



June 30, 2016

Colorado Oil & Gas Conservation Commission
ATTN: Director Matt Lepore & Deputy Director Dave Kulmann
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

RE: Kinder Morgan CO2 Company, L.P.
Rule 523.e. Voluntary Self Disclosure – First Quarterly Report

Dear Director Lepore and Deputy Director Kulmann:

Kinder Morgan CO2 Company, L.P. (“Kinder Morgan”) (Operator No. 46685) hereby provides the Colorado Oil and Gas Conservation Commission (“COGCC” or “Commission”) with this first quarterly status report to its Rule 523.e. voluntary self-disclosure made on February 17, 2016 followed by our meeting on March 17, 2016. As you recall, in our February 17, 2016 written disclosure and in our meeting on March 17, 2016, Kinder Morgan described the status of certain drilling pits located in Montezuma and Dolores Counties, Colorado, which either required soil sampling, were closed pursuant to BLM requirements, or were drilled without a pit and therefore required Form 27 Remediation Workplans to close the locations. On April 29, 2016, Kinder Morgan made a supplemental disclosure to update the Commission with additional information regarding the status of the subject drilling pits. The attached table labeled “Exhibit A– June 30, 2016 Status Table” provides a summary of the status of the subject pits as of this first quarterly status report.¹

Following our discussion in the March 17, 2016 meeting, Kinder Morgan has made significant progress in obtaining landowner approval, sampling, and closing locations with required Form 27 Remediation Workplans. The following report provides a status summary for each pit sampled to date, including locations closed by the Commission and an update on Kinder Morgan’s discussions with the BLM.

Category 1: Pits Requiring Landowner Approval and Soil Sampling

To date Kinder Morgan has submitted eight Form 27 Site Investigation and Remediation Workplans to the COGCC for Category 1 locations that require landowner approval and soil and groundwater sampling. The Form 27 Remediation Workplans for these pits designate sampling

¹¹ In Exhibit A, Kinder Morgan has moved GP12 to reflect that the pit was closed after April 1, 2009.

pursuant to the concentrations of the pre-2009 Table 910-1 or the post-2009 Table 910-1 depending on the date of closure of each pit. The COGCC has approved all eight Form 27s subject to certain Conditions of Approval (COAs). Five of the approved Form 27s contain COAs acceptable to Kinder Morgan and the remaining three approved Form 27s contain COAs that require additional review by the COGCC, as further described below.

(1) Pits Closed Under Pre-2009 Table 910-1:

The Statement of Basis and Purpose for the April 1, 2009 amendments to the 900 Series Rules provides that the closure and remediation of pits closed prior to May 1, 2009 on federal land and prior to April 1, 2009 on fee land shall be closed in accordance with the soil sample concentrations of the prior version of Table 910-1. The following three Form 27s for pits closed prior to 2009 mistakenly contain COAs that require Kinder Morgan's sampling to meet the concentration levels of the current Table 910-1: **GP-9**, **GP-11**, and **GP-13**. Kinder Morgan delivered a letter concurrent with this First Quarterly Report on June 30, 2016, providing the COGCC with evidence that these pits were closed prior to April 1, 2009 and requesting that the COGCC revise the three previously issued COAs to correctly require that for pits closed prior to April 1, 2009, the previous version of Table 910-1 applies. Kinder Morgan is awaiting confirmation and approval that such COAs will be removed from all pits closed prior to 2009 and until such time has placed all Form 27 submissions and sampling on hold for pits closed prior to 2009. The approved Form 27s and COAs for the three pits closed prior to April 1, 2009 are attached hereto as Exhibit B.

(2) Pits Closed Under Post-2009 Table 910-1:

Kinder Morgan submitted and the COGCC approved Form 27s for five wells (**GP-12**, **GP-16**, **DC-11**, **GP 17**, and **GP 19**) with pits closed post-April 1, 2009 designating sampling to meet the concentrations of the current table 910-1. The approved Form 27s and COAs for the five pits closed post-2009 are attached hereto as Exhibit C. Four out of the five locations were sampled in June 2016. Kinder Morgan recently received some of the laboratory sample results and will submit to the COGCC Form 27s with remediation workplans in the near future.

Category 2: Pits Closed Pursuant to BLM Requirements

Kinder Morgan can report that it has had further discussions with the BLM regarding the COGCC's request for documentation evidencing Kinder Morgan's closure of pits on federal land pursuant to BLM requirements. While Kinder Morgan continues to discuss this matter with the BLM, the BLM has not yet provided Kinder Morgan with written confirmation of the closure of the Category 2 pits pursuant to BLM requirements.

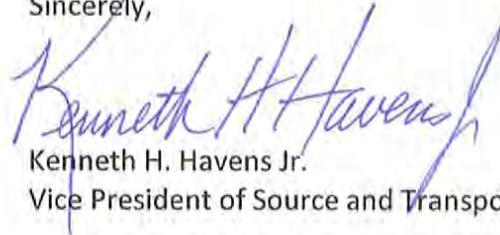
Category 3: Wells Drilled Without a Pit

Kinder Morgan has submitted the following five Form 27s for wells drilled without a pit which have been accepted by the COGCC, the open pit permits have been closed by the COGCC, and no further action is required: **DWD-1, DWD X1, HB-6, HE-6 and YB-6**. The approved Form 27s indicating closure of these locations are attached hereto as Exhibit D.

Conclusion

Kinder Morgan continues to work diligently to sample and close all of the pits subject to its voluntary self disclosure and appreciates the Commission's feedback and continued discussion. Kinder Morgan will submit its second quarterly report on or before September 30, 2016, and will supplement this report with additional information if necessary. If at any time the Commission has questions or would like additional detail on any item, please let me know by contacting me at 713-369-9113 or ken_havens@kindermorgan.com.

Sincerely,



Kenneth H. Havens Jr.
Vice President of Source and Transportation

Enclosures

- cc: Jessica Toll, KM
- Barry Swift, KM
- Jamie Jost, Jost Energy Law, P.C.
- Alex Fisher, COGCC
- Greg Deranleau, COGCC

EXHIBIT A

JUNE 30, 2016 STATUS TABLE

Well Information						Spud Dates		Pit Information				Landowner Information	Water Wells	Status
Well Name	Category in KM letters	Surface/Mineral	API #	Facility ID No.	APD Approved	Spud Date	Re-entry Spud Date	Pit Permit	Document No.	Pit Permit Date	Physical Pit Closure	Land Use	Water Well Within 1/2 Mile of the Wellhead	
Locations requiring soil sampling and landowner approval														
YA-4	1	Fee/Fee	05-083-06586	257924	8/16/00	4/30/2001	9/7/09	Yes - 257924	-	8/25/00	2002	crop land	No	On hold pending COGCC COA review
HB-5	1	Fee/Fee	05-083-06596	264308	8/15/02	8/3/2002		Yes - 264308	-	7/30/02	2003	CRP	No	On hold pending COGCC COA review
YE6	1	Fee/Fee	05-083-06594	263405	4/17/02	6/16/2002	9/14/2009	Yes - 263405	-	4/26/02	2003	non-crop land	No	On hold pending COGCC COA review
YF3	1	Fee/Fed	05-083-06593		4/9/02	5/22/2002		Yes	-		2003	crop land	No	On hold pending COGCC COA review
MC8*	1	Fee/Fee	05-083-06625	279715	9/2/05	12/3/2005		Yes - 279715	-	9/1/05	2006	non-crop land	No	On hold pending COGCC COA review
YA-5*	1	Fee/Fee	05-083-06623	278718	7/12/05	8/22/2005		Yes - 278718	-	7/8/05	2006	crop land	No	On hold pending COGCC COA review
DC2*	1	Fee/Fee	05-033-06135		8/28/07	8/30/2007	7/21/2013	No	-	-	2008	rangeland	No	On hold pending COGCC COA review
DC5*	1	Fee/Fee	08-033-06130	290061	5/7/07	6/2/2007		Yes - 290061	-	4/24/07	2008	non-crop land	Yes	On hold pending COGCC COA review
DC8*	1	Fee/Fed	05-033-06132		7/30/07	8/30/2007		No	-	-	2008	crop land	Yes	On hold pending COGCC COA review
GP11*	1	Fee/Fee	05-083-06635		11/2/07	1/28/2008		No	-	-	2008	crop land	No	On hold pending COGCC COA review
GP13*	1	Fee/Fee	05-083-06645		3/27/08	5/19/2008		No	-	-	2008	crop land	Yes	On hold pending COGCC COA review
GP9*	1	Fee/Fee	05-083-06633		10/12/07	11/10/2007		No	-	-	2008	KM property	No	On hold pending COGCC COA review
April 1, 2009 Significant Change to Table 910-1														
GP12*	1	Fee/Fee	05-083-06634		11/2/07	12/19/2007		No	-	-	2009	pasture	Yes	KM scheduling sampling
GP14*	1	Fee/Fee	05-083-06642		3/27/08	9/20/2008		No	-	-	2009	pinyon juniper	No	KM scheduling sampling
GP15*	1	Fee/Fee	05-083-06641		2/14/08	8/6/2008		No	-	-	2009	crop land	No	KM scheduling sampling
GP16*	1	Fee/Fee	05-083-06649		4/9/08	7/1/2008	4/28/2014	No	-	-	2009	crop land	Yes	Soil and groundwater sampled in June 2016. No groundwater encountered during 50-foot boring. Laboratory analysis for soil samples received.
GP17*	1	Fee/Fee	05-083-06640		3/6/08	3/24/2008		No	-	-	2009	crop land	Yes	Soil and one 50-foot groundwater sample taken in June 2016. Laboratory results received.
GP-19*	1	Fee/Fee	05-083-06655		9/25/08	11/10/2008	2/27/2011	No	-	-	2009	crop land	Yes	Soil and one 50-foot groundwater sample taken in June 2016. Laboratory results received for groundwater sample.
YE7*	1	Fee/Fed	05-083-06624	278776	9/2/05	10/23/2005		Yes - 278776	-	7/12/05	2010	non-crop land	No	KM scheduling sampling
DC11	1	Fee/Fee	05-033-06171	427014	1/15/12	4/5/2012		Yes - 427014	-	12/30/11	2012	crop land	Yes	Soil sampled in June 2016. No groundwater encountered during 50-foot boring.
YG1	1	Fee/Fee	05-083-06697	428410	3/30/12	8/24/2012		Yes - 428410	400254733	3/30/12	2012	cropland	No	KM scheduling sampling
HA-4	1	Fee/Fee	05-083-06693	429408	3/30/12	8/8/2012		Yes - 428408	400254078	3/30/12	2013	cropland	No	KM scheduling sampling
YA-6	1	Fee/Fee	05-083-06694	428413	3/30/12	5/30/2012		Yes - 428413	400254392	3/30/12	2013	crop land	No	KM scheduling sampling
YA-7	1	Fee/Fee	05-083-06701	430761	5/3/12	7/7/2012		Yes - 430761	400268556	11/15/12	2013	crop land	No	KM scheduling sampling
YG2	1	Fee/Fee	05-083-06695	428412	3/30/12	10/25/2012		Yes - 428412	400254734	3/30/12	2013	cropland	No	KM scheduling sampling
No Earthen Pit Constructed - Form 27 Submitted to Close														
DWD#1	3	Fee/Fee	05-033-06078		9/9/83	11/1/1983	8/13/12	N/A	-	N/A	N/A	rangeland	Yes	No pit constructed. Form 27 approved. No further action necessary.

EXHIBIT A

JUNE 30, 2016 STATUS TABLE

Well Information						Spud Dates		Pit Information				Landowner Information	Water Wells	Status
Well Name	Category in KM letters	Surface/Mineral	API #	Facility ID No.	APD Approved	Spud Date	Re-entry Spud Date	Pit Permit	Document No.	Pit Permit Date	Physical Pit Closure	Land Use	Water Well Within 1/2 Mile of the Wellhead	
DWD-1X	3	Fee/Fee	05-033-06129	289825	12/29/06	not drilled		Yes - 289825		4/24/07	N/A	crop land	NA	No pit constructed. Form 27 approved. No further action necessary.
HB-6	3	Fee/Fed	05-083-06699	429155	4/24/12	3/2/2013		Yes - 429155	400254792	6/6/12	N/A	crop land	No	No pit constructed. Form 27 approved. No further action necessary.
HE-6	3	Fee/Fed	05-083-06700	429156	4/26/12	4/24/2013		Yes - 429156	400254793	6/6/12	N/A	non-crop land	No	No pit constructed. Form 27 approved. No further action necessary.
YB-6	3	Fee/Fed	05-083-06696	428411	3/20/12	1/3/2013		Yes - 428411	400254413	3/30/12	N/A	crop land	Yes	No pit constructed. Form 27 approved. No further action necessary.
Closed Per BLM Requirements														
YB-4	2	Fed/Fed	05-083-06587		6/21/98	5/29/2001		No			2002	CANM	No	KM requesting documentation from BLM
HE-5	2	Fed/Fed	05-083-06601		3/6/03	9/10/2002		No			2003	CANM	No	KM requesting documentation from BLM
SC10	2	Fed/Fed	05-083-06604		3/12/03	10/6/2002		No			2003	CANM	No	KM requesting documentation from BLM
HC-4*	2	Fed/Fed	05-083-06681		11/23/09	10/4/2003		No			2004	CANM	No	KM requesting documentation from BLM
DC3*	2	Fed/Fed	05-033-06133		8/28/07	7/11/2007		No			2007	BLM	No	KM requesting documentation from BLM
DC4*	2	Fed/Fed	05-033-06137		8/28/07	8/17/2007		No			2007	BLM	No	KM requesting documentation from BLM
HF-3*	2	Fed/Fed	05-083-06646		4/3/08	4/15/2007	4/2/2009	No			2007	CANM	No	KM requesting documentation from BLM
SC11*	2	Fed/Fed	05-083-06684		8/11/10	2/20/2007		No			2007	CANM	No	KM requesting documentation from BLM
DC6*	2	Fed/Fed	05-033-06134		8/28/07	9/22/2007		No			2008	BLM	No	KM requesting documentation from BLM
GP20	2	Fed/Fed	05-083-06686	419732	10/7/10	2/7/2012		Yes - 419732	2213436	3/17/11	2013	CANM	No	KM requesting documentation from BLM
GP21	2	Fed/Fed	05-083-06687	419732	10/7/10	4/17/2012		Yes - 419732	2213436	3/17/11	2013	CANM	No	KM requesting documentation from BLM
GP22	2	Fed/Fed	05-083-06689	393066	10/7/10	7/24/2011		Yes - 393066	2213434	3/17/11	2013	CANM	No	KM requesting documentation from BLM
GP23	2	Fed/Fed	05-083-06688	393066	10/7/10	11/15/2011		Yes - 393066	2213434	3/17/11	2013	CANM	No	KM requesting documentation from BLM
GP24	2	Fed/Fed	05-083-06690	419724	10/7/10	not drilled		Yes - 419724	2213435	3/17/11	2013	CANM	No	This well was never drilled
GP25	2	Fed/Fed	05-083-06685	419724	10/7/10	11/14/2012		Yes - 419721	2213435	3/17/11	2013	CANM	No	KM requesting documentation from BLM

LEGEND

- * signifies wells that were part of the 2011 final settlement between KM and COGCC
- Category 1 signifies wells for which testing and landowner approval did not take place per the COAs or no pit permit obtained
- Category 2 signifies wells located on BLM land where KM completed remediation per BLM requirements
- Category 3 signifies wells drilled with closed loop
- Category 4 Kinder Morgan has reviewed all wells previously in category 4 and moved them to category 1 or 2 if appropriate

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



RECEIVED
FOR COGCC USE ONLY
MAY 05 2016
COGCC
OGCC Employee:
 Spill Complaint
 Inspection NOAV
Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-083-06633</u> County: <u>Montezuma</u>	
Facility Name: <u>N/A</u> Facility Number: <u>N/A</u>	
Well Name: <u>Goodman Point (GP-9)</u> Well Number: <u>9</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NE 1/4 SE 1/4, Sec. 2, T36N, R18W</u> Latitude: <u>37.40433 N</u> Longitude: <u>108.79158 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Potential for CO2 well drill cuttings exceeding Pre 2008 COGCC Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): dry land farming, industrial, and non-cropland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No surface water, water wells, or residences identified within 1/2 mile of location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	<u>See attached assessment scope</u>
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface Water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells within 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC to review assessment results and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for the consideration and approval of the COGCC.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2
REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location. The depth to the Dakota-Glen Canyon aquifer system in this area is anticipated to be between 800-1,200 feet below ground surface.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 5-3-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 5/18/16



General Scope of Work for Goodman Point (GP-9)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table Pre 2008 Table 910

Groundwater Assessment

No groundwater wells were identified within ½ mile of this well location. Based on the regional direction of flow of the Dakota-Glen Canyon aquifer system and estimated depth of this regional aquifer (between 800-1,200 feet below ground surface), impacts to groundwater resources in this area are not anticipated.

Site Assessment

This site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the "clean" soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.
- Photograph each full diameter split spoon for inclusion in the assessment report.

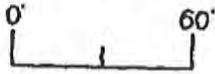
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the pre 2008 COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to the bottom of the boring.
 - The bottom boring sample.
 - Please note that groundwater is not anticipated to be encountered, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the pre 2008 COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material.

Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

RECEIVED
 SEP 20 2007
COGCC

GP - 9
 pad planview

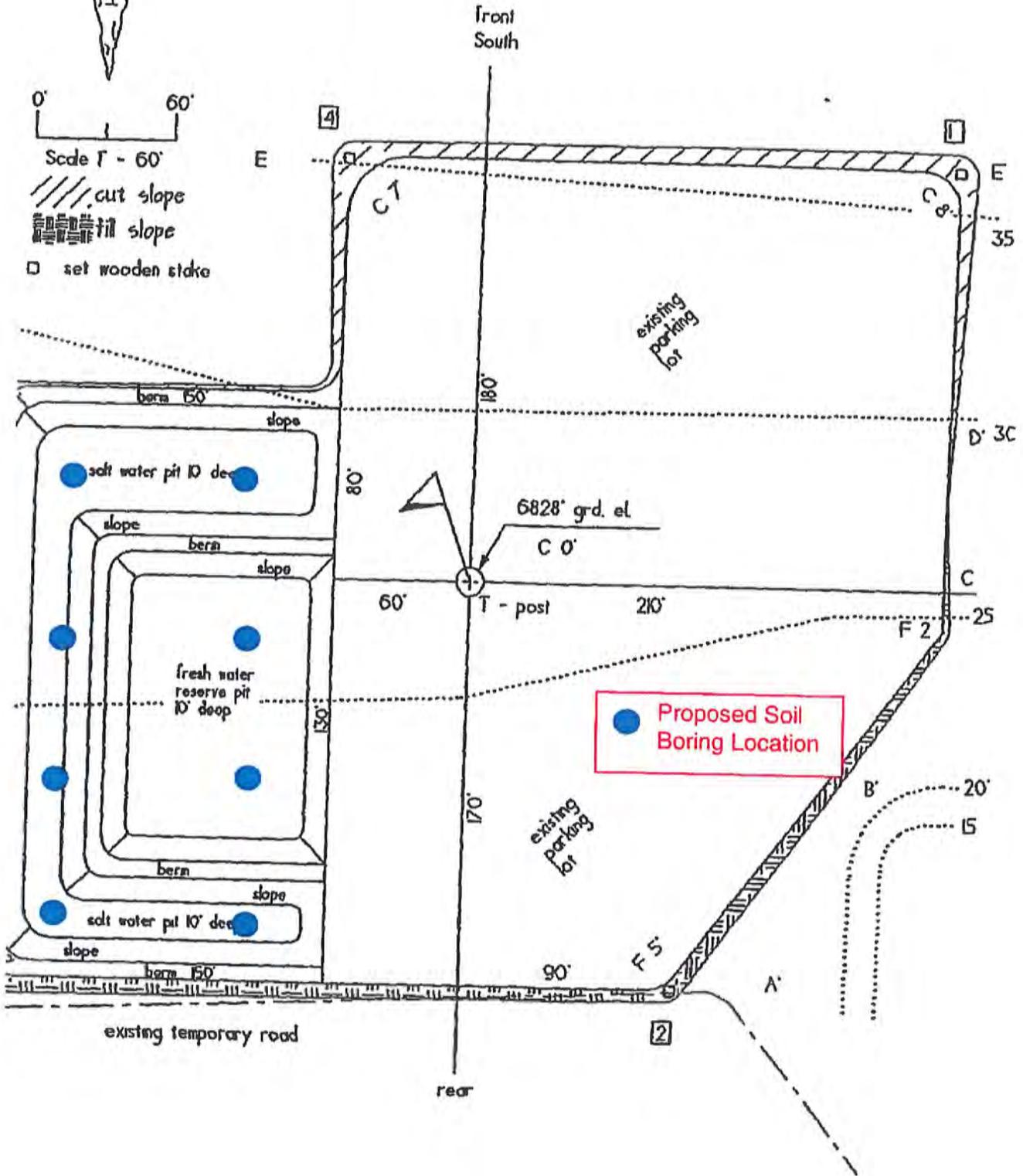


Scale 1" = 60'

/// cut slope

▨ fill slope

□ set wooden stake



**Kinder Morgan CO₂ Co., NESE Section 2, T36N, R18W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jimo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules. Given that there is no evidence or documentation of pit closure, the current COGCC Rules and Regulations effective May 1, 2009 on federal lands and April 1, 2009 on fee surface shall apply.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Preliminary review of Colorado Division of Water Resources water well information indicates nearest static water levels to range from 40-130 ft. bgs. Kinder Morgan shall advance an addition boring to a depth of 50 ft. bgs at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 ft. boring, a water sample will be collected and submitted for analysis by the current COGCC Table 910-1 constituents.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



RECEIVED
FOR OGCC USE ONLY
MAY 05 2016
COGCC

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

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Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

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Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	

API Number: <u>05-083-06635</u>	County: <u>Montezuma</u>
Facility Name: <u>N/A</u>	Facility Number: <u>N/A</u>
Well Name: <u>Goodman Point (GP-11)</u>	Well Number: <u>11</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NW 1/4 SW 1/4, Sec. 1, T36N, R18W</u> Latitude: <u>37.40675 N</u> Longitude: <u>108.79003 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential for CO2 well drill cuttings exceeding Pre 2008 COGCC Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): cultivated, dry land farming, industrial, and non-cropland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No surface water, water wells, or residences identified within 1/2 mile of location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	<u>See attached assessment scope</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells within 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC to review assessment results and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for the consideration and approval of the COGCC.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2
REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location. The depth to the Dakota-Glen Canyon aquifer system in this area is anticipated to be between 800-1,200 feet below ground surface.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 5-3-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 5/18/16



General Scope of Work for Goodman Point (GP-11)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table
Pre 2008 Table 910

Groundwater Assessment

No groundwater wells were identified within ½ mile of this well location. Based on the regional direction of flow of the Dakota-Glen Canyon aquifer system and estimated depth of this regional aquifer (between 800-1,200 feet below ground surface), impacts to groundwater resources in this area are not anticipated.

Site Assessment

This site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the “clean” soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.
- Photograph each full diameter split spoon for inclusion in the assessment report.

- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the pre 2008 COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to the bottom of the boring.
 - The bottom boring sample.
 - Please note that groundwater is not anticipated to be encountered, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the pre 2008 COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material.

Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

RECEIVED
 SEP 27 2007
 GE-
COGCC
 pad plan



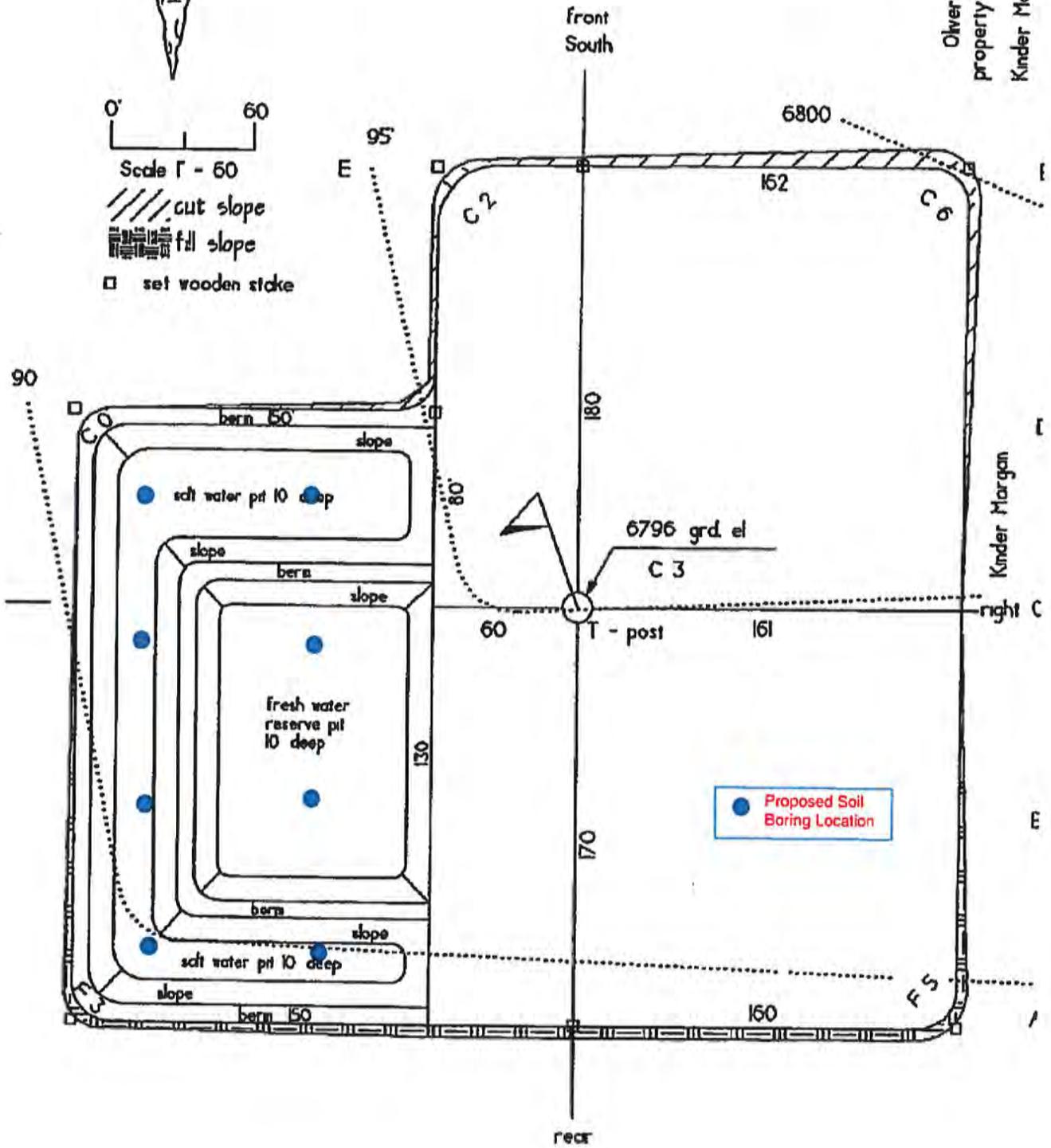
Scale 1" = 60'

/// cut slope

||||| fill slope

□ set wooden stake

Oliver
 property line
 Kinder Morgan



Proposed Soil Boring Location

Remediation Project Number: 9671 (Document #200439562)

Location ID: 313611

**Kinder Morgan CO₂ Co., NWSW Section 1, T36N, R18W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jimo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules. Given that there is no evidence or documentation of pit closure, the current COGCC Rules and Regulations effective May 1, 2009 on federal lands and April 1, 2009 on fee surface shall apply.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Preliminary review of Colorado Division of Water Resources water well information indicates nearest static water levels to range from 40-130 ft. bgs. Kinder Morgan shall advance an addition boring to a depth of 50 ft. bgs at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 ft. boring, a water sample will be collected and submitted for analysis by the current COGCC Table 910-1 constituents.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

State of Colorado
Oil and Gas Conservation Commission



RECEIVED
MAY 05 2016
COGCC
Oil and Gas Conservation Commission
 Spill Complaint
 Inspection NOAV
Tracking No:

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Anlipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-083-06645</u> County: <u>Montezuma</u>	
Facility Name: <u>N/A</u> Facility Number: <u>N/A</u>	
Well Name: <u>Goodman Point (GP-13)</u> Well Number: <u>13</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SE 1/4, SE 1/4, Sec 32, T37N, R17W</u> Latitude: <u>37.41371 N</u> Longitude: <u>108.73823 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential for CO2 well drill cuttings exceeding Pre 2008 Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Dry Land Farming, Rangeland, residential

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Residence with a water well located approximately 400 feet east southeast of this location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	
<input type="checkbox"/> Vegetation		
<input checked="" type="checkbox"/> Groundwater	<u>Not yet determined</u>	
<input type="checkbox"/> Surface Water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells winin 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, Insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for teh consideration and approval of the COGCC.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2
REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location, however, there is a residence within 400 feet of the location with a water well. This water well is approximately 400 feet East, Southeast of the well location. Residence in this area are connected to a municipal water system. An additional boring will be advanced to a depth of 50 feet below ground surface at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 foot boring, a water sample will be collected and submitted for analysis by the pre 2008 COGCC Table 910 constituents.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeded program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 5-3-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 5/17/16



General Scope of Work for Goodman Point (GP-13)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table

Pre 2008 Table 910

Groundwater Anticipated

A residence approximately 400 feet to the east, southeast of the location contains a water well. Residences in this area are also connected to the local water supply system. Kinder Morgan will advance a soil boring to a depth of up to 50 feet in depth to evaluate the potential for shallow groundwater in the area.

Site Assessment

The site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the “clean” soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- One soil boring to a depth of 50 feet below ground surface (or until groundwater is encountered) including soil sampling and water sampling (if encountered).
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. Also, an additional soil borings will be advanced outside of the pit area to either 50 feet in depth or until groundwater is encountered. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.

- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.
- Photograph each full diameter split spoon for inclusion in the assessment report.
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the pre 2008 COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to 20 feet bgs.
 - The bottom boring sample.
 - The deeper soil boring will only have a 1 foot soil sample collected every 5 feet to the total depth of the boring. The highest chloride sample interval and the sample from the bottom of the boring will be submitted for laboratory analysis. In addition, if groundwater is encountered, a water sample will be collected and submitted for analysis by the pre 2008 COGCC Table 910 constituents.
 - Please note that groundwater is not anticipated to be encountered in the shallow borings, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the applicable COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material. There may be a few locations where placing the drill cuttings on plastic will be required. If so, the cuttings will be moved from the former drilling pit location and placed on the adjacent Kinder Morgan CO2 well pad and stored in a manner acceptable to the COGCC.

Summary Report:

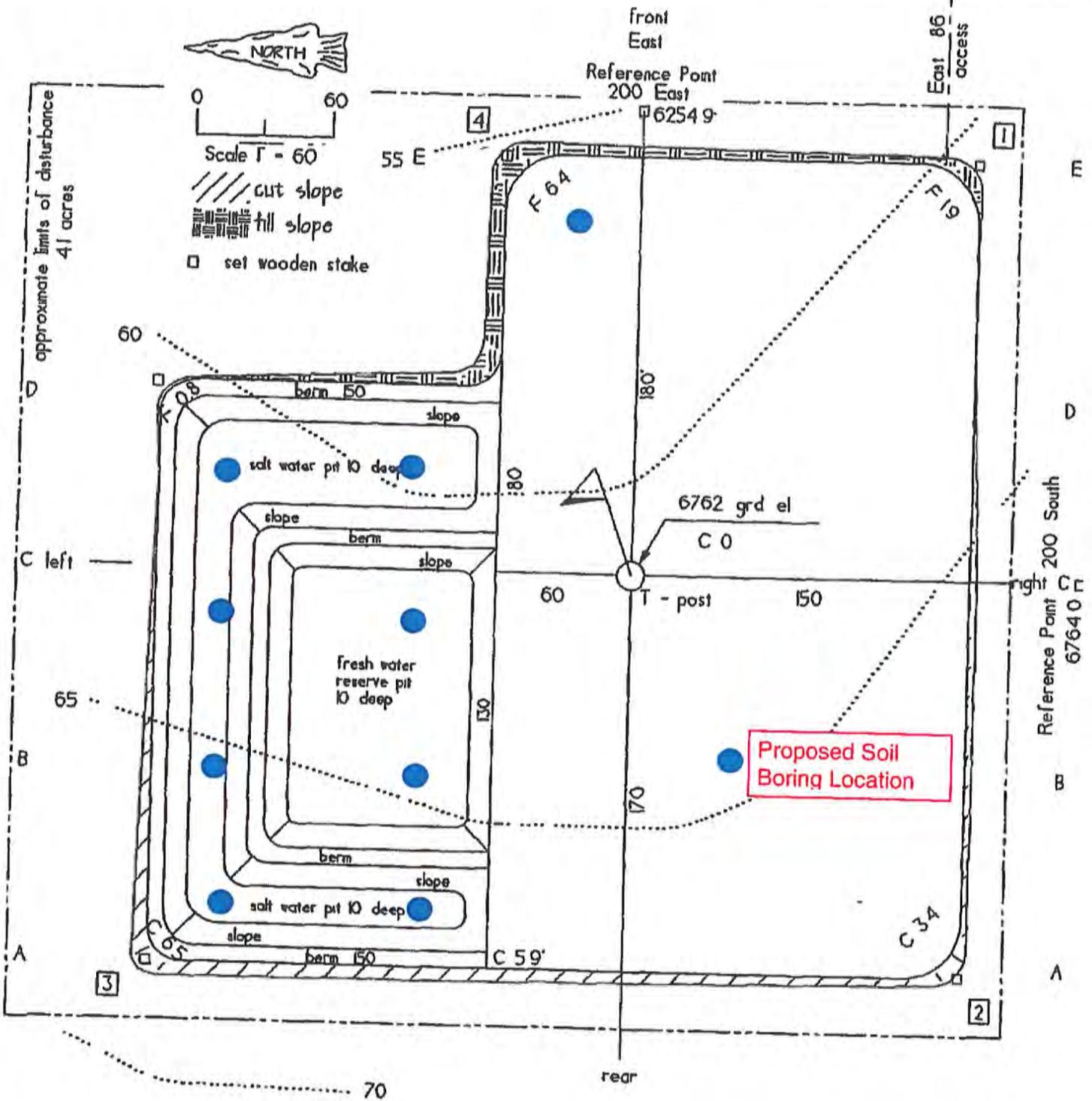
Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

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JAN 28 2008 GP - 13

COGCC grad planview

CR 17



**Kinder Morgan CO₂ Co., SESE Section 32, T37N, R17W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jimo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules. Given that there is no evidence or documentation of pit closure, the current COGCC Rules and Regulations effective May 1, 2009 on federal lands and April 1, 2009 on fee surface shall apply.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission



RECEIVED
MAY 05 2016
COGCC
OGCC Employee
 Spill Complaint
 Inspection NOAV
Tracking No:

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-083-06634</u> County: <u>Montezuma</u>	
Facility Name: <u>N/A</u> Facility Number: <u>N/A</u>	
Well Name: <u>Goodman Point (GP-12)</u> Well Number: <u>12</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SE 1/4, SE 1/4, Sec 6, T36N, R17W</u> Latitude: <u>37.40236 N</u> Longitude: <u>108.75540 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential for CO2 well drill cuttings exceeding Pre 2008 Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Dry Land Farming

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Residence with a water well located approximately 1/4 mile south of this location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	
<input type="checkbox"/> Vegetation		
<input checked="" type="checkbox"/> Groundwater	<u>Not yet determined</u>	
<input type="checkbox"/> Surface Water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells winin 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for teh consideration and approval of the COGCC.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location, however, there is a residence within 1/2 mile of the location with a water well. This water well is approximately 1/4 mile South Southeast of the well location. Residence in this area are connected to a municipal water system. An additional boring will be advanced to a depth of 50 feet below ground surface at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 foot boring, a water sample will be collected and submitted for analysis by the pre 2008 COGCC Table 910 constituents.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas

Signed: Andrew Antipas

Title: Project Manager

Date: 5-3-2016

OGCC Approved: _____

Title: Environmental Protection Specialist

Date: 5/18/16



General Scope of Work for Goodman Point (GP-12)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table

Pre 2008 Table 910

Groundwater Anticipated

A residence approximately ¼ miles to the south, southeast of the location contains a water well. Residences in this area are also connected to the local water supply system. Kinder Morgan will advance a soil boring to a depth of up to 50 feet in depth to evaluate the potential for shallow groundwater in the area.

