Office Submit 1 Copy To Appropriate District	State of New Mexico	Form C-103
<u>District I</u> – (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240	•	WELL API NO. 30-003-20033
10 District II (5/5) /48-1283 811 S. First St., Artesia, NM 88210	District II - (575) 748-1283 U.S. First St. Artesia NM 88210 OIL CONSERVATION DIVISION	
District III - (505) 334-6178 1220 South St. Francis Dr.		5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 Scotta Fo. NIM 97505		STATE FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Salita Pe, INW 67505	6. State Oil & Gas Lease No.
87505		LH4742
SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name		7. Lease Name or Unit Agreement Name
	S TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
	TION FOR PERMIT" (FORM C-101) FOR SUCH	Cottonwood Canyon
PROPOSALS.) 1. Type of Well: Oil Well Ga	s Well 🛛 Other CO2	8. Well Number CC-6X
2. Name of Operator	s well 25 other eoz	9. OGRID Number
Kinder Morgan CO2 Company, L.P.		34945
3. Address of Operator		10. Pool name or Wildcat
830 East Main, Suite 220, Springerville, AZ 85938		Abo Reef
4. Well Location		
Unit Letter D : 381 feet from the North line and 229 feet from the West line		
Section 10 Township 01N Range 21W NMPM Catron County		
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		
6802 GR		
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data		
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒ REMEDIAL WORK ☐ ALTERING CASING ☐		
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ COMMENCE DRILLING OPNS.☐ P AND A ☐		
PULL OR ALTER CASING		
DOWNHOLE COMMINGLE	Í	
CLOSED-LOOP SYSTEM		
OTHER:	☐ OTHER:	
13. Describe proposed or complete	d operations. (Clearly state all pertinent details, an	d give pertinent dates, including estimated date
of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of		
proposed completion or recompletion.		
Plug and Abandonment Procedure and Reclamation Plan attached.		
Proposed start date for Cottonwood Canyon Plug and Abandonment program (nine wells total): May 15, 2017.		
Snud Date: 9/15/2007	Rig Release Date:	
Spud Date: 9/15/2007	Rig Release Date:	
Spud Date: 9/15/2007	Rig Release Date:	
Spud Date.		
Spud Date.	Rig Release Date: ve is true and complete to the best of my knowledg	e and belief.
Spud Date.		e and belief.
I hereby certify that the information abo	ve is true and complete to the best of my knowledg	
Spud Date.		
I hereby certify that the information about SIGNATURE	ve is true and complete to the best of my knowledg	rDATE2/14/2017
I hereby certify that the information about SIGNATURE Type or print name _Michael Hannigan	ve is true and complete to the best of my knowledg	rDATE2/14/2017
I hereby certify that the information about SIGNATURE	ve is true and complete to the best of my knowledg TITLE Senior EHS Enginee P.E. E-mail address: michael_hannigan@kinde	rDATE2/14/2017 ermorgan.com_PHONE: 970-882-5532
I hereby certify that the information about SIGNATURE Type or print name _Michael Hannigan For State Use Only	ve is true and complete to the best of my knowledg TITLE Senior EHS Enginee P.E. E-mail address: michael_hannigan@kinde	rDATE2/14/2017 ermorgan.com_PHONE: 970-882-5532
I hereby certify that the information about SIGNATURE Type or print name _Michael Hannigan	ve is true and complete to the best of my knowledg TITLE Senior EHS Enginee P.E. E-mail address: michael_hannigan@kinde	rDATE2/14/2017

PLUG AND ABANDONMENT PROCEDURE Cottonwood Canyon Unit #6x

January 16, 2017

Unit D, 381' FNL and 229' FWL, Section 10, T-01-N, R-21-W Catron County, New Mexico / API 30-003-20033 Lat: N 34° 18' 36.3594" / Lat: W -109° 2' 4.1994"

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield. This project will utilize a closed-loop system handle waste fluids circulated from the well and cement wash up.

