Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
COC11160

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
8910180310

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
DC 22

2. Name of Operator
KINDER MORGAN CO2 CO, LP
Contact: MICHAEL HANNIGAN
E-Mail: michael_hannigan@kindermorgan.com

9. API Well No.
05-033-06184-00-S1

3a. Address
17801 HWY 491
CORTEZ, CO 81321

3b. Phone No. (include area code)
Ph: 970-882-5532

10. Field and Pool or Exploratory Area
DOE CANYON

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 8 T40N R17W SESW 962FSL 1567FWL
37.756500 N Lat, 108.770770 W Lon

11. County or Parish, State
DOLORES COUNTY, CO

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☒ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

See attachment.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #497710 verified by the BLM Well Information System
For KINDER MORGAN CO2 CO, LP, sent to the Durango
Committed to AFMSS for processing by ASHLEY HITCHELL on 01/06/2020 (20ACH0037SE)

Name *(Printed/Typed)* MICHAEL HANNIGAN
Title EHS SUPERVISOR

Signature (Electronic Submission)
Date 01/03/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JOHN PECOR
Title MINERALS STAFF CHIEF
Date 01/16/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Durango

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revisions to Operator-Submitted EC Data for Sundry Notice #497710

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	RECL NOI	RECL NOI
Lease:	COC11160	COC11160
Agreement:		8910180310 (COC47612A)
Operator:	KINDER MORGAN CO2 COMPANY, L.P 17801 US HIGHWAY 491 CORTEZ, CO 81321 Ph: 970-882-5532	KINDER MORGAN CO2 CO, LP 17801 HWY 491 CORTEZ, CO 81321 Ph: 970.882.5517
Admin Contact:	MICHAEL HANNIGAN EHS SUPERVISOR E-Mail: michael_hannigan@kindermorgan.com Ph: 970-882-5532	MICHAEL HANNIGAN EHS SUPERVISOR E-Mail: michael_hannigan@kindermorgan.com Ph: 970-882-5532
Tech Contact:	MICHAEL HANNIGAN EHS SUPERVISOR E-Mail: michael_hannigan@kindermorgan.com Ph: 970-882-5532	MICHAEL HANNIGAN EHS SUPERVISOR E-Mail: michael_hannigan@kindermorgan.com Ph: 970-882-5532
Location:		
State:	CO	CO
County:	DOLORES	DOLORES
Field/Pool:	DOE CANYON	DOE CANYON
Well/Facility:	DOE CANYON 22	DC 22 Sec 8 T40N R17W SESW 962FSL 1567FWL 37.756500 N Lat, 108.770770 W Lon

Proposed Stabilization and Monitoring Plan for the DC-22 Well Location

This plan has been prepared in response to the United States Department of the Interior Bureau of Land Management (BLM) Notice of Incidents of Noncompliance (#20JJ0001I), which was received by Kinder Morgan CO_2 Company, L.P. (Kinder Morgan) via certified mail on November 18, 2019.

Proposed Stabilization Plan

The DC-22 CO_2 production well was completed on October 7, 2018, as the first of three (3) wells to be drilled on the multi-well location if approved. Kinder Morgan's proposal of co-locating the wells on one central pad is motivated by an effort to minimize the additional disturbance that would be associated with multiple well pads.

Vegetative cover has been established on those portions of the location that were seeded and mulched after construction was completed with the exception of the cut slope that borders the north side of the graveled surface of the well pad. Kinder Morgan proposes to collect soil samples from the cut slope in order to develop a soil amendment application plan that will promote vegetative growth.

The soil surfaces of the DC-22 location are currently stabilized using a combination of pavement sections (gravel), vegetative cover and runoff controls including rock armor, hydro-mulch, diversion ditches, protected culverts, rock check dams and gate valves as shown on the attached Storm Water Map. Although the cut slope on the north side of the graveled well pad was seeded and mulched after the completion of construction, the propagation of vegetative cover was not successful. Soil samples will be collected from the slope and sent to a laboratory for analysis to determine what amendments will be required in order to propagate a vegetative cover that will adequately stabilize the soil surface. Kinder Morgan intends to conduct this soil sampling and amendment application in Q2 of 2020 in an effort to capitalize on Spring growing conditions.