Site Assessment

The site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the “clean” soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- One soil boring to a depth of 50 feet below ground surface (or until groundwater is encountered) including soil sampling and water sampling (if encountered).
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. Also, an additional soil borings will be advanced outside of the pit area to either 50 feet in depth or until groundwater is encountered. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.

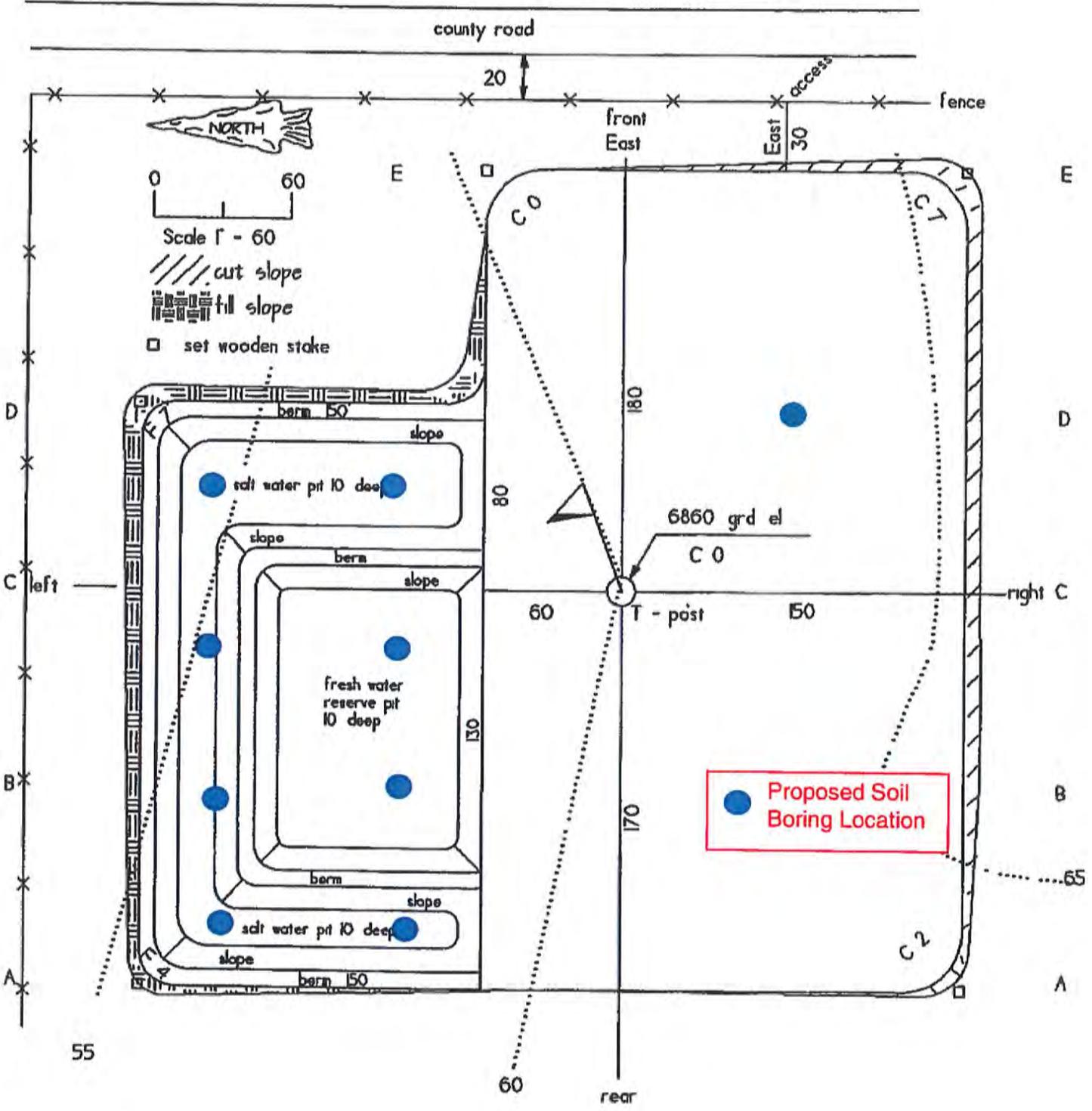
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.
- Photograph each full diameter split spoon for inclusion in the assessment report.
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the pre 2008 COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to 20 feet bgs.
 - The bottom boring sample.
 - The deeper soil boring will only have a 1 foot soil sample collected every 5 feet to the total depth of the boring. The highest chloride sample interval and the sample from the bottom of the boring will be submitted for laboratory analysis. In addition, if groundwater is encountered, a water sample will be collected and submitted for analysis by the pre 2008 COGCC Table 910 constituents.
 - Please note that groundwater is not anticipated to be encountered in the shallow borings, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the applicable COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material. There may be a few locations where placing the drill cuttings on plastic will be required. If so, the cuttings will be moved from the former drilling pit location and placed on the adjacent Kinder Morgan CO2 well pad and stored in a manner acceptable to the COGCC.

Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

RECEIVED
SEP 27 2007
COGCC

GP - 12
pad planview



**Kinder Morgan CO₂ Co., SESE Section 6, T36N, R17W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jim.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules. Given that there is no evidence or documentation of pit closure, the current COGCC Rules and Regulations effective May 1, 2009 on federal lands and April 1, 2009 on fee surface shall apply.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

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SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee

Spill Complaint
 Inspection NOAV

Tracking No: _____

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	

API Number: <u>05-083-06649</u>	County: <u>Montezuma</u>
Facility Name: <u>N/A</u>	Facility Number: <u>N/A</u>
Well Name: <u>Goodman Point (GP-16)</u>	Well Number: <u>16</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NW 1/4, NW 1/4, Sec 33, T37N, R17W</u> Latitude: <u>37.42572 N</u> Longitude: <u>108.73514 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Potential for CO2 well drill cuttings exceeding Current Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Dry Land Farming

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well located approximately 1,000 feet south of this location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	_____
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>Not yet determined</u>	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
To date the only initial actions that have taken place is to conduct a water well review to identify water wells winin 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:
Upon completion of assessment activities, Kinder Morgan will meet with COGCC and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for teh consideration and approval of the COGCC.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2
REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location, however, there is a water well located with 1/2 mile of this location. This water well is approximately 1,000 feet South of the well location. Residence in this area are connected to a municipal water system. An additional boring will be advanced to a depth of 50 feet below ground surface at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 foot boring, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 5-3-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 5/10/16



General Scope of Work for Goodman Point (GP-16)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table

Current Table 910

Groundwater Anticipated

There is a water well located approximately 1,000 feet to the south of the location. Residences in this area are also connected to the local water supply system. Kinder Morgan will advance a soil boring to a depth of up to 50 feet in depth to evaluate the potential for shallow groundwater in the area.

Site Assessment

The site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the "clean" soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- One soil boring to a depth of 50 feet below ground surface (or until groundwater is encountered) including soil sampling and water sampling (if encountered).
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. Also, an additional soil borings will be advanced outside of the pit area to either 50 feet in depth or until groundwater is encountered. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.

- Photograph each full diameter split spoon for inclusion in the assessment report.
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the current COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to 20 feet bgs.
 - The bottom boring sample.
 - The deeper soil boring will only have a 1 foot soil sample collected every 5 feet to the total depth of the boring. The highest chloride sample interval and the sample from the bottom of the boring will be submitted for laboratory analysis. In addition, if groundwater is encountered, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.
 - Please note that groundwater is not anticipated to be encountered in the shallow borings, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the applicable COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material. There may be a few locations where placing the drill cuttings on plastic will be required. If so, the cuttings will be moved from the former drilling pit location and placed on the adjacent Kinder Morgan CO2 well pad and stored in a manner acceptable to the COGCC.

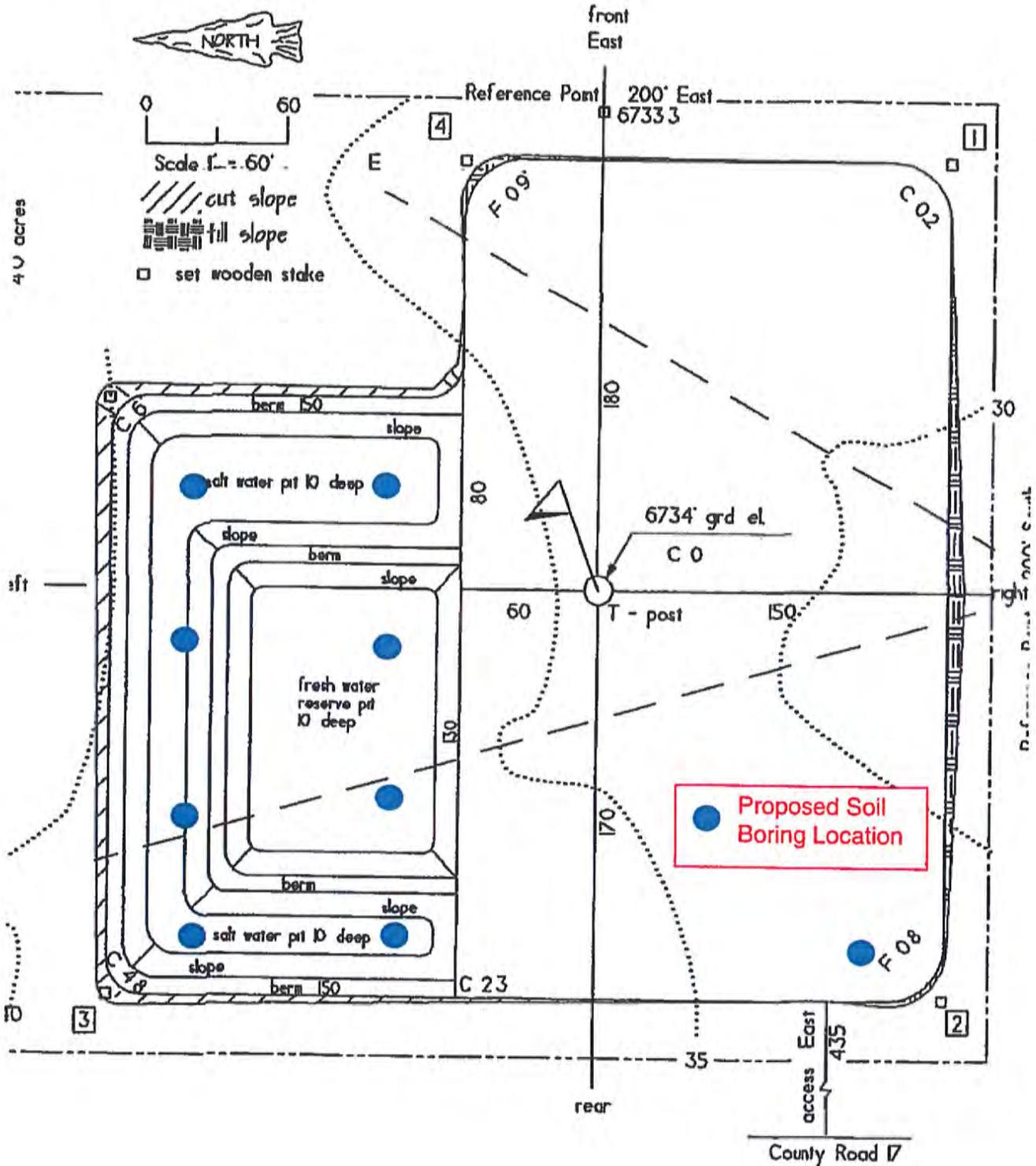
Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

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COGCC



Remediation Project Number: 9663 (Document #200439546)

Location ID: 313624

Kinder Morgan CO₂ Co., NWNW Section 33, T37N, R17W, N PM, Montezuma County, Colorado, Form 27 Conditions of Approval (COAs)

Conditions of Approval:

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jimo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

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SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

Spill Complaint
 Inspection NOAV
Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-033-06171</u> County: <u>Dolores</u>	
Facility Name: <u>N/A</u> Facility Number: <u>N/A</u>	
Well Name: <u>Doe Canyon (DC-11)</u> Well Number: <u>11</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NE 1/4, SW 1/4, Sec 15, T40N, R18W</u> Latitude: <u>37.73262 N</u> Longitude: <u>108.83427 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential for CO2 well drill cuttings exceeding Current Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Dry land farming - CRP

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well located approximately 1/2 mile east of this location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	
<input type="checkbox"/> Vegetation		
<input checked="" type="checkbox"/> Groundwater	<u>Not yet determined</u>	
<input type="checkbox"/> Surface Water		

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells winin 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for the consideration and approval of the COGCC.



Tracking Number: Name of Operator: OGCC Operator No: Received Date: Well Name & No: Facility Name & No:

REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location, however, there is a water well located with 1/2 mile of this location. This water well is approximately 1/2 mile east of the well location. An additional boring will be advanced to a depth of 50 feet below ground surface at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 foot boring, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? [] Y [] N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: Date Remediation Plan Submitted: Remediation Start Date: Anticipated Completion Date: Actual Completion Date:

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

Print Name: Andrew Antipas Signed: Andrew Antipas Title: Project Manager Date: 5-19-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/2/16



General Scope of Work for Doe Canyon (DC-11)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table

Current Table 910

Groundwater Anticipated

There is a water well located approximately ½ mile to the east of the location. Kinder Morgan will advance a soil boring to a depth of up to 50 feet in depth to evaluate the potential for shallow groundwater in the area.

Site Assessment

The site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the “clean” soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- One soil boring to a depth of 50 feet below ground surface (or until groundwater is encountered) including soil sampling and water sampling (if encountered).
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

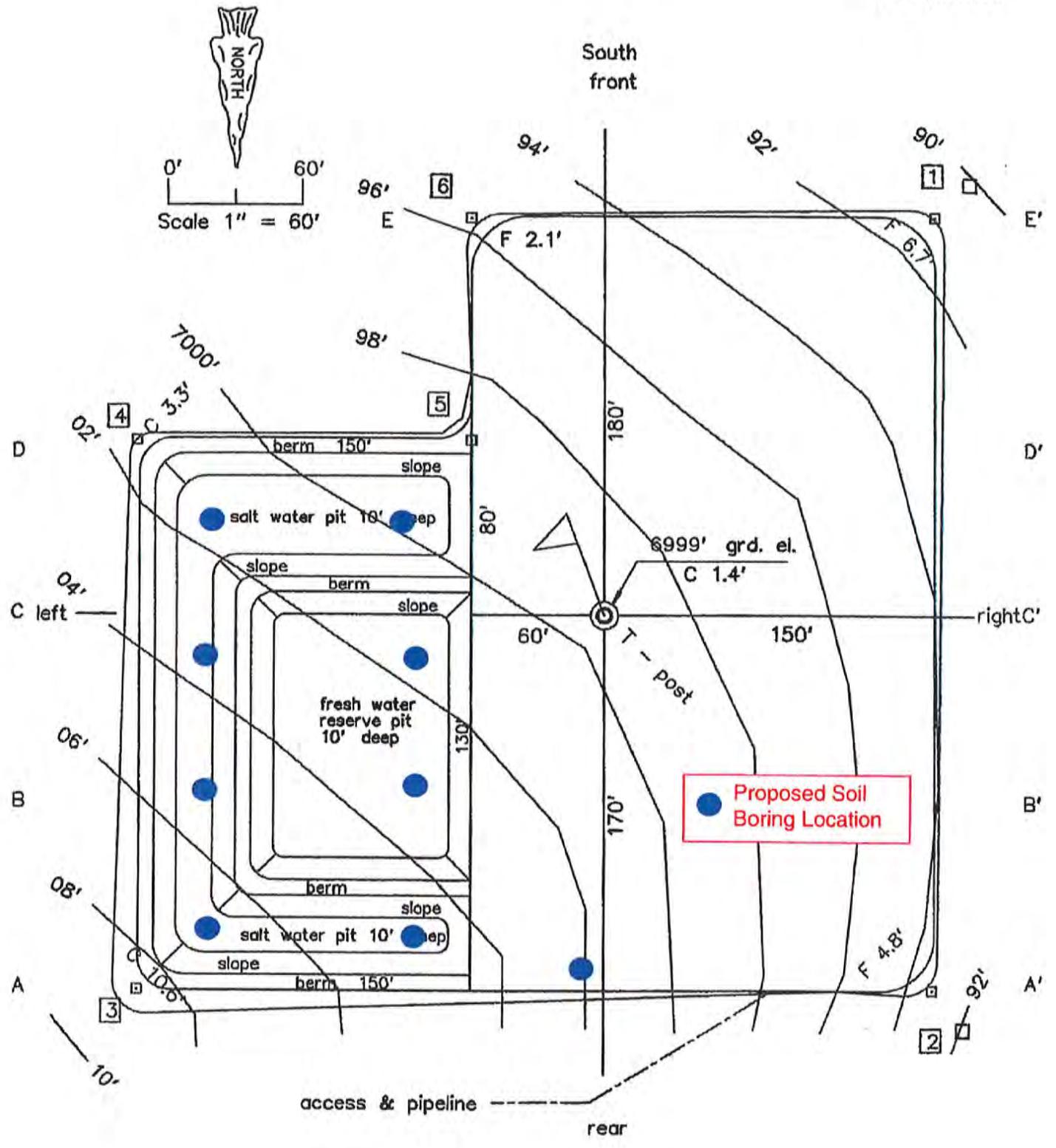
Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. Also, an additional soil borings will be advanced outside of the pit area to either 50 feet in depth or until groundwater is encountered. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.

