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 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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 PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-003-20040
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other CO2		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Kinder Morgan CO2 Company, L.P.		6. State Oil & Gas Lease No. LH4763
3. Address of Operator 830 East Main, Suite 220, Springerville, AZ 85938		7. Lease Name or Unit Agreement Name Cottonwood Canyon
4. Well Location Unit Letter <u> </u> M <u> </u> : <u>660</u> feet from the <u>South</u> line and <u>1,980</u> feet from the <u>West</u> line Section <u> 36</u> Township <u>01N</u> Range <u>21W</u> NMPM Catron County		8. Well Number <u>CC-12</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 7639 GR		9. OGRID Number 34945
10. Pool name or Wildcat Abo Reef		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input checked="" type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
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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.

See A-PLUS well plugging report (attached).

*PE A
6/16/17*

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE *Michael Hannigan* TITLE EHS Supervisor DATE 7/14/2017

Type or print name Michael Hannigan, P.E. E-mail address: michael_hannigan@kindermorgan.com PHONE: 970-882-5532

For State Use Only
 APPROVED BY: *W. Jones* TITLE Engineer DATE 7/14/17
 Conditions of Approval (if any):



Kinder Morgan

17801 Hwy 491
Cortez, CO 81321

P.O. Box 1979, Farmington, NM 87499
(505) 325-2627

Name: Cottonwood Canyon #12
API:30-003-20040

Well Plugging Report

Cement Summary

Plug #1, Abo, Amos Wash and: Open hole interval to 5110', 5.5" Production casing shoe, with CR at 2905 ft.; pump 300 sxs Class B cement (15.6 ppg, 354.0 cf) from 5110 ft. to 2252 ft.; squeeze 266 sxs below CR at final of 1200 PSI and leave 74 sxs above.

No WOC and tag because 5.5" casing pressure tested to 1000 PSI.

Plug #2, Yeso and 7" Casing shoe; inside 5.5" with 40 sxs Class B cement (15.6 ppg, 47.2 cf.) from 1875 ft. to 1522 ft. No WOC or tag due to good casing pressure test.

Plug #3, Glorieta and 9.625" Casing shoe, inside 5.5" casing with 36 sxs Class B cement (15.6 ppg, 42.5 cf.) from 1205 ft. to 1522 ft. Note: shot 6 deep penetrating perforations at 1469 ft.; unable to establish injection rate at 3000 PSI using a packer; procedure change approved for inside plug only. Pete McNeil notified Will Jones with NMOCD on 6-14-17. WOC overnight and tagged TOC with tubing at 1232 ft.

Plug #4, San Andreas top; with 6 deep penetrating squeeze holes at 1140 ft.; inside / outside, with CR at 1086 ft.; mix and pump 94 sxs Class B cement (15.6 ppg, 110.9 cf.) from 1140 ft. to 990 ft.; squeeze 22 sxs into 7"x9.625" annulus, 54 sxs outside 9.625" casing and leave inside 5.5" casing 7 sxs below CR and 11 sxs above. No tag, good PT.

Plug #5, Ground water zone, with 6 deep penetrating squeeze holes at 450 ft.; inside / outside, with CR at 396 ft.; mix and pump 93 sxs Class B cement (15.6 ppg, 109.7 cf.) from 450 ft. to 299 ft.; squeeze 22 sxs into 7"x9.625" annulus, 54 sxs outside 9.625" casing and leave inside 5.5" casing 6 sxs below CR and 11 sxs above. No tag, good PT.

Plug #6, Surface Casing shoe, with 6 deep penetrating squeeze holes at 150 ft.; inside / outside casings, no CR; mix and pump 227 sxs Class B cement (15.6 ppg, 267.9 cf.) down the 5.5" casing into squeeze holes with no circulation to surface; pumped 2 times the calculated volume to fill casing and annuli; recorded 500 PSI when shut down. WOC overnight and then cut off well head. Found TOCs at: inside 5.5" at 69 ft. down; 5.5" x 7" greater than 100'; and 7" x 9.625" greater than 100'.

Plug #7, set DHM, after cutting off the wellhead found: 5.5" casing (69' down), 5.5" x 7" annulus (> 100' down) and 7" x 9.625" annulus (> 100' down); fill with 167 sxs Class B cement (197.1 cf at 15.6 ppg), mixed and pumped down from surface until cement came to surface.

