

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

**RECEIVED**  
State of New Mexico  
Energy, Minerals and Natural Resources  
NOV 20 2019  
**OIL CONSERVATION DIVISION**  
1220 South ~~DISTRICT IV~~ ARTESIA A.O.C.D.  
Santa Fe, NM 87505

Form C-103  
Revised August 1, 2011

<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. 30-015-26294
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator Chevron USA Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 6301 DEAUVILLE BLVD., MIDLAND, TX 79706		7. Lease Name or Unit Agreement Name South Culebra Bluff 23
4. Well Location Unit Letter <u>D</u> : <u>540</u> feet from the <u>North</u> line and <u>611</u> feet from the <u>West</u> line Section <u>23</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number: 5
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2,994' GL, 3,008' KB		9. OGRID Number 4323
		10. Pool name or Wildcat Loving; Brushy Canyon, East

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

**NOTICE OF INTENTION TO:**  
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPLETIONS ☐  
DOWNHOLE COMMINGLE ☐ *Notify NMOCD 24 hrs prior to any work done.*

**SUBSEQUENT REPORT OF:**  
REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ P AND A ☐  
CASING/CEMENT JOB ☐

OTHER: ☐

OTHER: TEMPORARILY ABANDON ☐

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. 8-5/8" @ 545' TOC Surface, 5-1/2" @ 6,300' TOC Surface, Perforations: 5,890'-6,178' (see WBD for separated perf intervals).

Chevron USA INC respectfully request to abandon this well as follows:

1. Call and notify NMOCD 24 hrs before operations begin.
2. MIRU pulling unit, check well pressures, perform bubble test on surface casing annuli, if bubble test fails Chevron intends to Zonite or cut and pull casing after the well after it is plugged to a certain point agreed upon by the NMOCD and Chevron.
3. Long stroke pump and pressure test tubing to 500 psi f/ 15 minutes.
  - a. Prepare to stand back tubing and pressure test running in the well if the test fails.
4. Stand back tubing, R/U wireline, run gauge ring, and set CIBP at 5,680'. *CIBP @ 5980' w/ 25 sx Cmt WOC + Tag*
5. Pressure test casing t/ 500 psi f/ 15 minutes.
6. TIH w/ tubing and tag CIBP. Spot 25 sx CL "C" cmt f/ 5,680' t/ 5,433'. *- WOC + Tag*
7. Spot 25 sx CL "C" cmt f/ 4,758' t/ 4,512' (Brushy Canyon).
8. Spot 35 sx CL "C" cmt f/ 3,549' t/ 3,203' (Cherry Canyon, DV Tool).
9. Spot 50 sx CL "C" cmt f/ 2,661' t/ 2,167' (Bell Canyon, Lamar, B.Salt)
10. Spot 65 sx CL "C" cmt f/ 595' t/ Surface (Salt, Shoe).
11. Cut all casings & anchors & remove 3' below grade. Verify cement to surface & weld on dry hole marker (4" diameter, 4' tall). Clean location.

Note: All cement plugs class "C" (<7,500') or "H" (>7,500') with closed loop system used, and MLF spotted between plugs.

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

SIGNATURE Howie Lucas TITLE P&A Engineer, Attorney in fact DATE 11/14/2019

Type or print name Howie Lucas E-mail address: howie.lucas@chevron.com PHONE: (832)-588-4044

*Handwritten signature*

**For State Use Only**

APPROVED BY: [Signature]

TITLE Staff m,

DATE 11/21/19

Conditions of Approval (if any):

# SOUTH CULEBRA BLUFF 23-5

Loving East - 30-015-26294

Eddy County, New Mexico

D-23-23S-28E 540 FNL 611 FWL

Current Completion WBD (Updated by Y. Li on 8/12/2019)

KB: 3008'  
GL: 2994'