- Photograph each full diameter split spoon for inclusion in the assessment report.
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the current COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to 20 feet bgs.
 - The bottom boring sample.
 - The deeper soil boring will only have a 1 foot soil sample collected every 5 feet to the total depth of the boring. The highest chloride sample interval and the sample from the bottom of the boring will be submitted for laboratory analysis. In addition, if groundwater is encountered, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.
 - Please note that groundwater is not anticipated to be encountered in the shallow borings, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the applicable COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material. There may be a few locations where placing the drill cuttings on plastic will be required. If so, the cuttings will be moved from the former drilling pit location and placed on the adjacent Kinder Morgan CO2 well pad and stored in a manner acceptable to the COGCC.

Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.



References:

- N 41°06' 24" W 248.43' 6991.9' el.
- S 40°30' 44" W 255.59' 6990.4' el.

**Kinder Morgan CO₂ Co., NWSE Section 15, T40N, R18W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jimo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

State of Colorado
Oil and Gas Conservation Commission



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SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

- Spill Complaint
 Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

- Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	

API Number: <u>05-083-06640</u>	County: <u>Montezuma</u>
Facility Name: <u>N/A</u>	Facility Number: <u>N/A</u>
Well Name: <u>Goodman Point (GP-17)</u>	Well Number: <u>17</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NE 1/4, SE 1/4, Sec 31, T37N, R17W</u> Latitude: <u>37.418999 N</u> Longitude: <u>108.756248 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential for CO2 well drill cuttings exceeding Current Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Dry Land Farming

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well located approximately 2,100 feet south of this location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	_____
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>Not yet determined</u>	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells winin 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for the consideration and approval of the COGCC.



Tracking Number: Name of Operator: OGCC Operator No: Received Date: Well Name & No: Facility Name & No:

REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location, however, there is a water well located with 1/2 mile of this location. This water well is approximately 2,100 feet South of the well location. Residence in this area are connected to a municipal water system. An additional boring will be advanced to a depth of 50 feet below ground surface at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 foot boring, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? [] Y [] N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: Date Remediation Plan Submitted: Remediation Start Date: Anticipated Completion Date: Actual Completion Date:

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

Print Name: Andrew Antipas Signed: Andrew Antipas Title: Project Manager Date: 5-19-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/2/16



General Scope of Work for Goodman Point (GP-17)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table

Current Table 910

Groundwater Anticipated

There is a water well located approximately 2,100 feet to the south of the location. Residences in this area are also connected to the local water supply system. Kinder Morgan will advance a soil boring to a depth of up to 50 feet in depth to evaluate the potential for shallow groundwater in the area.

Site Assessment

The site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the “clean” soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- One soil boring to a depth of 50 feet below ground surface (or until groundwater is encountered) including soil sampling and water sampling (if encountered).
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. Also, an additional soil borings will be advanced outside of the pit area to either 50 feet in depth or until groundwater is encountered. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.

- Photograph each full diameter split spoon for inclusion in the assessment report.
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the current COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to 20 feet bgs.
 - The bottom boring sample.
 - The deeper soil boring will only have a 1 foot soil sample collected every 5 feet to the total depth of the boring. The highest chloride sample interval and the sample from the bottom of the boring will be submitted for laboratory analysis. In addition, if groundwater is encountered, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.
 - Please note that groundwater is not anticipated to be encountered in the shallow borings, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the applicable COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material. There may be a few locations where placing the drill cuttings on plastic will be required. If so, the cuttings will be moved from the former drilling pit location and placed on the adjacent Kinder Morgan CO2 well pad and stored in a manner acceptable to the COGCC.

Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

GP - 17

pad planview

REVISED
FEB 06 2008
CCCCC



0 60

Scale 1" = 60'

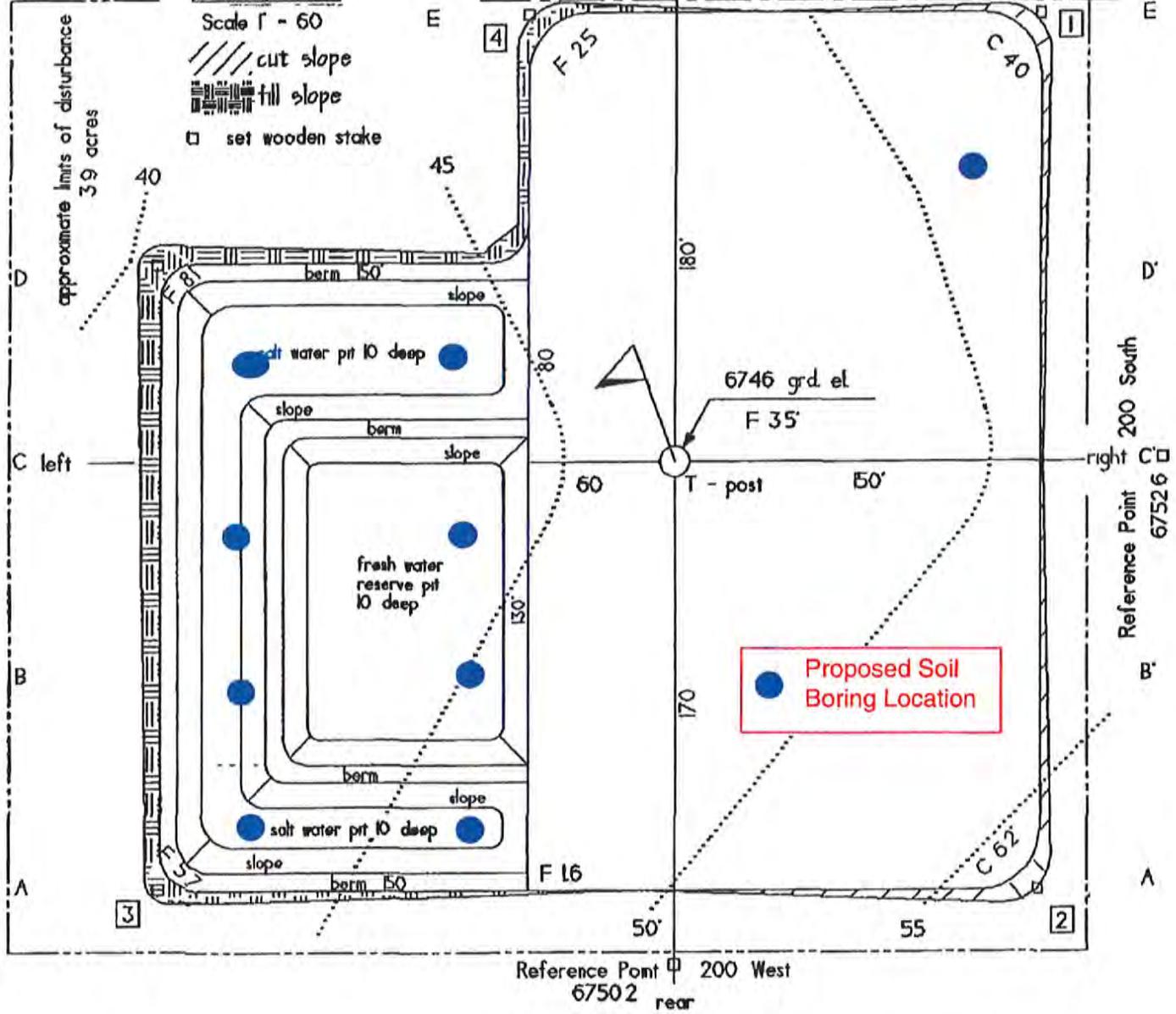
/// cut slope

▨ fill slope

□ set wooden stake

front East

Empire Electric substation access/dirt road



approximate limits of disturbance
39 acres

salt water pit 10 deep

fresh water
reserve pit
10 deep

6746 grd. el.

F 35'

T - post

Proposed Soil
Boring Location

Reference Point 200 West
67502 rear

Reference Point 200 South
67526

**Kinder Morgan CO₂ Co., NESE Section 31, T37N, R17W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jimo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

- Spill Complaint
 Inspection NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

- Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Evaluation of Former Drilling Pit Area

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Co</u>	No: <u>970-882-5534</u>
Address: <u>17801 Hwy 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-083-06655</u> County: <u>Montezuma</u>	
Facility Name: <u>N/A</u> Facility Number: <u>N/A</u>	
Well Name: <u>Goodman Point (GP-19)</u> Well Number: <u>19</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NW 1/4, SW 1/4, Sec 5, T36N, R17W</u> Latitude: <u>37.406012 N</u> Longitude: <u>108.754744 W</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential for CO2 well drill cuttings exceeding Current Table 910-1 concentrations

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Farm Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Submitted on previous Form 2A

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Water well located approximatly 2,200 feet north of this location.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Not yet determined</u>	_____
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>Not yet determined</u>	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

To date the only initial actions that have taken place is to conduct a water well review to identify water wells winin 1/2 mile of the location and the preparation of the attached scope of work for the assessment of the former drilling pit location.

Describe how source is to be removed:

Upon completion of assessment activities, Kinder Morgan will meet with COGCC and present a Remediation Work plan if subsurface conditions warrant.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Upon the completion of the assessment activities, Kinder Morgan will submit the results to the COGCC along with any remediation plans (as needed) for the consideration and approval of the COGCC.



Tracking Number: _____ Name of Operator: _____ OGCC Operator No: _____ Received Date: _____ Well Name & No: _____ Facility Name & No: _____

Page 2 REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

There are no anticipated impacts to groundwater at this location, however, there is a water well located with 1/2 mile of this location. This water well is approximately 2,200 feet north of the well location. Residence in this area are connected to a municipal water system. An additional boring will be advanced to a depth of 50 feet below ground surface at the location to evaluate the potential for shallow groundwater in the area. If groundwater is present in this 50 foot boring, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

If a remediation plan is deemed necessary, Kinder Morgan will address any needed reclamation activities within the remediation plan. This would be completed after Kinder Morgan submits the soil assessment report to the COGCC.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No soil samples are available at this time. Proposed soil boring locations are presented on the figure included within the attached general scope of work.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

If offsite disposal of any material is deemed necessary, a properly licensed disposal facility will be used.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2Q 2016 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____ Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas Title: Project Manager Date: 5-19-2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/2/16



General Scope of Work for Goodman Point (GP-19)

Kinder Morgan CO2 – McElmo Dome and Doe Canyon Units
SW Colorado

Applicable COGCC 910 Table

Current Table 910

Groundwater Anticipated

There is a water well located approximately 2,200 feet to the north of the location. Residences in this area are also connected to the local water supply system. Kinder Morgan will advance a soil boring to a depth of up to 50 feet in depth to evaluate the potential for shallow groundwater in the area.

Site Assessment

The site assessment is intended to collect current data from the former drilling pit location including:

- Photographic documentation of current surface vegetation and current land use.
- Soil samples from 8 boring locations within the former pit area to gather the following data:
 - Thickness of the “clean” soil cap and collection of soil samples to determine constituents of the boring.
 - Thickness of any drilling material left in the former drilling pit and soil samples to evaluate current concentrations of applicable constituents.
 - Document the presence or absence of any liner material.
 - Depth to native soils below the former drilling pit.
- One soil boring to a depth of 50 feet below ground surface (or until groundwater is encountered) including soil sampling and water sampling (if encountered).
- GPS coordinates of each soil boring location.
- Summary report

Soil Boring Program:

Eight soil borings will be advanced to native soils below the former drilling pit location to assess the current conditions of the former drilling pits. Borings will not extend more than 2 feet below the bottom of the former drilling pit. Also, an additional soil borings will be advanced outside of the pit area to either 50 feet in depth or until groundwater is encountered. The soil boring program will be conducted as follows:

- All necessary utility notifications will be made prior to advancing soil borings.
- A hollow stem auger rig will be utilized to collect a continuous sample of each boring.

- Photograph each full diameter split spoon for inclusion in the assessment report.
- Field screen a sample of each 1 foot interval for total chloride concentration and note on a boring log. Jar the remainder of the sample for potential laboratory analysis for constituents identified on the current COGCC Table 910. The typical sample submittal for laboratory analysis for each boring will be as follows:
 - Highest chloride sample interval observed from the surface to 3 feet bgs.
 - Highest chloride concentration of the visually identified drilling waste. If no waste is visible, the highest observed chloride concentration from 3 feet bgs to 20 feet bgs.
 - The bottom boring sample.
 - The deeper soil boring will only have a 1 foot soil sample collected every 5 feet to the total depth of the boring. The highest chloride sample interval and the sample from the bottom of the boring will be submitted for laboratory analysis. In addition, if groundwater is encountered, a water sample will be collected and submitted for analysis by the current COGCC Table 910 constituents.
 - Please note that groundwater is not anticipated to be encountered in the shallow borings, however, perched water may be encountered in the bottom of the hole in select locations. If groundwater is encountered, a sample will be submitted for analysis as well by the applicable COGCC Table 910 constituents.
- Collect the GPS coordinate for each boring with an accuracy of less than 1 foot.
- Backfill each boring with removed material. There may be a few locations where placing the drill cuttings on plastic will be required. If so, the cuttings will be moved from the former drilling pit location and placed on the adjacent Kinder Morgan CO2 well pad and stored in a manner acceptable to the COGCC.

Summary Report:

Upon completion of the site assessment activities, a summary report will be completed. This summary report should contain all sampling information, including sampling data from laboratory, and drawings of sampling sites.

**Kinder Morgan CO₂ Co., NWSW Section 5, T36N, R17W, N PM, Montezuma County, Colorado, Form 27
Conditions of Approval (COAs)**

Conditions of Approval:

COGCC approval is contingent on operator providing notice to SW Environmental Protection Specialist Jim Hughes, jjmo.hughes@state.co.us or 970-903-4072 a minimum of 72 hours prior to conducting field operations.

Conditionally approved, however, additional information or activities may be required during the course of remediation/reclamation.

The operator shall collect discrete soil samples to adequately characterize impacted material. Composite samples will NOT be accepted for this purpose. Current COGCC Rules and Regulations regarding pit closures and clean-up standards shall be applied, specifically, but not limited to, the 900 and 1000 series rules.

Should impacted material be discovered, regardless of size, the operator shall document the source and location, the impacted media and the extent of impact, how and when the operator plans to remediate the impacts, the final disposition of any impacted material removed from the location, as well as analytical results from confirmation samples.

Boreholes shall be abandoned per the Colorado Division of Water Resources Water Well Construction Rules.

If any impacted material generated during investigation is temporarily stored on adjacent well pad per COGCC rules and regulations, a Form 4 Sundry Notice shall be submitted by the Operator stating the reason and estimated timeline proposed for the storage of impacted material.

Surface reclamation must meet the COGCC 1000 series rules. Approval of this Form 27 does not imply approval of the reclamation plan submitted by the operator. The operator shall contact the COGCC regional reclamation specialist (Catherine Roy) regarding compliance with 1000 series Rules.

