Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
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

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-003-20036

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
LH4747

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.)

7. Lease Name or Unit Agreement Name
Cottonwood Canyon

1. Type of Well: Oil Well ☐ Gas Well ☒ Other CO2

8. Well Number CC-7X

2. Name of Operator
Kinder Morgan CO2 Company, L.P.

9. OGRID Number
34945

3. Address of Operator
830 East Main, Suite 220, Springerville, AZ 85938

10. Pool name or Wildcat
Abo Reef

4. Well Location
Unit Letter H : 1,558 feet from the North line and 1,078 feet from the East line
Section 21 Township 01N Range 21W NMPM Catron County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6919 GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
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.

Spud Date: 8/23/2007 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 2/14/2017

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: TITLE DIST III/Engr. DATE 3-6-17

Conditions of Approval (if any):

February 2, 2017

A-Plus Well Service, Inc.

PLUG AND ABANDONMENT PROCEDURE

Cottonwood Canyon Unit #7x

Unit H, 1558' FNL and 1078' FEL, Section 21, T-01-N, R-21-W
Catron County, New Mexico / API 30-003-20036
Lat: N 34° 17' 55.068" / Long: W -109° 2' 20.904"

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. Blow well down as necessary.

2. Pump 100 bbl. fresh water down the casing. Wait 30 minutes to determine if the well is stable. If appropriate, continuously pump 1/2 to 1 BPM water down the 5.5" casing while ND the 2-1/16" master valve and B2 flange. NU 7-1/16" 3 M BOP and then function test BOPE. Note: If well does not appropriately stabilize, RU wireline and run Baker Hughes 1.69" Thru-Tubing inflatable retrievable bridge plug , set plug at approximately 2000' in the 5.5" casing. Load the casing with water and pressure test to 800 PSI. NU BOP. Prepare and tally a 2.375" tubing workstring. TIH and retrieve the inflatable RBP; LD.

3. Round trip a string mill or wireline gauge ring to 2070'. Set a 5.5" CR at 2060' (wireline or mechanical). Circulate casing clean with fresh water. Pressure test casing to 1000 PSI. *If the casing does not test, then spot or tag subsequent plugs as appropriate.* TOH with tubing. Run CBL from PBTD to surface. ***Send this log to the NMOCD for possible modifications to the following plugging plan.***

4. **Plug #1 (Precambrian zone and Abo top, 2750' to 1957'):** TIH and sting into CR at 2060. Establish injection rate below CR. Mix and pump 168 sxs Class B cement, squeeze 150 sxs (100% excess) below the CR and leave 18 sxs above to cover the Abo top. TOH.

5. **Plug #2 (8.625" Casing Shoe and Amos Wash top, 1760' to 1392'):** Perforate 5.5" casing with 3 HSC holes at 1760'. Attempt to establish rate into squeeze holes if casing tested. Set a CR at 1710'. Re-establish rate into squeeze holes. Mix and pump 78 sxs Class B cement, squeeze 30 sxs outside the 5.5" casing (1760' to 1660', 100% excess); then leave 48 sxs inside the casing to cover the Amos Wash top and the 8.625" casing shoe. TOH with tubing.

6. **Plug #3 (Yeso and Glorieta tops, 1008' to 672'):** This plug possibly will require separation into two plugs, depending on the 5.5" annulus TOC from the CBL. Mix 44 sxs Class B cement and spot a balanced plug inside the 5.5" casing to cover the Yeso and Glorieta tops. TOH with tubing.

A-Plus Well Service, Inc.

PLUG AND ABANDONMENT PROCEDURE

Cottonwood Canyon Unit #7x

7. **Plug #4 (San Andres top, 482' to 382'):** Perforate the 5.5" casing with 3 HSC holes at 482'. Attempt to establish rate into squeeze holes if casing tested. Set a CR at 432'. Establish rate into squeeze holes. Mix and pump 47 sxs Class B cement; squeeze 30 sxs outside the 5.5" casing and leave 17 sxs inside to cover the San Andres top. TOH and LD tubing.