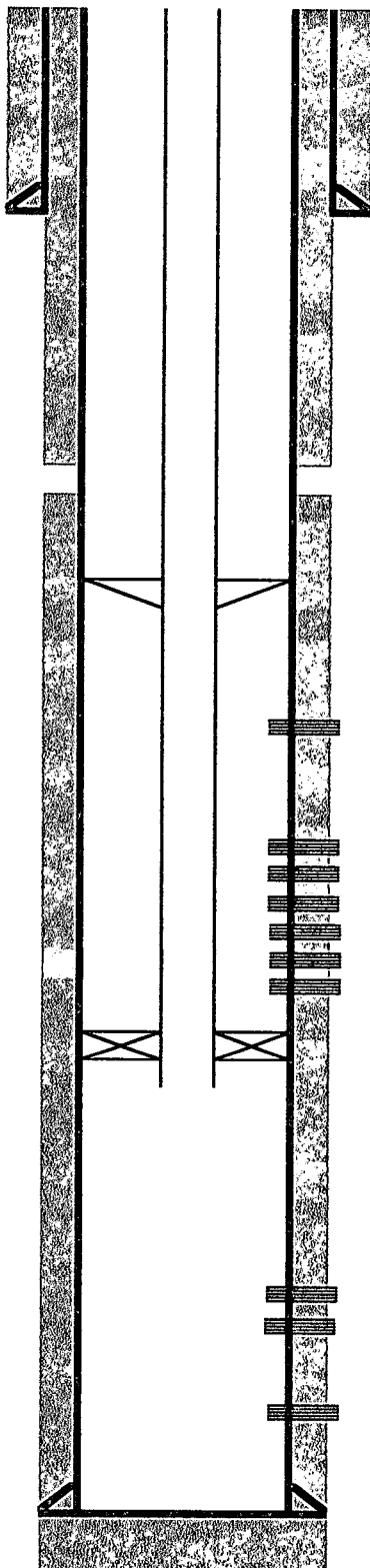
TOC @ surf  
cmt w/ 450 sxs

8 5/8" csg @ 545'

TOC @ surf  
Stage 2 cmt w/ 850  
sxs  
DV Tool @ 3499'

stage 1 smt w/  
1700 sxs

5 1/2" csg @ 6300'



Spud Date: 3/15/1990  
TD Date: 3/25/1990  
Compl Date: 4/8/1990

TAC @ 5,617' (2010 record)

Brushy Canyon "AA"  
5726' - 5786' - 62 holes

Brushy Canyon "A"  
5890' - 5898'  
5904' - 5912'  
5920' - 5930'  
5934' - 5936'  
5957' - 5968'  
5972' - 5982' - 110 holes total

Pkr @ 6,107' (2009 record), may not exist

Range Resources provided Chevron a WBD  
showing the Brushy Canyon A, AA, and C  
perforations and stimulation. Can provide to  
NMOCD at their request

Brushy Canyon "C"  
6080' - 6087' - 14 holes  
6091' - 6093' - 4 holes

Brushy Canyon "D"  
6132' - 6150' &  
6168' - 6178' - 56 holes

PBTD = 6,254'  
TD = 6,300'

CASING DETAIL			
Depth	Size	Weight	Hole Size
545'	8 5/8"	24#	12 1/4"
6300'	5 1/2"	15.5#	7 7/8"

Tbg & Rod Details are  
Based on Workover  
report on Feb 2010, No  
other details found

TUBING DETAIL	
EOT Depth	Size
6,217'	2 7/8"

## ROD DETAIL

(87) 7/8" rods  
(163) 3/4" rods  
1.25" pump

Paraffin noted on several pull jobs. It caused  
some fishing operations with rods.

frac'd in '00

Note: No NMOCD Record, Based  
on previous Operator Range's  
record

frac'd in '00

Note: No NMOCD Record, Based  
on previous Operator Range's  
record

This wellbore diagram is based on  
most recent information regarding  
wellbore configuration &  
equipment that could be found in  
Midland Office well files &  
computer / online databases as of  
above update date.

acidized in '09

Note: No NMOCD Record, Based  
on previous Operator Vanguard's  
record

frac'd in '90

Note: This schematic is not to scale. For display purposes only.

**SOUTH CULEBRA BLUFF 23-5**  
**Loving East - 30-015-26294**  
**Eddy County, New Mexico**  
**D-23-23S-28E 540 FNL 611 FWL**  
Proposed WBD (Updated by H Lucas 10/9/19)

KB: 3008'  
GL: 2994'

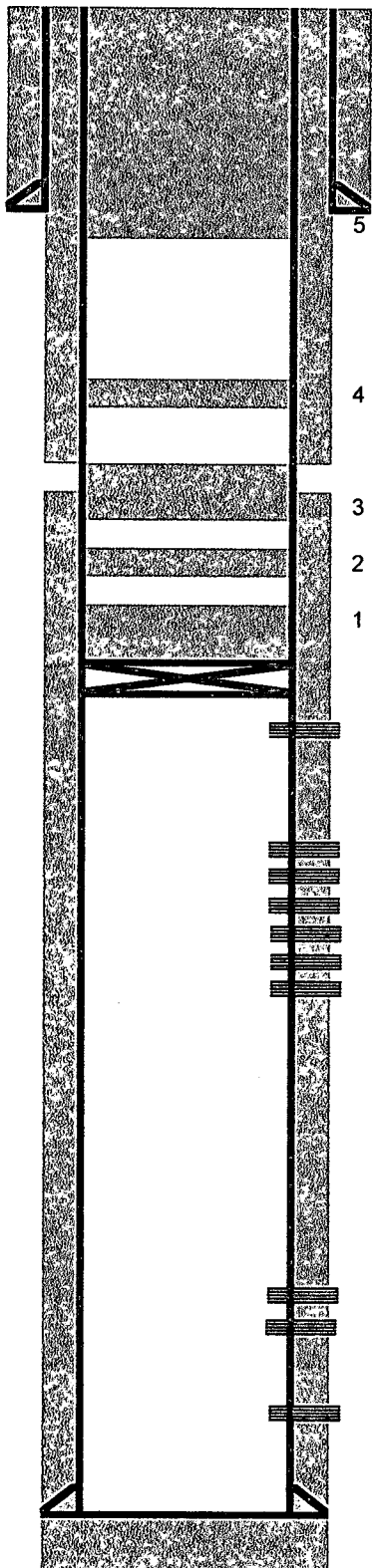
TOC @ surf  
cmt w/ 450 sxs

8 5/8" csg @ 545'

TOC @ surf  
Stage 2 cmt w/ 850  
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stage 1 smt w/  
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5 1/2" csg @ 6300'



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CASING DETAIL			
Depth	Size	Weight	Hole Size
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Formation Name	Depth
	(MD)
T Salt	543
B Salt	2,367
Lamar LS	2,584
Bell Canyon	2,611
Cherry Canyon	3,405
Brushy Canyon	4,708
Bone Spring	6,180

5 Spot cement f/ 50'  
below the shoe t/  
surface

4 Spot cement across  
Bell Canyon, Lamar  
and B.Salt

3 Spot cement across DV tool and Cherry Canyon

2 Spot cement above Brushy Canyon

1 Pull rods and tubing, set CIBP at 5680', spot cement on top of CIBP

Brushy Canyon "AA"  
5726' - 5786' - 62 holes

Brushy Canyon "A"  
5890' - 5898'  
5904' - 5912'  
5920' - 5930'  
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## **CONDITIONS FOR PLUGGING AND ABANDONMENT**

### **OCD - Southern District**

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water will not be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) **Potash---** (In the R-111-P Area (Potash Mine Area), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### **DRY HOLE MARKER REQUIREMENTS**

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3. API Number 4. Unit Letter 5. Quarter  
 Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date  
 8. County (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)