

FORM
2A

Rev
04/01

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

2588749

Date Received:

09/26/2011

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 316789

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations. This Assessment may be approved as a standalone application or submitted as an informational report accompanying an Application for Permit-To-Drill, Form 2. Approval of this 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. This form may serve as notice to land owners and other interested parties, please see the COGCC web site at <http://colorado.gov/cogcc/> for all accompanying information pertinent to this Oil and Gas Location Assessment.

Location ID:

316789

Expiration Date:

03/11/2015

This location assessment is included as part of a permit application.

1. 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.

2. Operator

Operator Number: 10347
 Name: CONTINENTAL RESOURCES INC
 Address: PO BOX 1032
 City: ENID State: OK Zip: 73703

3. Contact Information

Name: ALAN MCNALLY
 Phone: (580) 233-8955
 Fax: (580) 548-5253
 email: ALANMCNALLY@CONTRES.COM

4. Location Identification:

Name: PEILTIER Number: 1-11H
 County: ROUTT
 Quarter: SE Section: 11 Township: 6N Range: 87W Meridian: 6 Ground Elevation: 7047

Define a single point as a location reference for the facility location. This point should be used as the point of measurement in the drawings to be submitted with this application. When the location is to be used as a well site then the point shall be a well location.

Footage at surface: 1749 feet FNL, from North or South section line, and 1342 feet FWL, from East or West section line.
 Latitude: 40.494950 Longitude: -107.120082 PDOP Reading: 0.9 Date of Measurement: 09/09/2011
 Instrument Operator's Name: STEVE A LUND

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: <input type="text" value="1"/>	Drilling Pits: <input type="text"/>	Wells: <input type="text" value="1"/>	Production Pits: <input type="text"/>	Dehydrator Units: <input type="text"/>
Condensate Tanks: <input type="text"/>	Water Tanks: <input type="text" value="1"/>	Separators: <input type="text" value="1"/>	Electric Motors: <input type="text"/>	Multi-Well Pits: <input type="text"/>
Gas or Diesel Motors: <input type="text"/>	Cavity Pumps: <input type="text"/>	LACT Unit: <input type="text"/>	Pump Jacks: <input type="text" value="1"/>	Pigging Station: <input type="text"/>
Electric Generators: <input type="text"/>	Gas Pipeline: <input type="text"/>	Oil Pipeline: <input type="text"/>	Water Pipeline: <input type="text"/>	Flare: <input type="text"/>
Gas Compressors: <input type="text"/>	VOC Combustor: <input type="text" value="1"/>	Oil Tanks: <input type="text" value="3"/>	Fuel Tanks: <input type="text"/>	

Other: _____

6. Construction:

Date planned to commence construction: 11/15/2011 Size of disturbed area during construction in acres: 2.00
 Estimated date that interim reclamation will begin: 05/15/2012 Size of location after interim reclamation in acres: 1.50
 Estimated post-construction ground elevation: 7047 Will a closed loop system be used for drilling fluids: Yes
 Will salt sections be encountered during drilling: Yes No Is H2S anticipated? Yes No
 Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No
 Mud disposal: Offsite Onsite Method: Land Farming Land Spreading Disposal Facility
 Other: CUTTING DISPOSAL PIT

7. Surface Owner:

Name: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: 09/16/2011
 Surface Owner: Fee State Federal Indian
 Mineral Owner: Fee State Federal Indian
 The surface owner is: the mineral owner committed to an oil and gas lease
 is the executer of the oil and gas lease the applicant
 The right to construct the location is granted by: oil and gas lease Surface Use Agreement Right of Way
 applicant is owner
 Surface damage assurance if no agreement is in place: \$2000 \$5000 Blanket Surety ID 20100153

8. Reclamation Financial Assurance:

Well Surety ID: 20100152 Gas Facility Surety ID: _____ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
 Distance, in feet, to nearest building: 3981, public road: 3026, above ground utilit: 3056
 , railroad: 3325, property line: 1342

10. 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

11. 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

12. Soils:

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.gov/> 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: ML-Arents

NRCS Map Unit Name: 66D-Foidel loam, 15 to 25 percent slopes

NRCS Map Unit Name: X8F-Dunckley-Skyway complex, 25 to 65 percent slopes

13. 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: 08/19/2011

List individual species: EXISTING WELL PAD: PROSTRATE KNOLWEED, CURLYCUP GUMWEED, PRICKLY LETTUCE, YARROW, SAGEBRUSH, HOUNDS-TOUNGE, RABBITBRUSH, BULL THISTLE, LUPINE, CHEATFRASS, WHEATGRASS, CANADA THISTLE SURROUNDING (BRUSHY LOAM ECO, SITE DESCRIPTION) GAMBLE OAK, CHOCKCEHRRY, B

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): EXISTING WELL PAD AND ACCESS ROAD CONTAIN WEEDS, INVASIVE AND NOXIOUS SPECIES. GRAZING IN AREA FACI

14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: No Yes Was a Rule 901.e. Sensitive Areas Determination performed: No Yes

