

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:

401005112

Date Received:

03/21/2016

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 441995

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:

441995

Expiration Date:

03/10/2020

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: Grynberg Stateline Federal Number: 24-12-65-4 Pad
 County: WELD
 Quarter: NWNW Section: 24 Township: 12N Range: 65W Meridian: 6 Ground Elevation: 5853

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: 295 feet FNL from North or South section line
 847 feet FWL from East or West section line

Latitude: 40.999203 Longitude: -104.615686

PDOP Reading: 1.3 Date of Measurement: 11/10/2015

Instrument Operator's Name: Rob Wilson

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>6</u>	Condensate Tanks*	<u>1</u>	Water Tanks*	<u>2</u>	Buried Produced Water Vaults*	<u>1</u>
Drilling Pits	<u> </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>1</u>	Gas Compressors*	<u>1</u>
Gas or Diesel Motors*	<u>1</u>	Electric Motors	<u>1</u>	Electric Generators*	<u>1</u>	Fuel Tanks*	<u>1</u>	LACT Unit*	<u>1</u>
Dehydrator Units*	<u>1</u>	Vapor Recovery Unit*	<u>1</u>	VOC Combustor*	<u>1</u>	Flare*	<u>1</u>	Pigging Station*	<u>1</u>

OTHER FACILITIES*

Other Facility Type

Number

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

CONSTRUCTION

Date planned to commence construction: 05/15/2017 Size of disturbed area during construction in acres: 7.40
Estimated date that interim reclamation will begin: 06/14/2017 Size of location after interim reclamation in acres: 4.00
Estimated post-construction ground elevation: 5854

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: Yes

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: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Beneficial reuse

Other Disposal Description:

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: 442938 or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: True Ranches

Phone: 307-237-9301

Address: P.O. Drawer 2360

Fax: 307-266-0373

Address: _____

Email: _____

City: Casper State: WY Zip: 82602

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: Surface Use Agreement

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

Date of Rule 306 surface owner consultation 11/10/2015

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:	5280 Feet	4956 Feet
Building Unit:	5280 Feet	4956 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	352 Feet	424 Feet
Above Ground Utility:	3067 Feet	2848 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	295 Feet	620 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

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: _____

- 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.

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 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: 81 - Treon-Aberone fine sandy loam, 6 - 30% slopes

NRCS Map Unit Name: 69 - Treon-Rock outcrop complex, 9 - 40% slopes

NRCS Map Unit Name: 51 - Peetz gravelly sandy loam, 5 - 20% 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: 02/18/2016

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: 2240 Feet

water well: 3200 Feet

Estimated depth to ground water at Oil and Gas Location 45 Feet

Basis for depth to groundwater and sensitive area determination:

Nearest water well:
Permit #76647, NWSE Sec. 24, 12N-65W, TD 75 feet, static water level 45 feet.

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:

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

Federal (FEMA)

State

County

Local

Other

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 Statewide water sampling Rule 609; No water wells within a 1/2 mile radius of the loaction.

We are permitting an exploratory drilling concept for this pad and hence the indicated values for the construction and interim disturbance. Grynberg Petroleum Company will continue to strive for the most efficient and environmentally friendly solutions for our well and location construction. The pad in question is currently awaiting approval for 2 directional wells. This will consist of a pilot hole and a planned sidetrack through casing. We fully understand the 3 year future planning aspect of the OGLA form and have tried to incorporate as much information as available into our 3 applications. This application is for an exploratory project and due to this fact many aspects of the project are not quantifiable at this time. Grynberg Petroleum Company is not at this time certain of many facets of this project, including but not limited to:

- Drilling rig – Contractor, size, footprint, mob requirements and many other factors
- Completion size and requirements of plan
- Completion rig – similar to drilling rig
- Production formation(s) and rates and volumes
- Application approval, both state and federal

This well is a wildcat and the nature of such projects precludes access to quantifiable data.