Work Detail

PUX	Activity
06/12/2017	
P	Travel to location. Held SFTY meeting on the JSA, service and start equipment.
P	Check PSI on the well, CSG 670 PSI, BH 0, INTER 0, PSI.
P	RU daylight pulling unit. Unload the BOP and spot the pump truck.
U	Rig not sitting right on the base beam. RD the rig, at half mast found the board deployment line was broke and hanging up. Put the derrick on the head ach rack. Call for mechanic.
U	Level the rig back up.
P	Return to Springerville.
06/13/2017	
P	Travel to location.
U	Held SFTY meeting on the JSA, service and start equipment.
U	Repair the sheave, string 2 new board deployment lines and inspect derrick. RU daylight pulling unit. Inspect – all OK.
P	Check PSI on the well, CSG 670 PSI, Inter 0 PSI, BH 20 PSI, ND the WH to the master valve, NU the BOP and function test. RU relief lines, blow the well down.
P	RU the work floor and TBG equipment. RU the pump to the 5.5" CSG and pump 80 bbl. and loaded the hole.
P	PU the Weatherford PKR, TIH PU and tallying the TBG to 2885' and set the PKR. Load the CSG with 1.5 bbl. and PSI test the CSG to 1000 PSI for 15 min. good test.
P	RU pump to the TBG, pump 5 bbl. to establish a rate of 2 BPM at 1300 PSI, once the pump was kicked out the PSI dropped to 500 PSI and slowly bled off.
P	Release the PKR, TOO H and LD the PKR.
P	RIH with 5.5" PlugWell CR to 2905' and set the CR, POOH.
P	PU CR stinger, TIH to 2844'. Clean and secure location and SDFD.
P	Return to Springerville.
06/14/2017	
P	Travel to location. Held SFTY meeting on the JSA, service and start equipment.
P	Check PSI on the well, TBG 0, CSG 0, Inter 0, BH 0, open the well to the pit.
P	TIH and tag the CR at 2905', load the hole with 1 bbl. Sting into the CR and establish rate of 2 BPM at 1300 PSI. Sting out of the CR.
P	Plug #1 mix and pump 300 sxs Class B CMT (15.6# 354 CUFT) from 5110' to 2252'. Leaving 226 sxs below the CR and 74 sxs on top of the CR. Sting out PSI was 1200 PSI.
P	TOOH LD to 1865', PU a 10" sub, EOT at 1875'. Load the hole with 2 bbl.
P	Plug #2 mix and pump 40sxs (15.6# 47.2 CUFT) Class B CMT from 1875' to 1522'. (Plug shortened on sxs because of perf on plug #3.)
P	TOOH LD to 1452' and continue TOOH.
P	RIH to 1469' and perf 6 DP holes, POOH. RU the pump to the 5.5" CSG and attempt to establish a rate, PSI up to 1000 PSI and held.
P	PU Weatherford PKR, TIH and set at 1429'.
P	Dig out the well head to confirm no valves were still covered, all valves at surface.
P	Pressure up on perms below the PKR to 2500 PSI, bleed off and PSI up to 2800 PSI and held for 10 min. Bleed off, PSI up to 3000 PSI and lost 100 PSI in 10 min.
P	TOOH and LD the PKR, WOO. TIH to 1522'.
P	Plug #3 mix and pump 36 sxs Class B CMT (15.6# 42.48 CUFT) from 1522' to

Cottonwood Canyon #12

API:30-003-20040

June 30, 2017

1205'. (Plug changed to an inside only plug, because we couldn't pump into the perfs. Pete McNeil notified Will Jones with NMOCD on 6-14-17.)

P TOOH LD to 1200' and continue out to 575'. Clean and secure location and SDFD. Return to Springerville.

06/15/2017

P Travel to location.

P Held SFTY meeting on the JSA, service and start equipment.

P Check PSI on the well, TBG 0 PSI, CSG 0 PSI, 7" X 9-5/8" 0 PSI, 9-5/8" X 12-1/4" 0 PSI, open the well. TIH and tag TOC at 1232'. TOOH with tubing.

P RIH with DP gun and perf 6 holes at 1140', POOH. Establish rate of 3 BPM at 0 PSI, pumped 5 bbl. total.

P PU WD 5.5" CR, TIH to 1086' and set the CR. Release and sting out, load the hole with 1 bbl. Sting into the CR and reestablish a rate of 3 BPM at 0 PSI.

P Plug #4 mix and pump 94sxs 15.6# 110.92 CUFT Class B CMT from 1140' to 990'. Leaving 11 sxs above the CR, 7 sxs below, 22 sxs in the 7" X 9-5/8", and 54 sxs in the 9-5/8" X 12-1/4" hole.

P TOOH LD to 386' and continue TOOH.

P RIH with DP gun and perf 6 holes at 450', POOH. Pump 11 bbl. to establish a rate of 2 BPM at 500 PSI.

P PU WD 5.5" CR, TIH to 396' and set the CR. Release from the CR and load the hole with 6 bbl. Sting into CR and reestablish rate of 2 BPM at 500 PSI.

P Plug #5 mix and pump 93sxs 15.6# 109.74 CUFT Class B CMT from 450' to 299'. Leaving 11 sxs above the CR, 6 sxs below, 22 sxs in the 5-12" X 7", and 54 sxs in the 9-5/8" X 12-1/4" hole.

P TOOH LD all TBG.

P RIH with DP gun and perf 6 holes at 150', POOH. Pump 45 bbl. at 3 BPM 500 PSI no flow to surface out the casing or annuli valves.

P Plug #6 mix and pump, 227 sxs with 5# of LCM (Cello Flake) 15.6# 267.86 CUFT Class B CMT down the 5.5" casing with no returns to surface.

P WOC.

P RD pumping equipment, TBG equipment and the work floor. Dig out the well head and prep for cut off.

P Return to Springerville

06/16/2017

P Travel to location.

P Held SFTY on the JSA, service and start equipment.

P Check PSI on the well, no TBG, CSG 0, Intermediates 0, BH 0, open the well. RU and cut off the well head. While cutting off loaded the waste pit, mud pit, frac tank and scrap. Move equipment to staging area and drop. Return to location. Finish loading scrap, old well heads and secure TBG float.

P Rig down daylight pulling unit and pull away from well bore.

P Found TOCs in the 5-1/2" down 69', 5-1/2" X 7" no tag at 100' and the 7" X 9-5/8" no tag at 100'. RU CMT equipment and prep the DHM. Tack the DHM into place.

P DHM and top off, mix and pump 167 sxs Class B cement 15.6# 197.06 CUFT to top off and set the DHM.

P Road remaining equipment to location. Secure and SDFD. Well complete.

P Return to Farmington.

* P = Procedure Planned; U = Unplanned A+ issue; X = COA, Well Conditions.