCATIONS

(Enter as many Related Locations as necessary. Enter the Form 2A document # only if there is no established COGCC Location ID#)

**This proposed Oil and Gas Location is:**

**LOCATION ID #**

**FORM 2A DOC #**

Well Site is served by Production Facilities

400683725

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	1	Oil Tanks		Condensate Tanks		Water Tanks		Buried Produced Water Vaults	
Drilling Pits	1	Production Pits		Special Purpose Pits		Multi-Well Pits		Temporary Large Volume Above Ground Tanks	
Pump Jacks	1	Separators		Injection Pumps		Cavity Pumps			
Gas or Diesel Motors		Electric Motors	1	Electric Generators		Fuel Tanks		Gas Compressors	
Dehydrator Units		Vapor Recovery Unit		VOC Combustor		Flare		LACT Unit	
								Pigging Station	

## OTHER FACILITIES

**Other Facility Type**

**Number**

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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

IF WELL IS SUCCESSFUL, A 3" FLOWLINE WILL BE INSTALLED W/48" COVER BETWEEN WELL AND TANK BATTERY.

## CONSTRUCTION

Date planned to commence construction: 11/05/2014      Size of disturbed area during construction in acres: 2.20  
Estimated date that interim reclamation will begin: 05/05/2015      Size of location after interim reclamation in acres: 0.25  
Estimated post-construction ground elevation: 3988

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No  
Is H<sub>2</sub>S anticipated? No  
Will salt sections be encountered during drilling: No  
Will salt based mud (>15,000 ppm Cl) be used? No  
Will oil based drilling fluids be used? No

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: ONSITE      Drilling Fluids Disposal Method: Evaporation  
Cutting Disposal: ONSITE      Cuttings Disposal Method: Drilling pit

Other Disposal Description:

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Beneficial reuse or land application plan submitted? \_\_\_\_\_

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

Centralized E&P Waste Management Facility ID, if applicable: \_\_\_\_\_

## SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: JOE F. KLEMENT FAMILY TRU

Phone: 719-340-0031

Address: PO BOX 625

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: CHEYENNE State: CO Zip: 80810  
WELLS

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☐ is the mineral owner

☐ is committed to an oil and Gas Lease

☐ has signed the Oil and Gas Lease

☐ is the applicant

The Mineral Owner beneath this Oil and Gas Location is: ☒ Fee ☐ State ☐ Federal ☐ Indian

The Minerals beneath this Oil and Gas Location will be developed from or produced to this Oil and Gas Location: Yes

The right to construct this Oil and Gas Location is granted by: Bond

Surface damage assurance if no agreement is in place: Blanket Surface Surety ID: 20010165

Date of Rule 306 surface owner consultation 08/27/2014

## CURRENT AND FUTURE LAND USE

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

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

## CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 2330 Feet  
Building Unit: 2429 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 630 Feet  
Above Ground Utility: 620 Feet  
Railroad: 5280 Feet  
Property Line: 570 Feet

### INSTRUCTIONS:

- All measurements shall be provided from center of nearest Well or edge of nearest Production Facility to nearest of each cultural feature as described in Rule 303.b.(3)A.  
- Enter 5280 for distance greater than 1 mile.  
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.  
- Building Unit, High Occupancy Building Unit, and Designated Outside Activity Area - as defined in 100-Series Rules.

## DESIGNATED SETBACK LOCATION INFORMATION

Check all that apply. This location is within a: ☐ Buffer Zone  
☐ Exception Zone  
☐ Urban Mitigation Area

- Buffer Zone - as described in Rule 604.a.(2), within 1,000' of a Building Unit.  
- Exception Zone - as described in Rule 604.a.(1), within 500' of a Building Unit.  
- Urban Mitigation Area - as defined in 100-Series Rules.