- 1. **NOTE:** The NMOCD requires a CBL log to be run on all wells where the cement did not circulate to surface or where a CBL log was not previously run. This procedure is prepared with the understanding that it may be modified based on the TOC from CBL(s).
 - Install and test location rig anchors or set a base beam. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures.
 - 3. RU wireline lubricator and run a gauge ring down the 2-7/8" casing to 2450' or as deep as possible. RIH and set 2-7/8" wireline cement retainer at 2400'. Load casing with water and pressure test to 1500 PSI. Rig down wireline lubricator.
 - NU relief line and blow down well. ND wellhead and NU 7-1/16" 3M BOP with 1.660" rams onto the master valve. Function test BOP. Tally and prepare a 1.660" OD (1-1/4") workstring.
 - 5. Plug #1 (Precambrian CO2 perforations): TIH with 1-1/4" workstring and sting into the CR at 2400'. Establish a rate under the CR into the perforations (2470' to 2566'). Determine the size of this plug from the injection rate and pressure. Mix and pump from 50 to 100 sxs Class B cement, squeeze cement under the CR into the perforation, as much as possible, and then sting out of the CR and leave the 5 sxs on top. PUH to 2200' and reverse circulate the 2-7/8" casing clean. TOH. If the 2-7/8" casing did not pressure test, then tag this plug.
 - 6. RU wireline unit and run CBL in the 2-7/8" casing from 2200' to surface. Send this log to the NMOCD for possible modifications to this plugging procedure.
 - 7. If the 2-7/8" x 5-1/2" annulus TOC is determined by the CBL, then ND the BOP from the 2-7/8" master valve and remove this valve. NU the BOP on the 5-1/2" casing's tubing head; install 2-7/8" rams. Pick up on the 2-7/8" and attempt to confirm the free point by stretch. Jet cut the 2-7/8" casing at 2160' (50' below Abo top) or at the appropriate depth. Pull and LD the 2-7/8" casing. Install 2-3/8" BOP rams.
 - 8. Prepare and tally 2-3/8" tubing workstring. TIH and tag the 2-7/8" casing stub. If the casing was cut above the 5-1/2" shoe, then first set a 5-1/2" CR approximately 50' above the 2-7/8" casing stub. Load 5-1/2" casing and pressure test above the CR. If the 5-1/2' casing does not pressure test, then tag or spot cement plugs as appropriate.

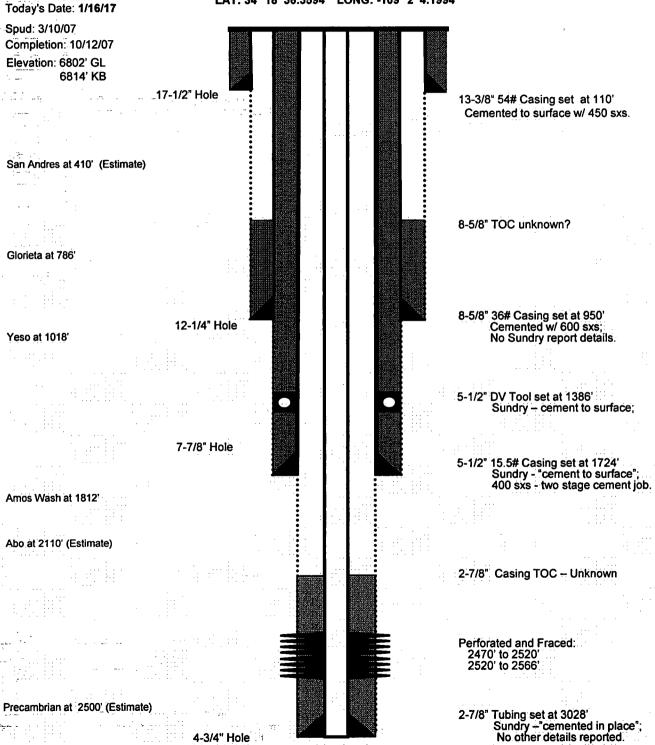
- 9. TOH and run a CBL to determine the 5-1/2" annulus TOC. If this annulus is not cemented to surface as the Sundry reported, then cut and pull the 5-1/2" casing at the appropriate depth. Set plug #2 before cutting the 5-1/2" casing.
- 10. If the 2-7/8" was cut below the shoe, then TIH to 50' below the 2-7/8" casing stub.
- 11. Plug # 2 (5-1/2" Casing shoe, 2-7/8" tubing stub, Abo and Amos Wash formation tops, 2160' to 1674'): Mix 87 sxs Class B cement (50% excess in the openhole interval) and set a balanced plug covering the casing stub and shoe; if using a 5-1/2" CR, then adjust the volumes as appropriate.
- 12. Plug #3 (Yeso top, 8-5/8" casing shoe and Glorieta top, 1068' to 736'): Mix 45 sxs Class B cement and spot a balanced plug inside the 5-1/2" casing to isolate the formation tops. If the 5-1/2' casing was removed, then adjust this plug as appropriate. TOH.
- 13. Plug #4 (San Andres top, 460' to 360'): Perforate 6 HSC holes through the 5-1/2" and 8-5/8" casings. Establish an injection rate outside the 8-5/8" casing. If appropriate, set a 5-1/2" CR at 410'. Mix and pump 87 sxs Class B cement, squeeze 70 sxs outside the 8-5/8" casing and leave 17 sxs inside to cover the formation top. If the 5-1/2' casing was removed, then adjust this plug as appropriate. TOH.
- 14. Plug #5 (13-3/8" Casing shoe, 160' to Surface): Perforate with 6 HSC holes at 160'. Establish circulation out then bradenhead valve with water; also attempt to circulate out the 5-1/2" x 8-5/8" intermediate casing valve. Circulate the BH annulus or both annuli clean. Mix and pump approximately 120 sxs Class B cement down the 5-1/2' casing to circulate good cement to surface out the bradenhead valve; and intermediate valve if possible. Shut in and WOC.
- 15. ND the BOP and dig out the wellhead. Complete a hot work permit and cut off the wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors.