Distance (in feet) to nearest surface water: 3569, water well: 3186, depth to ground water: 120

Is the location in a riparian area: No Yes Was an Army Corps of Engineers Section 404 permit filed No Yes

Is the location within a Rule 317B Surface Water Suppl Area buffer zone:

No 0-300 ft. zone 301-500 ft. zone 501-2640 ft. 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: No Yes

15. Comments:

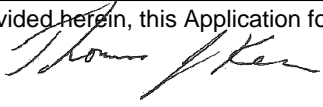
-SOILS AND PLANT COMMUNITY- BASED ON USDA-NRCS WEB SOIL DATA, THE WELL LOCATION FALLS WITHIN AN AREA OR ARENTS SOILS-RECLAIMED MINED LAND. HOWEVER, BASED ON INFORMATION GATHERED AT THE SITE AND AREIAL IMAGERY, THE WELL LOCATION FALLS EAST OF THE RECLAIMED MINED LANDS AND WITHIN AN AREA OF GAMBELS OAK AND SAGEBRUSH VEGETATION. NO INCICATION EXISTS NEAR THE WELL LOCATION THAT THE AREA HAD PREVIOUSLY BEEN MINED AND RECLAIMED.-THE CLOSEST WATER WELL IS A STOCK WELL (PERMIT # 95018), APPROXIMATELY 240 FEET DEEP, LAST STATIC WATER LEVEL MEASURED AT 120 FEET BGS.-A CLOSED LOOP DRILLING SYSTEM WILL BE USED. THE MUD AND FLUIDS WILL BE DISPOSED OFF-SITE, AND CUTTINGS WILL BE DISPOSED IN AN ON-SITE PIT.-NO VISIBLE IMPROVEMENTS WITHIN 400 FEET OF THE PROPOSED OIL AND GAS LOCAITON.-A REFERENCE AREA WILL BE SELECTED AND REFERENCE PHOTOS COLLECTED DURING THE 2012 GROWING SEASON.-NRCS SOIL REPORTS FOR THE ML (ANENTS) AND THE 66D FOLDEL LOAM WERE NOT AVAILABLE FROM THE NRCS WEBPAGE.

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

Signed: _____ Date: 09/23/2011 Email: ALAM.MCNALLY@CONTRES.COM

Print Name: ALAN MCNALLY Title: OPERATIONS MANAGER

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: 3/12/2012

CONDITIONS OF APPROVAL, IF ANY:

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.

SITE SPECIFIC COAs:

Operator must ensure secondary containment for any volume of fluids (excluding freshwater) contained at well site during drilling and completion operations; 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), and maintained in good condition.

If the well is to be hydrofraced, 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 pit 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 with additional downgradient perimeter berming. The area where flowback fluids will be stored/reused must be constructed to be sufficiently impervious to contain any spilled or released material.

The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts. At the time of closure, the drill cuttings must also meet the applicable standards of table 910-1.

Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface or buried pipelines.

Attachment Check List

Att Doc Num	Name
2034034	NRCS MAP UNIT DESC
2034168	CORRESPONDENCE
2588749	FORM 2A
2588750	LOCATION DRAWING
2588751	LOCATION PICTURES
2588752	HYDROLOGY MAP
2588753	ACCESS ROAD MAP
2588754	NRCS MAP UNIT DESC
2588755	CONST. LAYOUT DRAWINGS
2588756	PROPOSED BMPs

Total Attach: 10 Files

General Comments

User Group	Comment	Comment Date
OGLA	All LGD issues were discussed and Routt County's issues/concerns were agreed to by Continental Resources during the COGCC/Routt County/Continental Resources onsite dated October 12, 2011. COGCC rules for weeds will be enforced, access road to the site has been realigned, the site will be completely bermed and fill slopes will be reinforced, and wildlife BMPs will be followed per BMPs listed on permit. NOAV concerning existing well was settled 10/6/11 per COGCC inspector.	3/9/2012 10:21:39 AM
Permit	off hold--spacing order 535-146 approved 3/5/2012. CPW & LGD passed with Routt Co. special use permit;public comments waived. Final Comprehensive Review Status--passed.	3/7/2012 8:16:30 AM