During an on-site visit conducted on November 18, 2019, BLM staff commented on what was referenced as "stress cracks" on the berms bordering the location. These cracks will be monitored and addressed in accordance with the monitoring plan detailed below.

Proposed Monitoring Plan

KM is permitted under the Colorado Department of Public Health and Environment (CDPHE) General Permit COR402568: Storm Water Discharges Associated with Construction Activity and has developed a Master Stormwater Management Plan which covers the McElmo Dome and Doe Canyon Production Units. Additionally, Kinder Morgan has a Post-Construction Stormwater Management Plan to comply with the Colorado Oil and Gas Conservation Commission (COGCC) Rule 1002.f. regarding storm water discharges from oil and gas locations.

In accordance with the CDPHE Permit and COGCC Plan, the DC-22 well location is currently being inspected on a monthly basis by Kinder Morgan environmental, health & safety (EHS) and operations personnel. Kinder Morgan EHS personnel conduct monthly inspections for compliance with storm water and noxious weed regulations and to monitor the progress of reclamation efforts. Additionally, Kinder Morgan operations personnel conduct monthly inspections to monitor wellhead and flow line integrity and to note signs of erosion, noxious weeds and ruts on the location.

Kinder Morgan proposes to continue monitoring the DC-22 location by conducting these inspections on a monthly basis at a minimum. During well drilling activities the frequency of EHS inspections will increase from monthly to once every 14 days. In addition to storm water (erosion), noxious weed and vegetation monitoring, Kinder Morgan EHS personnel will also monitor the embankment fill slope for signs of instability such as differential settlement and other types of soil movement.

Vegetative surveys of the cut slope will be conducted utilizing a variant of the Daubenmire Method to determine percent vegetative cover and vegetative composition at each location. To ensure an acceptable confidence interval that allows for accurate site representation, sample points (disturbed and undisturbed) will be randomly determined for each location to be surveyed utilizing global information systems (GIS) analysis. Consideration will be given to points selected to most accurately represent each sample location. Sample points will be navigated to by utilizing survey grade Trimble global positioning system (GPS). Survey areas will be delineated utilizing a 3ft X 3ft tool. The bottom left corner of the tool will be placed on the pre-determined sample point and oriented to the north for each analysis point. Data will be recorded utilizing a Trimble GPS.

Schedule of Activities

Kinder Morgan proposes to complete interim reclamation of the DC-22/23/24 location after all three (3) wells have been completed. The proposed schedule for drilling and interim reclamation activities is as follows:

-Kinder Morgan proposes to drill the DC-23 and DC-24 on the DC-22 well pad utilizing the same disturbance area utilized for the DC-22.

DC-24

-An APD for the DC-24 was submitted through AFMSS2 on 11/6/2019 and KM is in the process of rectifying deficiencies conveyed by the BLM.

-DC-24 is included in Kinder Morgan's Doe Canyon Deep Unit 2019 Plan of Development (POD) and is referenced in the 2019 Operations/Development Plan.

-If approved, the DC-24 would be drilled in Q2 of 2020.

