

**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:

400449562

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: 46685

Name: KINDER MORGAN CO2 CO LP

Address: 17801 HWY 491

City: CORTEZ State: CO Zip: 81321

Contact Information

Name: Carolyn Dunmire

Phone: (970) 564-9100

Fax: (970) 565-8874

email: dunmire@ecosphere-services.com

RECLAMATION FINANCIAL ASSURANCE

- ☐ Plugging and Abandonment Bond Surety ID: _____
- ☒ Gas Facility Surety ID: 20080052
- ☐ Waste Management Surety ID: _____

LOCATION IDENTIFICATION

Name: Doe Canyon Compressor Station Number: _____

County: DOLORES

Quarter: 15 Section: 19 Township: 40N Range: 17W Meridian: N Ground Elevation: 7070

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: 1359 feet FSL from North or South section line

1456 feet FWL from East or West section line

Latitude: 37.708555 Longitude: -108.774250

PDOP Reading: 5.8 Date of Measurement: 08/01/2007

Instrument Operator's Name: Rita J. Caffey

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)

400227393

400226971

400388652

400227153

400395188

FACILITIES

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

Wells	Oil Tanks	2	Condensate Tanks	Water Tanks	3	Buried Produced Water Vaults
Drilling Pits	Production Pits		Special Purpose Pits	Multi-Well Pits		Temporary Large Volume Above Ground Tanks
Pump Jacks	Separators	4	Injection Pumps	Cavity Pumps	17	
Gas or Diesel Motors	Electric Motors	16	Electric Generators	Fuel Tanks		Gas Compressors
Dehydrator Units	Vapor Recovery Unit		VOC Combustor	Flare		LACT Unit
						Pigging Station

OTHER FACILITIES

Other Facility Type

Number

Exchangers	3
Coolers	30
Power Distribution Centers	5
Transformers	8

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

The facility includes an 8" test line, 4" water line, 2, 16" production lines, a 10" test line, 10" sales lines, 24" booster inlet, and a 16" booster outlet. Please see the Facility Layout Drawing for pipeline locations and underground/above ground designations.

CONSTRUCTION

Date planned to commence construction: 06/04/2012 Size of disturbed area during construction in acres: 11.60

Estimated date that interim reclamation will begin: 02/12/2014 Size of location after interim reclamation in acres: 8.06

Estimated post-construction ground elevation: 7071

DRILLING PROGRAM

Will a closed loop system be used for drilling fluids: No

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: _____

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: Shell Western E&P Inc.

Phone: _____

Address: C/O Kinder Morgan, 500 Dallas
Street, Suite 1000

Fax: _____

Address: _____

Email: _____

City: Dallas State: TX Zip: 77002-
0000

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: _____

The right to construct this Oil and Gas Location is granted by: applicant is owner

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

Distance to nearest:

Building: 434 Feet
Building Unit: 434 Feet
High Occupancy Building Unit: 5280 Feet
Designated Outside Activity Area: 5280 Feet
Public Road: 94 Feet
Above Ground Utility: 143 Feet
Railroad: 5280 Feet
Property Line: 31 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: 02/15/2012

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: Map Unit 143: Wetherill loam, 1 to 3 percent slopes

NRCS Map Unit Name: Map Unit 21: Cahona-Sharps-Wetherill complex, 2 to 6 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: 03/28/2013

List individual species: Crested Wheatgrass (*Agropyron cristatum*), Intermediate wheatgrass (*Thinopyrum intermedium*), Western wheatgrass (*Pascopyrum smithii*), Smooth Brome (*Bromus inermis*), Cheatgrass (*Bromus tectorum*), Broom snakeweed (*Gutierrezia sarothrae*), Scarlet globemallow

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: 631 Feet

water well: 6369 Feet

Estimated depth to ground water at Oil and Gas Location 250 Feet

Basis for depth to groundwater and sensitive area determination:

Depth to groundwater is derived from well permit applications on file with the Colorado Division of Water Resources.

Sensitive Area Determination:

There is no surface water within 1,000 ft. of the Doe Canyon Compressor Station. The Compressor Station is not within a local wellhead protection area, greater than 1/8 mile from a domestic water well, or greater than 1/4 mile from a public water supply well, ground water basin, or surface water supply area.

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

GROUNDWATER BASELINE SAMPLING AND MONITORING AND WATER WELL SAMPLING

Water well sampling required per Rule N/A

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 305.a(2)

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 A Form 12 was submitted for the Doe Canyon Unit and received by the COGCC on September 30, 2012. Doc # 0662412
Facility ID: 419643.

