Submit I Conv To Appropriate District					E
Office	State of New Me		Dou	Form C-103	
District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283	Energy, Minerals and Natural Resources		WELL API NO. 30,003,20042		
811 S. First St., Artesia, NM 88210	OIL CONSERVATION	<b>IDIVISION</b>	5. Indicate Tvp	e of Lease	
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.		STATE STATE		
<u>istrict IV</u> – (505) 476-3460 Santa Fe, NM 87505 220 S. St. Francis Dr., Santa Fe, NM 7505			6. State Oil & Gas Lease No. LH4757		
SUNDRY NOTICES AND REPORTS ON WELLS			7. Lease Name or Unit Agreement Name		
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH			Cottonwood Canvon		
I. Type of Well: Oil Well Gas Well XI Other CO2			8. Well Number CC-14X		
2. Name of Operator			9. OGRID Number		
Kinder Morgan CO2 Company, L.P.			34945		
3. Address of Operator 830 East Main Suite 220 Springerville AZ 85938			10. Pool name or Wildcat		
A Well Location					
Unit Letter D : 648 feet from the South line and 1.378 feet from the West line					
Section 27	Township 01N	Range 21W	NMPM	Catron	County
	. Elevation (Show whether DR	, RKB, RT, GR, etc.,	1. See		
<u>70</u>	69 GR				
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data					
PERFORM REMEDIAL WORK	DRM REMEDIAL WORK D PLUG AND ABANDON 🛛 REMEDIAL WORK D ALTERING CA				
	CHANGE PLANS COMMENCE DRILLING OPNS. PAND A				
OTHER:		OTHER:			
13. Describe proposed or completed operations. (Clearly state all pertinent details, and 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.					
2/12/2013				<u> </u>	
Spud Date:	Rig Release Da	ate:			
I hereby certify that the information above is true and complete to the best of my knowledge and belief.					
SIGNATURE Mile Higher TITLE Senior EHS Engineer DATE 2/14/2017					
Type or print name _Michael Hannigan, P.E E-mail address: michael_hannigan@kindermorgan.com PHONE: 970-882-5532					
	N. A.		<u></u>	-	
APPROVED BY: <u>New TITLE VO LAN ENER</u> DATE <u>3-6-17</u> Conditions of Approval (if any):					

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January 24, 2017

### A-Plus Well Service, Inc. PLUG AND ABANDONMENT PROCEDURE Cottonwood Canyon Unit #14x

Page 1 of 2

#### Unit D, 648' FNL and 1378' FWL, Section 27, T-01-S, R-21-W Catron County, New Mexico / API 30-003-20042 Lat: N 34° 17' 12.62" / Long: W: 109° 1' 55"

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 to handle waste fluids circulated from the well and cement wash up.

 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.

- 2. *Note: Existing CIBP at 1575*'. NU relief line and blow down well. Load casing with fresh water. Pressure test 7" casing to 800 PSI. ND wellhead and NU BOP. Shell pressure test BOP.
- 3. Prepare and tally a 2.375" tubing workstring. Make up a 6-1/4" bit and bit sub and 4 to 6 drill collars. TIH with bit and tag existing CIBP at 1575'. Rig up drilling equipment and establish circulation with fresh water. Drill out CIBP and push to 7" casing shoe at 2583' or as deep as possible. TOH and LD bit.
- Set a 7" CR at approximately 2533'. Load casing with water, and circulate well clean. Pressure test 7" casing to 800 PSI. If the casing does not test, then spot or tag subsequent plugs as appropriate.
- 5. Plug #1 (Precambrian zone, 2830' to 2483'): Sting into the CR and establish rate into Precambrian open hole interval. Mix and pump 150 sxs Class B cement and squeeze 130 sxs below CR into the open hole interval and leave 20 sxs above. PUH.
- Plug #2 (Abo top, 2241' to 2141'): Mix 29 sxs Class B cement and spot a balanced plug inside the 7" casing to cover the Abo top. TOH with tubing.
- 7. Plug #3 (Amos Wash top and 9.625" Casing shoe, 1923' to 1821'): Perforate the 7" casing with 3 HSC holes at 1923'. Attempt to establish rate into the squeeze holes, if the casing tested. Set a 7" CR at 1871'. Re-establish rate under the CR into squeeze holes. Mix and pump 58 sxs Class B cement, squeeze 29 sxs outside the 7" casing and leave 29 sxs inside to isolate Amos Wash top and 9.625" casing shoe. PUH.
- 8. Plug #4 (Yeso and Glorleta tops and 13.375" Casing shoe1168' to 730'): Mix 92 sxs Class B cement and spot a balanced plug inside the 7" casing to isolate the formation tops and the casing shoe. TOH with tubing.

January 24, 2017

## A-Plus Well Service, Inc. PLUG AND ABANDONMENT PROCEDURE

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Cottonwood Canyon Unit #14x

Page 1 of 2

## **Procedure Continued:**

9. Plug #6 (San Andres and 30" Conductor pipe shoe, 630' to Surface): Perforate the 7" production casing with 3 HSC holes at 630'. Establish circulation out bradenhead with water and circulate 9.625" x 13.375" annulus clean. Mix and pump approximately 220 sxs Class B cement down 7" casing to circulate good cement to surface out bradenhead. Shut well in and WOC.

10. 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.





# PROPOSED RECLAMATION PLAN Cottonwood Canyon Unit #14X API 30-003-20042

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Final reclamation and revegetation of the CC-14X location will occur after the well has been plugged and abandoned. The temporary drilling pit associated with well CC-14X was successfully closed in accordance with 19.15.17.13 NMAC during May and June of 2016. The CC-14X temporary drilling pit location was reclaimed to a safe and stable condition that blends with the surrounding undisturbed area and the soil cover placed over the on-site burial trench was reclaimed to the site's original contours in a manner that will prevent the ponding of water and erosion.

Final site reclamation and revegetation 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.

Following completion of reclamation and revegetation activities, steel location markers for the temporary drilling pit and on-site burial trench will be installed. The markers will be placed in the exact locations of the center of the former temporary drilling pit (Latitude 34.28671, Longitude -109.03132) and on-site burial trench (Latitude 34.28651, Longitude -109.03234) in accordance with 19.15.17.13 F.(3) NMAC.