

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

Rec'd 05/07/2020 - NMOCD

Form C-103  
 Revised August 1, 2011

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. 30-015-23819
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 Midcontinent L.P.		6. State Oil & Gas Lease No.
3. Address of Operator 6301 DEAUVILLE BLVD., MIDLAND, TX 79706		7. Lease Name or Unit Agreement Name Pardue Farms 27
4. Well Location Unit Letter <u>P</u> : <u>660</u> feet from the <u>South</u> line and <u>660</u> feet from the <u>East</u> line Section <u>27</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number: 4
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,035' GL, 3,047' KB		9. OGRID Number 4323
		10. Pool name or Wildcat E. Loving Delaware (Brushy Canyon)

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"/>		<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"/>		OTHER: <input type="checkbox"/>	

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" @ 498' TOC Surface, 4-1/2" @ 7,300' TOC Surface, Perforations: 6,070'-7,121'.**

Chevron respectfully request to abandon this well as follows:

Cement calculations utilize 1.32 yld for Class C and 1.18 yld for Class H. If using a different yield please re-calculate as necessary.

1. Notify NMOCD 24 hrs. prior to starting work.
2. MIRU pulling unit.
3. Kill well as necessary. Check pressures on all strings and bubble test. If sustained casing pressure is noted, Chevron intends to utilize another means of eliminating the pressure (Zonite, Nano-Seal, Cut and pull casing, etc) as agreed upon by the NMOCD.
4. Pressure test tubing t/ 1,000 psi f/ 15 minutes or maximum anticipated pressure for the job.
  - a. Verify stuffing box integrity and rating prior to pressure testing.
5. Lay down rods and pump.
6. R/U wireline, pressure test lubricator to 500 psi for 10 minutes.
7. TIH and cut tubing above TAC at 6,010'.
8. Pump 50 bbl (30 ppb) Jet Seal pill down tubing, displace to TAC. Contact engineer if the well is not on a vacuum/standing full prior to pumping LCM.
9. N/U BOP and pressure test as per SOP's.
10. Verify tubing is free.
11. Spot 40 sx CL "C" cement f/ 6,010' t/ 5,405', WOC & tag. (Perfs, Bone Spring, DV Tool).
  - a. TOC must be at 5,464' or shallower.
12. Pressure test casing t/ 1,000 psi f/ 15 minutes or maximum anticipated pressure for the job.
13. Spot MLF between cement plugs in accordance w/ NMOCD regulations. Wait to spot MLF if casing pressure test failed due to potentially wasting fluid.

14. Spot 25 sx CL "C" Cement f/ 4,705' t/ 4,327' (Brushy Canyon).
  - a. TOC must be at 4,605' or shallower.
15. Spot 25 sx CL "C" Cement f/ 3,519' t/ 3,141' (Cherry Canyon).
  - a. TOC must be at 3,369' or shallower.
16. Spot 25 sx CL "C" Cement f/ 2,680' t/ 2,302' (DV Tool, Bell Canyon, B.Salt, Lamar).
  - a. TOC must be at 2,350' or shallower.
17. Spot 50 sx CL "C" Cement f/ 675' t/ Surface (T.Salt, Shoe, FW).
  - a. Deepest freshwater in the area is ~84'.
18. Cut off wellhead 3' below grade, Verify Cement to Surface, install required dry hole marker as per COA's, turn over to reclamation.

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 *HL* TITLE P&A Engineer, Attorney in fact DATE 04/02/2020

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

**For State Use Only**

APPROVED BY: *Gilbert Cordero* TITLE *Staff MGR* DATE 5/15/2020  
Conditions of Approval (if any):

\*\*\*\*SEE ATTACHED COA's\*\*\*\*

MUST BE PLUGGED BY 5/15/2021

**Pardue Farms 27-4  
Current Wellbore Diagram**

Created: 09/08/19 By: Y. Li, R. DeBruin  
 Updated: By:  
 Lease: Pardue Farms 27  
 Field: Culebra Bluff South (BC) & Loving East (BS)  
 Surf. Loc.: 660' FSL & 660' FEL  
 Bot. Loc.:  
 County: Eddy St.: NM  
 Status: Shut-in Oil Well

Well #: 4 Fd./St. #: Private  
 API: 30-015-23819  
 Surface Tshp/Rng: 23-S & 28-E  
 Unit Ltr.: P Section: 27  
 Bottom Hole: Tshp/Rng:  
 Unit Ltr.: Section:

**Surface Casing**

Size: 8 5/8"  
 Wt., Grd.: K55\* 24# ST&C  
 Depth: 498'  
 Sxs Cmt: 335  
 Circulate: 115 sxs to pit  
 TOC: Surface  
 Hole Size: 12 1/4"