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

Signed: _____ Date: 03/21/2016 Email: r.edelen@grynberg.com
 Print Name: Randy Edelen Title: Regulatory Manaqger

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: Matthew Lee Director of COGCC Date: 3/11/2017

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>
	Operator shall manage noxious weeds in accordance with a weed management plan, if required by the Colorado Noxious Weed Act, to prevent the spread of noxious weeds and to eradicate or control, as necessary, existing noxious weeds.
	Operator shall minimize total area disturbed for this Oil and Gas Location disturbance size, consistent with Rule 1002.d. and 1002.e.
	Operator shall minimize post-completion disturbance per Rule 1003.

Best Management Practices

<u>No BMP/COA Type</u>	<u>Description</u>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2478025	NRCS MAP UNIT DESC
2478026	NRCS MAP UNIT DESC
2478027	LOCATION DRAWING
2478028	CORRESPONDENCE
401005112	FORM 2A SUBMITTED
401087190	LOCATION PICTURES
401087191	LOCATION PICTURES
401087208	HYDROLOGY MAP
401087216	ACCESS ROAD MAP
401087217	OTHER
401087218	NRCS MAP UNIT DESC
401096903	REFERENCE AREA PICTURES
401096910	REFERENCE AREA MAP
401108031	SURFACE AGRMT/SURETY

Total Attach: 14 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Operator agreed to changing this from New Location to Amend Existing Location ID#441995. This location was originally permitted by Anadarko but they have since submitted a Sundry to abandon it having never constructed anything. The final reclamation inspection for Anadarko has not yet been conducted.	03/10/2017
Permit	Final Review complete.	03/07/2017
Permit	Operator provided revised date of construction: 5/15/2017. Notified OGLA.	02/27/2017
OGLA	OGLA task passed.	10/13/2016
OGLA	IN PROCESS - Operator provided a comment concerning the size of the disturbed area requested for a one well pad, removed drilling pit from Facilities list, revised the distance from the nearest well to a Property Line, provided two additional NRCS Map Unit Description attachments, revised the Plant Community section, & provided the correct Location Drawing. OGLA review complete. Waiting on Public Comment period.	10/12/2016
OGLA	ON HOLD - Operator to justify size of disturbed area requested for a one well pad, explain why both a drilling pit and closed loop drilling system is being used, revise the distance from the nearest well to a Property Line, provide two additional NRCS Map Unit Description attachments, revise the Plant Community section, & provide the correct Location Drawing. Due by 11/11/16.	10/11/2016
LGD	This proposed oil and gas facility is located in unincorporated Weld County. Oil and Gas Exploration and Production activities are currently considered a Use by Right in the Agricultural Zoned District and no land use permitting is required by the County. A building permit is required for the production facilities (tank battery, separators, pump jacks, compressors, etc.) from the Department of Planning Services. Access points from a County road require an Access Permits from the Department of Public Works, which include any necessary traffic control plans. The use of a right-of-way requires a Right-Of-Way Permit from the Department of Public Works. Troy Swain, Weld Oil Gas Liaison (970) 400-3579.	09/26/2016
Permit	Passes completeness.	09/22/2016
Permit	Returned to draft: --need date of construction in the future.	09/22/2016
Permit	Operator requested that this form be returned to draft to correct right-to-construct to SUA.	09/21/2016
Permit	Returned to draft: -- missing SUA -- missing Related Form 401055747	09/12/2016
Permit	Returned to draft: --missing location photos, reference area map and photos --surface owner cannot be committed to lease	06/03/2016
Permit	Returned to draft. If "is committed to an oil and gas lease" is marked on surface and minerals tab, then "is mineral owner beneath the location" needs to be marked. Since right to construct is SUA, need to attach. Missing Location pictures. Reference area pictures do not conform to guidance. Take during growing season. Missing multiwell plan. Do you have related forms? They need to be listed on the related forms tab.	03/22/2016

Total: 13 comment(s)