8. **Plug #5 (13-3/8" Surface casing shoe, 160' to Surface):** Perforate 5.5" casing at 160' with 6 HSC holes. Establish circulation out bradenhead valve with water and circulate the 5.5" x 8.625" intermediate annulus clean. Mix and pump approximately 50 sxs Class B cement to circulate good cement to surface. Shut well in and WOC.

9. 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.

Cottonwood Canyon Unit #7x

Current Wellbore

Abo Reef Pool

Unit H, 1558' FNL & 1078' FEL, Section 21, T-1-N, R-21-W

Catron County, NM / API #30-003-20036

LAT: 34° 17' 55.068" LONG: -109° 2' 20.904"

Today's Date: **1/21/17**

Spud: 8/22/07
Completion: 9/20/07
Elevation: 6919' GL
6931' KB

San Andres at 432'

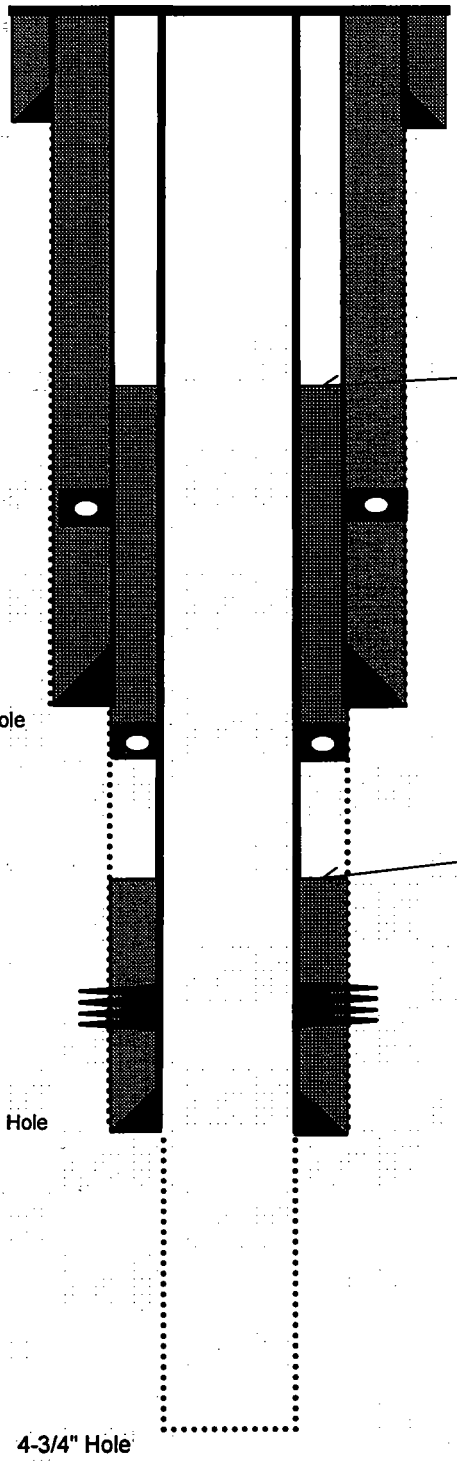
Glorieta at 722'

Yeso at 958'

Amos Wash at 1710'

Abo at 2007'

Precambrian at 2392'



17-1/2" hole

12-1/4" Hole

7-7/8"" Hole

4-3/4" Hole

8-5/8" TOC at Surface (per Sundry)

13-3/8" 54# Casing set at 110'
Cement to surface, 450 sxs

5-1/2" Annulus TOC - Unknown?

8-5/8" DV Tool set at 969'

8-5/8" 36# Casing set at 1442'
Cement with 600 sxs,
Sundry report – cement to surface;

5-1/2" DV Tool set at 1610'

5-1/2" Annulus TOC - Unknown?

