

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:

400563634

Date Received:

03/06/2014

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:

436533

Expiration Date:

03/24/2017

☒ 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: 10449
Name: TRITON ENERGY SERVICES LLC
Address: 2850 MCCLELLAND DRIVE STE 2400
City: FORT COLLINS State: CO Zip: 80525

Contact Information

Name: CLAYTON DOKE
Phone: (720) 420-5700
Fax: (720) 420-5800
email: cdoke@iptenergyservices.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20130005 ☐ Gas Facility Surety ID: _____
☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: TRITON Number: 1
County: WELD

QuarterQuarter: SWNW Section: 23 Township: 4N Range: 66W Meridian: 6 Ground Elevation: 4729

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: 2418 feet FNL from North or South section line
1164 feet FWL from East or West section line

Latitude: 40.298010 Longitude: -104.749800

PDOP Reading: 1.9 Date of Measurement: 02/21/2014

Instrument Operator's Name: BRIAN BRINKMAN

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> </u>	Condensate Tanks <u> </u>	Water Tanks <u> </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> </u>	Separators <u> </u>	Injection Pumps <u> </u>	Cavity Pumps <u> </u>	
Gas or Diesel Motors <u> </u>	Electric Motors <u> </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

UIC Facility - see comments below.

1

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

UIC Injection Facility Design is contingent upon well injectivity, which cannot be determined due to high geological uncertainty. A revised Facility Inventory will be submitted via a Form 4 Sundry once the specific layout is determined.

CONSTRUCTION

Date planned to commence construction: 03/20/2014 Size of disturbed area during construction in acres: 2.81
Estimated date that interim reclamation will begin: 09/20/2014 Size of location after interim reclamation in acres: 1.00
Estimated post-construction ground elevation: 4729

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: Land application

Cutting Disposal: OFFSITE Cuttings Disposal Method: Centralized E&P WMF

Other Disposal Description:

Centralized E&P WMF or Land application.

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: Big Thompson Invest. Hold

Phone: 970-797-2187

Address: 2850 McClelland Drive, Suite 2400

Fax: 970-692-8342

Address: _____

Email: _____

City: Fort Collins State: CO Zip: 80527

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: No

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 03/06/2014

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: 866 Feet
Building Unit: 1133 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 1138 Feet
Above Ground Utility: 1121 Feet
Railroad: 1675 Feet
Property Line: 190 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: _____

NRCS Map Unit Name: _____

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: 674 Feet

water well: 1005 Feet

Estimated depth to ground water at Oil and Gas Location 17 Feet

Basis for depth to groundwater and sensitive area determination:

The Triton #1 is a Commercial Disposal Well. There is no Mineral Lease because there are no minerals associated with this well. Ground water levels determined from the Nearest Water Well - Permit #64229 - 1005' Southwest. Static Water Level is 17' below surface. There is a dry pond 674' West of proposed well. Land use is Industrial and the Surface Owners are the same for all of the surface involved.

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 318A

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

This is a New Submittal. Location ID 432476 needs to stay where it is located as it is tied to the Triton WSW that is operational. A Form 4 Sundry, doc# 400566404 has been submitted to move the Form 2 API# 123-37120 to this new location. Regarding Big Thompson Investment Holdings, LLC and Triton Energy - Big Thompson was the land owner at this location - now it is Triton Energy.

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

Signed: _____ Date: 03/06/2014 Email: paul.gottlob@iptenergyservices.com

Print Name: Paul Gottlob Title: Regulatory/Eng. Tech.

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: 3/25/2014

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.

COA Type

Description

	A Form 2A rather than the proposed Form 4 will be required to be submitted and approved prior to the constuction of related Oil and Gas Facilities at this location.
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Best Management Practices

