

**FORM
INSP**Rev
05/11**State of Colorado
Oil and Gas Conservation Commission**1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109

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Inspection Date:

07/15/2014

Document Number:

669500104

Overall Inspection:

ACTION REQUIRED**FIELD INSPECTION FORM**

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection	2A Doc Num:
	433701	433703	ROY, CATHERINE	<input type="checkbox"/>	

Operator Information:OGCC Operator Number: 46685Name of Operator: KINDER MORGAN CO2 CO LPAddress: 17801 HWY 491City: CORTEZ State: CO Zip: 81321

- ☐ THIS IS A FOLLOW UP INSPECTION
- ☒ FOLLOW UP INSPECTION REQUIRED
- ☐ NO FOLLOW UP INSPECTION REQUIRED
- ☐ INSPECTOR REQUESTS FORM 42 WHEN CORRECTIVE ACTIONS ARE COMPLETED

Contact Information:**Compliance Summary:**QtrQtr: SESE Sec: 20 Twp: 38N Range: 18W

Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Action Required	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
03/31/2014	674600162	PR	PR	SATISFACTOR Y	P		No

Inspector Comment:This is a reclamation inspection.**Related Facilities:**

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
433701	WELL	PR	12/17/2013	LO	083-06706	HA 6	PR

Equipment:Location Inventory

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

Location

Emergency Contact Number (S/A/V): _____

Corrective Date: _____

Comment: _____

Corrective Action: _____

Spills:

Type	Area	Volume	Corrective action	CA Date
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☐ Multiple Spills and Releases?

Venting:		
Yes/No	Comment	

Flaring:				
Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

Predrill

Location ID: 433701

Site Preparation:

Lease Road Adeq.: _____ Pads: _____ Soil Stockpile: _____

S/AV: _____

Corrective Action: _____ Date: _____ CDP Num.: _____

Form 2A COAs:

Group	User	Comment	Date
OGLA	kubeczkd	GROUNDWATER BASELINE SAMPLING COA: Operator shall comply with Rule 609. STATEWIDE GROUNDWATER BASELINE SAMPLING AND MONITORING. COGCC suggests that all 4 wells within 1/2-mile of the proposed well pad location be sampled.	06/17/2013

OGLA	kubeczkd	<p>GENERAL SITE COAs:</p> <p>A closed loop system (which operator has indicated on the Form 2A) must be implemented during drilling. All cuttings generated during drilling with OBM/high chloride mud must be kept in containers or on a lined/bermed portion of the well pad; prior to analysis and/or offsite disposal.</p> <p>The moisture content of any drill cuttings in a cuttings area or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts.</p> <p>Notify the COGCC 48 hours prior to start of pad construction, rig mobilization, spud, and start of hydraulic stimulation operations using Form 42 (the appropriate COGCC individuals will automatically be email notified, including the LGD for hydraulic stimulation operations).</p> <p>Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via temporary surface pipelines</p> <p>Operator must ensure 110 percent secondary containment for any volume of fluids contained at well site during drilling and completion operations (as shown on the Proposed BMPs attachment) ; 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.</p> <p>If the well is to be hydraulically stimulated, then flowback and stimulation fluids must be sent to tanks, separators, or other containment/filtering equipment before the fluids can be placed into any pipeline, storage vessel, or lined pit (only if an amended Form 2A has been submitted/approved and a Form 15 Earthen Pit Permit has been submitted/approved) 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.</p> <p>Operator shall pressure test pipelines in accordance with Rule 1101.e.(1) prior to putting into initial service.</p> <p>All personnel must be H2S trained and proper air monitoring for H2S must be implemented during drilling, completion, and production operations. Emergency response plan for H2S must be onsite at all times.</p>	06/17/2013
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S/AV: _____ **Comment:** _____

CA: _____ **Date:** _____

Wildlife BMPs:

BMP Type	Comment
Storm Water/Erosion Control	<p>Fiber wattles will encompass the northern and eastern periphery of the disturbed area.</p> <p>A diversion ditch will be placed along the southwestern edges of the disturbed area. Wattles spaced approximately 100 feet apart will line the ditch.</p> <p>An earth berm will line the edges of the wellpad.</p> <p>Tackifier will be added to the stored topsoil piles to prevent erosion. Stockpiled soils will have slopes not greater than 3:1.</p> <p>Stormwater BMPs will be maintained/amended by Kinder Morgan as site conditions change throughout the construction and reclamation process.</p>
General Housekeeping	Erosion control barriers, namely 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.
Construction	<p>All equipment will be stored within the right-of-way (ROW) area of disturbance. Top soil will be removed to create a level pad for drilling and an access road (length: 833', ROW: 60').</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>
Interim Reclamation	Surface roughening, surface contouring, seeding, and weed control will be employed to facilitate vegetation reestablishment. Tackifier will be added to reclaimed areas.
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.

