

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:

400552310

Date Received:

02/11/2014

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:

436511

Expiration Date:

03/22/2017

☒ 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: APC-RUNYAN Number: 1-11
County: KIOWA
QuarterQuarter: SENW Section: 11 Township: 17S Range: 45W Meridian: 6 Ground Elevation: 4152
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: 2581 feet FNL from North or South section line
1537 feet FWL from East or West section line
Latitude: 38.592200 Longitude: -102.429890
PDOP Reading: 2.3 Date of Measurement: 01/29/2014
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 #

FACILITIES

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

Wells	<u>1</u>	Oil Tanks	<u>2</u>	Condensate Tanks	<u> </u>	Water Tanks	<u>1</u>	Buried Produced Water Vaults	<u> </u>
Drilling Pits	<u> </u>	Production Pits	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits	<u> </u>	Temporary Large Volume Above Ground Tanks	<u> </u>
Pump Jacks	<u>1</u>	Separators	<u>1</u>	Injection Pumps	<u> </u>	Cavity Pumps	<u> </u>		
Gas or Diesel Motors	<u> </u>	Electric Motors	<u>1</u>	Electric Generators	<u> </u>	Fuel Tanks	<u> </u>	Gas Compressors	<u> </u>
Dehydrator Units	<u> </u>	Vapor Recovery Unit	<u> </u>	VOC Combustor	<u> </u>	Flare	<u> </u>	LACT Unit	<u> </u>
								Pigging Station	<u> </u>

OTHER FACILITIES

Other Facility Type

Number

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

IF WELL IS COMPLETED AS A PRODUCING OIL WELL, A BURIED 3" FLOWLINE WILL BE INSTALLED WITH 48" COVER BETWEEN WELL AND TANK BATTERY.

CONSTRUCTION

Date planned to commence construction: 04/15/2014 Size of disturbed area during construction in acres: 3.45
Estimated date that interim reclamation will begin: 07/15/2014 Size of location after interim reclamation in acres: 2.50
Estimated post-construction ground elevation: 4152

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

Is H₂S anticipated? Yes

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: Other

Cutting Disposal: ONSITE Cuttings Disposal Method: Drilling pit

Other Disposal Description:

WATER BASED BENTONITIC DRILLING FLUIDS, EXCEPT DE MINIMIS AMOUNTS, WILL BE REMOVED FROM THE DRILLING PIT AND DISPOSED IN ACCORDANCE WITH THE 900 SERIES RULES.

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: DOROTHY M. RUNYAN REV TRU

Phone: 920-231-5242

Address: C/O THOMAS RUNYAN, A-I-F

Fax: _____

Address: 1249 SHEBOYGAN STREET

Email: _____

City: OSHKOSH State: WI Zip: 54904

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 01/29/2014

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: 3635 Feet
Building Unit: 3635 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1537 Feet
Above Ground Utility: 1549 Feet
Railroad: 5280 Feet
Property Line: 1537 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: PRIMARY: MAP UNIT DESCRIPTION 21 KIM-HARVEY-STONEHAM LOAMS, 1 TO 3% SLOPES

NRCS Map Unit Name: SECONDARY: MAP UNIT DESCRIPTION 13 FT. COLLINS SANDY LOAM, 0 TO 3% SLOPES

NRCS Map Unit Name: SECONDARY: MAP UNIT DESCRIPTION 32 SINGERTON PULTNEY COMPLEX, 1 TO 10% SLOPES

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: 436 Feet

water well: 5115 Feet

Estimated depth to ground water at Oil and Gas Location 33 Feet

Basis for depth to groundwater and sensitive area determination:

CDWR: RECEIPT 9088182, PERMIT 105333

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

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

Signed: _____ Date: 02/11/2014 Email: TTRITT@MULLDRILLING.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: 3/23/2014

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.

<u>COA Type</u>	<u>Description</u>
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Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
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1	Planning	<ul style="list-style-type: none">• Conduct Initial Site Assessment<ul style="list-style-type: none">o Identification of nearby water bodieso Identification of vegetation typeso Identification of protected wildlife specieso Identification of potential access routes to minimize disturbanceso Identification of nearby improvements
2	Pre-Construction	<ul style="list-style-type: none">• Preparation of a Storm Water Pollution Prevention Plan. Acquisition of a Storm Water Discharge Permit• Consultation with the surface landowner or appointed agent• Finalize access routes• Finalize well pad location to minimize surface grade impacts• Finalize well pad layout to minimize disturbances• Develop wildlife management plan if protected species are present
3	General Housekeeping	<ul style="list-style-type: none">• Drilling and production operations conducted in safe, workmanlike manner. Safety expectations include good housekeeping.• During drilling/completion operations, debris stored in caged container which is removed from the site.• During production operations, the lease is inspected daily by MDC personnel.
4	Wildlife	<ul style="list-style-type: none">• Development and implementation of a Wildlife Management Plan if protected species are present
5	Storm Water/Erosion Control	<ul style="list-style-type: none">• During drilling / completion operations, implementation of Storm Water Pollution Prevention Plan• Following drilling/completion operations, prompt reclamation of disturbed areas• During production operations, implementation of MDC's Post Construction Storm Water Management Program

6	Material Handling and Spill Prevention	<ul style="list-style-type: none"> • During drilling/completion operations, storage areas graded towards pit • During production operations, implementation of Spill Prevention, Control and Countermeasure Plan & daily inspection • All stock and produced water tanks have secondary containment
7	Construction	<ul style="list-style-type: none"> • Access road, well pad and pit disturbances minimized • Soils segregated by type to facilitate reclamation • Storm water controls deployed and routinely inspected
8	Drilling/Completion Operations	<ul style="list-style-type: none"> • Implement Storm Water Pollution Prevention Plan, including routine inspections and evaluation of effectiveness • Locate tank batteries at safe distance from public roadways and railhead • Full containment for stock tanks and separators • Installation of pipelines in common trenches when practical • Installation of pipelines at right angles to water bodies (drainages, wetlands, perennial water bodies) where practical <p>SITE SPECIFIC:</p> <ol style="list-style-type: none"> 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. 2. Per ephemeral stream 436 feet southwest 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.
9	Interim Reclamation	<ul style="list-style-type: none"> • Debris and waste material removed • Areas not in use reclaimed promptly; pits closed using segregated material; well pad and other compacted surfaces ripped • Noxious weeds controlled
10	Final Reclamation	<ul style="list-style-type: none"> • All equipment and debris removed • All remaining disturbed areas, including access roads, reclaimed • Noxious Weed Control Plan developed if appropriate

Total: 10 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400552310	FORM 2A SUBMITTED
400553621	H2S CONTINGENCY PLAN
400553642	LOCATION PICTURES
400553644	LOCATION DRAWING
400553645	HYDROLOGY MAP
400553647	ACCESS ROAD MAP
400553649	NRCS MAP UNIT DESC
400553651	NRCS MAP UNIT DESC
400553652	NRCS MAP UNIT DESC
400553654	OTHER

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no LGD or public comment received.	3/20/2014 1:34:05 PM
OGLA	OGLA review complete and task passed. No Public Comments.	3/20/2014 10:02:10 AM
Permit	Passed completeness.	2/12/2014 10:44:05 AM

Total: 3 comment(s)