Pre-application Notifications (required if location is within 1,000 feet of a building unit):

Date of Rule 305.a.(1) Urban Mitigation Area Notification to Local Government: \_\_\_\_\_

Date of Rule 305.a.(2) Buffer Zone Notification to Building Unit Owners: \_\_\_\_\_

## SOIL

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.org/> 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: MAP UNIT DESCRIPTION #15 GLENBERG-BANKARD COMPLEX, 0 TO 1 PERCENT SLOPES

NRCS Map Unit Name: MAP UNIT DESCRIPTION #39 SATANTA-COLBY COMPLEX, 3 TO 5 PERCENT SLOPES

NRCS Map Unit Name: \_\_\_\_\_

## 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): \_\_\_\_\_

## WATER RESOURCES

Is this a sensitive area: ☐ No ☒ Yes

Distance to nearest

downgradient surface water feature: 29 Feet

water well: 2070 Feet

Estimated depth to ground water at Oil and Gas Location 235 Feet

Basis for depth to groundwater and sensitive area determination:

CDWR RECEIPT #9014507  
PERMIT # 111103  
EAST OF PROPOSED LOCATION  
Located in the Northern High Plains Designated Basin and East Cheyenne Groundwater Management Area

Is the location in a riparian area: ☒ No ☐ Yes

Was an Army Corps of Engineers Section 404 permit filed ☒ No ☐ Yes If yes attach permit.

Is the location within a Rule 317B Surface Water Supply Area buffer No  
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: \_\_\_\_\_

## GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 609

## DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

- ☐ Rule 604.a.(1)A. Exception Zone (within 500' of Building Unit)  
☐ Rule 604.b.(1)A. Exception Location (existing or approved Oil & Gas Location now within a Designated Setback as a result of Rule 604.a.)  
☐ Rule 604.b.(1)B. Exception Location (existing or approved Oil & Gas Location is within a Designated Setback due to Building Unit construction after Location approval)  
☐ Rule 604.b.(2) Exception Location (SUA or site-specific development plan executed on or before August 1, 2013)  
☐ Rule 604.b.(3) Exception Location (Building Units constructed after August 1, 2013 within setback per an SUA or site-specific development plan)

## RULE 502.b VARIANCE REQUEST

- ☐ Rule 502.b. Variance Request from COGCC Rule or Spacing Order Number \_\_\_\_\_

ALL exceptions and variances require attached Request Letter(s). Refer to applicable rule for additional required attachments (e.g. waivers, certifications, SUAs).

## OPERATOR COMMENTS AND SUBMITTAL

Comments	1. WATER RESOURCES: SENSITIVE AREA, EAST CHEYENNE DESIGNATED GW & NORTHERN HIGH PLAINS DESIGNATED BASIN. 2. RELATED REMOTE LOCATIONS: EXISTING TANK BATTERY + 3 WELLS (NWAU #7, #8 & #9) 3. WATER RESOURCES: NEAREST DOWN GRADIENT SURFACE WATER FEATURE, SMOKY HILL RIVER (EPHEMERAL STREAM).
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I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: \_\_\_\_\_ Date: 09/10/2014 Email: TTRITT@MULLDRILLNG.COM

Print Name: TANNIS TRITT Title: EXECUTIVE ASSISTANT

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: 10/9/2014

### Surface Owner Information

Owner Name	Address	Phone	Fax	Email
JOE F. KLEMENT FAMILY TRU	PO BOX 625	719-340-0031		
	CHEYENNE WELLS, CO 80810			
MARIAN KLEMENT LIVING TRU	PO BOX 625	719-340-0031		
	CHEYENNE WELLS, CO 80810			

2 Surface Owner(s)

### Conditions Of Approval

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.

#### COA Type                      Description

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### Best Management Practices

No	BMP/COA Type	Description
1	Planning	<ul style="list-style-type: none"> <li>• Conduct Initial Site Assessment               <ul style="list-style-type: none"> <li>o Identification of nearby water bodies</li> <li>o Identification of vegetation types</li> <li>o Identification of protected wildlife species</li> <li>o Identification of potential access routes to minimize disturbances</li> <li>o Identification of nearby improvements</li> </ul> </li> </ul>
2	Pre-Construction	<ul style="list-style-type: none"> <li>• Preparation of a Storm Water Pollution Prevention Plan. Acquisition of a Storm Water Discharge Permit</li> <li>• Consultation with the surface landowner or appointed agent</li> <li>• Finalize access routes</li> <li>• Finalize well pad location to minimize surface grade impacts</li> <li>• Finalize well pad layout to minimize disturbances</li> <li>• Develop wildlife management plan if protected species are present</li> </ul>

