

State of Colorado
Oil and Gas Conservation Commission1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109

Document Number:

400473840

Date Received:

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:

Expiration Date:

☒ 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: Lauren Kucera

Phone: (720) 929-6107

Fax: (720) 929-7107

email: lauren.kucera@anadarko.com

RECLAMATION FINANCIAL ASSURANCE

- ☒ Plugging and Abandonment Bond Surety ID: 20010124 ☐ Gas Facility Surety ID: _____
- ☐ Waste Management Surety ID: _____

CONSULTATION

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☒ Plugging and Abandonment Bond Surety ID: 20010124

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LOCATION IDENTIFICATION

Name: BADDING

Number: 34N-2HZ

County: WELD

QuarterQuarter: NWSW Section: 35 Township: 2N Range: 66W Meridian: 6 Ground Elevation: 5101

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: 2412 feet FSL from North or South section line

851 feet FWL from East or West section line

Latitude: 40.093918 Longitude: -104.750693

PDOP Reading: 1.7 Date of Measurement: 06/10/2013

Instrument Operator's Name: OWEN MCKEE

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 #

Well Site is served by Production Facilities 400475445

LOCATION IDENTIFICATION

Name: BADDING

Number: 34N-2HZ

County: WELD

QuarterQuarter: NWSW Section: 35 Township: 2N Range: 66W Meridian: 6 Ground Elevation: 5101

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FACILITIES

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

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

OTHER FACILITIES

Other Facility Type

Number

--	--

Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

--

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

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Per Rule 303.b.(3)C, description of all oil, gas, and/or water pipelines:

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CONSTRUCTION

Date planned to commence construction: 11/22/2013 Size of disturbed area during construction in acres: 10.00

Estimated date that interim reclamation will begin: 02/28/2014 Size of location after interim reclamation in acres: 0.10

Estimated post-construction ground elevation: 5101

DRILLING PROGRAM

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

Is H₂S 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: OFFSITE Drilling Fluids Disposal Method: Other

Cutting Disposal: Cuttings Disposal Method: Other

Other Disposal Description:

Please see comments section. Pipeline description will not fit in space provided.

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: or Document Number:

Centralized E&P Waste Management Facility ID, if applicable: 149021

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SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: David L Badding Phone: 303-669-2807
Address: 7450 WCR 35 Fax: _____

Address: _____ Email: _____

City: Ft. Lupton State: CO Zip: 80621

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 06/04/2013

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Elizabeth M Shafer Phone: 303-669-2807
Address: 7450 WCR 35 Fax: _____

Address: _____ Email: _____

City: Ft. Lupton State: CO Zip: 80621

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☐ is the mineral owner
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Date of Rule 306 surface owner consultation 06/04/2013

SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Frances I Deaguero Phone: 303-669-2807
Address: 7450 WCR 35 Fax: _____

Address: _____ Email: _____

City: Ft. Lupton State: CO Zip: 80621

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

Check all that apply. The Surface Owner: ☐ is the mineral owner
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SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: John F Badding

Phone: 303-669-2807

Address: 7450 WCR 35

Fax: _____

Address: _____

Email: _____

City: Ft. Lupton State: CO Zip: 80621

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SURFACE & MINERALS & RIGHT TO CONSTRUCT

Name: Mary J Sisneros

Phone: 303-669-2807

Address: 7450 WCR 35

Fax: _____

Address: _____

Email: _____

City: Ft. Lupton State: CO Zip: 80621

Surface Owner: ☒ Fee ☐ State ☐ Federal ☐ Indian

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Date of Rule 306 surface owner consultation 06/04/2013

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
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CULTURAL DISTANCE INFORMATION

Distance to nearest:

Building: 3178 Feet
Building Unit: 3008 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 2384 Feet
Above Ground Utility: 712 Feet
Railroad: 5280 Feet
Property Line: 851 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.

