

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:

400862474

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Date Received:

07/23/2015

Oil and Gas Location Assessment

☐ New Location ☐ Refile ☒ Amend Existing Location Location#: 433536

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:

**433536**

Expiration Date:

**09/16/2018**

☐ 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: 47120  
Name: KERR MCGEE OIL & GAS ONSHORE LP  
Address: P O BOX 173779  
City: DENVER State: CO Zip: 80217-3779

Contact Information

Name: CRAIG RICHARDSON  
Phone: (720) 929.6092  
Fax: (720) 929.7461  
email: CRAIG.RICHARDSON@ANADAR  
KO.COM

RECLAMATION FINANCIAL ASSURANCE

☒ Plugging and Abandonment Bond Surety ID: 20010124 ☐ Gas Facility Surety ID: \_\_\_\_\_  
☐ Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: HOWARD Number: 3C-28HZ  
County: WELD  
QuarterQuarter: SESW Section: 28 Township: 1N Range: 67W Meridian: 6 Ground Elevation: 5021  
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: 246 feet FSL from North or South section line  
1882 feet FWL from East or West section line  
Latitude: 40.015501 Longitude: -104.898149  
PDOP Reading: 1.3 Date of Measurement: 02/15/2013  
Instrument Operator's Name: David MacDonald

## 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 #**

Production Facilities Location serves Well(s)

434221

## FACILITIES

Indicate the number of each type of oil and gas facility planned on location

Wells	12	Oil Tanks*		Condensate Tanks*	2	Water Tanks*	2	Buried Produced Water Vaults*	
Drilling Pits		Production Pits*		Special Purpose Pits		Multi-Well Pits*		Modular Large Volume Tanks	
Pump Jacks		Separators*	23	Injection Pumps*		Cavity Pumps*		Gas Compressors*	
Gas or Diesel Motors*		Electric Motors		Electric Generators*		Fuel Tanks*		LACT Unit*	2
Dehydrator Units*		Vapor Recovery Unit*	8	VOC Combustor*	8	Flare*		Pigging Station*	

## OTHER FACILITIES\*

**Other Facility Type**

**Number**

\*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:

## CONSTRUCTION

Date planned to commence construction: 09/04/2013 Size of disturbed area during construction in acres: 38.30

Estimated date that interim reclamation will begin: 08/01/2015 Size of location after interim reclamation in acres: 3.00

Estimated post-construction ground elevation: 5021

## DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: \_\_\_\_\_

Is H<sub>2</sub>S anticipated? \_\_\_\_\_

Will salt sections be encountered during drilling: \_\_\_\_\_

Will salt based mud (>15,000 ppm Cl) be used? \_\_\_\_\_

Will oil based drilling fluids be used? \_\_\_\_\_

## DRILLING WASTE MANAGEMENT PROGRAM

Drilling Fluids Disposal: \_\_\_\_\_

Drilling Fluids Disposal Method: \_\_\_\_\_

Cutting Disposal: \_\_\_\_\_

Cuttings Disposal Method: \_\_\_\_\_

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: D & C Farms LLLP

Phone: 303-659-0798

Address: 8709 Weld County Rd 4

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

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

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

City: Brighton State: CO Zip: 80601

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 05/31/2013

### 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:	822 Feet	61 Feet
Building Unit:	822 Feet	703 Feet
High Occupancy Building Unit:	5280 Feet	5280 Feet
Designated Outside Activity Area:	5280 Feet	5280 Feet
Public Road:	262 Feet	44 Feet
Above Ground Utility:	292 Feet	90 Feet
Railroad:	5280 Feet	5280 Feet
Property Line:	262 Feet	40 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: 07/22/2015

## 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.

Per Rule 604.b.1.A of the Colorado Oil and Gas Conservation Commission's Rules and Regulations, this location is now within the Designated Setback zone as a result of Rule 604.a.

## 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: 34-Kim Loam, 5 to 9 percent slopes

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: 7 Feet

water well: 302 Feet

Estimated depth to ground water at Oil and Gas Location 24 Feet

Basis for depth to groundwater and sensitive area determination:

Ditch: 7' N Elev: 5011'  
Ditch: 34' N Elev: 5007'  
Creek: 334' N Elev: 4996'

Nearest water wells:

302' S, Permit 219803, Depth unknown, SWL unknown, Elev 5036'  
571' WNW, Permit 18321, Depth 30' and SWL 8. Elev 5005'.

SWL calc:  $(5021 - 5005) + 8 = 24'$  (depth to water)

Please note, the hydro map was attached and analyzed during the original approval process.

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: No

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 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 2A is being amended due to the additional acreage that was disturbed outside of the original approved area. Please note, this location has already been constructed. The only attachments included are an updated location drawing, location pictures and a request letter. All other attachments will remain the same and therefore, have not been included with this permit.

