

Submit 1 Copy To Appropriate District Office  
 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
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 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

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. 30-003-20019
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. LH4740
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>P</u> : <u>990</u> feet from the <u>South</u> line and <u>880</u> feet from the <u>East</u> line Section <u>4</u> Township <u>01N</u> Range <u>21W</u> NMPM <u>Catron</u> County		8. Well Number <u>CC-5</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6892 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 checked="" 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 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.

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:  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: Will Jones TITLE AS IV / Engineer DATE 3/6/17  
 Conditions of Approval (if any):

**PLUG AND ABANDONMENT PROCEDURE  
Cottonwood Canyon Unit #5 \*\***

Unit P, 990' FSL and 880' FEL, Section 4, T-01-N, R-21-W  
Catron County, New Mexico / API 30-003-20019  
Lat: N 34.33468 / Long: W -109.03902

**\*\* Name changed from State 1-4 to Cottonwood Canyon #5, 2/11/2000**

**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. There probably is an existing CIBP at 1750' (Sundry intent filed in 2002; however, no subsequent report). Load 5.5" casing with fresh water. Attempt to pressure test casing to 800 PSI. If the casing does not test, then run a wireline casing gauge ring to determine the PBTd. If appropriate, set a 5.5" wireline CR at 1750'. Attempt to pressure test the casing again.
3. After establishing two barriers (CIBP or CR and a hydrostatic column), then ND the wellhead and NU BOP. Shell pressure test the BOP. Prepare and tally 2.375" tubing workstring. *If casing does not test, spot or tag subsequent plugs as appropriate.* TIH and tag existing CIBP or new 5.5" CR. Circulate the well clean.
4. **Plug #1 (Perforations and 8.625" Casing shoe, 1812' or 1750' to 1600')**: TIH and tag existing 5.5" CIBP at approximately 1750' or sting into the new CR and establish and injection rate into the perforations. Existing CIBP: mix 24 sxs Class B cement and spot a balanced plug inside the 5.5" casing to isolate the perforations and cover the 8.625" Casing shoe. New CR: mix and pump 50 sxs Class B cement, squeeze 25 sxs below the CR and leave 25 sxs above. PUH.
5. **Plug #2 (Glorieta and Yeso tops, 1068' to 736')**: Mix 45 sxs Class B cement and spot a balanced plug inside the 5-1/2" casing to cover the Glorieta and Yeso tops. TOH with tubing.
6. **Plug #3 (San Andres top, 500' to 400')**: Perforate at 500' with 6 deep penetrating HSC holes. Establish circulation with water and circulate BH annulus clean. Set 5.5" cement retainer at 450'. Re-establish injection rate. Mix and pump 88 sxs Class B cement, squeeze 70 sxs outside the 8.625" casing and leave 18 sxs inside the 5.5". TOH and LD tubing.
7. **Plug #4 (13.375" Conductor casing shoe, 160'-0)**: Perforate at 160' with 6 deep penetrating HSC holes. Establish circulation out bradenhead with water and circulate annulus clean. Mix approximately 120 sxs Class B cement and circulate good cement to surface. SIW and WOC.
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 coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors.

# Cottonwood Canyon Unit #5 \*\*

## Current Wellbore

990' FSL, 880' FEL, Section 4, T-01-N, R-21-W, Catron County, NM

Lat: N 34.33468 /Long: W -109.03902 API #30-003-20019

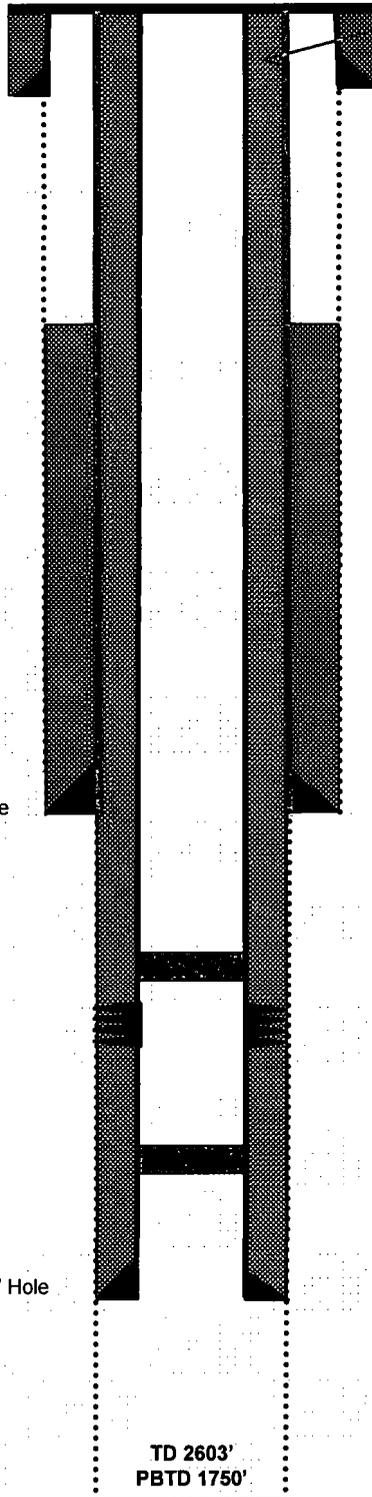
Today's Date: 1/17/17

Spud: 2/20/1998

Completion:

Elevation: 6845' GL  
6857' KB

17.25" hole



TOC in 5.5" x 8.625" Annulus  
Circulated to surface, Completion Report.

13.375" 54.5 # Casing set @ 110'  
Cement: 450 sxs, Circ. to surface.

