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 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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. 30-003-20039
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. LH4762
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>N</u> : <u>660</u> feet from the <u>South</u> line and <u>660</u> feet from the <u>West</u> line Section <u>16</u> Township <u>01N</u> Range <u>21W</u> NMPM <u>Catron</u> County		8. Well Number <u>CC-11</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 7416 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

<b>NOTICE OF INTENTION TO:</b> 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"/>		<b>SUBSEQUENT REPORT OF:</b> 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).

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 Senior EHS Engineer DATE 7/20/2017

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: Will Jones TITLE Engineer DATE 7/26/17  
 Conditions of Approval (if any):



Kinder Morgan  
17801 Hwy 491  
Cortez, CO 81321

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

Cottonwood Canyon #11  
API:30-003-20039  
June 30, 2017

## Well Plugging Report

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### Cement Summary

**Plug #1**, Precambrian perforations, with CR at 2812 ft., mix and pump 52 sxs (15.6 ppg, 61.36 CUFT) Class B cement; squeeze all below the CR to fill the perforations. No WOC or tag because of good casing pressure test.

**Plugs #2 and #3** combined, 7" casing shoe and Abo and Amos Wash tops; with 3 HSC squeeze holes at 2796 ft.; inside / outside, with CR at 2749 ft.; with 103 sxs Class B cement (15.6 ppg, 121.5 cf.) from 2796 ft. to 2046 ft.; 47 sxs outside 4.5" casing, 4 sxs below CR and 52 sxs inside above CR. No tag because good casing PT.

**Plug #4**, 9.625" Casing shoe, Yeso and Glorieta tops; inside only with 38 sxs of Class B cement (15.6 ppg, 44.8 cf.) from 1641 ft. to 1127 ft. inside 4.5" casing. No tag, casing PT.

**Plug #5**, San Andreas top, with 6 DP holes at 868 ft.; inside / outside, with CR at 823 ft.; mix and pump 200 sxs Class B cement (15.6 ppg, 236.0 cf.) from 868 ft. to 715 ft.; squeeze 188 sxs outside the 4.5" casing and 4 below CR and then 8 above CR; final squeeze pressure under CR at 1000 PSI.

**Plug #6**, Conductor casing shoe, 6 DP holes at 136 ft.; inside / outside, with 187 sxs Class B cement (15.6 ppg, 220.7 cf.) from 0 ft. to 136 ft.: 1) mix and pump down the 4.5" casing, after 80 sxs away the 9.625" x 13.375" annulus circulate good cement to surface; 2) shut this annulus valve and continue to squeeze away 107 sxs with no flow to surface. WOC overnight.

**Plug #7**, DHM and top off, after cut off, found TOC: in 4.5" casing 7 ft. down; 4.5" x 7" annulus 5 ft. down; 7" x 9.625" annulus at surface; and 9.625" x 13.375" annulus at surface; fill casing and annulus and install DHM marker with 25 sxs Class B cement (15.6 ppg, 29.5 cf.).

### Work Detail

PUX	Activity
06/19/2017	
P	Travel to location.
P	Held Safety meeting on the JSA, Service and start equipment.
P	Back fill the DHM on the CC-12. Move the backhoe to the CC-11. Remove the cage from around the well head and remove the cellar cover. Spot the frac tank and the base beam. Spot the rig on the base beam.
P	Load the well head cage, cellar cover and secure. Travel to pipe yard with scrap well heads and scrap iron. Unload all scrap and load the backhoe. Return to location and spot TBG trailer.
P	Rig up the daylight pulling unit. Unload the BOP and spot the cement pump.

