

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:

401064795

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Date Received:

06/21/2016

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 386901

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:

386901

Expiration Date:

08/04/2019

☒ 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: 36200
Name: GRYNBERG* JACK DBA GRYNBERG PETROLEUM CO
Address: 3600 S. YOSEMITE ST - STE 900
City: DENVER State: CO Zip: 80237-1830

Contact Information

Name: Randy Edelen
Phone: (303) 850-7490
Fax: (303) 850-7498
email: r.edelen@grynberg.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20100037 ☐ Gas Facility Surety ID: _____
☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Schulte Number: 1-13R
County: LINCOLN
QuarterQuarter: SWSW Section: 3 Township: 6S Range: 52W Meridian: 6 Ground Elevation: 4945
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: 312 feet FSL from North or South section line
1046 feet FWL from East or West section line
Latitude: 39.550400 Longitude: -103.207800
PDOP Reading: 3.5 Date of Measurement: 03/03/2016
Instrument Operator's Name: Craig Burke

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>4</u>	Condensate Tanks*	<u> </u>	Water Tanks*	<u>1</u>	Buried Produced Water Vaults*	<u> </u>
Drilling Pits	<u>1</u>	Production Pits*	<u> </u>	Special Purpose Pits	<u> </u>	Multi-Well Pits*	<u> </u>	Modular Large Volume Tanks	<u> </u>
Pump Jacks	<u>1</u>	Separators*	<u>1</u>	Injection Pumps*	<u>1</u>	Cavity Pumps*	<u> </u>	Gas Compressors*	<u>1</u>
Gas or Diesel Motors*	<u>1</u>	Electric Motors	<u>2</u>	Electric Generators*	<u> </u>	Fuel Tanks*	<u>1</u>	LACT Unit*	<u> </u>
Dehydrator Units*	<u>1</u>	Vapor Recovery Unit*	<u> </u>	VOC Combustor*	<u>1</u>	Flare*	<u>1</u>	Pigging Station*	<u>1</u>

OTHER FACILITIES*

Other Facility Type

Number

Lined Fresh Water Pit

1

Those facilities indicated by an asterisk () shall be used to determine the distance from the Production Facility to the nearest cultural feature on the Cultural Setbacks Tab.

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

1 2 inch steel flowline
1 2 inch steel gas line
1 2 inch steel water line
1 2 inch steel oil line

CONSTRUCTION

Date planned to commence construction: 08/15/2016 Size of disturbed area during construction in acres: 5.00

Estimated date that interim reclamation will begin: 02/24/2017 Size of location after interim reclamation in acres: 2.00

Estimated post-construction ground elevation: 4945

DRILLING PROGRAM

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

Is H₂S 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:

Beneficial reuse or land application plan submitted? No

Reuse Facility ID: or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Ryan Schulte

Phone: 719-342-1264

Address: 116 E Street

Fax: _____

Address: _____

Email: ryanschulte@hotmail.com

City: Bethune State: CO Zip: 80805

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: oil and gas lease

Surface damage assurance if no agreement is in place: \$2,000 Surface Surety ID: 20160083

Date of Rule 306 surface owner consultation _____

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

Provide the distance to the nearest cultural feature as measured from Wells or Production Facilities onsite.

	From WELL	From PRODUCTION FACILITY
Building:	<u>5280</u> Feet	<u>5280</u> Feet
Building Unit:	<u>5280</u> Feet	<u>5280</u> Feet
High Occupancy Building Unit:	<u>5280</u> Feet	<u>5280</u> Feet
Designated Outside Activity Area:	<u>5280</u> Feet	<u>5280</u> Feet
Public Road:	<u>1032</u> Feet	<u>920</u> Feet
Above Ground Utility:	<u>4315</u> Feet	<u>4220</u> Feet
Railroad:	<u>5280</u> Feet	<u>5280</u> Feet
Property Line:	<u>311</u> Feet	<u>575</u> 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.
- For measurement purposes only, Production Facilities should only include those items with an asterisk(*) on the Facilities Tab.

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.
- Large UMA Facility – 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: _____

FOR MULTI-WELL PADS AND PRODUCTION FACILITIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

☐ Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (on or offsite) and the Production Facilities are proposed to be located less than 1,000 feet from a Building Unit. *(Pursuant to Rule 604.c.(2)E.i., the operator must evaluate alternative locations for the Production Facilities that are farther from the Building Unit, and determine whether those alternative locations were technically feasible and economically practicable for the same proposed development.)*

☐ By checking this box, I certify that no alternative placements for the Production Facilities, farther from the nearest Building Unit, were available based on the analysis conducted pursuant to Rule 604.c.(2)E.i.

In the space below, explain rationale for siting the multi-well Production Facility(ies) that supports your Rule 604.c.(2)E.i determination. Attach documentation that supports your determination to this Form 2A.

