Submit 1 Copy To Appropriate District	State of New N	1 exico	Form C-103
Office <u>District I</u> – (575) 393-6161 1635 N. French Dr. Hobbs, NM 88240	Office District I – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283 OIL CONSERVATION DIVISION		Revised July 18, 2013
<u>District II</u> - (575) 748-1283			30-003-20026
811 S. First St., Artesia, NM 88210 District-III - (505) 334-6178 1220 South St. Francis Dr		5. Indicate Type of Lease	
1000 Rio Brazos Rd., Aztec, NM 87410	000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505		STATE STATE FEE
1220 S. St. Francis Dr., Santa Fe, NM		LH-4758	
67303 SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR - USE "APPLICATION FOR DERMIT" (FORM C-101) FOR SUCH			7. Lease Name or Unit Agreement Name
PROPOSALS.)			Cottonwood Canyon 8. Well Number CC-3
2. Name of Operator			9. OGRID Number
Kinder Morgan CO2 Company, L.P.			34945
830 East Main, Suite 220, Springerville, AZ 85938			Abo Reef
4. Well Location			
Unit Letter P :	660feet from the _South	line and _660	feet from the _Eastline
Section 36	Township 01N	Range 21W	NMPM Catron County
	[1] 11. Elevation (Show whether Di 6802 GR	R, RKB, RT, GR, etc.,	
			LUTTER OF THE SALES A REPORT TO A TO A
12. Check	Appropriate Box to Indicate 1	Nature of Notice,	Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK D PLUG AND ABANDON REMEDIAL WOR			
TEMPORARILY ABANDON 📋 CHANGE PLANS 🔲 COMMENCE DR		LLING OPNS. P AND A	
PULL OR ALTER CASING		CASING/CEMEN	ГЈОВ 🔲
DOWNHOLE COMMINGLE			
CLOSED-LOOP SYSTEM	Π		П
 Describe proposed or composition of starting any proposed w 	oleted operations. (Clearly state all ork). SEE RULE 19.15.7.14 NMA	l pertinent details, and C. For Multiple Cor	d give pertinent dates, including estimated date npletions: 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.			
Spud Date: 4/16/1998	Rig Release D	Date:	
	al state in the state of the st		
I nereby certify that the information	above is true and complete to the t	best of my knowledge	e and beller.
SIGNATURE Minhally	TITLE	Senior EHS Engineer	DATE_2/14/2017
Type or print name Michael Hono) gan P.F. F-mail address: migh	ael hannigan@kinda	morgan com PHONE-070 992 5522
For State Use Only	5an, 1.D D-man address. mich	u∝ı_nannıgan(@Killde /	amorgan.com i HOINE, 970-002-3332
ADDROVED BY	TITLE F		TT DATE 2/2/19
Conditions of Approval (if any):	minute LA	gener/UD	DATE 2/6/11
	/		

January 24, 2017

A-Plus Well Service, Inc. PLUG AND ABANDONMENT PROCEDURE Cottonwood Canyon Unit #3

Page 1 of 2

Unit P, 660' FSL and 660' FEL, Section 36, T-01-N, R-21-W Catron County, New Mexico / API 30-003-20026 Lat: N 34.26133 / Long: W -108.98501

- 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: 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.
- 2. **Note:** *Existing CIBP at 2050'*. Load casing with water. Pressure test 5.5" casing to 800 PSI. ND wellhead and NU BOP. Shell pressure test BOP.
- Prepare and tally a 2.375" tubing workstring. Make up a 4.75" bit and bit sub; TIH with workstring to tag existing CIBP at 2050'. Rig up drilling equipment and establish circulation with fresh water. Drill out CIBP and push to 2.875" liner top at 2794' or as deep as possible. TOH and LD bit.
- 4. RU wireline unit and set 5.5" CR at 2700' (note: deviations starts at 2238'). TIH with and tag CR. Load casing with water and circulate well clean. Pressure test 5.5" casing to 800 PSI. If the casing does not test, then spot or tag subsequent plugs as appropriate.
- 5. TOH with tubing. Run a CBL from the new PBTD to surface. Send this log to the NMOCD for possible modifications to the following plugging plan.
- 6. Plug #1 (Isolate 2.875" Liner, Precambrian zones and Abo top, 3968' to 2548'): TIH with tubing and sting into CR at 2700'. Establish rate under CR. Mix and pump 223 sxs Class B cement, squeeze 200sxs under the CR and leave 30 sxs above inside the 5.5" casing to isolate CO₂ zone with the liner and cover the Abo top. TOH with tubing.
- Plug #2 (8.625" Casing shoe and Amos Wash top, 2338' to 2172'): If the casing will be cut below this depth, then modify this plug as appropriate. If the casing will be cut above this depth, mix 25 sxs Class B cement and spot a balanced plug inside the 5.5" casing to cover the Amos Wash top and 8.625" casing shoe. TOH with tubing.
- ND the BOP and wellhead; weld a slip on collar onto the 5.5" casing. Pull up to 120,000# to unseat the casing slips. Once the casing slips are removed, then stretch the casing to determine the free point (compare to the CBL annulus TOC). Jet cut the casing at the appropriate depth. NU the tubing head and the 7-1/16" BOP and install 5.5" pipe rams. Pull and lay down the 5.5" casing.