KB: 12'  
 DF:  
 GL: 3,035'  
 Ini. Spud: 06/11/81  
 Ini. Comp.: 09/25/81

**Production Casing**

Size: 4 1/2"  
 J-55\* 10.5#  
 Wt., Grd.: & 11.6#  
 Depth: 7,300'  
 Sxs Cmt: 3,200  
 Circulate: Yes  
 TOC: Surface  
 Hole Size: 7 7/8"  
 DV Tool: 2,510' & 5,514'

**DV Tool @ 5,514'**

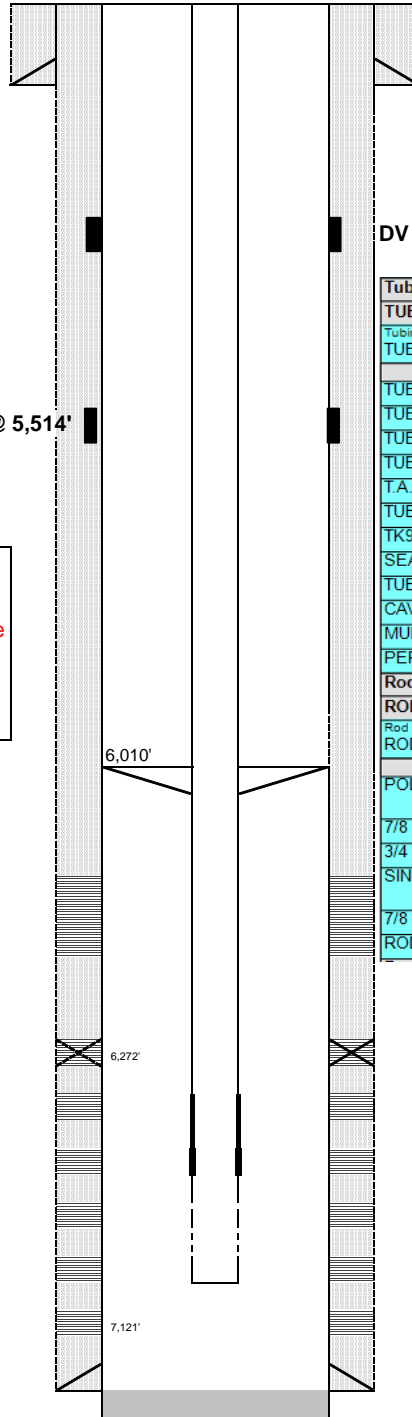
Wellbore diagram is based on most recent information regarding wellbore configuration & equipment that could be found in Midland Office well files & computer / online databases as of above update date.

**Perfs: Brushy Canyon**

8 shots: 6,070', 81', 91', 6,156', 76', 86', 6,244', & 48'.

**Perfs: Bone Springs**

62 shots: 6,272', 83', 92', (squeezed) 6,328', 40', 50', 60', 70', 6,400', 10', 22', 26', 36', 63', 67', 71', 80', 88', 6,510', 18', 24', 41', 44', 64', 82', 86', 90', 6,603', 12', 26', 36', 39', 69', 75', 84', 89', 6,710', 16', 78', 84', 93', 6,900', 07', 13', 18', 24', 30', 42', 54', 58', 62', 65', 84', 89', 97', 7,012', 18', 7,102', 18', 7,110', 16', & 21'.



PBTD: 7,150'  
 TD: 7,300'

**DV Tool @ 2,510'**

**Tubing Strings**

TUBING set at 7,057.2ftKB on 7/7/2011 15:00

Tubing Description		Run Date		String Length (ft)		Set Depth (MD) (ftKB)	
TUBING		7/7/2011		7,045.18		7,057.2	
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)	
TUBING SUB	2	2 3/8	6.50	J55	20.20	32.2	
TUBING	176	2 3/8	6.50	J55	5,649.45	5,681.7	
TUBINGSUB	1	2 3/8	6.50	J55	4.10	5,685.8	
TUBING	10	2 3/8	6.50	J55	324.86	6,010.6	
T.A.C	1	4 1/2			2.70	6,013.3	
TUBING	30	2 3/8	6.50	J55	954.52	6,967.8	
TK99 TUBING	1	2 3/8	6.50	J55	32.70	7,000.5	
SEAT NIPPLE	1	2 3/8			1.10	7,001.6	
TUBING SUB	1	2 3/8	6.50	J55	6.10	7,007.7	
CAVINS DESANDER	1	2 3/8			19.25	7,027.0	
MUD JOINT	1	2 3/8	6.50	J55	29.40	7,056.4	
PERG VALVE	1	2 3/8			0.80	7,057.2	