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax:(303)894-2109



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2

REMEDATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

NA

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

NA

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

As previously discussed, though permitted the well pad and reserve pit were never constructed. No additional sampling is required.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 4/6/2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/23/16

Newer
Built or Drilled



01733040

FORM
15
Rev 8/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax: (303)894-2109



RECEIVED
FOR OGCC USE ONLY
JAN - 4 07
COGCC

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the
Attachment Checklist

FORM SUBMITTED FOR:

Pit Report Pit Permit

Oper OGCC

Detailed Site Plan	X	✓
Topo Map w/ Pit Location	X	✓
Water Analysis (Form 26)		
Source Wells (Form 26)		
Pit Design/Plan & Cross Sec	X	✓
Design Calculations	X	✓
Sensitive Area Detarm	X	✓
Mud Program	X	✓
Form 2A	X	✓

5WD#1

OGCC Operator Number 46685
Name of Operator Kinder Morgan CO2 Company,
Address 17801 Hwy 491
City Cortez State CO Zip 81321

Contact Name and Telephone
Jeannie M. Johnston
No 970 882-5517
Fax 970 882-5521

API Number (of associated well) 05933-06129 OGCC Facility ID (of other associated facility) _____
Pit Location (Qtr, Sec, Twp, Rng, Meridian) SE1/4 SE1/4 Section 20 T40N R17W NMPM
Latitude 37.70627N Longitude 108.73984W County Dolores
Pit Use Production Drilling (Attach mud program) Special Purpose (Describe Use) _____
Pit Type Lined Unlined Surface Discharge Permit Yes No
Offsite disposal of pit contents Injection Commercial Pit/Facility Name HWD PW/Facility No _____
Attach Form 28 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" Yes No Attach data used for determination.
Distance (in feet) to nearest surface water 4000' ground water N/A water wells N/A
LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use
Crop Land Irrigated Dry Land Improved Pasture Hay Meadow CRP
Non-Crop Land Rangeland Timber Recreational Other (describe) _____
Subdivided Industrial Commercial Residential
SOILS (or attach copy of Form 2A if previously submitted for associated well)
Soil map units from USNRCS survey Sheet No 10 Soil Complex/Series No 145
Soils Series Name Wetherill Loam Horizon thickness (in inches) A 0-7" , B 7-31" , C 31-48"
Soils Series Name _____ Horizon thickness (in inches) A _____ , B _____ , C _____
Attach detailed site plan and topo map with pit location

Pit Design and Construction

Size of pit (feet) Length 250' Width 150' Depth 10'
Calculated pit volume (bbls) 43,194 Daily inflow rate (bbls/day) _____
Daily disposal rates (attach calculations) Evaporation _____ bbls/day Percolation _____ bbls/day
Type of liner material PVC Thickness 30 MIL
Attach description of proposed design and construction (include sketches and calculations).
Method of treatment of produced water prior to discharge into pit (separator, heater treater, other) _____
Is pit fenced? Yes No Is pit netted? Yes No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name Jeannie M. Johnston Signed Jeannie M. Johnston
Title Business Supervisor Date 12/29/06

OGCC Approved Karen Perry Title EPS II Date 4/24/07

CONDITIONS OF APPROVAL, IF ANY:

see attached

FACILITY NUMBER: 289825

Inspector Name: ROY, CATHERINE

**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



DE	ET	OE	ES
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Inspection Date:
08/04/2015

Document Number:
680600059

Overall Inspection:
SATISFACTORY

FIELD INSPECTION FORM

Location Identifier	Facility ID	Loc ID	Inspector Name:	On-Site Inspection
	<u>289378</u>	<u>322125</u>	<u>ROY, CATHERINE</u>	2A Doc Num: _____

Operator Information:

OGCC Operator Number: 46685
 Name of Operator: KINDER MORGAN CO2 CO LP
 Address: 17801 HWY 491
 City: 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:

Contact Name	Phone	Email	Comment
Antipas, Andrew		andrew_antipas@kindermorg an.com	
Millican, Chris		chris_millican@kindermorgan. com	
Kennedy, Phil	970-270-7512	phil_kennedy@kindermorgan. com	
Conway, Jamie		James_Conway@kindermorg an.com	All inspections

Compliance Summary:

QtrQtr: SESE Sec: 20 Twp: 40N Range: 17W

Inspector Comment:

This is an abandoned location inspection. There is no evidence that a location was constructed and the area is consistent with surrounding bean crop. See attached photos.

Related Facilities:

Facility ID	Type	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
289378	WELL	AL	11/10/2009	LO	033-06129	DOE CANYON DISPOSAL (DWD) X-1	AL <input checked="" type="checkbox"/>
289825	PIT	AC	03/26/2007	-	-	HWD	AC

Equipment:

Location Inventory

Special Purpose Pits: _____	Drilling Pits: _____	Wells: _____	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: _____

Inspector Name: ROY, CATHERINE

Corrective Action: _____

Spills:

Type	Area	Volume	Corrective action	CA Date
------	------	--------	-------------------	---------

Multilple Spills and Releases? _____

Venting:

Yes/No	Comment

Flaring:

Type	Satisfactory/Action Required	Comment	Corrective Action	CA Date

Predrill

Location ID: 289378

Site Preparation:

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

S/AV: _____

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

Form 2A COAs:

S/AV: _____ **Comment:** _____

CA: _____ **Date:** _____

Wildlife BMPs:

S/AV: _____ **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:

Inspector Name: ROY, CATHERINE

Facility

Facility ID: 289378 Type: WELL API Number: 033-06129 Status: AL Insp. Status: AL

Environmental

Spills/Releases:

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:

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

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: _____

Comment: _____

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

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

1003c. Compacted areas have been cross ripped? _____

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

Inspector Name: ROY, CATHERINE

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? _____

Segregated soils have been replaced? _____

RESTORATION AND REVEGETATION

Cropland

Top soil replaced _____

Recontoured _____

Perennial forage re-established _____

Non-Cropland

Top soil replaced _____

Recontoured _____

80% Revegetation _____

1003 f. Weeds Noxious weeds? _____

Comment: _____

Overall Interim Reclamation _____

Final Reclamation/ Abandoned Location:

Date Final Reclamation Started: _____

Date Final Reclamation Completed: _____

Final Land Use: _____

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: Abandoned location. _____ Date _____

Overall Final Reclamation _____ Pass _____

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: _____ Corrective Date: _____

Comment: _____

CA: _____

Pits: NO SURFACE INDICATION OF PIT

Permit:	Facility ID	Permit Num	Expiration Date

289825 1733040

289825 1733040

Attached Documents

Inspector Name: ROY, CATHERINE

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

Document Num	Description	URL
680600060	Abandoned location from road facing westward.	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3658749
680600061	Abandoned location from road facing northwestward.	http://ogccweblink.state.co.us/DownloadDocumentPDF.aspx?DocumentId=3658750

FORM
27
Rev 6/99

**State of Colorado
Oil and Gas Conservation Commission**



FOR OGCC USE ONLY

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No: _____

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): drilling pit status

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Andrew Antipas</u>
Name of Operator: <u>Kinder Morgan CO2 Company, LP</u>	No: <u>970-882-5534</u>
Address: <u>17801 Highway 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-033-06078</u>	County: <u>Dolores County</u>
Facility Name: <u>NA.</u>	Facility Number: <u>289825</u>
Well Name: <u>DWD</u>	Well Number: <u>1</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SESE 20 40N 17W N PM</u> Latitude: <u>37.70627</u> Longitude: <u>-108.73984</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): NA.

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): _____

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
The DWD-1 was originally called the DC-1, which was drilled in 1983. In 2007, the DC-1 was deepened and converted to an EPA Class 1 salt water disposal well. The name was changed at that time to DWD-1. Closed loop drilling was utilized during the deepening process, and documentation is attached to this Form 27.

Describe how source is to be removed:
NA

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
NA



Tracking Number: _____ Name of Operator: _____ OGCC Operator No: _____ Received Date: _____ Well Name & No: _____ Facility Name & No: _____

Page 2 REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.): NA.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required. NA

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

When this well was reentered, closed loop drilling operations were completed. No additional sampling is required.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.): NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____ Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas Title: Project Manager Date: 4/25/2016

OGCC Approved: _____ Title: _____ Date: _____



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8**

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

UNDERGROUND INJECTION CONTROL (UIC)

FINAL PERMIT

Date Prepared: June 2012

**CLASS I
NON-HAZARDOUS INDUSTRIAL WASTE DISPOSAL WELL**

Permit No. CO12182-08833

DWD-1

County & State: Dolores County, Colorado

Issued To:

**KINDER MORGAN CO₂ COMPANY LP
17801 Hwy 491
Cortez, CO 81321**



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b)

1. OGCC Operator Number: <u>46685</u>	4. Contact Name: <u>Paul Belanger</u>	Completes the Attachment Checklist
2. Name of Operator: <u>KINDER MORGAN CO2 CO LP</u>	Phone: <u>97D-882-2464</u>	
3. Address: <u>17801 HWY 491</u> City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	Fax: <u>97D-882-5521</u>	
5. API Number: <u>05-033-06078</u>	OGCC Facility ID Number: <u>322104</u>	Survey Plat
6. Well/Facility Name: <u>DWD</u>	7. Well/Facility Number: <u>#1</u>	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): <u>NENE 19 40N 17W N PM</u>		Surface Equip Diagram
9. County: <u>DOLORES</u>	10. Field Name: <u>DOE CANYON</u>	Technical Info Page
11. Federal, Indian or State Lease Number: <u>N/A</u>		Other

General Notice

CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Bottomhole location Qtr/Sec, Twp, Rng, Mer: _____

Latitude: _____ Distance to nearest property line: _____ Distance to nearest bldg, public rd, utility or RR: _____

Longitude: _____ Distance to nearest lease line: _____ Is location in a High Density Area (rule 603b)? Yes/No:

Ground Elevation: _____ Distance to nearest well same formation: _____ Surface owner consultation date: _____

GPS DATA:
Date of Measurement: _____ PDOP Reading: _____ Instrument Operator's Name: _____

CHANGE SPACING UNIT
Formation: _____ Formation Code: _____ Spacing order number: _____ Unit Acreage: _____ Unit configuration: _____

Remove from surface bond
Signed surface use agreement attached:

CHANGE OF OPERATOR (prior to drilling):
Effective Date: _____
Plugging Bond: Blanket Individual

CHANGE WELL NAME NUMBER
From: _____
To: _____
Effective Date: _____

ABANDONED LOCATION:
Was location ever built? Yes No
Is site ready for inspection? Yes No
Date Ready for inspection: _____

NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned: _____
Has Production Equipment been removed from site? Yes No
MIT required if shut in longer than two years. Date of last MIT: _____

SPUD DATE: _____ REQUEST FOR CONFIDENTIAL STATUS (\$5000 from date casing set)

SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK
Method used: _____ Cementing tool setting/perm depth: _____ Cement volume: _____ Cement top: _____ Cement bottom: _____ Date: _____
*submit cbl and cement job summaries

RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately: _____ Final reclamation is completed and site is ready for inspection:

Technical Engineering/Environmental Notice

Notice of Intent
Approximate Start Date: _____

Report of Work Done
Date Work Completed: 9/13/2012

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input checked="" type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: EPA regulated well/deepen	for Spills and Releases

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

Signed: Paul E. Belanger Date: 11/30/2012 Email: Paul_Belanger@KinderMorgan.com
Print Name: Paul E. Belanger Title: Regulatory Contractor

OGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 46685	API Number: 05-033-06078
2. Name of Operator: KINDER MORGAN CO2 CO LP	OGCC Facility ID # 322104
3. Well/Facility Name: DWD	Well/Facility Number: #1
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NENE 19 40N 17W N PM	

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

INTRODUCTION:

This Sundry dated 11/30/2012 has been created per recent email and phone communication between COGCC and Regulatory consultant Paul Belanger. A prior re-naming sundry had a 2nd technical info page indicating the intent to deepen this well. The purpose of this sundry is to better communicate those objectives intended and accomplished: to deepen and create a class I EPA disposal well. The permit has since been submitted and approved by the EPA. A form 5, docnum 400347589 will be submitted simultaneous to the submission of this sundry along with approved EPA permits and associated documents; form 5A docnum 400347590 will be submitted upon completion of ongoing work as of 11/30/2012.

BACKGROUND:

Water produced from the Leadville formation in the McElmo dome and Doe Canyon Units has typically been re-injected back in the the Leadville through three saltwater disposal (SWD) wells: the Hovenweep SWD (HWD-1), Yellow Jacket SWD (YWD-1), and the MWD-1, which receives all the water from the southern area of the McElmo Dome Unit.

Current water handling in the southern area of McElmo Dome is constrained by the limited water injection capacity of the MWD-1. To alleviate this problem KM geologists recommended deepening of the MWD-1 to target the Cambrian Sand below the Leadville for injection disposal potential. This has been done.

In a similar fashion the same process is being proposed for the Doe Canyon field by deepening the DWD-1.

Once the well bore is deepened, The Cambrian formation will be tested for injection capacity. If successful, KM will proceed with applying for a Class I Injection permit with the EPA to inject produced water into the Cambrian Sand, which will serve two purposes:

1. By removing the water from the Leadville formation and transferring it to another interval (i.e. the Cambrian), the bottom hole pressure will be reduced and recoverable CO2 reserves will be increased.
2. If an acceptable injection rate into the Cambrian is achieved, current and near future water handling will not be a constraint on the Doe Canyon wells. Wells shut-in due to high water rates can then be brought back into production and waste water injected into this local disposal well and eliminate transportation costs and truck traffic.

WORK COMPLETED:

The DWD-1 was deepened to the Cambrian Sand by drilling out an additional 800', tested for injection capacity and permitted as a Class 1 salt water disposal well. This was completed on 9/13/2012 to a TD depth of 9500'.

The Cambrian does not appear to be as permeable as the MWD-1; however, the intent will be to inject into all open zones, including the Cambrian.

The EPA approved procedure and permit will be submitted with a form 5 docnum 400347589 simultaneous to the submission of this work completed sundry.

Work is still ongoing and as a result the form 5A will be submitted at a later date.

As part of Kinder Morgan's February 17, 2016 Rule 523.e voluntary self-disclosure, a supplemental disclosure was made on April 29, 2016. Included in that packet was a Form 27 for the Kinder Morgan CO₂ Co. DWD #1.

After reviewing the COGIS database, it has been determined that there is not a permitted drilling pit associated with this well. Pit facility ID #289825 listed on the submitted Form 27 is related to the Kinder Morgan DWD X-1, not the DWD-1. The operator has stated that in 2012 when this well was re-entered, that a closed loop system was utilized.

An electronic copy of the submitted Form 27 shall be uploaded to the COGIS database. A remediation project regarding pit closure at this location will **not** be created at this time.

Based on review of information presented, it appears that no further action is necessary at this time. However, should future conditions at the site indicate contaminant concentrations in soils exceeding COGCC standards or if ground water is found to be significantly impacted, then further investigation and/or remediation activities may be required at the site.

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:
 Spill Complaint
 Inspection NOAV
Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Closed Loop Drilling Operations

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Barry Swift, Asset Manager</u>
Name of Operator: <u>Kinder Morgan CO2 Company, LP</u>	No: <u>970-882-5545</u>
Address: <u>17801 Highway 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	

API Number: <u>05-083-06699</u>	County: <u>Montezuma</u>
Facility Name: <u>NA.</u>	Facility Number: <u>429155</u>
Well Name: <u>HB</u>	Well Number: <u>6</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNE 36 38N 19W N PM</u> Latitude: <u>37.512253</u> Longitude: <u>-108.894078</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): NA.

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): cultivated

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIAL WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
The HB-6 was originally permitted to utilize drilling pits. However, prior to construction of the location Kinder Morgan decided to utilize closed loop drilling technology. A letter to the BLM from Ecosphere Environmental Services dated 9/12/2012 indicated the change. In addition, Kinder Morgan has a letter from the Tracy Perfors (BLM project manager) indicating that this well utilized closed loop technology. Per Kinder Morgan's discussions with the COGCC, Kinder Morgan would like to close the pit permit number 429155 for the HB-6 location.

Describe how source is to be removed:
NA

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
NA

Submit Page 2 with Page 1



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

NA

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

NA

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No reserve pit was constructed. The well was drilled utilizing closed loop technology. No further testing is necessary.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 04/20/2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/22/16

HB-6
1138 feet FNL & 2443 feet FEL
Section 36, T38N, R19W
Montezuma County, CO
Grd. EL. 6317 feet

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SURFACE USE PLAN OF OPERATIONS (SUPO)
Revised September 12, 2012

Attachments

- A - Access Route map
- B - Right of Way and Easement Plat
- C - Location of Existing Wells
- D - Wellpad Plan View and Cross Section Diagram
- E - Drilling Facility Layout Diagram
- F - Production facilities and interim wellpad reclamation diagram

1) Existing Roads

The access route to the wellpad location from U.S. Hwy 491 is outlined in a map in Attachment A.

- a) Driving Directions to HB-6 from the Intersection of Hwy 491 and County Road 8
 - i) Travel Westerly on County Road 8 for 3.9 miles;
 - ii) Turn left (southerly) on County Road 12 for 2 miles;
 - iii) Turn right (westerly) on County Road Z for 0.86 miles;
 - iv) Road then turns left (southerly) onto County Road 11 for 1.06 miles;
 - v) Turn right (westerly) on County Road Y for 1.3 miles;
 - vi) Road then turns left (southerly) through several curves for 1.4 miles;
 - vii) Turn right (westerly) onto unnamed road for 0.67 miles;
 - viii) Proposed access will be on the right (west) side of the road, travel west on proposed access for 3,930 feet to proposed wellpad location.
- b) Existing access routes will be maintained in as good as or better condition than before operations began. The maintenance program will include, but not be limited to, upgrading, ditching, blading, culvert maintenance, installing additional drainage turnouts (if needed), and graveling of roadbed.

2) Access Road to be constructed

- a) Approximately 3,930 feet of gravel-surfaced access road will be constructed and will be limited to a traveled-road width of 18 feet. Approximately 1,474 feet of the access road will be on private land and 2,456 feet of the access road will be on BLM land. (See Attachment B - Right of Way and Easement Plat).
- b) Suitable topsoil material will be conserved in stockpiles in the most convenient location along the access route. Topsoil will be stripped to an average depth of 6 inches. Any stockpile not used within one year will be seeded to insure topsoil integrity and prevent erosion.

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Bureau of Land Management
Durango, Colorado

- c) The access road will be surfaced with 12 inches of gravel. Depending on weather conditions, water may be applied to the access road as a dust control measure.
- d) Culvert size and location will be installed as to not interfere with the best management practice (BMP) of controlling the normal flow of natural or storm drainage.
- e) Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Should additional area be needed, approval from the proper BLM person of authority will be requested in advance.
- f) The road will be maintained to be reasonably smooth, and free of ruts, soft spots, chuckholes, rocks, slides and washboard conditions. The BLM, San Juan Resource Area road specification and The Gold Book, will be followed for specification on road design and culvert installation. All weather surfacing will remain in place if the proposed well becomes a producer. A regular maintenance program will include blading, ditching, sign replacement, surfacing and culvert maintenance. Maintenance deficiencies will be corrected when documented and directed by the Authorized Officer.
- g) Kinder Morgan will adhere to the Montezuma County Road and Bridge Standard Specifications on all county roads.
- 3) Existing Wells
- a) The HB-6 well is a proposed new drill on a new location.
- b) Locations of existing wells within a one-mile radius of the surface location are shown on the Locations of Existing Wells in Attachment C. Details of wells located within a 1-mile radius are listed in Table 1.