S/A/V: _____ **Comment:** _____

CA: _____ **Date:** _____

Stormwater:

Comment: _____

Staking:

On Site Inspection (305):

Surface Owner Contact Information:

Name: _____ Address: _____

Phone Number: _____ Cell Phone: _____

Operator Rep. Contact Information:

Landman Name: _____ Phone Number: _____

Date Onsite Request Received: _____ Date of Rule 306 Consultation: _____

Request LGD Attendance: _____

LGD Contact Information:

Name: _____ Phone Number: _____ Agreed to Attend: _____

Summary of Landowner Issues:

Summary of Operator Response to Landowner Issues:

Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment:

Environmental

Spills/Releases:

Inspector Name: ROY, CATHERINE

Type of Spill: _____	Description: _____	Estimated Spill Volume: _____
Comment: _____		
Corrective Action: _____		Date: _____
Reportable: _____	GPS: Lat _____	Long _____
Proximity to Surface Water: _____	Depth to Ground Water: _____	

Water Well:		Lat _____	Long _____
DWR Receipt Num: _____	Owner Name: _____	GPS : _____	_____

Field Parameters:

Sample Location: _____

Emission Control Burner (ECB): _____

Comment: _____

Pilot: _____ Wildlife Protection Devices (fired vessels): _____

Reclamation - Storm Water - Pit

Interim Reclamation:

Date Interim Reclamation Started: _____ Date Interim Reclamation Completed: _____

Land Use: DRY LAND

Comment: The majority of the interim reclamation area does not appear to have been seeded as there are few desirable species within the interim reclamation area. Weeds such as Russian thistle (Salsola tragus) and redroot pigweed (Amaranthus retroflexus) are the most common vegetation species. See attached photos 1 and 2.

1003a.	Debris removed?	Pass	CM	_____	CA _____	Date _____
	Waste Material Onsite?	Pass	CM	_____	CA _____	Date _____
	Unused or unneeded equipment onsite?	Pass	CM	_____	CA _____	Date _____
	Pit, cellars, rat holes and other bores closed?	Pass	CM	_____	CA _____	Date _____
	Guy line anchors removed?		CM	_____	CA _____	Date _____
	Guy line anchors marked?		CM	_____	CA _____	Date _____

1003b. Area no longer in use? Pass Production areas stabilized ? _____

1003c. Compacted areas have been cross ripped? _____

1003d. Drilling pit closed? _____ Subsidence over on drill pit? _____

Cuttings management: _____

1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? _____

Production areas have been stabilized? Fail Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Inspector Name: ROY, CATHERINE

Cropland

Top soil replaced _____

Recontoured Pass

Perennial forage re-established Fail

Non-Cropland

Top soil replaced _____

Recontoured _____

80% Revegetation Fail

1003 f. Weeds Noxious weeds? I

Comment: Location needs to be revegetated as soon as possible. Please submit a plan detailing how and when the location will be revegetated by August 31, 2014.

Overall Interim Reclamation Fail

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____

Date Final Reclamation Completed: _____

Final Land Use: DRY LAND

Reminder: _____

Comment: _____

Well plugged _____

Pit mouse/rat holes, cellars backfilled _____

Debris removed _____

No disturbance /Location never built _____

Access Roads Regraded _____

Contoured _____

Culverts removed _____

Gravel removed _____

Location and associated production facilities reclaimed _____

Locations, facilities, roads, recontoured _____

Compaction alleviation _____

Dust and erosion control _____

Non cropland: Revegetated 80% _____

Cropland: perennial forage _____

Weeds present _____

Subsidence _____

Comment: _____

Corrective Action: _____ Date _____

Overall Final Reclamation _____

Well Release on Active Location ☐

Multi-Well Location ☐

Storm Water:

Loc Erosion BMPs	BMP Maintenance	Lease Road Erosion BMPs	Lease BMP Maintenance	Chemical BMPs	Chemical BMP Maintenance	Comment

S/A/V: ACTION REQUIRED Corrective Date: 08/31/2014

Comment: Rills approximately 8 to 12 inches wide and 6 to 8 inches deep are present in several areas across the interim reclamation area and sediment is discharging from the edges of the well pad. See attached photos 3 and 4.

CA: Erosion on the well pad and needs to be repaired and sediment discharging from the well pad needs to be filtered by August 31, 2014.

Pits: ☒ NO SURFACE INDICATION OF PIT

COGCC Comments

Comment	User	Date
<p>Site does not meet Reclamation Regulations. Please submit a Form 4 for the location with the following attachments:</p> <ol style="list-style-type: none"> 1. An invoice and/or documentation showing that all work has been completed on the site that directly relates to the actions required on this inspection. 2. Photographs of the vegetation in four cardinal directions as well as one close up of the plant community. Photographs will also be required documenting repair of erosion on the well pad. 3. Vegetation monitoring information conducted by a vegetation expert showing that the vegetation community meets the 80% standard in the rule. 4. Failure to complete the corrective actions as indicated in a prompt manner may result in enforcement actions. 	RoyC	07/15/2014

Attached Documents

You can go to COGCC Images (<https://cogcc.state.co.us/weblink/>) and search by document number:

Document Num	Description	URL
669500105	Photo 1. View of weedy vegetation from northeastern corner toward center of well pad.	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3389715
669500106	Photo 2. Closeup view of typical vegetation on well pad.	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3389716
669500107	Photo 3. Rill erosion and sedimentation on northwestern corner of well pad.	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3389717
669500201	Photo 4. Rill erosion and sediment discharge onto adjacent wheat field.	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3389718