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: _____

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: 72 VONA LOAMY SAND, 0 TO 3 PERCENT SLOPES
NRCS Map Unit Name: 70 VALENT SAND, 3 TO 9 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: 08/20/2013

List individual species: Rocky Mountain bee plant- *Cleome serrulata*, western wheatgrass- *Pascopyrum smithii*, cheatgrass- *Bromus tectorum* –(NOXIOUS WEED-C-List), Russian thistle - *Salsola australis*, Common Sunflower- *Helianthus annuus*, Texas croton-*Croton texensis*

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)
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☐ Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
☐ Alpine (above timberline)
☒ Other (describe): Rocky Mountain bee plant Mixed Grass/Mixed Forb Rangeland

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: 72 VONA LOAMY SAND, 0 TO 3 PERCENT SLOPES

NRCS Map Unit Name: 70 VALENT SAND, 3 TO 9 PERCENT SLOPES

NRCS Map Unit Name:

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☒ Other (describe): Rocky Mountain bee plant Mixed Grass/Mixed Forb Rangeland

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 7550 Feet

water well: 3005 Feet

Estimated depth to ground water at Oil and Gas Location 1170 Feet

Basis for depth to groundwater and sensitive area determination:

Basis for depth to groundwater: The base of the Fox Hills Aquifer was estimated utilizing downhole logs of offset wells.
Sensitive area determination: No wells within 660' and no wells within 2 qtr-qtr radius have a depth less than 20'.
Nearest water well: 3005' NW, Permit 3561-AD, Depth 900'

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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 7550 Feet

water well: 3005 Feet

Estimated depth to ground water at Oil and Gas Location 1170 Feet

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Nearest water well: 3005' NW, Permit 3561-AD, Depth 900'

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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 7550 Feet

water well: 3005 Feet

Estimated depth to ground water at Oil and Gas Location 1170 Feet

Basis for depth to groundwater and sensitive area determination:

Basis for depth to groundwater: The base of the Fox Hills Aquifer was estimated utilizing downhole logs of offset wells.
Sensitive area determination: No wells within 660' and no wells within 2 qtr-qtr radius have a depth less than 20'.
Nearest water well: 3005' NW, Permit 3561-AD, Depth 900'

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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 7550 Feet

water well: 3005 Feet

Estimated depth to ground water at Oil and Gas Location 1170 Feet

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Nearest water well: 3005' NW, Permit 3561-AD, Depth 900'

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: _____

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule 318A

WATER RESOURCES

Is this a sensitive area: ☒ No ☐ Yes

Distance to nearest

downgradient surface water feature: 7550 Feet

water well: 3005 Feet

Estimated depth to ground water at Oil and Gas Location 1170 Feet

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Is the location in a riparian area: ☒ No ☐ Yes

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_____ No

Is the location within a Rule 317B Surface Water Supply Area buffer 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: _____

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).

DESIGNATED SETBACK LOCATION EXCEPTIONS

Check all that apply:

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OPERATOR COMMENTS AND SUBMITTAL

Comments

Other disposal description:
Drilling fluids disposal: KMG will reuse water-based drilling fluids to the maximum extent at which point they will either be land applied or taken to a licensed, commercial disposal site; decided upon based off of laboratory analysis of fluids.
Cuttings disposal: If the surface owner authorizes and if it is feasible for this location at the time of drilling, water-based cuttings will be disposed of onsite using bioremediation/solidification product.
If the surface owner does not authorize onsite disposal and/or it is not feasible for this location at the time of drilling, water-based cuttings will be disposed of using a Centralized E&P Waste Management facility or a private spread field.

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

Signed: _____ Date: _____ Email: DJRegulatory@anadarko.com

Print Name: Lauren Kucera 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: _____

OPERATOR COMMENTS AND SUBMITTAL

Comments Other disposal description:
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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
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1	Planning	This pad location is located in a rural rangeland area. The nearest building unit is located 3008' away.
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Total: 1 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400473922	ACCESS ROAD MAP
400473925	LOCATION DRAWING
400473926	LOCATION PICTURES
400473927	MULTI-WELL PLAN
400473928	SURFACE AGRMT/SURETY
400473932	NRCS MAP UNIT DESC
400473933	WELL LOCATION PLAT
400473946	REFERENCE AREA PICTURES
400475459	HYDROLOGY MAP
400475460	WASTE MANAGEMENT PLAN

Total Attach: 10 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)