Table 1: Wells located within 1 mile of proposed HB-6 well

Well Name	Well type and status	Location	Land/Mineral status	Miles from YB #6
McElmo Dome Unit 35-38-19 #HE-1	CO2/Producing	Section 35, T38N, R19W	Federal/Federal	0.97 SW
McElmo Dome Unit 35-38-19 #HE-3	CO2/Producing	Section 35, T38N, R19W	Federal/Federal	0.86 SW
McElmo Dome Unit 36-38-19 #HE-5	CO2/Producing	Section 36, T38N, R19W	Federal/Federal	0.60 SW
McElmo Dome Unit 36-38-19 #HB-3	CO2/Producing	Section 36, T38N, R 19W	Federal/Federal	0.58 SE
McElmo Dome Unit 31-38-18 #HB-2	CO2/Producing	Section 31 T38N, R18W	Federal/Federal	0.66 SE
McElmo Dome Unit 31-38-18 #HB-1	CO2/Producing	Section 31, T38N, R18W	Federal/Federal	0.75 SE

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Flowline and Pipeline Management
Durango, Colorado

4) Existing and/or Proposed Production Facilities

- a) The production facilities proposed to be located on the wellpad include wellhead and pipeline spool section.
- b) Production for this well would occur off of the wellpad location. It would be produced into the Hovenweep Facility. A flowline will be constructed and will route from the wellhead along the access road right-of-way (ROW). All production equipment will be equipped with hospital-type mufflers. Regardless of whether the operation is at the construction, drilling or production phase, if the BLM determines that noise had become a nuisance, additional muffling techniques will be applied.
- c) The proposed CO2 flowline of approximate length of 4,866 feet would be installed underground from the wellhead to the HB cluster facility as show in Attachment B- Proposed HB-6 Right of Way and Easement Plat. The pipeline would be a 10-inch carbon steel pipeline with a poly liner.

5) Location of Water Supply

- a) Water will be hauled from a privately owned, off-lease source during construction and drilling operations. The preferred source will be the Dolores Water Conservancy District canal in which Kinder Morgan and RW Trucking own sufficient shares of Municipal and Industrial Water. RW Trucking will use Montezuma County truck route roads to access the water source.

6) Construction Materials

- a) Construction materials (sand and gravel) not available on-site will be hauled from local pits.

7) Methods of Handling Waste Material

- a) Produced water will either be reused at another drill site in connection with this project or hauled to the Class I non-hazardous disposal wells (MWD-1, HWD-1, or YWD-1).
- b) Any produced water containing significant quantities of produced oil will be treated and the oil sold, recycled, or disposed of in a state-licensed treatment facility.
- c) The well area and lease premises will be maintained in a responsible manner with due regard to safety, conservation and appearance. All wastes other than sewage, drilling fluids and drill cuttings will be contained in a skid-mounted refuse container/trailer. The solid waste and garbage resulting from drilling operations will be hauled to the Montezuma County landfill or any other landfill permitted for this waste type.
- d) Sewage from on-site sanitary facilities will be stored in an on-site, Montezuma County-approved closed system and then hauled under existing permit to the licensed sewer treatment plant in Dolores, Colorado.
- e) Drilling fluids will be recycled whenever practical. The following will be conducted to accomplish the task of handling the drilling fluids and drill cuttings waste materials.
 - i) The free liquids from the closed loop system will be removed via vacuum truck. The liquids will either be hauled for reuse to another drilling location in connection with this project or disposed of in a Kinder Morgan disposal well; (MWD-1, HWD-1 and YWD-1).
 - ii) The closed loop system keeps fresh water cuttings separated from the salt formation and brine water cuttings. The fresh water cutting contents of the closed loop system will be tested using the COGCC Rule 910-1 procedures.

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- (1) Salt cuttings will also be tested according to COGCC rule 910-1 procedures. If they pass the test, they will be dried and left on site. If they do not pass the test, they will be disposed at a permitted land farm. Site of preference will be 'Contract Environmental Services Inc. (CES)' located ¼ mile west of the Hovenweep National Monument off Road 10 in Utah. The CES main office is located at 410 N Auburn Ave., Farmington, New Mexico, 87401.
- (2) If regulatory limits are met for fresh-water cuttings, they will be dried and left on site and mixed with the native soil.
- (3) Estimated number of truck trips required to remove cuttings is between 9 and 35 depending on the amount of salt cuttings produced.
- f) Kinder Morgan and its contractors shall ensure that all use, production, storage, transport and disposal of hazardous materials or hazardous wastes associated with the drilling, completion and production of the well and project operations will be in accordance with all applicable existing or hereafter promulgated federal, state and local government rules, regulations and guidelines.
- 8) Ancillary Facilities
- a) No ancillary facilities are required for this proposed well project.
- 9) Well Site Layout
- a) A wellpad plan view and a cross-section diagram are included as Attachment D illustrating the orientation of the wellpad and cut and fill location. Attachment E is the proposed drilling facility layout diagram. Note that the actual drilling facility layout may be different than proposed due to differences in equipment implemented or to give the drilling crew flexibility to respond to changes at the time of well development.
- b) The wellpad is estimated to cover an area of 3.95 acres. The flowline that will connect the well to the production line is estimated to total 4,866 linear feet from wellhead to HB cluster. The flowline will have a construction corridor width of approximately 25 feet. Approximately 3,181 feet of the flowline will be located on BLM and 1,685 feet will be located on private land. (See Attachment B - Right of Way and Easement Plat).
- c) The closed loop system will be set up in such a manner as to prevent leakage of the fluids. To insure containment of drilling fluids in the closed loop system, the bottom and outside will have plastic liners.
- d) The closed loop system will then be drained with a vacuum truck and the fluids will either be reused at another drill location in connection with this project or disposed of at a Kinder Morgan disposal well.
- e) Any removed liner will be disposed of at an approved solid waste disposal site. The site of choice will be the Montezuma County landfill located south of Cortez, Colorado.
- f) Prior to rigging up, a one-foot high berm will be constructed around the perimeter of the wellpad in such a manner as to prevent stormwater runoff and contain spills. The wellpad will be designed in such a manner as to prevent stormwater runoff and contain spills. The need for the berm will be reassessed upon the completion of the well and production is established.

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- g) Topsoil will be stockpiled on the wellpad as illustrated in Attachment E – Drilling Facility Layout Diagram and will be segregated from areas where subsoil materials are stored.

State of Land Management
Durango, Colorado

10) Plans for Surface Reclamation

- a) Attachment F includes the proposed production facility layout interim reclamation areas. The total wellpad area is 3.95 acres located on private land. The unreclaimed area that will have gravel surface during production is approximately 0.61 acres.
- b) Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in a mesh wire cage, and hauled to an approved sanitary landfill.
- c) If production is established, unused portions of the wellpad will be re-contoured, topsoil spread, and reseeded.
- d) All disturbed areas will be re-contoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts except as provided in 9.f above. All compacted portions of the pad will be ripped to a depth of 12 inches unless in solid rock.
- e) Stockpiled topsoil will be spread evenly over the areas designated for restoration. Enough topsoil will be kept to reclaim at a later date the portion of the location and access road needed for production operations. This remaining topsoil stockpile will be seeded in place using the prescribed seed mixture below.
- f) Stormwater control will be in accordance with Kinder Morgan's Regional Stormwater Management Plan and Construction General Permit issued by Colorado Department of Public Health and Environment (CDPHE).
- g) Reclamation operations will start immediately after drilling and completion operations cease and will be completed as soon as practical under prevailing weather conditions.
- h) Precautionary measures will be taken to control noxious weeds adjacent to disturbed areas throughout the course of operations (including production phase). Noxious weeds, which may be introduced due to soil disturbance, will be treated. These methods may include biological, mechanical or chemical treatments.
- i) Reclamation will be considered successful when the desired vegetative species are established, erosion is controlled, weeds are considered a minimum threat, and a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels. Kinder Morgan will continue re-vegetation efforts until this CDPHE standard is met.

11) Surface Ownership

- a) The proposed wellpad location and access road would be location on private land. Landownership information is listed in Table 2.

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Bureau of Land Management
Durango, Colorado

b)

Table 2: Surface Ownership

Landowner Name	Address
Sidney Brent and El Powell (surface owner)	14175 Road 28 Dolores, CO 81323

- a. A copy of the SUPO was sent to Sidney Brent and El Powell in March of 2012.
- b. Refer to the attached landowner agreement to allow access to private property, in accordance with IM2009-078.

12) Other Information

- a) If subsurface archaeological/cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area office will be contacted. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- b) Kinder Morgan CO2 Company will be responsible for informing all persons associated with this project that they will be subject to prosecution for knowingly disturbing Native American Indian shrines, historic and prehistoric archaeology sites, or for collecting artifacts of any kind, including arrowheads and pottery sherds, from all federal lands; they may also be subject to prosecution for similar activity on private lands without the permission of the private surface owner.
- c) Kinder Morgan CO2 Company will furnish the dirt contractor a copy of the approved Surface Use Plan of Operations prior to commencing any work. A copy will be made available on site during construction.
- d) Any accidental spill will be cleaned up immediately, and contaminated soils will either be landfarmed or land-filled. Proper reporting procedures will be followed.
- e) The Kinder Morgan representative for operation, engineering or regulatory issues is Bob Clayton (970) 882-5507.

From: Perfors, Tracy [tperfors@blm.gov]
Sent: Wednesday, April 06, 2016 5:23 PM
To: Antipas, Andrew
Cc: Kennedy, Phil; Hannigan, Michael
Subject: Re: YB-6, HE-6, and HA-6

Good afternoon Andy, Phil and Mike,

I hope you're doing well! The HA-6 was drilled years before I worked at Tres Rios BLM, I assume you are asking about the YB6, HE6 and HB6. I remember inspecting each of those wells during drilling, and there were no reserve pits. Cuttings from the closed loop drilling were stored temporarily on the well pads on plastic liner (which occasionally got small rips over the course of the drilling) until they were trucked off location. Rod Brashear may also have inspection notes from that time period, if that helps.

I'll be leaving for vacation on the 12th, so we'll have to catch up more at the end of the month. Enjoy our spring weather!

- Tracy

On Wed, Apr 6, 2016 at 4:44 PM, Antipas, Andrew <Andrew_Antipas@kindermorgan.com> wrote:
Hi Tracy!!!!!!!

If you have the time, I need another favor please. Would your field notes have recorded that KM did not build reserve pits for the YB-6, HE-6, and HA-6? If so, could you send me an email explaining that? I'm going on vacation tomorrow (April 7) and I return to the office on April 13. If you can manage to check on that and write before I get back, could you email to Phil and Mike copied on this email????? Many thanks!

I will give you a call when I get back. Hope it is warming up in Meeker!

Best,

Andy

Andrew Antipas
Kinder Morgan CO2 Company, LP
17801 Hwy 491
Cortez, CO 81321
970-882-5534 (direct)
970-882-5521 (fax)
970-529-3599 (cell)

--
Tracy Perfors
Acting Supervisory Natural Resource Specialist, BLM
White River Field Office

(970) 878-3811 office
(970) 317-1534 cell

FORM 15 Rev 10/11

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



OGCC RECEPTION

Document Number: 400254792

EARTHEN PIT REPORT / PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days is required for pits. Submit required attachments and forms.

Form Type: [X] PERMIT : REPORT OGCC PIT NUMBER: 429155

NOTE: Operator to provide OGCC Pit Number only if available on an existing pit for pit report

OGCC Operator Number: 46685 Contact Name: Paul Belanger
Name of Operator: KINDER MORGAN CO2 CO LP
Address: 17801 HWY 491 Phone: (970) 882-2464
City: CORTEZ State: CO Zip: 81321 Email: paul_belanger@kindermorgan.com

ATTACHMENTS table with 8 rows: Detailed Site Plan, Design/Cross Sec, Topo Map, Calculations, Sensitive Area Info, Mud Program, Form 2A, Form 26, Water Analysis

Pit Location Information

Operator's Pit/Facility Name: HB Operator's Pit/Facility Number: 6
API Number (associated well): 05- 083 06699 00
OGCC Location ID (associated location): 428651 Or Form 2A # 400224190
Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): NWNE-36-38N-19W-N
Latitude: 37.512249 Longitude: -108.894096 County: MONTEZUMA

Operation Information

Pit Use/Type (Check all that apply): Pit Type: [X] Lined : Unlined
[X] Drilling: (Ancillary, Completion, Flowback, Reserve Pits) : Oil-based Mud; [X] Salt Sections or High Chloride Mud
Production: : Skimming/Settling; Produced Water Storage; Percolation; : Evaporation
Special Purpose: : Flare; Emergency; Blowdown; Workover; : Plugging; : BS&W/Tank Bottoms
Multi-Well Pit: Construction Date: Actual or Planned:
Method of treatment prior to discharge into pit: shaker
Offsite disposal of [X] Injection; [X] Commercial; [X] Reuse/Recycle; NPDES; Permit Number:
Other Information: We recycle/re-use fluids; inject waste fluids in disposal well; haul solids to land farm.

Site Conditions

Distance (in feet) to the nearest surface water: 218 Ground Water (depth): 200 Water Well: 5280
Is this location in a Sensitive Area? No Existing Location?

Pit Design and Construction

Size of Pit (in feet): Length: 250 Width: 150 Depth: 10 Calculated Working Volume (in barrels): 13000
Flow Rates (in bbl/day): Inflow: 24000 Outflow: Evaporation: Percolation:
Primary Liner. Type: HD WOVEN Thickness (mil): 30
Secondary Liner (if present): Type: Thickness (mil):
Is Pit Fenced? Yes Is Pit Netted? Yes Leak Detection? No
Other Information: salt related cuttings and fresh water cuttings stored separately; see construction diagrams. 9000bbls fresh + 4000bbls brine = 13000bbls; ESTIMATE 24000 IN AND 24000 OUT on average.

Operator Comments: NEW WELL, NEW LOCATION THEREFORE NO API; SAME 2 PIT USED FOR BOTH VERTICAL PILOT AND HORIZONTAL DRILLING

Certification

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

Signed: regulatory constructor Print Name: Paul Belanger
Title: regulatory constructor Email: paul_belanger@kindermorgan.com Date: 03/02/2012

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Closed Loop Drilling Operations

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Barry Swift, Asset Manager</u>
Name of Operator: <u>Kinder Morgan CO2 Company, LP</u>	No: <u>970-882-5545</u>
Address: <u>17801 Highway 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	
API Number: <u>05-083-06700</u> County: <u>Montezuma</u>	
Facility Name: <u>NA</u> Facility Number: <u>429156</u>	
Well Name: <u>HE</u> Well Number: <u>6</u>	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>TR 38 1 37N 19W N PM</u> Latitude: <u>37.50118</u> Longitude: <u>-108.903904</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): NA

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): sagebrush

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
The HE-6 was originally permitted to utilize drilling pits. However, prior to construction of the location Kinder Morgan decided to utilize closed loop drilling technology. Attached is the BLM Surface Use Plan of Operations dated 9/13/2012 explaining the change. In addition, Kinder Morgan has an email from the Tracy Perfors (BLM project manager) indicating that this well utilized closed loop technology. Per Kinder Morgan's discussions with the COGCC, Kinder Morgan would like to close the pit permit number 429156 for the HE-6 location.

Describe how source is to be removed:
NA

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
NA



Tracking Number: _____ Name of Operator: _____ OGCC Operator No: _____ Received Date: _____ Well Name & No: _____ Facility Name & No: _____

Page 2 REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

NA

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

NA

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No reserve pit was constructed. The well was drilled utilizing closed loop technology. No further testing is necessary.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____ Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas Title: Project Manager Date: 04/20/2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/23/16

HE-6
1138 feet FNL & 2443 feet FEL
Sections 1 and 2, T37N, R19W
Montezuma County, CO
Grd. EL. 6479 feet

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Durango, Colorado

SURFACE USE PLAN OF OPERATIONS (SUPO)
September 12, 2012

Attachments

- A - Access Route map
- B - Right of Way and Easement Plat
- C - Location of Existing Wells
- D - Wellpad Plan View and Cross Section Diagram
- E - Drilling Facility Layout Diagram
- F- Production facilities and interim wellpad reclamation diagram

1) Existing Roads

The access route to the location from U.S. Hwy 491 is illustrated in the map in Attachment A.

- a) Driving Directions to HB-6 from the Intersection of Hwy 491 and County Road 8
 - i) Travel Westerly on County Road 8 for 3.9 miles;
 - ii) Turn left (southerly) on County Road 12 for 2 miles;
 - iii) Turn right (westerly) on County Road Z for 0.86 miles;
 - iv) Road then turns left (southerly) onto County Road 11 for 1.06 miles;
 - v) Turn right (westerly) on County Road Y for 1.3 miles;
 - vi) Road then turns left (southerly) through several curves for 1.4 miles;
 - vii) Turn right (westerly) onto unnamed road for 0.57 miles;
 - viii) Proposed access will be on the right (southern) side of the road, travel west on proposed access for 385 feet to proposed wellpad location.
 - b) Existing access will be maintained in as good as or better condition than before operations began. The maintenance program will include, but not be limited to, upgrading, ditching, blading, culvert maintenance, installing additional drainage turnouts (if needed), and graveling of roadbed.
- 2) Access Road to be constructed**
- a) Approximately 385 feet of gravel-surfaced access road will be constructed and will be limited to a traveled-road width of 18 feet. Approximately 111 feet of the access road will be on private land and 274 feet of the access road will be on BLM land. (See Attachment B - Right of Way and Easement Plat).
 - b) Suitable topsoil material will be conserved in stockpiles in the most convenient location along the access route. Topsoil will be stripped to an average depth of 6 inches. Any stockpile not used within one year will be seeded to insure topsoil integrity and prevent erosion.

