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Submit I Copy To Appropria	te District	State of New M	1exico			Form C-103	
<u>District I</u> - (575) 393-6161	Ener	gy, Minerals and Na	tural Resources	WELLADIN	Rev	ised July 18, 2013	
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> - (575) 748-1283 811 S. First St., Artesia, NM 88210 District III - (505) 334-6178 1220 South St. Francis Dr.				30-003-20025			
				5. Indicate Type of Lease			
1000 Rio Brazos Rd., Aztec, District IV (505) 476 3460	1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505				STATE STATE		
1220 S. St. Francis Dr., Santa Fe, NM				LH4728			
87505 SUN	DRY NOTICES AND	REPORTS ON WELL	_S	7. Lease Nam	e or Unit Agr	eement Name	
(DO NOT USE THIS FORM							
PROPOSALS.)				Cottonwood C	Cottonwood Canyon 8 Well Number CC-4		
1. Type of Well: Oil Well Gas Well Other CO2				8. Well Numb	a. Wen Number CC-4		
Kinder Morgan CO2 Company, L.P.				34945			
3. Address of Operator	10. Pool name or Wildcat						
830 East Main, Suite 22	Abo Reef						
4. Well Location	D 1042 for	t from the South	line and (60	Foot from	the Feet		
Section 1	F1,0451ee	Township 01N	nne and _000 Range 20W/		Catron	County	
	11. Eleva	tion (Show whether D	R, RKB, RT, GR, etc)			
	6845 GR	``````````````````````````````````````		5.00 5.00 5.00			
					-		
12.	Check Appropriat	te Box to Indicate	Nature of Notice,	Report or Oth	er Data		
NOTIC	E OF INTENTIO	N TO:	SUE	SEQUENT F	REPORT C	DF:	
PERFORM REMEDIAL WORK D PLUG AND ABANDON REMEDIAL WOR				K 🗌	ALTERIN		
					P AND A		
			CASING/CEWEN				
CLOSED-LOOP SYSTE							
OTHER:			OTHER:				
13. Describe propos	ed or completed operat	tions. (Clearly state all	l pertinent details, an	d give pertinent c	lates, includit h wellbore di	ng estimated date	
proposed compl	etion or recompletion.			inpletions. Attac	il wenoșie di	agram of	
Plug and Abandonment F	Procedure and Reclama	tion Plan attached.					
Proposed start date for Co	ottonwood Canyon Plu	g and Abandonment p	rogram (nine wells to	otal): May 15, 201	17.		
3/15/199			_]		
Spud Date:	,	Rig Release D	Date:				
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I hereby certify that the in	formation above is tru	e and complete to the l	best of my knowledg	e and belief.			
		1	,, ,				
SIGNATURE M.	e e flair	TITLE	Sonion EUS Enginee	- DATE 3(14/2017		
SIGNATORE	<u> </u>		Senior EHS Enginee	rDATE,2/	[4/2017		
Type or print name _Mic	nael Hannigan, P.E	E-mail address: mich	ael_hannigan@kind	ermorgan.com Pl	HONE: 970-8	82-5532	
For State Use Only	ENA		1			Λ.	
APPROVED BY:	Il Jone	TITLE /=	august Dis	TTT	DATE 3	-6-17	
Conditions of Approval (fany):		grant and a	·			

January 30, 2017

A-Plus Well Service, Inc. PLUG AND ABANDONMENT PROCEDURE Cottonwood Canyon Unit #4

Unit P, 1043 FSL and 660' FEL, Section 16, T-01-N, R-20-W Catron County, New Mexico / API 30-003-20025 Lat: N 34.3056400 / Lat: W -108.932110

- 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.
- 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. NU relief line and blow down well. Note: Existing CIBP at 2780'. Load casing with water. Pressure test 5.5" casing to 800 PSI. Bleed off pressure. ND wellhead and NU BOP. Shell test the BOP.
- Prepare and tally a 2.375" tubing workstring. <u>Note: in 1998 it is reported that a Polybore liner was installed in the 5.5" casing from surface to 2650'; determine the appropriate mill / bit OD</u>). TIH with a 4.75" junk mill and 2.375" tubing workstring to tag existing CIBP at 2780'. May need to use a smaller OD mill due to Polybore liner. Rig up drilling equipment and establish circulation with fresh water. Drill out CIBP and push to 2886' or as deep as possible. TOH and LD mill.
- 3. Plug #1 (Precambrian perforations and Abo top, 2886' to 2460'): TIH with 5.5" cement retainer and set at 2761'. Circulate well clean. Pressure test the casing to 800 PSI, if the casing does not test then spot or tag subsequent plugs as appropriate. Establish injection rate below the CR into Precambrian production perforations (2811' to 2886'). Mix 91 to 141 sxs Class B cement. Squeeze 50 to 100 sxs, based on injection rate and pressure, below the CR and into the production perforations. Leave 41 sxs inside the casing above the CR to cover the Abo top and isolate the Precambrian production zone. TOH.
- 4. Plug #2 (8.625" Casing shoe and Amos top, 2245' to 2074'): Perforate 3 HSC holes at 2245' and attempt to establish rate into these squeeze holes. Set a cement retainer at 2195'. Re-establish injection rate into squeeze holes. Mix and pump 60 sxs Class B cement, squeeze 34 sxs outside the 5.5" casing and leave 26 sxs inside to cover the intermediate casing shoe and Amos top. TOH
- 5. Plug #3 (Glorieta and Yeso tops, 1360' to 1050'): Perforate 6 HSC holes at 1360' and attempt to establish rate into squeeze holes. Set a cement retainer at 1310'. Re-establish injection rate in to squeeze holes. Mix and pump 259 sxs Class B cement, squeeze 217 sxs outside the 5.5" casing into the 8-5/8" annulus and leave 42 sxs inside to cover the Glorieta and Yeso tops. TOH
- Plug #4 (San Andres top, 920' to 820'): Perforate 6 HSC holes at 920'. Attempt to establish rate into the squeeze holes. Set a 5-1/2" cement retainer at 870'. Re-establish injection rate into squeeze holes. Mix and pump 117 sxs Class B cement, squeeze 99 sxs outside the 5.5" casing into the 5-1/2" and 8-5/8" annuli leaving 18 sxs inside to cover the San Andres top. TOH

Establish circulation out 5-1/2" casing valve with water and circulate the 5-1/2" annulus clean. Mix and pump approximately 45 sxs Class B cement to circulate good cement to surface. Shut in well and WOC.

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8. 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 and the second s anchors.





PROPOSED RECLAMATION PLAN Cottonwood Canyon Unit #4 API 30-003-20025

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Final site reclamation and revegetation of the CC-4 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.