3	General Housekeeping	<ul style="list-style-type: none"> <li>• Drilling and production operations conducted in safe, workmanlike manner. Safety expectations include good housekeeping.</li> <li>• During drilling/completion operations, debris stored in caged container which is removed from the site.</li> <li>• During production operations, the lease is inspected daily by MDC personnel.</li> </ul>
4	Wildlife	<ul style="list-style-type: none"> <li>• Development and implementation of a Wildlife Management Plan if protected species are present</li> </ul>
5	Storm Water/Erosion Control	<ul style="list-style-type: none"> <li>• During drilling / completion operations, implementation of Storm Water Pollution Prevention Plan</li> <li>• Following drilling/completion operations, prompt reclamation of disturbed areas</li> <li>• During production operations, implementation of MDC's Post Construction Storm Water Management Program</li> </ul>
6	Material Handling and Spill Prevention	<ul style="list-style-type: none"> <li>• During drilling/completion operations, storage areas graded towards pit</li> <li>• During production operations, implementation of Spill Prevention, Control and Countermeasure Plan &amp; daily inspection</li> <li>• All stock and produced water tanks have secondary containment</li> </ul>
7	Construction	<ul style="list-style-type: none"> <li>• Access road, well pad and pit disturbances minimized</li> <li>• Soils segregated by type to facilitate reclamation</li> <li>• Storm water controls deployed and routinely inspected</li> </ul>
8	Drilling/Completion Operations	<p>Includes Structural Practices</p> <ul style="list-style-type: none"> <li>• Implement Storm Water Pollution Prevention Plan, including routine inspections and evaluation of effectiveness</li> <li>• Locate tank batteries at safe distance from public roadways and railhead</li> <li>• Full containment for stock tanks and separators</li> <li>• Installation of pipelines in common trenches when practical</li> <li>• Installation of pipelines at right angles to water bodies (drainages, wetlands, perennial water bodies) where practical</li> </ul> <p>Site Specific:</p> <ol style="list-style-type: none"> <li>1. Reporting of the presence of H2S will be done via verbal and email notices. Verbal notice with a follow up email will be provided as soon as practicable upon detection of H2S to COGCC's area engineer and the local government designee.</li> <li>2. Per ephemeral stream 29 feet southeast of staked location – structural practices will be implemented at the site to minimize erosion and sediment transport. Practices may include but are not limited to: straw bales, wattles/sediment control logs, silt fences, earth dikes, drainage swales, sediment traps, subsurface drains, pipe slope drains, inlet protection, outlet protection, gabions, and temporary sediment basins.</li> </ol>
9	Interim Reclamation	<ul style="list-style-type: none"> <li>• Debris and waste material removed</li> <li>• Areas not in use reclaimed promptly; pits closed using segregated material; well pad and other compacted surfaces ripped</li> <li>• Noxious weeds controlled</li> </ul>
10	Final Reclamation	<ul style="list-style-type: none"> <li>• All equipment and debris removed</li> <li>• All remaining disturbed areas, including access roads, reclaimed</li> <li>• Noxious Weed Control Plan developed if appropriate</li> </ul>

Total: 10 comment(s)

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400682961	FORM 2A SUBMITTED
400683928	LOCATION PICTURES
400683931	LOCATION PICTURES
400683933	LOCATION DRAWING
400683935	HYDROLOGY MAP
400683938	ACCESS ROAD MAP
400683942	REFERENCE AREA PICTURES
400683945	REFERENCE AREA MAP
400683949	OTHER
400683952	NRCS MAP UNIT DESC
400683954	NRCS MAP UNIT DESC

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 completed; no LGD or public comment received.	10/9/2014 5:52:22 AM
OGLA	OGLA review complete	10/8/2014 5:54:37 PM
OGLA	Added "Located in the Northern High Plains Designated Basin and Groundwater management Area" to the Basis statements under the Water Resources tab.	10/8/2014 5:48:10 PM
Permit	Passed completeness.	9/11/2014 12:32:18 PM

Total: 4 comment(s)