

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:

400846279

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Date Received:

06/05/2015

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:

**442674**

Expiration Date:

**07/30/2018**

☒ 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: 6720

Name: BAYLESS PRODUCER LLC\* ROBERT L

Address: 621 17TH ST STE 2300

City: DENVER State: CO Zip: 80293

Contact Information

Name: Kimberly J. Rodell

Phone: (303) 942-0506

Fax: ( )

email: krodell@upstreampm.com

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 19840003 ☐ Gas Facility Surety ID: \_\_\_\_\_

☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Foster State Number: 1

County: MOFFAT

QuarterQuarter: SWNE Section: 16 Township: 4N Range: 91W Meridian: 6 Ground Elevation: 6806

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: 1952 feet FNL from North or South section line

2272 feet FEL from East or West section line

Latitude: 40.322050 Longitude: -107.613525

PDOP Reading: 1.7 Date of Measurement: 05/12/2015

Instrument Operator's Name: K.G. Stewart

## 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	1	Oil Tanks*	3	Condensate Tanks*		Water Tanks*	1	Buried Produced Water Vaults*	
Drilling Pits		Production Pits*		Special Purpose Pits		Multi-Well Pits*		Modular Large Volume Tanks	
Pump Jacks	1	Separators*	1	Injection Pumps*		Cavity Pumps*		Gas Compressors*	
Gas or Diesel Motors*		Electric Motors		Electric Generators*	1	Fuel Tanks*	1	LACT Unit*	
Dehydrator Units*		Vapor Recovery Unit*		VOC Combustor*		Flare*	1	Pigging Station*	

## OTHER FACILITIES\*

Other Facility Type

Number

Meter House	1
Heater	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:

There will be no take away oil, gas, and/or water pipelines. All production will be on lease. Flowlines from wellhead to separator and then to the tanks with be 2" steel buried approximately 4 feet below grade.

## CONSTRUCTION

Date planned to commence construction: 08/03/2015 Size of disturbed area during construction in acres: 3.12

Estimated date that interim reclamation will begin: 01/15/2016 Size of location after interim reclamation in acres: 1.33

Estimated post-construction ground elevation: 6806

## DRILLING PROGRAM

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

Is H<sub>2</sub>S 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: Land application

Cutting Disposal: ONSITE

Cuttings Disposal Method: Other

Other Disposal Description:

If cuttings meet Table 910-1 standards, they will be treated as soil, stockpiled on location and placed into the cut or trench or at another location as approved by COGCC Sundry Form 4. Cuttings may also be disposed offsite at an authorized facility.

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: Colorado State Land Board

Phone: 303-866-3454

Address: 1127 Sherman #300

Fax: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

City: Denver State: CO Zip: 80203

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: \_\_\_\_\_ Surface Surety ID: \_\_\_\_\_

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:	4348 Feet	4348 Feet
Building Unit:	4348 Feet	4348 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	4093 Feet	4109 Feet
Above Ground Utility:	4230 Feet	4348 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	1952 Feet	2072 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.

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 (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 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: Cochetopa Loam, 12-15% Map Symbol 37

NRCS Map Unit Name: Hesperus Fine Sandy Loam, 2-15% Map Symbol 99

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: Slender wheatgrass, Mountain big sagebrush, Letterman's needlegrass, Miscellaneous perennial grasses, Miscellaneous shrubs, Nodding brome, Miscellaneous perennial forbs, Mountain brome, Elk sedge, Mountain snowberry, western wheatgrass

### 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: 134 Feet

water well: 5773 Feet

Estimated depth to ground water at Oil and Gas Location 80 Feet

Basis for depth to groundwater and sensitive area determination:

Estimated depth to ground water was taken from Water Well Permit # 106509 located in T5N R91W Sec. 33 NESW.

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 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: 06/05/2015 Email: [krodell@upstreampm.com](mailto:krodell@upstreampm.com)

Print Name: Kimberly J. Rodell Title: Permit Agent

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: 7/31/2015

#### **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
	<p>Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, pipeline (flowline) testing, start of hydraulic stimulation operations, and start of flowback operations (if different than stimulation) using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p>
	<p>Operator must ensure secondary containment for any volume of fluids contained at well site during drilling and completion operations (as shown on the Construction Layout Drawings); including, but not limited to, construction of a berm or diversion dike, diversion/collection trenches within and/or outside of berms/dikes, site grading, or other comparable measures (i.e., best management practices (BMPs) associated with stormwater management) sufficiently protective of nearby surface water. Any berm constructed at the well pad location will be stabilized, inspected at regular intervals (at least every 14 days per CDPHE requirements and after precipitation events), and maintained in good condition.</p> <p>The access road will be constructed and maintained as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water.</p> <p>Strategically apply fugitive dust control measures, including enforcing established speed limits on private roads, to reduce fugitive dust and coating of vegetation and deposition in water sources.</p> <p>Berms or other containment devices shall be constructed to be sufficiently impervious (preferably corrugated steel with poly liner) to contain any spilled or released material around permanent crude oil, condensate, and produced water storage tanks.</p>
	<p>The moisture content of drill cuttings managed onsite shall be kept as low as practicable to prevent accumulation of liquids greater than de minimis amounts. After drilling and completion operations have been completed, the drill cuttings that will remain on the well pad location (cuttings management area, the cut portion of the pad, cuttings trench, dry cuttings drilling pit), must meet the applicable standards of Table 910-1. After the drill cuttings have been amended (if necessary) and placed on the well pad, sampling frequency of the drill cuttings (to be determined by the operator) shall be representative of the material left on location. No offsite disposal of cuttings to another oil and gas location shall occur without prior approval of a Waste Management Plan (submitted via a Form 4 Sundry Notice) specifying disposal location and waste characterization method. Commercial disposal of drill cuttings will only require notification to COGCC via a Form 4 Sundry Notice.</p> <p>Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permitted has been submitted/approved) located on the well pad; or into tanker trucks for offsite disposal. The flowback and stimulation fluid tanks, separators, or other containment/filtering equipment must be placed on the well pad in an area constructed to be sufficiently impervious to contain any spilled or released material.</p> <p>Potential odors associated with the completions process and/or with long term production operations must be controlled/mitigated.</p>
	<p>Operator shall pressure test pipelines (flowlines) in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines/flowlines and following any reconfiguration of the pipeline network.</p>

## Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Wildlife	1. Conduct oil and gas activities outside the time period from December 1 through April 15 to help reduce behavioral impacts to elk and deer that use this area during winter. AGREE 3. Conduct construction, drilling and completion activities outside of the 2nd and 3rd rifle big game seasons. AGREE 4. Restrict post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to April 15 to help reduce behavioral impacts to elk and deer that use this area during winter. AGREE 5. Muffle or otherwise control exhaust noise from pump jacks and compressors so that operational noise will not exceed 49 dB measured at 30 feet from the edge of the well pad. AGREE 6. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads. AGREE 7. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1. AGREE 8. The operator will use exclusionary (wildlife and livestock) fencing to protect reclaimed areas until vegetation is established. AGREE

Total: 1 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2107631	OPERATOR CORRESPONDENCE
2107632	STATE LAND BOARD CORRESPONDENCE
400846279	FORM 2A SUBMITTED
400849202	CONST. LAYOUT DRAWINGS
400849203	NRCS MAP UNIT DESC
400849212	HYDROLOGY MAP
400849218	LOCATION PICTURES
400849219	REFERENCE AREA MAP
400849222	REFERENCE AREA PICTURES
400849223	FACILITY LAYOUT DRAWING
400849225	LOCATION DRAWING
400849226	WASTE MANAGEMENT PLAN
400849307	ACCESS ROAD MAP

Total Attach: 13 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review complete.	7/31/2015 8:47:58 AM



	<p>Pad location: Foster State 1, T4N, R91W, Section 16 (40.322050, -107.613525) Document #: 400846279</p> <p>Wildlife concerns: The proposed pad location falls within an area that is classified by CPW as Elk Winter Concentration Area habitat and Mule deer Critical Winter Range. The surface owner at the proposed site is the State Land Board, and the property is currently enrolled in the public access program. This area is a popular hunting destination for both in-State and out-of-State deer and elk hunters. Most of the public hunters hunt the 2nd and 3rd rifle seasons. The onsite for this location was conducted on 7/10/15, and CPW staff attended the onsite. There is an existing well pad that is approximately 100 yards from the proposed well pad. The existing location has one producing well on it. CPW recommends the following site-specific mitigation:</p> <ol style="list-style-type: none"> <li>1. Conduct oil and gas activities outside the time period from December 1 through April 15 to help reduce behavioral impacts to elk and deer that use this area during winter.</li> <li>2. If possible, drill the proposed well from the existing Bayless pad location that is approximately 100 yards from the proposed well pad.</li> <li>3. Conduct construction, drilling and completion activities outside of the 2nd and 3rd rifle big game seasons.</li> <li>4. Restrict post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to April 15 to help reduce behavioral impacts to elk and deer that use this area during winter.</li> <li>5. Muffle or otherwise control exhaust noise from pump jacks and compressors so that operational noise will not exceed 49 dB measured at 30 feet from the edge of the well pad.</li> <li>6. Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.</li> <li>7. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.</li> <li>8. The operator will use exclusionary (wildlife and livestock) fencing to protect reclaimed areas until vegetation is established.</li> </ol> <p>BRETT SMITHERS, 11:52 07/29/15.</p>	<p>7/30/2015 2:00:17 PM</p>
OGLA	<p>Initiated/Completed OGLA Form 2A review on 07-30-15 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, flowback to tanks only, cuttings low moisture content, notification, tank berming, sediment control, dust control, odor control, cuttings management, and pipeline (flowline) testing COAs from operator on 07-30-15; received acknowledgement of COAs from operator on 07-30-15; waived by CPW on 07-26-15; COGCC requested acknowledgement of CPW recommended BMPs, December 1 to April 15 timing limitation, 2nd and 3rd hunting season timing limitation, limit post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to April 15, minimize wildlife mortality from vehicle collisions on roads, and install and utilize bear-proof dumpsters; received acknowledgement of wildlife BMPs from operator on 07-30-15; COGCC/Operator/CPW attended an onsite at this proposed location on July 10, 2015 to discuss wildlife issues and concerns; corrected distance from WELL to PROPERTY LINE (from 2099' to 1952') and from PRODUCTION FACILITY to PROPERTY LINE (from 2099' to 2072') per operator based on Well Location Plat and Facility Layout Drawing; corrected distance from PRODUCTION FACILITY to PUBLIC ROAD (from 1791' to 4109') per operator based on Facility Layout Drawing and COGCC's Online GIS Map; passed OGLA Form 2A review on 07-31-15 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks only, cuttings low moisture content, notification, tank berming, sediment control, dust control, odor control, cuttings management, and pipeline (flowline) testing COAs.</p>	<p>7/30/2015 1:25:54 PM</p>
Permit	Ready to pass.	<p>6/26/2015 3:14:29 PM</p>
Permit	Passed completeness.	<p>6/15/2015 2:19:04 PM</p>
Permit	<p>Returned to draft. Construction Layout Drawing attachment is incomplete.</p>	<p>6/11/2015 6:57:46 AM</p>
Total: 6 comment(s)		