- c) The access road will be surfaced with 12 inches of gravel. Depending on weather conditions, water may be applied to the access road as a dust control measure.
 - d) Culvert size and location will be installed as to not interfere with the best management practice (BMP) of controlling the normal flow of natural or storm drainage.
 - e) Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Should additional area be needed, approval from the proper BLM person of authority will be requested in advance.
 - f) The road will be maintained to be reasonably smooth, and free of ruts, soft spots, chuckholes, rocks, slides and washboard conditions. The BLM, San Juan Resource Area road specification and The Gold Book, will be followed for specification on road design and culvert installation. All weather surfacing will remain in place if the proposed well becomes a producer. A regular maintenance program will include blading, ditching, sign replacement, surfacing and culvert maintenance. Maintenance deficiencies will be corrected when documented and directed by the Authorized Officer.
 - g) Kinder Morgan will adhere to the Montezuma County Road and Bridge Standard Specifications on all county roads.
- 3) Existing Wells
- a) The HE-6 well is a proposed new drill on a new location.
 - b) Locations of existing wells within a one-mile radius of the surface location are shown on the Locations of Existing Wells in Attachment C. Details of wells located within a 1-mile radius are listed in Table 1.

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Table 1: Wells located within 1 mile of proposed HE-6 well

Well Name	Well type and status	Location	Land/Mineral Status	Miles from HE-6
McElmo Dome Unit 35-38-19 #HE-1	CO2/Producing	Section 35, T38N, R19W	Federal/Federal	0.35 NW
McElmo Dome Unit 35-38-19 #HE-2	CO2/Producing	Section 35, T38N, R19W	Federal/Federal	0.75 NW
McElmo Dome Unit 35-38-19 #HE-3	CO2/Producing	Section 36, T38N, R19W	Federal/Federal	0.65 NW

- 4) Existing and/or Proposed Production Facilities
- a) The production facilities proposed to be located on the wellpad include wellhead and pipeline spool section.
 - b) Production for this well would occur off of the wellpad location. It would be produced into the Hovenweep Facility. A flowline will be constructed and will route from the wellhead along the access road right-of-way (ROW). All production equipment will be equipped with hospital-type mufflers. Regardless of whether the operation is at the construction, drilling or production

phase, if the BLM determines that noise had become a nuisance, additional muffling techniques will be applied.

- c) The proposed CO2 flowline of approximate length of 2653 feet would be installed underground from the wellhead to the Hovenweep production facility as show in Attachment B- Proposed HB-6 Right of Way and Easement Plat. The pipeline would be a 10-inch carbon steel pipeline with a poly liner.

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OCT 24 2012

5) Location of Water Supply

- a) Water will be hauled from a privately owned, off-lease source during construction and drilling operations. The preferred source will be the Dolores Water Conservancy District canal in which Kinder Morgan and RW Trucking own sufficient shares of Municipal and Industrial Water. RW Trucking will use Montezuma County truck route roads to access the water source.

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Durango, Colorado

6) Construction Materials

- a) Construction materials (sand and gravel) not available on-site will be hauled from local pits.

7) Methods of Handling Waste Material

- a) Produced water will either be reused at another drill site in connection with this project or hauled to the Class I non-hazardous disposal wells (MWD-1, HWD-1, or YWD-1).
- b) Any produced water containing significant quantities of produced oil will be treated and the oil sold, recycled, or disposed of in a state-licensed treatment facility.
- c) The well area and lease premises will be maintained in a responsible manner with due regard to safety, conservation and appearance. All wastes other than sewage, drilling fluids and drill cuttings will be contained in a skid-mounted refuse container/trailer. The solid waste and garbage resulting from drilling operations will be hauled to the Montezuma County landfill or any other landfill permitted for this waste type.
- d) Sewage from on-site sanitary facilities will be stored in an on-site, Montezuma County-approved closed system and then hauled under existing permit to the licensed sewer treatment plant in Dolores, Colorado.
- e) Drilling fluids will be recycled whenever practical. The following will be conducted to accomplish the task of handling the drilling fluids and drill cuttings waste materials.
 - i) The free liquids from the closed loop system will be removed via vacuum truck. The liquids will either be hauled for reuse to another drilling location in connection with this project or disposed of in a Kinder Morgan disposal well; (MWD-1, HWD-1 and YWD-1).
 - ii) The closed loop system keeps fresh water cuttings separated from the salt formation and brine water cuttings. The fresh water cutting contents of the closed loop system will be tested using the COGCC Rule 910-1 procedures.
 - (1) Salt cuttings will also be tested according to COGCC rule 910-1 procedures. If they pass the test, they will be dried and left on site. If they do not pass the test, they will go to a permitted land farm. Site of preference will be 'Contract Environmental Services Inc. (CES)' located ¼ mile west of the Hovenweep National Monument off Road 10 in Utah. The CES main office is located at 410 N Auburn Ave., Farmington, New Mexico, 87401.

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(3) Estimated number of truck trips required to remove cuttings is between 9 and 39 depending on the amount of salt cuttings produced.

- f) Kinder Morgan and its contractors shall ensure that all use, production, storage, transport and disposal of hazardous materials or hazardous wastes associated with the drilling, completion and production of the well and project operations will be in accordance with all applicable existing or hereafter promulgated federal, state and local government rules, regulations and guidelines.

8) Ancillary Facilities

- a) No ancillary facilities are required for this proposed well project.

9) Well Site Layout

- a) A wellpad plan view and a cross-section diagram are included as Attachment D illustrating the orientation of the wellpad and cut and fill location. Attachment E is the proposed drilling facility layout diagram. Note that the actual drilling facility layout may be different than proposed due to differences in equipment implemented or to give the drilling crew flexibility to respond to changes at the time of well development.
- b) The wellpad is estimated to cover an area of 3.81 acres. The flowline that will connect the well to the production line is estimated to total 2653 linear feet from wellhead to HB cluster. The flowline will have a construction corridor width of approximately 25 feet. Approximately 2359 feet of the flowline will be located on BLM and 294 feet will be located on private land. (See Attachment B - Right of Way and Easement Plat).
- c) The closed loop system will be set up in such a manner as to prevent leakage of the fluids. To insure containment of drilling fluids in the closed loop system, the bottom and outside will have plastic liners.
- d) The closed loop system will then be drained with a vacuum truck and the fluids will either be reused at another drill location in connection with this project or disposed of at a Kinder Morgan disposal well.
- e) Any removed liner will be disposed of at an approved solid waste disposal site. The site of choice will be the Montezuma County landfill located south of Cortez, Colorado.
- f) Prior to rigging up, a one-foot high berm will be constructed around the perimeter of the wellpad in such a manner as to prevent stormwater runoff and contain spills. The wellpad will be designed in such a manner as to prevent stormwater runoff and contain spills. The need for the berm will be reassessed upon the completion of the well and production is established.
- g) Topsoil will be stockpiled on the back side of the wellpad and will be segregated from areas where subsoil materials are stored.

10) Plans for Surface Reclamation

- a) Attachment F includes the proposed production facility layout interim reclamation areas. The total wellpad area is 3.81 acres located on private land. The unreclaimed area that will have gravel surface during production is approximately 0.50 acres.

SEP 13 2012

- b) Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in a mesh wire cage, and hauled to an approved sanitary landfill.
- c) If production is established, unused portions of the wellpad will be re-contoured, topsoil spread, and reseeded.
- d) All disturbed areas will be re-contoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts except as provided in 9.d. above. All compacted portions of the pad will be ripped to a depth of 12 inches unless in solid rock.
- e) Stormwater control will be in accordance with Kinder Morgan's Regional Stormwater Management Plan and Construction General Permit issued by Colorado Department of Public Health and Environment (CDPHE).
- f) Stockpiled topsoil will be spread evenly over the areas designated for restoration. Enough topsoil will be kept to reclaim at a later date the portion of the location and access road needed for production operations. This remaining topsoil stockpile will be seeded in place using the prescribed seed mixture below.
- g) Seed will be broadcast between September 1 and December 1 (prior to ground frost) utilizing the following prescription. Seed may be drilled at half the rate of broadcast seeding. Seed depth = 1/2 inch. Kinder Morgan will adhere to the seed mix specified in the BLM's conditions of approval. The following seed mix will be used unless specified otherwise by the landowner.

Species	Common Name - Variety	Rate lbs/acre
<i>Oryzopsis hymenoides</i>	Indian ricegrass - Poloma	1
<i>Sporobolus cryptandrus</i>	Sand dropseed	0.05
<i>Sporobolus airoides</i>	Alkali sacation	0.1
<i>Hilaria jamesii</i>	Galleta - vivia	1
<i>Sanguisorba minor</i>	Small burnet	1
<i>Penstemon strictus</i>	Rocky Mountain penstemon - Bandera	0.1
<i>Atriplex canescens</i>	Fourwing saltbush	1
<i>Ephedra viridis</i>	Green ephedra	1
<i>Cercocarpus moutanus</i>	Mountain mahogany	0.5
<i>Cowania Mexicana</i>	Cliff rose	2
<i>Purshis glandulosa</i>	Desert bitterbrush	1

- h) Reclamation operations will start immediately after drilling and completion operations cease and will be completed as soon as practical under prevailing weather conditions.
- i) Precautionary measures will be taken to control noxious weeds adjacent to disturbed areas throughout the course of operations (including production phase). Noxious weeds, which may be introduced due to soil disturbance, will be treated. These methods may include biological, mechanical or chemical treatments.

- j) Reclamation will be considered successful when the desired vegetative species are established, erosion is controlled, weeds are considered a minimum threat, and a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels. Kinder Morgan will continue re-vegetation efforts until this CDPHE standard is met.

11) Surface Ownership

- a) The proposed wellpad location and access road would be location on private land. Landownership information is listed in Table 2.

Landowner Name	Address
Cortez, LLC., A California Liability Company (surface owner)	13202 Bruder Lane Redlands, CA 92373

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Bureau of Land Management
Durango, Colorado

- a. A copy of the SUPO was sent to Cortez, LLC in March of 2012.
- b. Refer to the attached landowner agreement to allow access to private property, in accordance with IM2009-078.

12) Other Information

- a) If subsurface archaeological/cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area office will be contacted. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
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- e) The Kinder Morgan representative for operation, engineering or regulatory issues is Bob Clayton (970) 882-5507.

From: Perfors, Tracy [tperfors@blm.gov]
Sent: Wednesday, April 06, 2016 5:23 PM
To: Antipas, Andrew
Cc: Kennedy, Phil; Hannigan, Michael
Subject: Re: YB-6, HE-6, and HA-6

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I'll be leaving for vacation on the 12th, so we'll have to catch up more at the end of the month. Enjoy our spring weather!

- Tracy

On Wed, Apr 6, 2016 at 4:44 PM, Antipas, Andrew <Andrew_Antipas@kindermorgan.com> wrote:
Hi Tracy!!!!!!

If you have the time, I need another favor please. Would your field notes have recorded that KM did not build reserve pits for the YB-6, HE-6, and HA-6? If so, could you send me an email explaining that? I'm going on vacation tomorrow (April 7) and I return to the office on April 13. If you can manage to check on that and write before I get back, could you email to Phil and Mike copied on this email????? Many thanks!

I will give you a call when I get back. Hope it is warming up in Meeker!

Best,

Andy

Andrew Antipas
Kinder Morgan CO2 Company, LP
17801 Hwy 491
Cortez, CO 81321
970-882-5534 (direct)
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970-529-3599 (cell)

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Tracy Perfors
Acting Supervisory Natural Resource Specialist, BLM
White River Field Office

(970) 878-3811 office
(970) 317-1534 cell

FORM 15
Rev 10/11

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



OGCC RECEPTION

Document Number:
400254793

EARTHEN PIT REPORT / PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days is required for pits. Submit required attachments and forms.

Form Type: PERMIT REPORT OGCC PIT NUMBER: 429156

NOTE: Operator to provide OGCC Pit Number only if available on an existing pit for pit report

ATTACHMENTS	
Detailed Site Plan	
Design/Cross Sec	
Topo Map	
Calculations	
Sensitive Area Info	
Mud Program	
Form 2A	
Form 26	
Water Analysis	

OGCC Operator Number: 46685 Contact Name: Paul Belanger
 Name of Operator: KINDER MORGAN CO2 CO LP
 Address: 17801 HWY 491 Phone: (970) 882-2464
 City: CORTEZ State: CO Zip: 81321 Email: paul_belanger@kindermorgan.com

Pit Location Information

Operator's Pit/Facility Name: HE Operator's Pit/Facility Number: 6
 API Number (associated well): 05- 083 06700 00
 OGCC Location ID (associated location): 428680 Or Form 2A # 400224194
 Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): TRK 38-1-37N-19W-N
 Latitude: 37.501179 Longitude: -108.903900 County: MONTEZUMA

Operation Information

Pit Use/Type (Check all that apply): Pit Type: Lined Unlined
 Drilling: (Ancillary, Completion, Flowback, Reserve Pits) Oil-based Mud; Salt Sections or High Chloride Mud
 Production: Skimming/Settling; Produced Water Storage; Percolation; Evaporation
 Special Purpose: Flare; Emergency; Blowdown; Workover; Plugging; BS&W/Tank Bottoms
 Multi-Well Pit: Construction Date: Actual or Planned:
 Method of treatment prior to discharge into pit: shaker
 Offsite disposal of pit contents: Injection; Commercial; Reuse/Recycle; NPDES; Permit Number:
 Other Information: We recycle/re-use fluids; inject waste fluids in disposal well; haul solids to land farm.

Site Conditions

Distance (in feet) to the nearest surface water: 1447 Ground Water (depth): 200 Water Well: 825
 Is this location in a Sensitive Area? No Existing Location?

Pit Design and Construction

Size of Pit (in feet): Length: 250 Width: 150 Depth: 10 Calculated Working Volume (in barrels): 13000
 Flow Rates (in bbl/day): Inflow: 24000 Outflow: Evaporation: Percolation:
 Primary Liner. Type: HD WOVEN Thickness (mil): 30
 Secondary Liner (if present): Type: Thickness (mil):
 Is Pit Fenced? Yes Is Pit Netted? Yes Leak Detection? No
 Other Information: salt related cuttings and fresh water cuttings stored separately; see construction diagrams. 9000bbls fresh + 4000bbls brine = 13000bbls; ESTIMATE 24000 IN AND 24000 OUT on average.

Operator Comments: NEW WELL, NEW LOCATION THEREFORE NO API; SAME 2 PIT USED FOR BOTH VERTICAL PILOT AND HORIZONTAL DRILLING

Certification

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.
 Signed: regulatory constructor Print Name: Paul Belanger
 Title: regulatory constructor Email: paul_belanger@kindermorgan.com Date: 03/02/2012

Signed: _____

[Signature]

Approval

Title: _____

Director of Cogcc

Date: _____

06/06/2012

BMP

Type

Comment

Total: 0 comment(s)

CONDITIONS OF APPROVAL:

COA 90 - Notify COGCC Oil and Gas Location Assessment (OGLA) Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us), the COGCC Environmental Protection Specialist for Southwest Colorado (Karen Spray; email karen.spray@state.co.us), and the COGCC Field Inspection Supervisor for Southern Colorado (Mike Leonard; email mike.leonard@state.co.us) 48 hours prior to start of construction of the pit, as well as 48 hours prior to pit liner installation.

COA 12 - Any pit constructed to hold salt based fluids and/or cuttings must be lined.

COA 11 - All cuttings generated during drilling with high chloride/salt based muds must be kept in the lined drilling pit, or placed either in containers or on a lined/bermed portion of the well pad prior to offsite disposal. The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts.

COA 5 - Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via buried or temporary surface pipelines.

COA 39 - If the pit location on the pad changes from the original Construction Layout Drawings, revised drawings must be submitted via a Form 4 Sundry. If the new pit location requires the slopes to be placed partially or completely in fill, then the pit and fill slope must be designed and certified by a professional engineer, subject to review and approval by the COGCC director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.

COA 49 - The pit must be fenced and netted. The operator must maintain the fencing and netting until the pit is closed.

COA 27 - Submit additional disposal facilities (wells, pits, etc.), if necessary (i.e., if original disposal option changes), for pit liquid contents to COGCC via a Form 4 Sundry prior to disposal.

COA 28 - Pits used for salt based fluids and/or cuttings shall be closed in accordance with an approved Site Investigation and Remediation Workplan, Form 27.

COA 91 - At the time of pit closure, operator must submit disposal information for solids, if necessary, via a Form 4 Sundry Notice to the COGCC Location Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us). The disposal method will need to be approved prior to operator starting pit closure.