San Andres @ 450'

TOC @ 680' (CBL 1998)

Glorieta @ 786'

Yeso @ 1018'

12.25" Hole

8.625" 36# Casing set @ 1656'  
Cement with 600 sxs

Amos Wash @ 1822'

Possible CIBP @ 1750'  
Sundry intent, 2002; no subsequent.

Fort Apache Perforations:  
1783' to 1812'

Raven @ 2012'

Existing CIBP @ 2000' (2000)

Oak Creek @ 2124'

7.875" Hole

5.5" 14.0# Casing set @ 2441'  
Cement with 417 sxs,  
Well Completion Report shows  
Cement circulated to surface.  
(Polybore inside 5.5")

Precambrian @ 2535'

TD 2603'  
PBD 1750'

Open Hole Interval 2441' to 2603'  
Stimulated with 75000# 16/30 sand

\*\* Name changed from State 1-4 to Cottonwood Canyon #5, 2/11/2000

# Cottonwood Canyon Unit #5 \*\*

## Proposed Plugged Well

990' FSL, 880' FEL, Section 4, T-01-N, R-21-W, Catron County, NM

Lat: N 34.33468 /Long: W -109.03902 API #30-003-20019

Today's Date: 1/17/17

Spud: 2/20/1998

Completion:

Elevation: 6845' GL  
6857' KB

San Andres @ 450'

Glorieta @ 786'

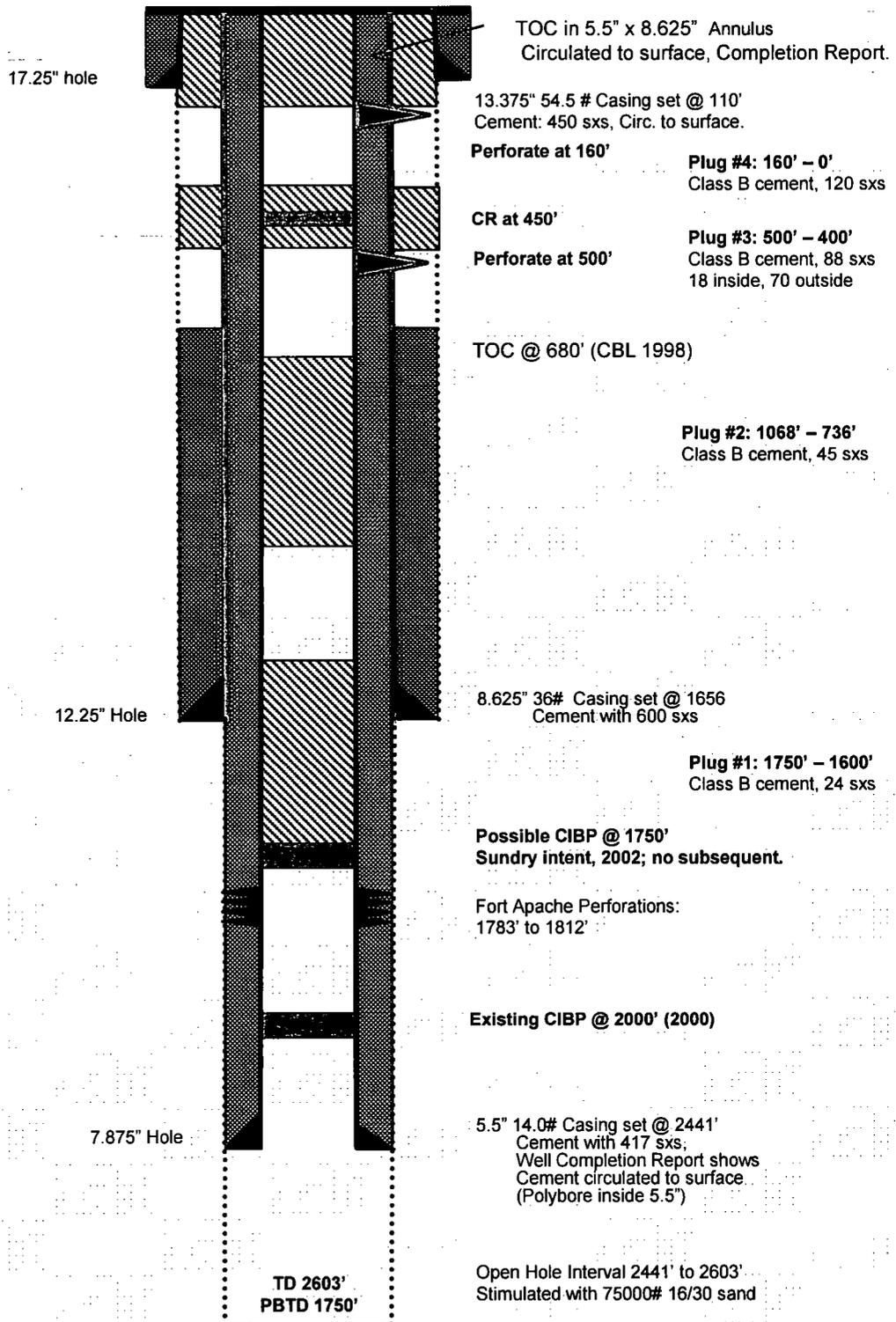
Yeso @ 1018'

Amos Wash @ 1822'

Raven @ 2012'

Oak Creek @ 2124'

Precambrian @ 2535'



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**PROPOSED RECLAMATION PLAN  
Cottonwood Canyon Unit #5  
API 30-003-20019**

Final site reclamation and revegetation of the CC-5 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.