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A-Plus Well Service, Inc. PLUG AND ABANDONMENT PROCEDURE Cottonwood Canyon Unit #3

Page 2 of 2

- 9. Plug #3 (5.5" Casing stub, ____' to ___'): Mix 43 sxs Class B cement and spot a balanced plug inside the 5.5" and the 8.625" casing to cover the stub (50' below cut). TOH and WOC. TIH and tag cement. Load the 8.625" casing with water and circulate well clean. Pressure test this casing to 1000 PSI. TOH with tubing.
- 10. ND the 7-1/16" BOP and the tubing head. NU a 10" or 11" 3M double BOP on the casing head. Install 2-3/8" rams. RU wireline unit. Run a CBL to determine bottom of cement on 1998 bradenhead pump down job.
- 11. Plug #4 (Yeso top, 1582' to 1482'): Perforate the 8.625" casing with 6 HSC holes at 1582'. Attempt to establish rate into the squeeze holes if the casing tested. Set an 8.625" wireline CR at 1532'. TIH and sting into the CR; re-establish rate into squeeze holes. Mix 114 sxs Class B cement, squeeze 71 sxs outside the casing and leave 43 sxs inside to cover the Yeso top. PUH to 1410' and reverse circulate the casing clean. TOH with tubing.
- 12. Plug #5 (Glorieta top, 1373' to 1273'): Perforate the 8.625" casing with 6 HSC holes at 1373'. Attempt to establish rate into the squeeze holes if the casing tested. Set an 8.625" wireline CR at 1323'. TIH and sting into the CR; re-establish rate into squeeze holes. Mix 114 sxs Class B cement, squeeze 71 sxs outside the casing and leave 43 sxs inside to cover the Glorieta top. TOH with tubing.
- 13. Plug #6 (San Andres tops, 1028' to 928'): Perforate the 8.625" casing with 6 HSC holes at 1028'. Attempt to establish rate into the squeeze holes if the casing tested. Set an 8.625" wireline CR at 978'. TIH and sting into the CR; re-establish rate into squeeze holes. Mix 114 sxs Class B cement, squeeze 71 sxs outside the casing and leave 43 sxs inside to cover the Glorieta top. TOH with tubing
- 14. Plug #7 (13.375" Surface casing shoe, 162' to Surface): Perforate 6 HSC squeeze holes at 162' (depending on the CBL results). Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix and pump approximately 130 sxs Class B cement down the 8.625" casing to circulate good cement to surface. Shut in well and WOC.
- 15. ND the 11" 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 #3 **Proposed Plugged Well** Abo Reef Pool Unit P, 660' FSL & 660' FEL, Section 36, T-1-N, R-21-W 新新研究 Accounts 下台湾 電気など Catron County, NM / API #30-003-20026 . ar. 588 Osta Lat: N 34.26133 / Long: W -108.98501 1.600 Today's Date: 1/24/17 Spud: 4/6/98 Pumped 140 sxs into bradenhead (1998) tarin ka regi Completion: Elevation: 7303' GL 7317' KB 17.5" hole 13.375" 48# Casing set at 112' Cement to surface, sxs not reported **Maybe Perforate** at 172' after CBL. Plug #7 172' to Surface Cement with 50 sxs (no perforation); or 130 sxs with perf. and circulate. Plug #6 1028' to 928' Cmt w/ 114 sxs. San Andres at 978 Perf at 1028' and CR at 978' Cavern at 1100' Plug #5 1373' to 1273' Cmt w/ 114 sxs. Glorieta at 1323' Perf at 1373' and CR at 1323' Plug #4 1582' to 1482' Yeso at 1532' Cmt w/ 114 sxs. Perf at 1582' and CR at 1532' Plug #3 100' over casing stub Cut 5-1/2" casing at ~1800' Cement with 43 sxs. 8.625" TOC at 1832' (CBL) Piug #2 2338' to 2172' Cement with 25 sxs. 12.25" Hole 8.625" 32# Casing set at 2222' Cement with 450 sxs, no circulate; Top pump 140 sxs into bradenhead. Amos Wash at 2288' 5.5" Annulus TOC Unknown ?? Plug #1 3968' to 2548' Abo at 2598' Cement with 223 sxs; Set CR at 2700' 200 sxs below CR and 23 above. 8.75" Hole -Precambrian at 3040' 5.5" 15.5# Casing set at 2838' Cement with 660 sxs; did not circulate to surface; Fractured CO₂ Reservoir Kick Off Point at 2838' Top of 2.875" liner at 2794' 4.75" Hole 2-7/8" Slotted Liner set at 3968 1174' measured length liner Un-cemented (per Sundry) TOL at 2794'

TD 3968'

PROPOSED RECLAMATION PLAN Cottonwood Canyon Unit #3 API 30-003-20026

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Final site reclamation and revegetation of the CC-3 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.

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