State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No: _____

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): Closed Loop Drilling Operations

OGCC Operator Number: <u>46685</u>	Contact Name and Telephone: <u>Barry Swift, Asset Manager</u>
Name of Operator: <u>Kinder Morgan CO2 Company, LP</u>	No: <u>970-882-5545</u>
Address: <u>17801 Highway 491</u>	Fax: <u>970-882-5521</u>
City: <u>Cortez</u> State: <u>CO</u> Zip: <u>81321</u>	

API Number: <u>05-083-06696</u>	County: <u>Montezuma</u>
Facility Name: <u>NA</u>	Facility Number: <u>428411</u>
Well Name: <u>YB</u>	Well Number: <u>6</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW 24 37N 18W N PM</u> Latitude: <u>37.4537</u> Longitude: <u>-108.78929</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): NA

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): cultivated

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input type="checkbox"/> Soils	_____	_____
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
The YB-6 was originally permitted to utilize drilling pits. However, prior to construction of the location Kinder Morgan decided to utilize closed loop drilling technology. Attached is the BLM Surface Use Plan of Operations dated 10/24/2012 explaining the change. In addition, Kinder Morgan has an email from the Tracy Perfors (BLM project manager) indicating that this well utilized closed loop technology. Per Kinder Morgan's discussions with the COGCC, Kinder Morgan would like to close the pit permit number 428411 for the YB-6 location.

Describe how source is to be removed:
NA

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
NA



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

NA

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

NA

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

No reserve pit was constructed. The well was drilled utilizing closed loop technology. No further testing is necessary.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

NA

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: 6/9/16
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

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

Print Name: Andrew Antipas Signed: Andrew Antipas
Title: Project Manager Date: 04/20/2016

OGCC Approved: [Signature] Title: Environmental Protection Specialist Date: 6/23/16

YB-6

1112 feet FNL & 1188 feet FEL

Section 24, T37N, R18W

Montezuma County, CO

Grd. EL. 6596 feet

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Bureau of Land Management
Durango, Co

SURFACE USE PLAN OF OPERATIONS (SUPO)

Revised September 12, 2012, Revised October 22, 2012

Attachments

- A - Access Route map
- B - Right of Way and Easement Plat
- C - Location of Existing Wells
- D - Wellpad Plan View and Cross Section Diagram
- E - Drilling Facility Layout Diagram
- F- Production facilities and interim wellpad reclamation diagram

1. Existing Roads

The access route to the location from U.S. Hwy 491 is illustrated in the map in Attachment A.

- a. Directions to YB-6 well location from Cortez, CO on Hwy 491:
 - i. Travel north on Hwy 491 for 18.5 miles to County Road Y;
 - ii. Travel west on County Road Y for 3.2 miles;
 - iii. Turn left (southerly) on County Road 15 for 4 miles;
 - iv. Turn right (westerly) on County Road U for 1 mile;
 - v. Turn left (southerly) on County Road 14 for 1.4 miles;
 - vi. Access road will be on left (east) side of road. Travel east for 0.13 miles to wellpad location.
- b. Existing access will be maintained in as good as or better condition than before operations began. The maintenance program will include, but not be limited to, upgrading, ditching, blading, culvert maintenance, installing additional drainage turnouts (if needed), and graveling of roadbed.

2. Access Road to be constructed

- a. Approximately 711 feet of gravel-surfaced access road will be constructed on private land and will be limited to a traveled-road width of 18 feet.
- b. Suitable topsoil material will be conserved in stockpiles in the most convenient location along the access route. Topsoil will be stripped to an average depth of 6 inches. Any stockpile not used within one year will be seeded to insure topsoil integrity and prevent erosion.
- c. The access road will be surface with 12 inches of gravel. Depending on weather conditions, water may be applied to the access road as a dust control measure.
- d. Culvert size and location will be installed as to not interfere with the best management practice (BMP) of controlling the normal flow of natural or storm drainage.

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equipped with hospital-type mufflers. Regardless of whether the operation is in the construction, drilling or production phase, if the BLM determines that noise had become a nuisance, additional muffling techniques will be applied.

- c. The proposed CO₂ flowline of approximate length of 7,674 feet would be installed underground from the wellhead to the Yellow Jacket production facility as show in Attachment B- Proposed YB-6 Right of Way and Easement Plat. The proposed pipeline would be a 10-inch carbon steel pipeline with a poly liner.

5. Location of Water Supply

- a. Water will be hauled from a privately owned, off-lease source during construction and drilling operations. The preferred source will be the Dolores Water Conservancy District canal in which Kinder Morgan and RW Trucking own sufficient shares of Municipal and Industrial Water. RW Trucking will use Montezuma County truck route roads to access the water source.

6. Construction Materials

- a. Construction materials (sand and gravel) not available on-site will be hauled from local pits.

7. Methods of Handling Waste Material

- a. Produced water will either be reused at another drill site in connection with this project or hauled to the Class I non-hazardous disposal wells (MWD-1, HWD-1, or YWD-1).
- b. Any produced water containing significant quantities of produced oil will be treated and the oil sold, recycled, or disposed of in a state-licensed treatment facility.
- c. The well area and lease premises will be maintained in a responsible manner with due regard to safety, conservation and appearance. All wastes other than sewage, drilling fluids and drill cuttings will be contained in a skid-mounted refuse container/trailer. The solid waste and garbage resulting from drilling operations will be hauled to the Montezuma County landfill or any other landfill permitted for this waste type.
- d. Sewage from on-site sanitary facilities will be stored in an on-site; Montezuma County-approved closed system and then hauled under existing permit to the licensed sewer treatment plant in Dolores, Colorado.
- e. Drilling fluids will be recycled whenever practical. The following will be conducted to accomplish the task of handling the drilling fluids and drill cuttings waste materials.
 - i. The free liquids from the closed loop system will be removed via vacuum truck. The liquids will either be hauled for reuse to another drilling location in connection with this project or disposed of in the Kinder Morgan disposal well; MWD-1, HWD-1 and YWD-1).
 - ii. The closed loop system keeps fresh water cuttings separated from the salt formation and brine water cuttings. The fresh water cutting contents of the closed loop system will be tested using the COGCC rule 910-1 procedures.
 1. Salt cuttings will also be tested according to COGCC rule 910-1 procedures. If they pass the test, they will be dried and left on site. If they do not pass the test, they will go to a permitted land farm. Site of preference will be

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10. Plans for Surface Reclamation

- a. Attachment F includes the proposed production facility layout interim reclamation plan. The total wellpad area is 4.75 acres located on private land. The unreclaimed area that will have gravel surface during production is approximately 0.60 acres.
- b. Immediately upon completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in a mesh wire cage, and hauled to an approved sanitary landfill.
- c. If production is established, unused portions of the wellpad will be re-contoured, topsoil spread, and reseeded.
- d. All disturbed areas will be re-contoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts except as provided in 9.d. above. All compacted portions of the pad will be ripped to a depth of 12 inches unless in solid rock.
- e. Stormwater control will be in accordance with Kinder Morgan's Regional Stormwater Management Plan and Construction General Permit issued by Colorado Department of Public Health and Environment (CDPHE).
- f. Stockpiled topsoil will be spread evenly over the areas designated for restoration. Enough topsoil will be kept to reclaim at a later date the portion of the location and access road needed for production operations. This remaining topsoil stockpile will be seeded in place using the prescribed seed mixture below.
- g. Seed will be broadcast between September 1 and December 1 (prior to ground frost) utilizing the following prescription. Seed may be drilled at half the rate of broadcast seeding. Seed depth = ½ inch. All seeding rates in pounds of pure live (adapted varieties) seed. The following seed mix will be used unless specified otherwise by the landowner. The location has not been in agricultural production for many years, but the landowner may prefer to return the location to agricultural crops.

Species	Common Name – Variety	Rate lbs/acre
<i>Oryzopsis hymenoides</i>	Indian ricegrass – Poloma	1
<i>Sporobolus cryptandrus</i>	Sand dropseed	0.05
<i>Sporobolus airoides</i>	Alkali sacion	0.1
<i>Hilaria jamesii</i>	Galleta – vivia	1
<i>Sanguisorba minor</i>	Small burnet	1
<i>Penstemon strictus</i>	Rocky Mountain penstemon – Bandera	0.1
<i>Atriplex canescens</i>	Fourwing saltbush	1
<i>Ephedra viridis</i>	Green ephedra	1
<i>Cercocarpus moutanus</i>	Mountain mahogany	0.5
<i>Cowania Mexicana</i>	Cliff rose	2
<i>Purshis glandulosa</i>	Desert bitterbrush	1

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SEP 13 2012

- h. Reclamation operations will start immediately after drilling and completion operations cease and will be completed as soon as practical under prevailing weather conditions.
- i. Precautionary measures will be taken to control noxious weeds adjacent to disturbed areas throughout the course of operations (including production phase). Noxious weeds, which may be introduced due to soil disturbance, will be treated. These methods may include biological, mechanical or chemical treatments.
- j. Reclamation will be considered successful when the desired vegetative species are established, erosion is controlled, weeds are considered a minimum threat, and a uniform vegetative cover has been established with an individual plant density of at least 70 percent of pre-disturbance levels. Kinder Morgan will continue re-vegetation efforts until this CDPHE standard is met.

11. Surface Ownership

- a. The proposed wellpad location and access road would be location on private land. Landownership information is listed in Table 2.

Landowner Name	Address
Joe and Mary Mahaffey (surface owner)	22765 County Road 16 Yellow Jacket, CO 81335

- b. This Surface Use Plan of Operations was mailed the surface owner in March, 2012.
- c. Refer to the attached landowner agreement to allow access to private property, in accordance with IM2009-078.

12. Other Information

- a. If subsurface archaeological/cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area office will be contacted. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- b. Kinder Morgan CO2 Company will be responsible for informing all persons associated with this project that they will be subject to prosecution for knowingly disturbing Native American Indian shrines, historic and prehistoric archaeology sites, or for collecting artifacts of any kind, including arrowheads and pottery sherds, from all federal lands; they may also be subject to prosecution for similar activity on private lands without the permission of the private surface owner.
- c. Kinder Morgan CO2 Company will furnish the dirt contractor a copy of the approved Surface Use Plan of Operations prior to commencing any work. A copy will be made available on site during construction.
- d. Any accidental spill will be cleaned up immediately, and contaminated soils will either be land-farmed or land-filled. Proper reporting procedures will be followed.
- e. The Kinder Morgan representative for operation, engineering or regulatory issues is Bob Clayton (970) 882-5507.

From: Perfors, Tracy [tperfors@blm.gov]
Sent: Wednesday, April 06, 2016 5:23 PM
To: Antipas, Andrew
Cc: Kennedy, Phil; Hannigan, Michael
Subject: Re: YB-6, HE-6, and HA-6

Good afternoon Andy, Phil and Mike,

I hope you're doing well! The HA-6 was drilled years before I worked at Tres Rios BLM, I assume you are asking about the YB6, HE6 and HB6. I remember inspecting each of those wells during drilling, and there were no reserve pits. Cuttings from the closed loop drilling were stored temporarily on the well pads on plastic liner (which occasionally got small rips over the course of the drilling) until they were trucked off location. Rod Brashear may also have inspection notes from that time period, if that helps.

I'll be leaving for vacation on the 12th, so we'll have to catch up more at the end of the month. Enjoy our spring weather!

- Tracy

On Wed, Apr 6, 2016 at 4:44 PM, Antipas, Andrew <Andrew_Antipas@kindermorgan.com> wrote:
Hi Tracy!!!!!!

If you have the time, I need another favor please. Would your field notes have recorded that KM did not build reserve pits for the YB-6, HE-6, and HA-6? If so, could you send me an email explaining that? I'm going on vacation tomorrow (April 7) and I return to the office on April 13. If you can manage to check on that and write before I get back, could you email to Phil and Mike copied on this email????? Many thanks!

I will give you a call when I get back. Hope it is warming up in Meeker!

Best,

Andy

Andrew Antipas
Kinder Morgan CO2 Company, LP
17801 Hwy 491
Cortez, CO 81321
970-882-5534 (direct)
970-882-5521 (fax)
970-529-3599 (cell)

--

Tracy Perfors
Acting Supervisory Natural Resource Specialist, BLM
White River Field Office

(970) 878-3811 office
(970) 317-1534 cell

**State of Colorado
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:
400254413

EARTHEN PIT REPORT / PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days is required for pits. Submit required attachments and forms.

Form Type: **PERMIT** : **REPORT** OGCC PIT NUMBER: 428411

NOTE: Operator to provide OGCC Pit Number only if available on an existing pit for pit report

ATTACHMENTS

Detailed Site Plan	
Design/Cross Sec	
Topo Map	
Calculations	
Sensitive Area Info	
Mud Program	
Form 2A	
Form 26	
Water Analysis	

OGCC Operator Number: <u>46685</u>	Contact Name: <u>PAUL BELANGER</u>
Name of Operator: <u>KINDER MORGAN CO2 CO LP</u>	
Address: <u>17801 HWY 491</u>	Phone: <u>(970) 882-2464</u>
City: <u>CORTEZ</u> State: <u>CO</u> Zip: <u>81321</u>	Email: <u>paul_belanger@kindermorgan.com</u>

Pit Location Information

Operator's Pit/Facility Name: <u>YB</u>	Operator's Pit/Facility Number: <u>6</u>
API Number (associated well): <u>05-08300</u>	
OGCC Location ID (associated location): _____	Or Form 2A # <u>400224235</u>
Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNW-24-37N-18W-N</u>	
Latitude: <u>37.453701</u>	Longitude: <u>-108.789299</u> County: <u>MONTEZUMA</u>

Operation Information

Pit Use/Type (Check all that apply):	Pit Type: <input checked="" type="checkbox"/> Lined <input type="checkbox"/> Unlined
<input checked="" type="checkbox"/> Drilling: (Ancillary, Completion, Flowback, Reserve Pits)	<input type="checkbox"/> Oil-based Mud; <input checked="" type="checkbox"/> Salt Sections or High Chloride Mud
Production: Skimming/Settling; Produced Water Storage; Percolation; Evaporation	
Special Purpose: Flare; Emergency; Blowdown; Workover; Plugging; BS&W/Tank Bottoms	
Multi-Well Pit: Construction Date: _____ Actual or Planned: _____	
Method of treatment prior to discharge into pit: <u>shaker</u>	
Offsite disposal of pit contents: <input checked="" type="checkbox"/> Injection; <input checked="" type="checkbox"/> Commercial; <input checked="" type="checkbox"/> Reuse/Recycle; <input type="checkbox"/> NPDES; Permit Number: _____	
Other Information: <u>We recycle/re-use fluids; inject waste fluids in disposal well; haul solids to land farm.</u>	

Site Conditions

Distance (in feet) to the nearest surface water: <u>1526</u>	Ground Water (depth): <u>195</u>	Water Well: <u>1423</u>
Is this location in a Sensitive Area? <u>No</u>	Existing Location? _____	

Pit Design and Construction

Size of Pit (in feet): Length: <u>250</u> Width: <u>150</u> Depth: <u>10</u>	Calculated Working Volume (in barrels): <u>13000</u>
Flow Rates (in bbl/day): Inflow: <u>24000</u> Outflow: _____ Evaporation: _____ Percolation: _____	
Primary Liner. Type: <u>HD Woven</u> Thickness (mil): <u>30</u>	
Secondary Liner (if present): Type: _____ Thickness (mil): _____	
Is Pit Fenced? <u>Yes</u> Is Pit Netted? <u>Yes</u> Leak Detection? <u>No</u>	
Other Information: <u>salt related cuttings and fresh water cuttings stored separately; see construction diagrams. 9000bbls fresh + 4000bbls brine = 13000bbls; ESTIMATE 24000 IN AND 24000 OUT on average - field above will not save 24000 in outflow box; eform bug submitted 2/23/2012</u>	

Operator Comments: NEW WELL, NEW LOCATION THEREFORE NO API; SAME 2 PIT USED FOR BOTH VERTICAL PILOT AND HORIZONTAL DRILLING

Certification

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

Signed: _____ Print Name: Paul Belanger
Title: Regulatory contractor Email: paul_belanger@kindermorgan.com Date: 02/24/2012

Approval

Signed: [Signature] Title: Director of Cogcc Date: 03/30/2012

BMP

Type Comment

--	--

Total: 0 comment(s)

CONDITIONS OF APPROVAL:

SITE SPECIFIC COAs:

- Submit notice 48 hours prior to pit construction via Form 42.
- Submit notice 48 hours prior to pit liner system installation via Form 42.
- COA 12 - Any pit constructed to hold salt based fluids and/or cuttings must be lined.
- COA 11 - All cuttings generated during drilling with high chloride/salt based muds must be kept in the lined drilling pit, or placed either in containers or on a lined/bermed portion of the well pad prior to offsite disposal. The moisture content of any drill cuttings in a cuttings pit, trench, or pile shall be as low as practicable to prevent accumulation of liquids greater than de minimis amounts.
- COA 5 - Operator must implement best management practices to contain any unintentional release of fluids, including any fluids conveyed via buried or temporary surface pipelines.
- COA 39 - If the pit location on the pad changes from the original Construction Layout Drawings, revised drawings must be submitted via a Form 4 Sundry. If the new pit location requires the slopes to be placed partially or completely in fill, then the pit and fill slope must be designed and certified by a professional engineer, subject to review and approval by the COGCC director prior to construction of the pit. The construction and lining of the pit shall be supervised by a professional engineer or their agent. The entire base of the pit must be in cut.
- COA 49 - The pit must be fenced and netted. The operator must maintain the fencing and netting until the pit is closed.
- COA 27 - Submit additional disposal facilities (wells, pits, etc.), if necessary (i.e., if original disposal option changes), for pit liquid contents to COGCC via a Form 4 Sundry prior to disposal.
- COA 28 - Pits used for salt based fluids and/or cuttings shall be closed in accordance with an approved Site Investigation and Remediation Workplan, Form 27.
- COA 91 - At the time of pit closure, operator must submit disposal information for solids, if necessary, via a Form 4 Sundry Notice to the COGCC Location Specialist for Western Colorado (Dave Kubeczko; email dave.kubeczko@state.co.us). The disposal method will need to be approved prior to operator starting pit closure.