DC-23

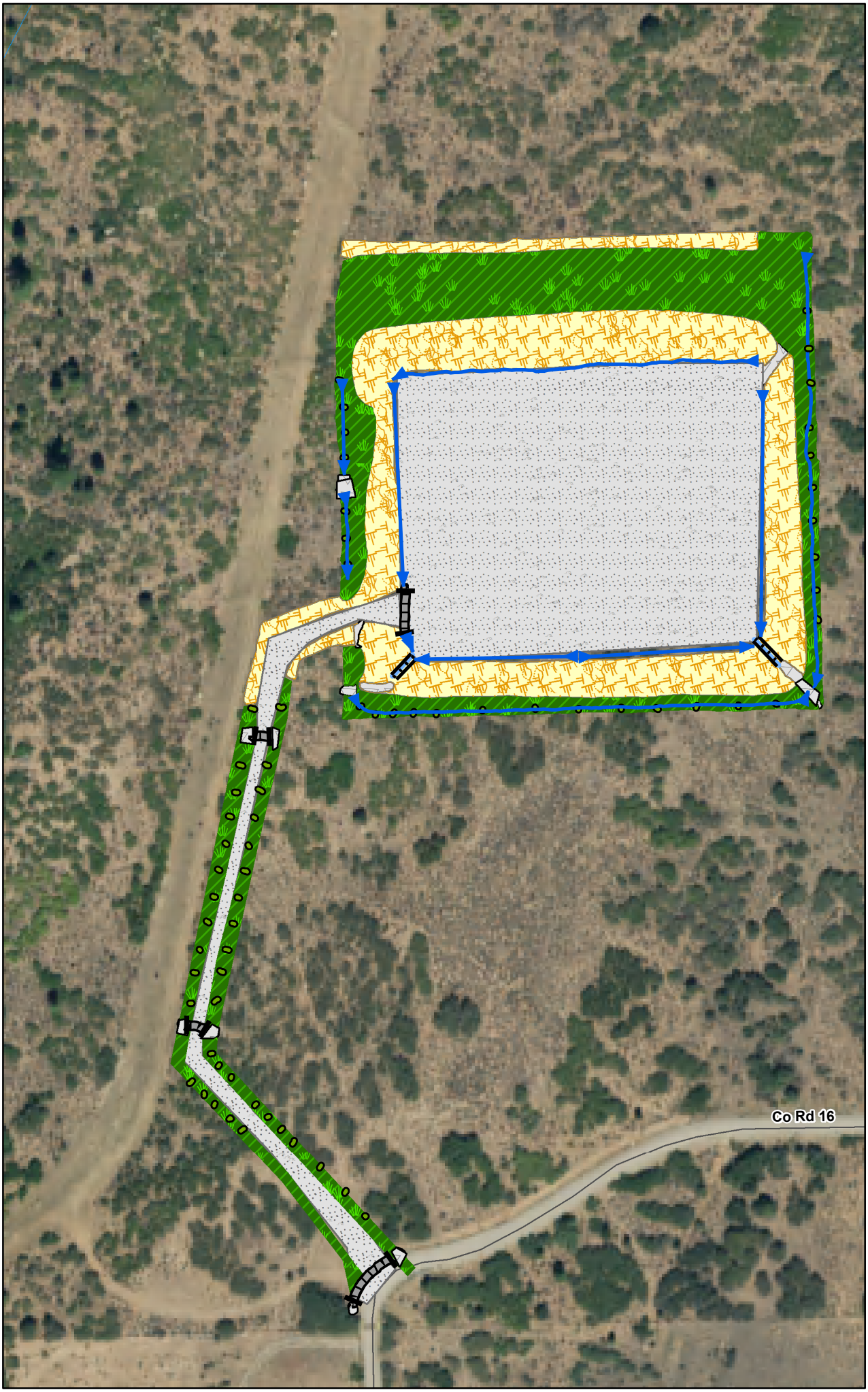
-Kinder Morgan will update the Plan of Development for the McElmo Dome and Doe Canyon Production Units in Q1 of 2020 to include the DC-23.

-The DC-23 APD is planned to be submitted to the BLM in Q2 of 2020.

-If approved, the DC-23 would be included in the drilling schedule to be completed before December 31, 2022.

Summary of schedule of activities

Based on this proposed schedule the full Interim reclamation for the DC-22, 23, & 24 well pad would be completed by June 30, 2023. In the event that the DC-24 and/or DC-23 are not drilled by December 31, 2022 the DC-22 will be interim reclaimed by June 30, 2023.



DC 22
Storm Water Map

TWSP 40N, R17W S8
N 37.737199
W 108.751609

Legend

- Seeding/Crimping
- Graveled Area
- Rock Armor
- Hydro Mulch
- Diversion Ditch
- Protected Culvert
- Rock Check Dam
- Wattle
- Gate Valve

N

Feet
0 40 80 160

1:1,900

REV. No.	DATE	DRAFT BY	REVISION DESCRIPTION	ENG.	EQD.	PE.
				APPROVALS		

Kinder Morgan

KINDER MORGAN
CO_2 COMPANY, L.P.

DRAWN BY: Jake Forsman
DATE: 12/31/2019
PAPER SIZE: 8.5"x11"