Cottonwood Canyon #6x

Current Wellbore

Unit D, 381' FNL & 229' FWL, Section 10, T-1-N, R-21-W Catron County, NM / API #30-003-20033

LAT: 34° 18' 36.3594" LONG: -109° 2' 4.1994"



TD 3033' PBD 3028'

Cottonwood Canyon #6x

Proposed Plugged Well

Unit D, 381' FNL & 229' FWL, Section 10, T-1-N, R-21-W Catron County, NM / API #30-003-20033

LAT: 34° 18' 36.3594" LONG: -109° 2' 4.1994"

Today's Date: 1/16/17

Spud: 3/10/07 --

erico Larrana ila:

Completion: 10/12/07

Elevation: 6802' GL

6814' KB

----- 17-1/2" Hole

San Andres at 410' (Estimate)

Yeso at 1018'

7-7/8" Hole

12-1/4" Hole

Amos Wash at 1812'

Abo at 2110' (Estimate)

Precambrian at 2500' (Estimate)

Plug #5: 160' to Surface Class B cement, 120 sxs

Perforate 6 holes at 160'

13-3/8" 54# Casing set at 110' Cemented to surface w/ 450 sxs.

> Plug #4: 460' - 360' Class B cement, 87 sxs 17 inside, 70 outside 8-5/8" -

Set CR at 410' Perforate 6 holes at 460'

8-5/8" TOC unknown?

Plug #3: 1068' - 736' Class B cement, 45 sxs

8-5/8" 36# Casing set at 950' Cemented w/ 600 sxs; No Sundry report details.

5-1/2" DV Tool set at 1386' Sundry – cement to surface;

5-1/2" 15.5# Casing set at 1724' Sundry - "cement to surface"; 400 sxs - two stage cement job.

Cut 2-7/8" at 2160'

Plug #2: 2160' - 1674' Class B cement, 87 sxs (50% excess, long plug)

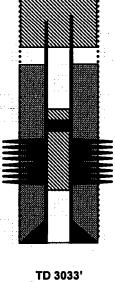
2-7/8" Casing TOC - Unknown

CR at 2400'

Plug #1: 2566' - 2300' Class B cement, 50 - 100 sxs Under and 5 sxs above CR

Perforated and Fraced: 2470' to 2520' 2520' to 2566'

2-7/8" Tubing set at 3028'
Sundry --"cemented in place";
No other details reported



PBD 3028'

PROPOSED RECLAMATION PLAN Cottonwood Canyon Unit #6X API 30-003-20033

Final site reclamation and revegetation of the CC-6X location will consist of re-grading the location to match, as closely as possible, the surrounding contours followed by scarification of previously disturbed areas and the broadcast application of an appropriate seed mix. Any compacted portions of the location will be scarified to a minimum depth of 12 inches while all other areas of disturbance will be scarified to a minimum depth of 6 inches. Following scarification all disturbed areas of the location, including access roads, will be seeded with a mix of plant species appropriate for an arid sandy environment.