Perforations:
2110' to 2160'
Acidized

5-1/2" 15.5# Casing set at 2348'
Cement w/ 796 sxs (both stages);
Sundry - no TOC reported;

4-3/4" Open Hole to TD at 2750'

TD 2750'

Cottonwood Canyon Unit #7x

Proposed Plugged Well

Abo Reef Pool

Unit H, 1558' FNL & 1078' FEL, Section 21, T-1-N, R-21-W

Catron County, NM / API #30-003-20036

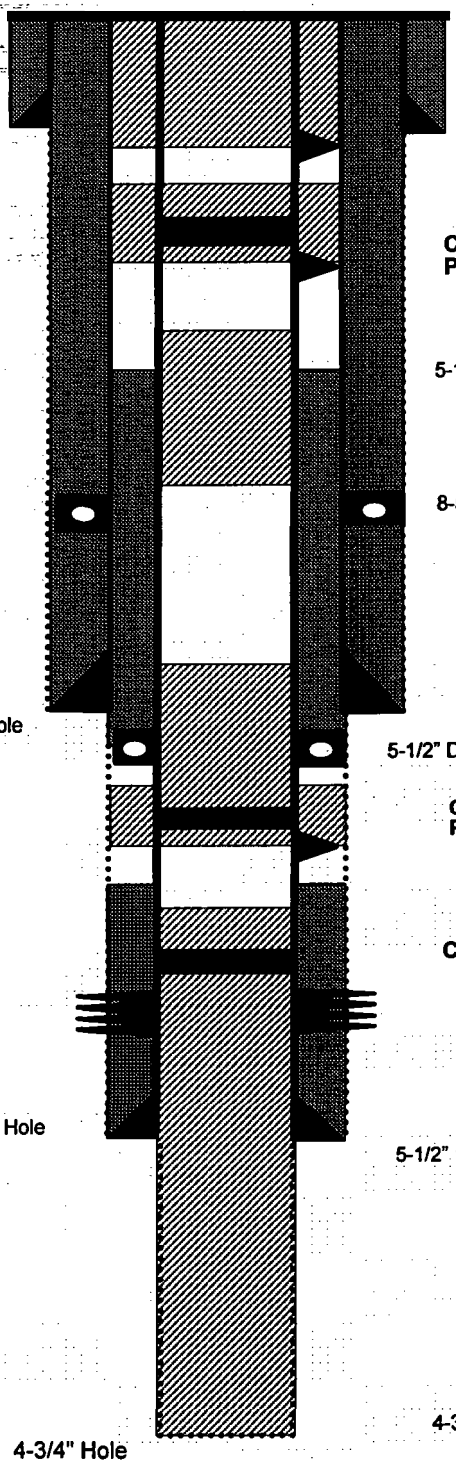
LAT: 34° 17' 55.068" LONG: -109° 2' 20.904"

Today's Date: **1/21/17**

Spud: 8/22/07

Completion: 9/20/07

Elevation: 6919' GL
6931' KB



8-5/8" TOC at Surface (per Sundry)

Perforate at 160'

Plug #5: 160' to Surface
Class B cement, 50 sxs

17-1/2" hole

13-3/8" 54# Casing set at 110'
Cement to surface, 450 sxs

San Andres at 432'

CR at 432'
Perforate at 482'

Plug #4: 482' to 382'
Class B cement, 47 sxs
17 inside, 30 outside

Glorieta at 722'

5-1/2" Annulus TOC - Unknown?

Plug #3: 1008' to 672'
Class B cement, 44 sxs

Yeso at 958'

8-5/8" DV Tool set at 969'

8-5/8" 36# Casing set at 1442'
Cement with 600 sxs,
Sundry report - cement to surface;

12-1/4" Hole

5-1/2" DV Tool set at 1610'

Amos Wash at 1710'

CR at 1710'
Perforate at 1760'

Plug #2: 1760' to 1392'
Class B cement, 78 sxs
48 inside, 30 outside

5-1/2" Annulus TOC - Unknown?

Abo at 2007'

CR at 2060'

Perforations:
2110' to 2160'
Acidized

Plug #1: 2750' to 1957'
Class B cement, 168 sxs
18 Above, 150 below CR

7-7/8"" Hole

Precambrian at 2392'

5-1/2" 15.5# Casing set at 2348'
Cement w/ 796 sxs (both stages);
Sundry - no TOC reported;

4-3/4" Open Hole to TD at 2750'

4-3/4" Hole

TD 2750'

PROPOSED RECLAMATION PLAN
Cottonwood Canyon Unit #7X
API 30-003-20036

Final site reclamation and revegetation of the CC-7X 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.