No	BMP/COA Type	Description
1	Planning	It is a single-well pad located in a manner which allows for drilling while maintaining the highest distances possible from the offsetting residential areas.
2	Traffic control	Access roads. The access road will be constructed to accommodate local emergency vehicles. This road will be maintained for access at all times.
3	General Housekeeping	Fencing requirements. A permanent fencing plan will be reviewed by the surface owner, & the applicant.
4	General Housekeeping	Removal of surface trash. All trash, debris and material not intrinsic to the operation of the oil and gas facility shall be removed and legally disposed of as is applicable.
5	Material Handling and Spill Prevention	Leak Detection Plan. Pumper will visit the location daily and visually inspect all tanks and fittings for leaks. Additionally, monthly documented SPCCP inspections are conducted pursuant to 40 CFR §112.
6	Material Handling and Spill Prevention	Berm construction will not be required as there will be none on location.
7	Material Handling and Spill Prevention	Load-lines. All load-lines shall be bull-plugged or capped.
8	Noise mitigation	Lighting abatement measures shall be implemented, including the installation lighting shield devices on all of the more conspicuous lights, low density sodium lighting where practicable; and rig shrouding is not believed necessary as this is an industrial area and the only building unit within 1,000' is owned by the operator, however, at its election the operator may install temporary engineering controls consisting of perimeter sound walls shall be used on the location during drilling and completion activities to provide noise relief. Permanent equipment on location shall be muffled to reduce noise, or shall be appropriately buffered.
9	Drilling/Completion Operations	Closed Loop Drilling Systems – Pit Restrictions. Not applicable; a closed-loop system will be used for drilling.
10	Drilling/Completion Operations	Blowout preventer equipment (“BOPE”). A double ram and annular preventer will be used during drilling. At least the drilling company shall have a valid well blowout prevention certifications.
11	Drilling/Completion Operations	BOPE for well servicing operations. Adequate BOP equipment shall be used. Stabbing valves shall be installed in the event of reverse circulation and shall be prior tested with low and high pressure fluid.
12	Drilling/Completion Operations	Pit level indicators. Not applicable; a closed-loop system will be used and no pits shall be dug.
13	Drilling/Completion Operations	Drill stem tests. Not applicable; no Drill Stem tests are planned.
14	Drilling/Completion Operations	Control of fire hazards. All materials which are considered fire hazards shall be a minimum of 25' from the wellhead tanks or separators. Electrical equipment shall comply with API RP 500 and will comply with the current national electrical code. An emergency response plan has been generated for this site.
15	Drilling/Completion Operations	Guy line anchors. All guy line anchors shall be brightly marked pursuant to Rule 604.c (2)Q.
16	Final Reclamation	Well site cleared. Within 90-day subsequent to the time of plugging and abandonment of the entire site, superfluous debris and equipment shall be removed from the site.
17	Final Reclamation	Identification of plugged and abandoned wells. P&A'd wells shall be identified pursuant to 319.a.(5).
Total: 17 comment(s)		

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2086857	VARIANCE REQUEST
2167723	OTHER
2167724	WAIVERS
400563634	FORM 2A SUBMITTED
400566324	HYDROLOGY MAP
400566325	LOCATION DRAWING
400566326	LOCATION PICTURES
400566327	RULE 306.E. WAIVER
400566330	LOCATION PICTURES
400566331	LOCATION PICTURES
400566332	ACCESS ROAD MAP
400566335	REFERENCE AREA PICTURES
400566401	WASTE MANAGEMENT PLAN
400566989	HYDROLOGY MAP A, TOPO
400567760	SURFACE AGRMT/SURETY

Total Attach: 15 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	unchecked variance request checkbox, expedited approval is covered under Rule 303.i.(2).	3/25/2014 4:54:47 PM
Permit	Final review complete.	3/25/2014 10:03:05 AM
OGLA	This Form is being approved with an abbreviated public comment period per Rule 303.i.(2). Public and LGD comments waived.	3/25/2014 8:46:59 AM
Permit	Attached opr "Affidavit" as per opr.	3/20/2014 3:00:47 PM
Permit	Form has been resubmitted. Waiver letter from Weld County LGD should be emailed in the next couple of days. Passing form through completeness.	3/20/2014 12:33:17 PM
Permit	Returned to draft for operator to attach Variance Request Letter and LGD Waiver for approval without 20 day comment period per Rule 303.i.	3/17/2014 7:25:13 AM
Permit	Returned to DRAFT. Land use tab says both crop land and subdivided. Requested clarification on the subdivided statement.	3/10/2014 1:35:33 PM
Permit	Returned to draft: Is Big Thompson Investment holdings Triton Energy Services LLC. Clarification needed. This permit checked new submittal. However, a Triton Energy Triton #1 UIC permit exists in the SWNW. Location ID 432476 and API# 123-37120. This appears to be a refile to move the location. Clarification needed and comment in the permit to explain. Facility inventory must be filled out with the most expected logical list. That list can be revised on a sundry later. Current land use at this location does not appear to be industrial. List the sundry form 4 document number to relocate the form 2 well location in the related forms tab.	3/7/2014 8:51:29 AM

Total: 8 comment(s)