FORM 2A

Rev 04/18

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:

401764632

Date Received:

10/04/2018

Oil and Gas	s Location	Accoccm	ani
UII ANO (58)	s Location	Assessiii	em

New Location Refile Amend Existing Location Location Location New Location Location New Location Location Location Location New Location Location New Location	cation#:	10/04/2018		
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:				
☐ 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	Contact Information			
Operator Number: 26580	Name: Liang Yu			
Name: BURLINGTON RESOURCES OIL & GAS LP	Phone: (832) 486 6014			
Address: 600 N DAIRY ASHFORD RD	Fax: ()			
City: HOUSTON State: TX Zip: 77079	email: liang.yu@conoco	phillips.com		
FINANCIAL ASSURANCE Plugging and Abandonment Bond Surety ID (Rule 706): 19920030 Waste Management Surety ID (Rule 704):	Gas Facility Surety ID (Rul	e 711):		
LOCATION IDENTIFICATION				
Name: Rush 4-65 29-30 Num	nber: 1AH Pad			
County: ARAPAHOE				
QuarterQuarter: SWNW Section: 28 Township: 4S Range:	65W Meridian: 6	Ground Elevation: 5648		
Define a single point as a location reference for the facility location. When the I a well location.	ocation is to be used as a well s	ite then the point shall be		
Footage at surface: 2252 feet FNL from North or South section line				
_621 feet FWL from East or West section line				
Latitude: 39.675858 Longitude: -104.676339				
PDOP Reading: 1.6 Date of Measurement: 04/30/2018				
Instrument Operator's Name: Aaron Rivera				

(Enter as many Related Locations as necessary. Enter	the Form 2A docum	ent # only if there is no es	tablished COGCC Location ID#)
This proposed Oil and Gas Location is:	LOCATION ID #	FORM 2A DOC #	tablished COGCC Location 1D#)
FACILITIES			
Indicate the number of each type of oil and gas facility	planned on location		
Wells 8 Oil Tanks* 3	Condensate Tanks*	Water Tanks* 3	Buried Produced Water Vaults*
Drilling Pits Production Pits*	Special Purpose Pits	Multi-Well Pits*	Modular Large Volume Tanks
Pump Jacks 8 Separators* 2	Injection Pumps*	Cavity Pumps*	Gas Compressors*
Gas or Diesel Motors* Electric Motors	Electric Generators*	1 Fuel Tanks*	LACT Unit*
Dehydrator Units* Vapor Recovery Unit* 2	VOC Combustor*	1 Flare* 1	Pigging Station*
OTHER FACILITIES*			
Other Facility Type		<u>Number</u>	
Bulk Treater		2	
Combustor KO Drum		2	
Flare KO Drum		1	
Gas Meter		2	
IA Compressor		1	
Production Unit		1	
Recycle Pump		1	
Transformer		1	
Valve Manifold		1	
VRT		1	
Those facilities indicated by an asterisk () shall be us cultural feature on the Cultural Setbacks Tab.	ed to determine the	distance from the Producti	on Facility to the nearest
Per Rule 303.b.(3)C, description of all oil, gas, and/or v	vater pipelines:		
Future pipelines will consist of 4" Carbon Steel Gas The equipment indicated above may be installed for		Steel Liquid Pipeline, 4" Co	omposite Water Pipeline.
CONSTRUCTION			
Date planned to commence construction: 07/13	/2019 Size	e of disturbed area durin	ng construction in acres: 15.2
-Estimated date that interim reclamation will begin			
Estimated post-construction ground elevation: _ 5			
DRILLING PROGRAM			
Will a closed loop system be used for drilling fluid	s: Yes		
Is H ₂ S anticipated? No			
Will salt sections be encountered during drilling:	No		
Will salt sections be encountered during drilling:_ Will salt based mud (>15,000 ppm Cl) be used? Will oil based drilling fluids be used? Yes	No No		

DRILLING WASTE M	MANAGEMENT PRO	GRAM		
Drilling Fluids Disposal:	OFFSITE	Drilling Fluids Disposal Met	hod: Recycle/reuse	
Cutting Disposal:	OFFSITE	Cuttings Disposal Met	hod: Commercial Disposal	
Other Disposal Description	on:			
Drilling cuttings will be to	aken by a certified transpor	t company and disposed of at a ce	rtified facility.	
Beneficial reuse or land a	application plan submitte	d?		<u> </u>
Reuse Facility ID:	or Docume	nt Number:		
Centralized E&P Waste N				
SURFACE & MINER	ALS & RIGHT TO C	ONSTRUCT		
Name: Coal C	Creek Res. Prtnrshp.	Phone:		
Address: 3033 B	E 1st Ave Suite 725	Fax:		
Address:		Email:		
City: Denver		80206		
Surface Owner:		Federal Indian		
Check all that apply. The	e Surface Owner: 🔲 is	the mineral owner		
	is	committed to an oil and Gas L	ease	
		as signed the Oil and Gas Leas the applicant	se	
The Mineral Owner benea	ath this Oil and Gas Loc	ation is: 🗵 Fee 🔲 State	Federal Indian	
The Minerals beneath this	s Oil and Gas Location v	vill be developed from or produc	ced to this Oil and Gas Location	on: No
		granted by: Surface Use Agree		
		place:		
Date of Rule 306 surface		1/25/2017		
CURRENT AND FUT	URE LAND USE			
Current Land Use (C	heck all that apply):			
Crop Land: 📘 Iri	rigated 🗵 Dry land	Improved Pasture	Hay Meadow CR	P
Non-Crop Land:	angeland Timber	Recreational	Other (describe):	
Subdivided: In	dustrial Comme	rcial Residential		
Future Land Use (Ch	neck all that apply):			
Crop Land: 📘 Iri	rigated 🗵 Dry land	Improved Pasture	Hay Meadow CR	Р
Non-Crop Land: R	angeland 🔲 Timber	Recreational	Other (describe):	
Subdivided: 🔲 In	dustrial Comme	rcial 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:	1037	Feet	1126	Feet
Building Unit:	1190	Feet	1323	Feet
High Occupancy Building Unit:	5280	Feet	5280	Feet
Designated Outside Activity Area:	5280	Feet	5280	Feet
Public Road:	2243	Feet	2287	Feet
Above Ground Utility:	1335	Feet	1484	Feet
Railroad:	5280	Feet	5280	Feet
Property Line:	5	Feet	127	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
- 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 FACILTIES WITHIN DESIGNATED SETBACK LOCATIONS ONLY:

- Check this box if this Oil and Gas Location has or will have Production Facilities that serve multiple wells (onll 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: BxC - Buick loam, 3 to 5 percent slopes

NRCS Map Unit Name: RhD - Renohill-Buick loams, 3 to 9 percent slopes

NRCS Map Unit Name:

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 X Yes				
Distance to nearest				
downgradient surface water feature:0 Feet				
water well: 654 Feet				
Estimated depth to ground water at Oil and Gas Location102 Feet				
Basis for depth to groundwater and sensitive area determination:				
Location is sensitive due to proximity of ditch and floodplain. Depth to groundwater taken from water well permit #120499 Location is adjacent to, but not in floodplain.				
Is the location in a riparian area: ☒ No ☐ Yes				
Was an Army Corps of Engineers Section 404 permit filed 区 No ☐ Yes If yes attach permit.				
Is the location within a Rule 317B Surface Water Supply Area buffer No				
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 Roughlain? Floodplain Data Sources Reviewed (check all that apply)				
⊠ Federal (FEMA)				
County County				
Local				
☐ Other				
GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING Water well sampling required per Rule 609				
water wen sampling required per reduce				

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This k	ocation is included in a Wildlife Miti	nation	Plan
	ocation was subject to a pre-consul	_	
	Proposed Wildlife BMPs		
DESIGNA [*]	TED SETBACK LOCATION EX	CEPTI	ONS
Check all tha	t apply:		
1	4.b.(1)A. Exception Location (existing		ding Unit) and is in an Urban Mitigation Area
	4.b.(1)B. Exception Location (existing ction after Location approval)	or appro	ved Oil & Gas Location is within a Designated Setback due to Building Unit
Rule 60	4.b.(2) Exception Location (SUA or site	e-specif	c development plan executed on or before August 1, 2013)
	4.b.(3) Exception Location (Building Unment plan)	nits con	structed after August 1, 2013 within setback per an SUA or site-specific
RULE 502	b VARIANCE REQUEST		
Rule 50	2.b. Variance Request from COGCC F	Rule or S	spacing Order Number
	ons and variances require attached Retifications, SUAs).	quest L	etter(s). Refer to applicable rule for additional required attachments (e.g.
OPERATO	R COMMENTS AND SUBMITT	AL	
Comments	operations in order to minimize or elin appropriate, and subject to prior Cour bentonite or a similar clay additive is ustorage pits in order to minimize the transport to subsection. Permitted modified closed through the surface casing interval, do system is used for the remainder of the as lined, engineered pits, constructed	ninate that the street of the	ize closed-loop or modified closed-loop systems for drilling and completion le need for earthen pits; however, notwithstanding the foregoing, where eval, the County generally supports: 1) the use of unlined drilling pits when ring the drilling process, and 2) the use of lined single- or multi-well water of water and promote recycling, subject to the requirements set forth in this extems include oil and gas wells where air or fresh water is used to drill is fifty (50) feet below the depth of the deepest aquifer, and a closed loop grand/or completion or recompletion procedures. Multi-well pits are defined engineered base, with construction or liner specifications meeting or list serve the functions of drilling, completion, and/or flowback pits for more
I hereby co	ertify that the statements made in t		n are, to the best of my knowledge, true, correct and complete. 10/04/2018 Email: regulatory@ascentgeomatics.com
Print Name	e: Justin Garrett	Title:	Regulatory Analyst
Based on the	ne information provided herein, this App by approved.	olication	for Permit-to-Drill complies with COGCC Rules and applicable orders
COGCC Ap	proved:		Director of COGCC Date:
constitu	sentations, stipulations and conteres terms and conteres and content and conte	ditions	litions Of Approval s of approval stated in this Form 2A for this location shall nditions of approval for any and all subsequent operations on Sundry Notice, Form 4 or an Amended Form 2A.
COA Type	Description		
	-		
,	1		

Total: 2 comment(s)

Attachment Check List

<u>Name</u>
FORM 2A SUBMITTED
LOCATION PICTURES
MULTI-WELL PLAN
NRCS MAP UNIT DESC
NRCS MAP UNIT DESC
SURFACE AGRMT/SURETY
HYDROLOGY MAP
LOCATION DRAWING
ACCESS ROAD MAP
OTHER

Total Attach: 10 Files

General Comments

<u>User Group</u>	Comment	Comment Date
		Stamp Upon Approval

Total: 0 comment(s)

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Public Comments			
No public comments were rece	eived on this application during the comment period.		