- P ND the well head, unable to NU the BOP because of an unusual hanger and seal assembly.
- P Return to Springerville.
- 06/20/2017
- P Travel to location.
- P Held Safety meeting on the JSA, Service and start equipment.
- P Check PSI on the well, CSG TSTM, 4-1/2" X 7" 0 PSI, 7" X 9-5/8" 0 PSI, BH 0, open the well.
- P Pump 40 bbl. to load and pump 20 more bbl. at 3 BPM at 200 PSI.
- P Wait on tools to modify the wellhead.
- P Cut out the seal assembly and 2 way check threads on the 4-1/2" casing hanger.
- P NU the BOP and function test, OK. RU the work floor and TBG equipment. Pump 25 bbl. to load the hole.
- P PU Weatherford 4-1/2" CSG scrapper and TIH with 2.375" tubing workstring to 2814'. TOOH and LD the scrapper.
- P PU Weatherford 4-1/2" PKR and TIH to 2594'. Clean and secure location and SDFD.
- P Return to Springerville.
- 06/21/2017
- P Travel to location.
- P Held Safety meeting on the JSA, Service and start equipment.
- P Check PSI on the well, TBG vacuum, CSG 0, 4-1/2" X 7" 0, 7" X 9-5/8" 0 BH 0, open the well. TIH and set the PKR at 2814'. Pump 10 bbl. to establish rate of 3 BPM at 900 PSI. RU on the 4-1/2" CSG and load the CSG with 6 bbl. and PSI test to 1000 PSI, good test.
- P Release the PKR, TOOH and LD the PKR.
- P RIH with wireline and with 4-1/2" PlugWell CR and set it at 2812', POOH.
- P PU stinger, TIH and sting into the CR at 2812'. Re-establish rate of 2 BPM at 700 PSI and pump 7 bbl. total.
- P Plug #1 mix and pump 52 sxs (15.6# 61.36 CUFT) Class B CMT; leaving 52 sxs below the CR at 2812' and none above.
- P TOOH LD to tubing to 2718'; then continue out.
- P RIH with HSC and perforate 3 holes at 2796'. Attempt to establish IR, pressure up to 1000 PSI with slow bleed off.
- P PU Weatherford PKR, TIH to 2725' and set the PKR. Attempt to establish rate PSI up to 2500 PSI with 300 PSI bleed off. Repeat 4 times, and then establish rate of 1.5 BPM at 2200 PSI.
- P TOOH and LD the PKR. TIH with WD 4-1/2" CR and set at 2749'. Release from CR and sting out of the CR. Load the hole with 1.5 bbl.
- P Plugs #2 and #3 combine; mix and pump 103 sxs (15.6# 121.54 CUFT) Class B CMT from 2749' to 2046'. Leaving 52 sxs above the CR, 4 sxs below and 47 sxs outside casing.
- P TOOH LD to 1641', load the hole with 2.5 bbl.
- P Plug #4 mix and pump 38 sxs (15.6# 44.84 CUFT) Class B CMT from 1641' to 1127' inside the casing.
- P TOOH LD to 823' and continue out.
- P Clean and secure location SDFD.
- P Return to Springerville.

06/22/2017

- P Travel to location.
- P Held Safety meeting on the JSA, Service and start equipment.
- P Check PSI on the well, CSG 0 PSI, 4-1/2" X 7" 0 PSI, 7" X 9-5/8" 0 PSI, BH 0 PSI, open the well.
- P RIH to 868' and shoot 6 DP perforations through both the 4.5" and 7" casings. PU Weatherford PKR, TIH and set at 830'. Establish rate into squeeze holes at 2 BPM at 1700 PSI, TOOH with PKR.
- P TIH and set 4-1/2" WD CR at 823'. Release from the CR and sting out. Load the casing with 8 bbl. Sting into the CR. Establish rate of 2 BPM at 1700 PSI.
- P Plug #5 mix and pump 200sxs 15.6# 236 CUFT class B CMT from 823" to 715". Leaving 8 sxs above the CR, 4 sxs below and 188 sxs outside the 7" casing.
- P TOOH LD all TBG and the CR stinger.
- P RD rig floor and dig out the well head.
- P Perforate 6 DP holes at 136'. Pump 10 bbl. down the 4.5" casing to catch pressure; pressure up to 1500 PSI. Broke down formation. Establish rate of 2 BPM at 1800 PSI. After pumping 14 bbl. away the 9-5/8" X 13-3/8" circulated. Continue to pump 10 more bbl. with no blow or flow out any other annuli.
- P Plug #6 mix and pump 187 sxs (15.6# 220.66 CUFT) Class B CMT. At 80 sxs the 9-5/8" X 13-3/8" started to circulate CMT; circulate 1/2 bbl. CMT to the pit. Shut in the 9-5/8" X 13-3/8" and pump another 107 sxs with no blow or flow out any other annuli.
- P RD TBG equipment and the work floor. Finish digging out the well head and RU equipment to cut off the well head. Clean and secure location SDFD.
- P Return to Springerville.

06/23/2017

- P Travel to location.
- P Held Safety meeting on the JSA, Service and start equipment.
- P Check PSI on the well, all CSG and annuli at 0 PSI. ND the BOP. Cut off the well head, Found TOCs at: CMT in the 4-1/2" down 7'; 4-1/2" X 7" down 5'; 7" X 9-5/8" at surface, 9-5/8" X 13-3/8" at surface. Load the mud pit, waste pit and frac tank. Secure equipment.
- P RD pump and lines, load the BOP. Rig down daylight pulling unit.
- P DHM and top off, mix and pump 25 sxs (15.6# 29.5 CUFT) Class B CMT.
- P Move equipment to staging area.
- P Remove the cage from around the well head and spot the base beam. Clean and secure location. SDFD
- P Return to Farmington.

\* P - Procedure Planned; U - Unplanned A+ issue; X - COA, Well Conditions

## Comments

Date	Job	Comment
06/21/2017	Plug #1	Casing pressure test good with packer 2594 ft. to 1000 PSI
	Plugs #2 and #3	Pete McNeal notified Will Jones with NMOCD about combining the 2 plugs on 6-21-17.