

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 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. 30-015-35510
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Injector <input checked="" 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>K</u> : <u>2440</u> feet from the <u>South</u> line and <u>1500</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: 17
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,001.5' GL, 3,019' 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 ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPERATIONS ☐ P AND A ☐  
CASING/CEMENT JOB ☐

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" @ 345' TOC Surface, 5-1/2" @ 6,341' TOC unknown, Perforations: 6,088'-6,203', squeeze perfs at 5,840' and 4,139' (see details on WBD).

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

\*\*\* SEE ATTACHED COA'S - Revised

1. Call and notify NMOCD 24 hrs before operations begin.
  2. MIRU slickline unit.
  3. Run gauge ring t/ locate 1.43 F Nipple at 6,012'. Run tubing plug and set in profile.
  4. Pressure test casing and tubing t/ 1,000 psi f/ 15 minutes each.
  5. MIRU pulling unit, check well pressures, perform bubble test on surface casing annulus, 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.
  6. Unlatch from on-off tool and spot MLF as per the guidance document, if tubing passed pressure test.
    - a. Discuss with engineer on standing back tubing if it failed a pressure test.
  7. Spot 30 sx CL "C" cmt f/ 6,012' t/ 5,716', discuss w/ NMOCD on waiving WOC and tag if casing passed a pressure test (Perfs, lower squeeze holes). *WOC + Tag*
  8. Spot 80 sx CL "C" cmt f/ 4,804' t/ 4,014' (Brushy Canyon, upper squeeze holes).
  9. Spot 25 sx CL "C" cmt f/ 3,517' t/ 3,270' (Cherry Canyon).
  10. Perforate at 2,700' and squeeze 130 sx CL "C" cmt f/ 2,140' t/ 2,700', WOC & tag (Bell Canyon, Lamar LS, and B.Salt).
  11. Perforate at 550' and squeeze 140 sx CL "C" cmt f/ Surface t/ 550' (Shoe, FW, T.Salt). *Perf @ 395' (Shoe)*
  12. 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 [Signature] TITLE P&A Engineer, Attorney in fact DATE 10/21/19

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

**For State Use Only**

APPROVED BY: [Signature] TITLE Staff Mgr. DATE 11/21/19  
Conditions of Approval (if any):

**SOUTH CULEBRA BLUFF 23-17**  
**Loving East - 30-015-35510**  
**Eddy County, New Mexico**  
**K-23-23S-28E 2440 FSL 1500 FWL**

Current Status: Inactive Inj; Updated by Y.LI on 8/7/2019

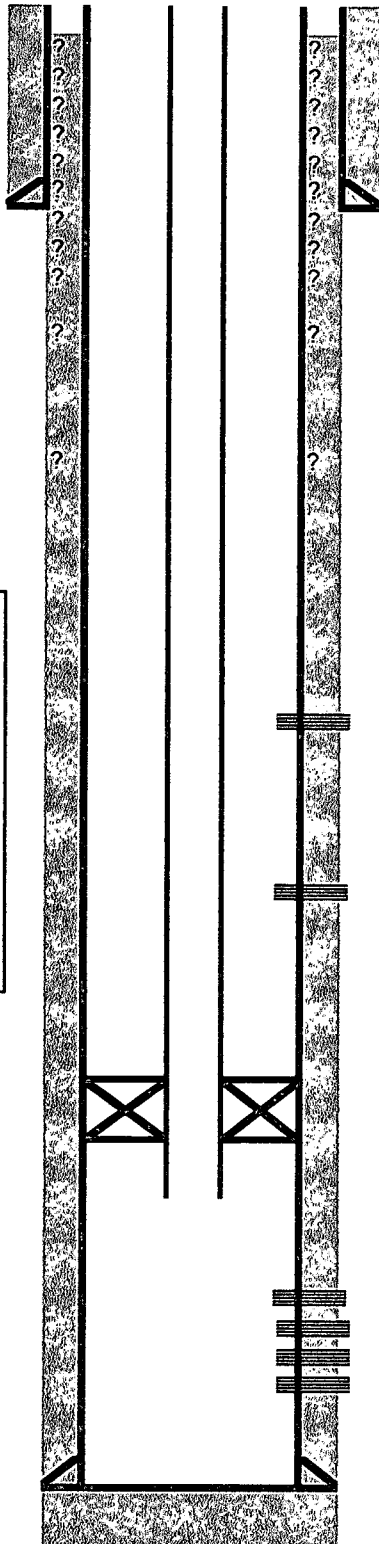
KB: 3,019'  
 GL: 3,001.5'

TOC @ surf  
 cmt w/ 350 sxs  
 Class "C" & 2%  
 CaCl. Tagged  
 TOC @ 30'  
 Cemented to surf  
 w/ 50 sxs cmt  
 8 5/8" csg @ 345'  
 24#

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.

cmt w/ 450 sxs

5 1/2" csg @ 6341'  
 15.5#



Spud Date: 8/1/2007  
 TD Date: 8/9/2007  
 Compl Date: 8/24/2007

CASING DETAIL				
Depth	Size	Weight	Grade	Hole Size
345'	8 5/8"	24#	J-55	12 1/4"
6341'	5 1/2"	15.5#	J-55	7 7/8"

Tbg Detail :		
	Length (ft)	Depth (ft)
KB	17.5	
2-3/8" SS x 2-7/8" SS		
X-O	0.35	17.5
195 Jts. Fiber Lined Tbg, 2-3/8", 4.7#, J- 55, 8R, EUE tbg, 1.73 I.D.	5993.36	17.85
Fiber Line Adapter	0.7	6011.21
On-Off Tool w/1.43"		
ID 'F' Profile Nipple	1.48	6011.91
2-3/8" x 5-1/2" Arrow s	7.25	6013.39
2 3/8 WL Entry Guide	0.4	6020.64
EOT		6021.04

Note: Tbg details come from Range Record

**Perfs**

SQZD @4139' w/ 450 sxs cmt and 100 sxs tail  
 Second squeeze job in an attempt to bring cement to surface in the annulus,  
 full returns throughout job, did not see cement to surface

**Perfs**

SQZD @ 5840' w/ 200 sxs lead and 100 sxs tail,  
 Full returns, CBL showed TOC at 4154' after job  
 This was the first attempt to bring cement to surface in the annulus

Pkr @ 6,017'

**Brushy Canyon "C" & "D"**

6088' - 6132' - 4spf  
 6150' - 6165' - 4spf  
 6181' - 6188' - 4 spf  
 6192' - 6203' - 4 spf

PBTD = 6,255'  
 TD: 6,350'

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Formation Name	Depth
	(MD)
T Salt	500 (est)
B Salt	2396 (est)
Lamar LS	2610 (est)
Bell Canyon	2650 (est)
Cherry Canyon	3467 (est)
Brushy Canyon	4754 (est)
Bone Spring	6210 (est)

5 P&S across the shoe  
 t/ surface

4 P&S across the Bell Canyon, Lamar LS, and B.Salt

3 Spot cement across the Cherry Canyon

2 Spot cement across the Brushy Canyon t/ above the upper squeeze holes

1 Set tubing plug in 1.43 nipple, pressure test tbg and casing  
 unlatch from on-off tool, pump cement above lower squeeze holes

Brushy Canyon "C" & "D"  
 6088' - 6132' - 4spf  
 6150' - 6165' - 4spf  
 6181' - 6188' - 4 spf  
 6192' - 6203' - 4 spf

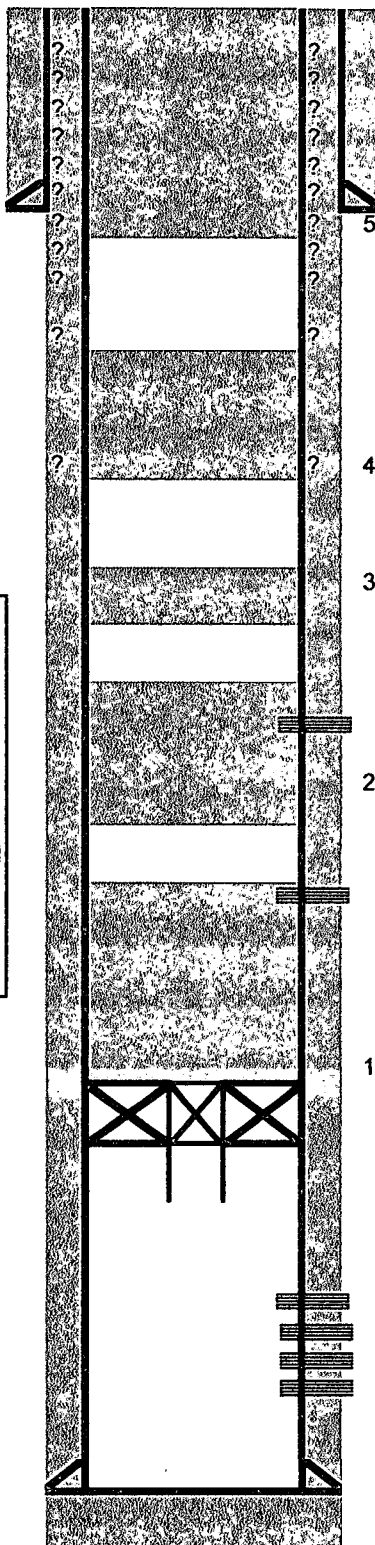
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*Note: This schematic is not to scale. For display purposes only.*

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cmt w/ 450 sxs

5 1/2" csg @ 6341'



## **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 1/4" 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)