Permit	still have APD on hold--operator advised they will apply for spacing and pooling order.	12/15/2011 9:03:36 AM
Permit	put 2A on hold; APD still waiting on BHL mineral lease info.	11/8/2011 10:46:32 AM
Permit	APD for this 2A on hold pending operator submitting documentation that he has leasehold under BHL.	10/20/2011 2:26:02 PM
DOW	The BMPs as submitted by the operator and attached to the Form 2A are appropriate to the site and species affected. Thursday, October 20, 2011 at 11:30 a.m.	10/20/2011 11:26:31 AM
LGD	A Special Use Permit will be required by Routt County for the new well. The existing well pad has not been maintained for erosion or weeds by the current operator of the Peltier 11-12. Routt County wants to see one or both of these operators work toward better maintenance of the well pad for erosion by placing berms to prohibit off site drainage. The west slope of the pad should meet BMP's for controlling erosion and a weed control program established and maintained surrounding the well pad and along the access road. This site is mapped for critical winter Mule Deer and Elk winter concentration area. The wildlife BMP's should be adhered to. Access to the site cannot be completed by large vehicles traveling east to west along US 40. All access to the site should be from the west. Safety precautions should be adhered to and during drilling operations signage and/or flagmen placed to warn the traveling public during transport of equipment and during large phase operations. CDOT should be notified and permit issued if necessary. If the well goes to production and there is continued or increased traffic at this access the applicant may have to redesign the access. This area is mapped as a high hazard area for wildfire. Safety precautions should be taken at all times. If the site is to be flared an assessment should be completed by the Routt Rural Fire District.	10/14/2011 11:33:36 AM
OGLA	Initiated/Completed OGLA Form 2A review on 10-07-11 by Dave Kubeczko; requested acknowledgement of fluid containment, spill/release BMPs, flowback to tanks, and cuttings low moisture content COAs from operator on 10-07-11; received acknowledgement of COAs from operator on 10-19-11; passed by CDOW on 10-20-11 with operator submitted (with permit application) BMPs acceptable; passed OGLA Form 2A review on 10-21-11 by Dave Kubeczko; fluid containment, spill/release BMPs, flowback to tanks, and cuttings low moisture content COAs. All LGD issues were discussed and Routt County's issues/concerns were agreed to by Continental Resources during the COGCC/Routt County/Continental Resources onsite dated October 12, 2011. COGCC rules for weeds will be enforced, access road to the site has been realigned, the site will be completely bermed and fill slopes will be reinforced, and wildlife BMPs will be followed per BMPs listed on permit. NOAV concerning existing well was settled 10/6/11 per COGCC inspector.	10/7/2011 12:01:25 PM
Permit	Operator is submitting a 1A.	9/28/2011 2:25:33 PM
Permit	Invalid plugging bond, H2S, Alan McNally is not an agent, bond and oil and gas lease for right to construct, Existing location? Left phone message 9/28/11.	9/28/2011 9:57:36 AM
Data Entry	OFF SITE AND ON SITE FOR MUD DRILLING PLANT COMMUNITY BROME, SAGEBRUSH, CERVICEBERRY, CURLY DOC, RAGWEED OTHER GRAZING IN AREA FACILITATES THE SPREADING OF THE WEEDS.	9/28/2011 9:21:01 AM

Total: 11 comment(s)

BMP

<u>Type</u>	<u>Comment</u>
Wildlife	<p>Peltier #11-12: Location SENW Section 11 6N 87W, Lat: 40.49481 Long: -107.12004, Routt County</p> <p>Site Visit 9/15/11. Present at meeting: Brad Baum representing Kleinfelder; Alan McNally, Zach Laird, Micheal D. Schooley representing Continental Resources; James Haskins representing Colorado Parks and Wildlife.</p> <p>Wildlife concern – COGCC mapped elk winter range.</p> <p>Location is on previously developed pad site. Developer, Continental Resources, plans to assess location from US Highway 40 at Mount harris through Buffalo K Ranch along previously established route. Some road maintenance will be necessary however no new road construction is anticipated. Continental plans to use a closed loop system for drilling. Present pad dimensions will be increased slightly to accommodate planned development. Continental has agreed to the following in regard to wildlife concerns:</p> <ol style="list-style-type: none">1) Where oil and gas activities must occur in elk winter range areas, conduct these activities outside the time period from December 1 through April 15.2) Restrict post-development well site visitations to between the hours of 10:00 a.m. and 3:00 p.m. and reduce well site visitations between December 1 and April 15 in elk winter range.3) Continental agrees to conduct drilling activities-re-entry for future, additional wells outside the period of December 1 to April 15.4) Establish company guidelines to minimize wildlife mortality from vehicle collisions on roads.5) Continental agrees to use hospital grade mufflers for compressors, pump jacks or other motors necessary to run operations at the site as applicable – if compressors, pump jacks, etc. are necessary. Mufflers will be pointed upward to dissipate potential vibration.6) Continental will gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife. Per landowners preference and direction.7) Avoid aggressive non-native grasses and shrubs in mule deer and elk habitat restoration. Reclaim mule deer and elk habitats with native shrubs, grasses, and forbs appropriate to the ecological site disturbed.8) If Continental does not use a closed loop system for drilling: Treat waste water pits and any associated pit containing water that provides a medium for breeding mosquitos with Bti (Bacillus thuringiensis v. israelensis) or take other effective action to control mosquito larvae that may spread West Nile Virus to wildlife, especially grouse. June through September. <p>Note: The Peltier #11-12 is located within a production area for Columbian sharp-tailed grouse (CSTG). However, based on the vegetative community at the Peltier #11-12 site, its geographical isolation from the CSTG lek in question, and personal knowledge of the area, CPW will not be recommending grouse stipulations.</p>

Total: 1 comment(s)