Per Rule 604.b.1.A of the Colorado Oil and Gas Conservation Commission's Rules and Regulations, this location is now within the Designated Setback zone as a result of Rule 604.a. Kerr-McGee respectfully requests to waive Rule 305.a.'s pre-application notification process, please see request letter attached. Our land department has been in contact with all building unit owners within 1000' of this location to discuss the permitting activities. The communication included the extension of our location boundaries and reclamation plans.

There are 23 separators on location, facility ID # 434221 is also served by this location.

The Buffer Zone check box was left unchecked due to the fact that you are required to enter a date of notice sent to building unit owners within 500'. Without entering this date the document can not be submitted. A waiver request from rule 305.a as a result of the an existing location falling within the Designated Setback zone as a result of rule 604.a has been attached. This location was discussed with John Noto P.G. Once approved the location will be reclaimed. The adjacent land owner has been contacted. Form 2A submittal and reclamation were discussed.

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

Signed: \_\_\_\_\_ Date: 07/23/2015 Email: CRAIG.RICHARDSON@ANADARKO.COM

Print Name: CRAIG RICHARDSON Title: REGULATORY ANALYST II

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: 9/17/2015

## 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

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## Best Management Practices

### No BMP/COA Type

### Description

1	Planning	803. Lighting: Use of light supply is not anticipated at this site. If it is needed, to the extent practicable, site lighting shall be directed downward and inward and shielded so as to avoid glare on public roads and Building Units within one thousand (1000) feet.
2	Planning	No odors are anticipated during the interim reclamation process.
3	General Housekeeping	604c.(2).P. Removal of Surface Trash: A commercial size trash bin for removing debris will be located on site. This bin will be for use by all parties affiliated with the operation.
4	Dust control	805.c. Dust: Water will be placed on dirt access roads to mitigate dust as needed. If feasible, magnesium chloride will also be used as needed on access roads to further abate dust. Dust will be managed at all times.
5	Noise mitigation	604c.(2).A. Noise: Interim Reclamation of this site will began upon approval of this amended 2A application. Reclamation activities will be conducted during daylight hours reducing noise impacts to adjacent landowners. An existing berm is located along County Road 4 to serve as mitigation.

Total: 5 comment(s)

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
1668805	LOCATION DRAWING
1668807	HYDROLOGY MAP
1668808	CORRESPONDENCE
400862474	FORM 2A SUBMITTED
400866902	LOCATION PICTURES
400872261	WAIVERS
400876206	SURFACE AGRMT/SURETY

Total Attach: 7 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Completed. No LGD or public comment received.	9/16/2015 3:34:11 PM
OGLA	OGLA review is complete. No public comments received. OGLA task passed.	9/14/2015 3:01:13 PM
OGLA	Operator sent new surface water distances via email. Both surface and groundwater correspondence is attached.	9/3/2015 9:46:41 AM
OGLA	Hydrology map is not current with new disturbance area. Request from Operator a new hydrology map and surface water distances.	9/2/2015 10:57:02 AM
OGLA	Ground water distance and depth does not appear to be the best information and water wells are not represented on the location drawing. Sent email to Operator on 8/28/15 requesting information. Operator replied via email with updated groundwater informaton and a new location drawing.	9/1/2015 4:54:50 PM
Permit	Permitting Review Complete.	8/31/2015 2:12:23 PM
Permit	Passed completeness.	7/30/2015 11:12:18 AM
Permit	Returned to draft. 1.) SUA is not attached-eForm issues uploading the attachment.	7/29/2015 10:43:56 AM
Permit	Returned to draft. 1.) Map Unit Symbol is missing in the Soil & Plant tab. 2.) Right to construct is set as Surface Use Agreement, but the original approved Form 2A does not have an Surface Use Agreement attachment.	7/28/2015 1:49:28 PM
OGLA	Buffer Zone completeness review. In Buffer Zone, box should be checked, Rule 305.a.(2) notification date can be date of letter attachment with Rule 604.b.1(A) Exception Location request. Mitigation BMPs for nuisance conditions including noise, light, odors and dust need to be addressed for Rule 604.b.1(A) exception. The mitigation measures may address interim reclamation activities or, if not applicable state on a BMP. Push to Draft after review by Permitting.	7/27/2015 4:09:42 PM
Permit	Referred to OGLA for Buffer Zone review.	7/27/2015 6:53:38 AM
Permit	Returned to draft. 1.) Not marked as being in a Buffer Zone-the Cultural Distances are less than 1000' from a Building Unit.	7/24/2015 6:38:28 AM

Total: 12 comment(s)