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: 122 Colby-Weld silt loams, 1 to 5 percent slopes

NRCS Map Unit Name: 213 Weld silt loam, 0 to 2 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: Noxious weeds detected during survey: Buffalo Burr Cheat Grass Musk Thistle

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: 650 Feet

water well: 4765 Feet

Estimated depth to ground water at Oil and Gas Location 100 Feet

Basis for depth to groundwater and sensitive area determination:

Colorado Division of Water Resources Permit number 148421
Location lies within the Arikaree Designated Groundwater Management Area and Northern High Plains Designated Basin.

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: No

Is the Location within a Floodplain? ☒ No ☐ Yes Floodplain Data Sources Reviewed (check all that apply)

☒ Federal (FEMA)

☐ State

☐ County

☐ Local

☒ Other FEMA shows location unmapped.

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 a Building Unit) and is in an Urban Mitigation Area
- ☐ 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: 06/21/2016 Email: h.bader@grynberg.com

Print Name: Randy Edelen Title: Regulatory 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:  Director of COGCC Date: 8/5/2016

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

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Attachment Check List

Att Doc Num	Name
1010099	ACCESS ROAD MAP
1010102	LOCATION DRAWING
401064795	FORM 2A SUBMITTED
401066326	NRCS MAP UNIT DESC
401067198	CONST. LAYOUT DRAWINGS
401067200	LOCATION PICTURES
401067207	HYDROLOGY MAP
401075084	REFERENCE AREA MAP
401075116	REFERENCE AREA PICTURES
401075236	NRCS MAP UNIT DESC

Total Attach: 10 Files

General Comments

User Group	Comment	Comment Date
Permit	Final Review Completed.	8/5/2016 11:56:51 AM
OGLA	Operator revised the Access Road to utilize an existing unimproved road. Uploaded revised Access Road Map. Operator revised the Location Drawing to show the Location boundaries. Uploaded the revised Location Drawing.	3/4/2016 2:27:36 PM
OGLA	Per Operator request, changed the pipeline information to: 1 2 inch steel flowline 1 2 inch steel gas line 1 2 inch steel water line 1 2 inch steel oil line	7/26/2016 3:55:37 PM
OGLA	Per Operator request, changed number of drilling pits to 1. Added 1 Lined Fresh Water pit to the Other Facilities list.	7/25/2016 3:23:58 PM
OGLA	Flood Plains have not been mapped for much of Lincoln County. Flood Plain determination was completed through a review of topography, geomorphology and soil as well as review of available county resources during the OGLA review.	7/25/2016 1:27:38 PM
OGLA	Per Operator: Original Location was reported incorrectly. Amended Form 2A will adjust the Location to the accurate longitude and latitude located approximately 575 feet from the current Location. Location Status is reported as CL (Closed) and has been reclaimed. Amended Form 2A required for re-entry.	7/25/2016 12:59:17 PM
OGLA	--Changed Sensitive Area to YES as the Location lies within the Arikaree Designated Groundwater Management Area and Northern High Plains Designated Basin. --Added Groundwater Management Area and Designated Basin to the "Basis for Depth to Groundwater and Sensitive Area Determination." --Changed Estimated Depth to Groundwater to 100 feet based on DWR Water Well Permit #148421. Depth of 150 feet as originally reported is the total depth of the well. --Changed distance to the Nearest Surface Water Feature to 650 based on the Hydrology Map submitted by the Operator and the review of the COGIS Map. Access Road transects an intermittent stream. Access road construction may require a PCN notice or courtesy call to the USACE. Per Operator, access has changed. An updated Access Road will be submitted.	7/25/2016 10:04:08 AM
LGD	County Permit #1602	7/13/2016 7:48:18 AM
Permit	Form 1A processed. Per operator, SO is MO and operator has leased these minerals.	7/12/2016 12:11:53 PM
Permit	WO Form 1A to make submitter a designated agent.	7/11/2016 7:47:48 AM
Permit	Returned to draft: --required attachment, Reference Area Photos is an aerial. Not acceptable. --required attachment, Reference Area Map, does not indicate reference area for vegetation. This attachment should be labeled Location Drawing. Need reference area map Confirmed surface bond is for this re-entry.	6/27/2016 11:28:01 AM

Permit	Returned to draft: --Need plugging bond --Attachment labeled OTHER belongs on Form 2 --Attachment labeled LEGAL/LEASE DESCRIPTION belongs on Form 2 --Add APD doc # to Related Forms Tab --Add Rule 609 for groundwater sampling to Water Resources Tab --Attachments to APD should be attached here: NRCS description, location and reference area photos, location drawing, access road map, reference area map	6/22/2016 6:35:55 AM
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Total: 12 comment(s)