

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:

401342236

Date Received:

07/17/2017

Oil and Gas Location Assessment

New Location Refile Amend Existing Location Location#: 311891

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:

311891

Expiration Date:

09/19/2020

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: 10464
 Name: CATAMOUNT ENERGY PARTNERS LLC
 Address: 1801 BROADWAY #1000
 City: DENVER State: CO Zip: 80202

Contact Information

Name: Nolan Redmond
 Phone: (720) 484-2347
 Fax: (720) 484-2363
 email: nredmond@catamountep.com

RECLAMATION FINANCIAL ASSURANCE

- Plugging and Abandonment Bond Surety ID: 20160137 Gas Facility Surety ID: _____
- Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: CRIEGLER Number: N33N8W 21NWNE
 LA PLATA
 County: _____
 Quarter: NWNE Section: 21 Township: 33N Range: 8W Meridian: N Ground Elevation: 6786

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: 1188 feet FNL from North or South section line
 1485 feet FEL from East or West section line

Latitude: 37.093531 Longitude: -107.718860
 PDOP Reading: 1.8 Date of Measurement: 06/26/2017
 Instrument Operator's Name: Nelson Ross

DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: OFFSITE Drilling Fluids Disposal Method: Commercial Disposal

Cutting Disposal: OFFSITE Cuttings Disposal Method: Commercial Disposal

Other Disposal Description:

Beneficial reuse or land application plan submitted?

Reuse Facility ID: or Document Number:

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

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Bert & Dee Lacombe

Phone:

Address: PO Box 819

Fax:

Address:

Email:

City: Ignacio State: CO Zip: 81137

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

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:	438 Feet	285 Feet
Building Unit:	468 Feet	316 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	1162 Feet	1240 Feet
Above Ground Utility:	665 Feet	751 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	152 Feet	32 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: 06/24/2017

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.

One (1) new well will be located on an existing pad built in 2005 with two (2) producing wells; no new disturbance is planned. Existing production facilities and flowlines on the existing pad are planned to be left in place due to technical concerns, economic concerns, and in order to minimize time spent on location. Existing pipelines will be used and no new facilities will be built closer to a Building Unit than the ones already in place.

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: 14 - Bodot clay, 3 to 10 percent slopes.

NRCS Map Unit Name: 5 - Arboles clay, 3 to 12 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: Pinyon, juniperbig sagebrush, bitterbrush, blue grama, western wheatgrass, junegrass, indian ricegrass

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: 421 Feet

water well: 791 Feet

Estimated depth to ground water at Oil and Gas Location 140 Feet

Basis for depth to groundwater and sensitive area determination:

Depth to static water level in two close water wells

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 608

WILDLIFE

This location is included in a Wildlife Mitigation Plan

This location was subject to a pre-consultation meeting with CPW held on 07/27/2017

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: 07/17/2017 Email: nredmond@catamountep.com

Print Name: Nolan Redmond Title: Geo/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:  Director of COGCC Date: 9/20/2017

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.

COA Type	Description
	In addition to the notifications required by COGCC listed in Rule 316C. COGCC Form 42. FIELD OPERATIONS NOTICE (a. Notice of Intent to Conduct Hydraulic Fracturing Treatment; b. Notice of Spud; and c. Notice of Construction or Major Change); operator shall notify the COGCC 48 hours prior to pipeline testing (flowlines from wellheads to separators to tanks) using the Form 42 (as described in Rule 316C.m. Notice of Completion of Form 2/2A Permit Conditions). The appropriate COGCC individuals will automatically be email notified.
	Operator must ensure secondary containment for any volume of fluids contained at the well site during drilling and completion operations. Based on the recent onsite (07-27-17) conducted by COGCC, CPW, and the operator, additional stormwater controls will be required for the existing well pad area of this oil and gas location. The access road will be maintained as to not allow any sediment to migrate from the access road to nearby surface water or any drainages leading to surface water. Strategically apply fugitive dust control measures to reduce fugitive dust and coating of vegetation and deposition in water sources. Berms or other containment devices constructed around permanent produced water storage tanks shall be sufficiently impervious to contain any spilled or released material.
	The moisture content of any cuttings in a cuttings trench or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. Flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline or storage vessel 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. Potential odors associated with the completions process and/or with long term production operations must be controlled/mitigated.
	Operator shall pressure test pipelines (flowlines from wellheads to separators to tanks in accordance with Rule 1101.e.(1) prior to putting into initial service any temporary surface or permanent buried pipelines and following any reconfiguration of the pipeline network, and tested annually, unless agreed to by both parties that the flowlines can be managed under an approved COGCC variance.

