

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:

400467884

Date Received:

02/06/2014

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:

**436392**

Expiration Date:

**03/10/2017**

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: Laura Getts

Phone: (970) 564-9100

Fax: (970) 565-8874

email: lgetts@ecosphere-services.com

RECLAMATION FINANCIAL ASSURANCE

Plugging and Abandonment Bond Surety ID: \_\_\_\_\_

Gas Facility Surety ID: 20080052

Waste Management Surety ID: \_\_\_\_\_

LOCATION IDENTIFICATION

Name: Yellow Jacket Compressor Station

Number: \_\_\_\_\_

County: MONTEZUMA

Quarter: NWNW Section: 13 Township: 37N Range: 18W Meridian: N Ground Elevation: 6653

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: 917 feet FNL from North or South section line

483 feet FWL from East or West section line

Latitude: 37.468657    Longitude: -108.790535

PDOP Reading: 5.9    Date of Measurement: 08/23/2013

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:**

Production Facilities Location serves Well(s)

**LOCATION ID #    FORM 2A DOC #**

_____	1103277
_____	400401464
_____	400224212
_____	1079773
_____	1784383
_____	1511680
_____	400224235
_____	400224219
_____	1422248
_____	400224253
_____	874337
_____	1421372
_____	400401441
_____	400224242

## FACILITIES

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

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

## OTHER FACILITIES

### Other Facility Type

### Number

Other Facility Type	Number
Coolers	4
Discharge Separator Vessel	1
Inlet Filter Coalescers	4
Refrigerant Accumulator Vessel	1
2.3 MVA Transformer	4
Drain Sump Pump	1
Bay of Discharge/Recycle Coolers	16
CO2 Chillers	2
Water Transfer Pump	1
15 MVA Transformer	4
Instrument Air Compressor Package	1
Refrigerant Reclaimer Vessel	1
9.375 MVA Transformer	2
Refrigerant Compressor Packages	4
Refrigerant Suction Scrubber Vessel	1
Refrigerant Condenser Air Cooler	6
Blowdown Tank	1

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

## CONSTRUCTION

Date planned to commence construction: 06/03/2013 Size of disturbed area during construction in acres: 40.00  
 Estimated date that interim reclamation will begin: 07/30/2014 Size of location after interim reclamation in acres: 35.00  
 Estimated post-construction ground elevation: 6652

## 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: Shell Oil Company

Phone: \_\_\_\_\_

Address: C/O Kinder Morgan CO2 Property  
Tax

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

Address: 500 Dallas St., Suite 1000

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

City: Houston State: TX Zip: 77002

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: 1055 Feet  
Building Unit: 1055 Feet  
High Occupancy Building Unit: 5280 Feet  
Designated Outside Activity Area: 5280 Feet  
Public Road: 45 Feet  
Above Ground Utility: 30 Feet  
Railroad: 5280 Feet  
Property Line: 77 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: 11. Barx-Gapmesa Complex, 2 to 6 percent slopes.

NRCS Map Unit Name: 143. Wetherill Loam, 1 to 3 percent slopes.

NRCS Map Unit Name: 42. Gladel-Pulpit Complex, 3 to 9 percent slopes.

## 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: 1700 Feet

water well: 5700 Feet

Estimated depth to ground water at Oil and Gas Location 300 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 Yellow Jacket 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: \_\_\_\_\_

## 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 \_\_\_\_\_

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

The Yellow Jacket Compressor Station was originally built in 1984. As a result, cultural setbacks for Public Road, Above Ground Utility, and Property Line were not met.

The Yellow Jacket Compressor Station Expansion was approved and permitted by the Montezuma County Board of County Commissioners on April 22nd, 2013. Please see attached document for confirmation.

There are no active water wells, seeps, or springs within a 1/2 mile radius of the Yellow Jacket Compressor Station. A Form 4 will be filed accordingly.