The Doe Canyon Compressor Station was permitted under the Dolores County permitting process, which required a series of landowner notifications. As a result, a variance to the COGCC Rule 305.a(2) has been requested. Please see the attachment for further information.

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

Signed: _____ Date: _____ Email: dunmire@ecosphere-services.com

Print Name: Carolyn Dunmire Title: Project 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: _____

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	A Kinder Morgan Fire Mitigation Plan is currently on file with Dolores County.
2	Traffic control	<p>A Road Use Plan, which addresses traffic concerns specific to the Doe Canyon Compressor Station, is currently on file with Dolores County. The traffic plan was produced after consulting with the county Road and Bridge Supervisor.</p> <p>All access roads are fully compliant with local county road standards. Access roads are composed of compacted gravel.</p>
3	General Housekeeping	<p>The location is adequately fenced to restrict access by unauthorized persons.</p> <p>On-site trash dumpsters are emptied regularly by the local waste management company.</p> <p>All lighting will be downcast and turned off at night. Nighttime lighting will only be used in the event of an emergency.</p>
4	Wildlife	The Doe Canyon Compressor Station is currently located within an Elk Winter Concentration Area. A wildlife consultation has been scheduled with Colorado Parks and Wildlife for November 21st. Wildlife BMPs will be developed through this COGCC Rule 306.c. consultation process.
5	Storm Water/Erosion Control	<p>Fiber wattles will be placed at the edge of disturbance where necessary. Care will be taken to avoid disturbance outside of the project area unless it is deemed necessary for equipment stability and fire safety.</p> <p>Culvert protection will be placed at the culvert outlet along the existing county road.</p> <p>A concrete washout facility will be located at the southern end of the project area.</p> <p>A silt fence will be placed around disturbed areas and stock piled soils.</p> <p>Soil roughening will be used in all disturbed areas.</p>

6	Material Handling and Spill Prevention	<p>The Doe Canyon facility will provide 150% berm containment around all blow down, flop, glycol, slop, oil, water, and gun barrel tanks.</p> <p>All loadlines are capped.</p> <p>Tanks are designed to meet all API 650 guidelines.</p> <p>A Spill Prevention, Control, and Countermeasure (SPCC) Plan is currently in place for the Doe Canyon Compressor Station.</p>
7	Dust control	All surfaces will be graveled to minimize dust.
8	Construction	<p>All equipment will be contained within the Right-of-Way (ROW) area of disturbance.</p> <p>Vegetation that does not need to be removed will be avoided during construction and removed vegetation will be cut near ground level, leaving the root system intact except where permanent facilities, roads, or ROWs require the complete removal of vegetation.</p>
9	Noise mitigation	<p>During normal operations, the compressor station will remain within COGCC regulations for noise. The COGCC noise levels may be exceeded on a short-term basis during construction. The building exterior consist of two layers at 6.0 PCF, including sound attenuating wool. Sound walls would be placed around all cooling units. Quieter cooling technology has been implemented at the expanded compressor station.</p> <p>In cooperation with Dolores County, a third party was hired to conduct sound testing around the Doe Canyon Compressor Station. The results of the study are still pending.</p> <p>The use of Jake brakes by semi-trucks on county roads will be limited to the hours of 7 am to 7 pm.</p>
10	Emissions mitigation	All C02 Compressor Stations are equipped with electronic controls which monitor C02 leaks. These monitors are directly linked to the Supervisory Control and Data Acquisition (SCADA). All personnel are equipped with H2S monitoring devices.
11	Interim Reclamation	Disturbed areas not necessary for operation and maintenance will be re-contoured and roughened to blend into the surrounding terrain. In addition, a landowner approved seed mix will be applied at the appropriate time using seeding and mulching methods outlined in the Regional Stormwater Plan (RSWMP). Weed control will be employed to help facilitate vegetation reestablishment.
12	Final Reclamation	All disturbed areas that are not necessary for operational procedures will be restored to at least 70 percent of pre-disturbance vegetative cover.

Total: 12 comment(s)

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400462401	NRCS MAP UNIT DESC
400470257	ACCESS ROAD MAP
400470261	LOCATION DRAWING
400470406	OTHER
400503865	LOCATION DRAWING
400503867	HYDROLOGY MAP
400508040	SENSITIVE AREA MAP
400508155	VARIANCE REQUEST
400508312	FACILITY LAYOUT DRAWING

Total Attach: 9 Files

General Comments

User Group

Comment

Comment Date

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Total: 0 comment(s)