Best Management Practices

No	BMP/COA Type	Description
1	Dust control	Dust control methods including enforcing established speed limits on private roads and watering the roads (when permitted by landowner) and location when conditions are dry shall be employed.
2	Construction	Facilities will be painted with uniform, non-contrasting, non-reflective color tones slightly darker than the adjacent landscape.
3	Noise mitigation	Catamount will attempt to electrify the facility if feasible. If Catamount is unable to electrify the facility, hospital grade mufflers will be used and sound walls will be installed if necessary.
4	Odor mitigation	Operator will regulate odors in accordance with COGCC Rule 805.

5	Drilling/Completion Operations	<p>Rule 604.c.(2) Mitigation Measures for the IGS 148; NENE Sec 21 T33N R8W; La Plata County, Colorado</p> <p>A.) Noise - Sound mitigation will be used around the pump jacks and/or production equipment if necessary in order to comply with the residential/agricultural/rural requirements in Rule 802. Drilling, completion, workover, and construction operations will also comply with Rule 802.</p> <p>B.) Closed Loop Drilling Systems - A closed loop drilling system will be used. No pits are planned.</p> <p>C.) Green Completions - Emission Control Systems; Pipelines and production equipment, including burning flares, capable of supporting green completions will be used.</p> <p>D.) Traffic Plan - Access is from La Plata County Road 318. Operator will comply with any La Plata County traffic control measures required for this well. Access road will be maintained for all weather use and be able to accommodate local emergency vehicle access requirements.</p> <p>E.) Multiwell Pads - One additional well will be drilled from the existing pad in the NWNE of Sec 21 T33N R8W. No additional disturbance is planned..</p> <p>F.) Leak Detection Plan - Pipelines will be pressure tested prior to use and wells will be monitored daily.</p> <p>G.) Berm Construction - Secondary containment berms with poly liner will be built around produced water storage tanks upon completion and will be large enough to contain 150% of the largest single tank. It will be inspected regularly and maintained in good condition.</p> <p>H.) Blowout Preventer Equipment (BOPE) - BOPE equipment will consist of a double ram with blind ram and pipe ram.</p> <p>I.) BOPE Testing for Drilling Operations - BOPE will be pressured tested upon initial rig up and at least once every 30 days during drilling operations.</p> <p>J.) BOPE for Well Servicing Operations - Adequate blowout prevention equipment will be used on all well servicing operations.</p> <p>K.) Pit level Indicators – No pits are planned for this location; however, if it becomes necessary to construct a pi, pit level indicators will be used.</p> <p>L.) Drill Stem Tests - No drill stem tests will be performed.</p> <p>M.) Fencing requirements - Fencing will be placed around all equipment with moving parts and will be designed and constructed to keep wildlife away from the equipment.</p> <p>N.) Control of Fire Hazards - Any material not in use that might constitute a fire hazard shall be removed a minimum of 25 feet from the wellhead, tanks, and separators. Any electrical equipment installations inside the bermed area shall comply with API RP 500 classifications and comply with the current national electrical code as adopted by the State of Colorado.</p> <p>O.) Loadlines - Loadlines will be bullplugged or capped.</p> <p>P.) Removal of Surface Trash - All surface trash, debris, scrap or discarded material connected with the operations of the property will be removed from the premises and disposed of in a legal manner.</p> <p>Q. Guy Line Anchors - Guy line anchors will be identified by a marker of bright color not less than 4 feet in height and not greater than one foot east of the guy line anchor.</p> <p>R.) Tank Specifications - No crude oil or condensate storage tanks will be used.</p> <p>S.) Access Roads - Access road will maintained for all weather use and be able to accommodate local emergency vehicle access requirements.</p> <p>T.) Well Site Cleared - Within 90 days after the wells are plugged and abandoned the well site shall be cleared of all nonessential equipment, trash, and debris.</p> <p>U.) Identification of Plugged and Abandoned Wells - Upon plugging and abandoning the well the location of the wellbore shall be marked with a permanent monument as specified in Rule 319.a(5).</p> <p>V.) Development from Existing Well Pads - The additional wells will be drilled from an existing pad with no new disturbance.</p>
6	Drilling/Completion Operations	A closed loop system will be used so no drilling pits will be necessary.
7	Drilling/Completion Operations	Lighting will be directed downward and inward to the greatest extent practicable during drilling and completion operations. No permanent lighting is anticipated.

8	CPW-Wildlife - Minimization-Bald Eagle	If new oil and gas operations must occur between December 15 and July 31, operator will conduct a pre-construction raptor nest survey to determine the presence/absence of active bald or golden eagle nests within 0.5 miles of the well location. If an active nest is identified, operator will preclude new oil and gas operations from December 15 to July 31 annually. This does not apply to existing production operations.
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Total: 8 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
2108201	NRCS MAP UNIT DESC
2108202	CORRESPONDENCE
401342236	FORM 2A SUBMITTED
401342758	CONST. LAYOUT DRAWINGS
401342761	ACCESS ROAD MAP
401342766	CONST. LAYOUT DRAWINGS
401342768	LOCATION PICTURES
401342772	NRCS MAP UNIT DESC
401344140	MULTI-WELL PLAN
401344201	SURFACE AGRMT/SURETY
401344204	WAIVERS
401344287	REFERENCE AREA MAP
401344291	REFERENCE AREA PICTURES
401344374	FACILITY LAYOUT DRAWING
401344421	LOCATION DRAWING
401344445	HYDROLOGY MAP
401354456	WASTE MANAGEMENT PLAN

Total Attach: 17 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed.	09/11/2017
Permit	Per operator, slight correction to cultural distance from wellhead to nearest property line from 155' to 152'.	09/11/2017
OGLA	<p>07-27-17 - Conducted Wildlife Consultation with operator, COGCC, and CPW;</p> <p>08-29-17 - Initiated / Completed OGLA Form 2A review by Dave Kubeczko;</p> <p>08-29-17 - requested acknowledgement of notification, fluid containment, spill/release BMPs, sediment and dust control access road, flowback to tanks, tank berming, odor control, cuttings low moisture/management, and pipeline testing COAs from operator;</p> <p>08-29-17 - passed by CPW with recommendation for a raptor survey if well is not drilled in 2017;</p> <p>08-30-17 - received verbal acknowledgement/concurrence of COAs and wildlife BMP from operator;</p> <p>08-30-17 - revised: Date planned to commence construction: from 09/01/2017 to 09/11/2017 and Estimated date that interim reclamation will begin: from 09/15/2017 to 10/16/2017;</p> <p>08-31-17 - passed OGLA Form 2A review by Dave Kubeczko waiting on NRCS Map Unit Description attachment (placed "ON HOLD"); with notification, fluid containment, spill/release BMPs, sediment and dust control access road, flowback to tanks, tank berming, odor control, cuttings low moisture, and pipeline testing COAs.</p> <p>09-07-17 - received NRCS Map Unit Description attachment from operator; placed permit back "IN PROCESS".</p>	08/29/2017
DOW	<p>CPW, COGCC, and Catamount conducted an onsite of the proposed location on 7/27/2017. The proposed well is located on an existing pad with no proposed additional surface disturbances. Catamount indicated that they would not be drilling in the winter and that they wanted to drill this well as soon as possible.</p> <p>CPW recommends that if the operator elects to wait to drill this location after December 15, 2017, then the operator should conduct a pre-construction raptor nest survey as outlined on the Wildlife BMP tab.</p> <p>This survey is needed as suitable nesting sites for raptors existing within a 1/2 mile of the proposed location. If a new raptor nest is found during the survey CPW recommends that the operator follow CPWs Raptor Nest Buffer Guidelines to avoid disturbing nesting raptors.</p>	08/15/2017
Permit	Passed Completeness.	08/04/2017
OGLA	Passed Buffer Zone completeness review.	07/27/2017
Permit	Referred to OGLA Supervisor for buffer zone review.	07/27/2017
OGLA	Did not pass Buffer Zone completeness review. Waste Management Plan is required per Rule 303.b.(3)J, nuisance mitigation measures for dust, odors, lights are missing, post construction elevation is incorrect. Contact operator and push to Draft	07/24/2017
Permit	Referred to OGLA Supervisor for buffer zone review.	07/18/2017

Total: 9 comment(s)