Please note that the neighbor nearest to the 1,000 ft. buffer sold the property for the Yellow Jacket Compressor Station to Kinder Morgan.

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

Signed: \_\_\_\_\_ Date: 02/06/2014 Email: lgetts@ecosphere-services.com

Print Name: Laura Getts Title: Permitting Specialist

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: 3/11/2014

### **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.**

<b><u>COA Type</u></b>	<b><u>Description</u></b>

### **Best Management Practices**

<b><u>No</u></b>	<b><u>BMP/COA Type</u></b>	<b><u>Description</u></b>
1	Planning	A Kinder Morgan Fire Mitigation Plan is currently on file with Montezuma County.
2	Traffic control	<p>A Road Use Plan, which addresses traffic concerns specific to the Yellow Jacket Compressor Station, is currently on file with Montezuma 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> <p>County Road U has a compacted surface that will be utilized as tracking control unless conditions warrant further protection.</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 off at night unless an emergency warrants their need.</p>
4	Storm Water/Erosion Control	<p>Erosion control barriers, namely fiber wattles, will be placed around stock piled soils and 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>A culvert will be placed at the outlet along the existing county road.</p> <p>A concrete washout facility will be placed at an undetermined location within the project area.</p> <p>Soil roughening will be used in all disturbed areas.</p> <p>Fuel and chemicals stored within the project area will be within secondary containment to reduce the potential for spills or releases.</p> <p>BMPs will be maintained or amended by Kinder Morgan as site conditions change throughout the construction and reclamation process.</p>

5	Material Handling and Spill Prevention	<p>The Yellow Jacket facility will provide adequate 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 Yellow Jacket Compressor Station.</p>
6	Dust control	All surfaces will be graveled to aid in dust mitigation.
7	Construction	<p>All equipment will be contained within the project 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>
8	Noise mitigation	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 consists of two layers at 6.0 PCF, including sound attenuating wool. Sound walls will be placed around all cooling units. Quieter cooling technology has been implemented at the expanded compressor station.
9	Emissions mitigation	All CO2 Compressor Stations are equipped with electronic controls which monitor CO2 leaks. These monitors are directly linked to the Supervisory Control and Data Acquisition (SCADA). All personnel are equipped with H2S monitoring devices.
10	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.
11	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: 11 comment(s)

### Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400467884	FORM 2A SUBMITTED
400471626	ACCESS ROAD MAP
400471627	HYDROLOGY MAP
400471631	OVERVIEW MAP
400471634	SENSITIVE AREA MAP
400471646	NRCS MAP UNIT DESC
400471656	PROPOSED BMPs
400502042	HYDROLOGY MAP B, AERIAL
400502298	LOCATION DRAWING
400548289	FACILITY LAYOUT DRAWING
400548291	FACILITY LAYOUT DRAWING
400548819	LGD CONSULTATION
400548826	OTHER
400552848	LOCATION PICTURES

Total Attach: 14 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final review completed; no public comment received. LGD comment attached.	3/6/2014 7:58:51 AM
OGLA	Initiated/Completed OGLA Form 2A review on 02-20-14 by Dave Kubeczko; no COAs, operator submitted BMPs sufficient; no CPW; passed OGLA Form 2A review on 03-04-14 by Dave Kubeczko; no COAs.	2/20/2014 8:44:55 AM
LGD	The Board of County Commissioners approved local permit requirements on April 22, 2013, for the purpose of expanding on an existing compressor station by the installation of surface compression and other surface facilities to sustain production levels and to maintain CO2 production by lowering the abandonment pressure of the well sites/field pursuant to the information submitted to the County and within Kinder Morgans COGCC Permit Application(s).	2/14/2014 10:34:49 AM
Permit	This is an expansion of an existing compressor station.	2/14/2014 8:39:15 AM
Permit	Passed completeness.	2/10/2014 11:31:31 AM
Permit	Returned to draft: Missing attached Location Pictures.	2/10/2014 8:38:29 AM

Total: 6 comment(s)