**Rod Strings**

RODS on 7/8/2011 15:00

Rod Description		Run Date		String Length (ft)		Set Depth (ft)(B)	
RODS		7/8/2011		7,004.00		7,001.6	
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ft)(B)	
POLISH ROD	1	1 1/2		1.50 "K"	26.00	23.6	
7/8 RODS	96	7/8	2.22	7/8-D	2,400.00	2,423.6	
3/4 RODS	174	3/4	1.63	3/4-D	4,350.00	6,773.6	
SINKER BARS	8	1 1/2	6.01	1.50 "C"	200.00	6,973.6	
7/8 GUIDED ROD SUB	1	7/8	2.22	7/8-D	4.00	6,977.6	
ROD PUMP	1	1 1/4			24.00	7,001.6	

**History**

9/25/81 Ini Comp: Perf Bone Spring w/ 3 1/8" casing gun w/ 1 SPF for 62 @ 6,272' - 7,121' total 62 shots, acidized 5,400 gls, frac 2 stages

3/7/89 Recom: CIBP 6,316', perf Brushy Canyon 6,070' - 6,248' total 8 holes, frac 22,500 gls w/ 47k # 20/40 sand. Drill out cmt retainer & CIBP, clean out hole to 7,150'.

**Pardue Farms 27-4  
Proposed P&A Wellbore Diagram**

Created: 09/08/19 By: Y. Li, R. DeBruin  
 Updated: By:  
 Lease: Pardue Farms 27  
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DV Tool @ 5,514'

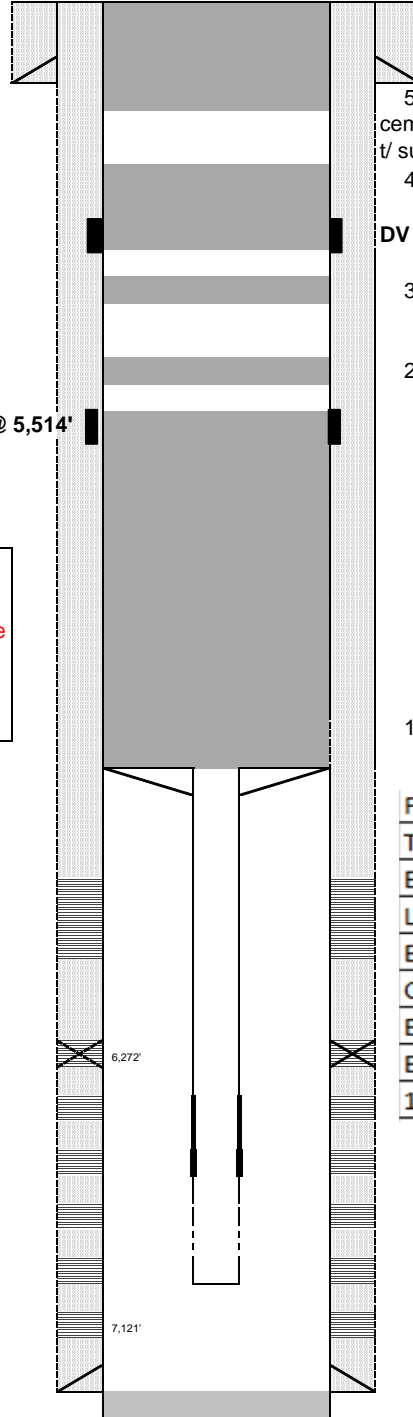
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5 Spot cement f/ T.Salt Ini. Spud: 06/11/81  
 cement f/ surface Ini. Comp.: 09/25/81

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

**DV Tool @ 2,510'**

3 Spot cement across Cherry Canyon

2 Spot cement across Brushy Canyon

1 Cut above TAC at 6,010', spot Jet Seal, spot cement above perfs, DV Tool, WOC & tag

Formation Top	Depth (MD)
T Salt	625 (est.)
B Salt	2400 (est.)
Lamar LS	2596 (est.)
Bell Canyon	2630 (est.)
Cherry Canyon	3469
Brushy Canyon	4655
Bone Spring	6293
1st Bone Spring	7188

**History**

9/25/81 Ini Comp: Perf Bone Spring w/ 3 1/8" casing gun w/ 1 SPF for 62 @ 6,272' - 7,121' total 62 shots, acidized 5,400 gls, frac 2 stages

3/7/89 Recom: CIBP 6,316', perf Brushy Canyon 6,070' - 6,248' total 8 holes, frac 22,500 gls w/ 47k # 20/40 sand. Drill out cmt retainer & CIBP, clean out hole to 7,150'.

PBTD: 7,150'  
 TD: 7,300'

## **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. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
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)

#### **SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION**