

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 11/30/2020 - NMOCD

Form C-103  
 Revised July 18, 2013

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

WELL API NO. <b>30-015-33084</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name <b>Loving 1 State</b>
8. Well Number #4
9. OGRID Number <b>229137</b>
10. Pool name or Wildcat <b>Black River Morrow</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <b>3102' GR</b>

**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.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
**COG Operating, LLC**

3. Address of Operator  
**2208 W. Main Street Artesia, NM 88210**

4. Well Location  
 Unit Letter **J** : **1980** feet from the **S** line and **1980** feet from the **E** line  
 Section **1** Township **24S** Range **27E** NMPM County **Eddy**

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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

Notify OCD 24 hrs. prior to any work done

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.

- Set CIBP @ 11300'. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 11300-11200'. **WOC & Tag**
- Perf & sqz 30 ix cmt @ 10600-10495'. WOC & TAG (7" Shoe) **2a - Perf & sqz 30 sx cmt at 9550' - 9450' WOC & tag - T WC**
- Perf & sqz 30 ix cmt @ ~~5800-5700'~~ **3800'-3700' WOC & tag** **2b - Perf and sqz 30 cmt at 6050' - 5950' WOC & tag - T BS**
- Perf & sqz 30 ix cmt @ 2360-2260'. WOC & TAG (9 5/8" Shoe)
- Perf & sqz 30 ix cmt @ ~~725-625'~~ **Perf @ 625'** WOC & TAG (13 3/8" Shoe)
- Perf & sqz 30 sx @ 200' to surface.
- Cut off well head, verify cmt to surface, Weld on Dry Hole Marker.

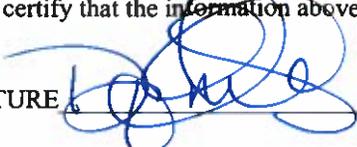
\*\*\*\*SEE ATTACHED COA's\*\*\*\*

MUST BE PLUGGED BY 12/8/2021

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  TITLE: Regulatory Technician

DATE: 11/30/2020

Type or print name: Delilah Flores

E-mail address: [dflores2@concho.com](mailto:dflores2@concho.com)

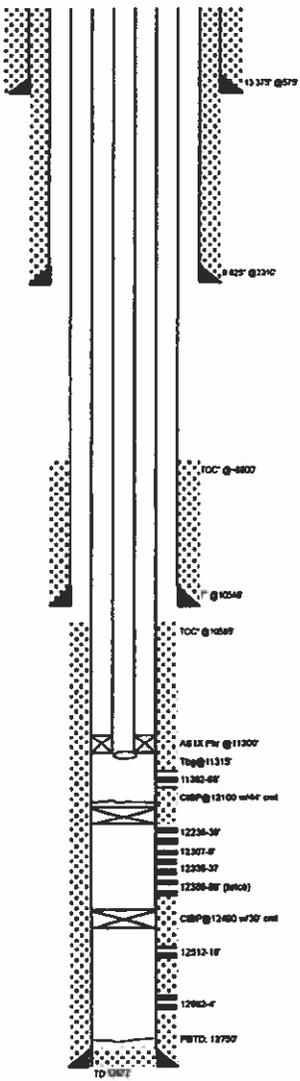
PHONE: 575-748-6946

**For State Use Only**

APPROVED BY:  TITLE: Staff Manager

DATE: 12/8/2020

Conditions of Approval (if any):



**WELL NAME:** Loving 1 State #4  
**STATE:** NM  
**APN NO:** 30-018-33004  
**TD:** 12672

**FIELD:** Loving BE  
**COUNTY:** Eddy  
**SPUD DATE:** 6/26/04  
**PRTD:** 12088

**LBR:** 025782  
**LOCATION:** 1987 FSL & 1987 FEL Sec. 1-248-2TE  
**FORMATION:** Alamo  
**ELEVATION:** 3107' OL

PIPE RECORD								CEMENT & HOLE DATA				
CBO	OD	GRADE	THD	WT/FT	TOP	BTB	# JTS	BT 6425	DEPTH	SL	WT.	TOC
Surf	13.378"	H40	LTAC	46.008	0'	579'	14	17.500"		520		Surf
Iron	9.828"	J05	LTC	36.008	0'	2310'	53	13.250"		1108		Surf
Iron	7.000"	HCP-110	LTAC	23.008	0'	10848'	251	6.750"		370		-8800
Prod	4.500"	P110	LTAC	15.808	0'	12870'	321	6 1/8"		280		10585
Thg	2.378"	N80	2nd EUE	4.708	0'	11315'	357					

**Remarks:**  
 8/7/04: Frac Morrow parts (12912-12884) w/22000 lbs. 211 tons CO<sub>2</sub>  
 Screened out. Lot 8000F sand in csg. Cleaned out w/hoist by  
 8/18/04: Started flowing upper zone (12512-10') out csg in sales  
 10/20/04: Closed shutoff valve  
 12/20/04: Frac Morrow parts (12236-12208) w/80000 30/40 Vesprep, 340 tons CO<sub>2</sub>  
 7/26/05: CSDP @ 12100 w/4' sand  
 8/25/05: Frac Alamo (11367-11361) w/48,522F UDs Prep, 223 tons CO<sub>2</sub>, and 63M lbs fluid  
 Burnt out w/2 ppg Ultra Prep on formation @ 98779. No flush prod'd.  
 8/26/05: First Sale (Alamo)

CAPACITIES		
(bbl)	(m <sup>3</sup> )	(cbl)
TDG: 2.375 in. 4.78	.0387	258.88
CBO: 4.5 in. 11.68	.01550	84.34
08720		

VOLUME BETWEEN		
(bbl)	(m <sup>3</sup> )	(cbl)
TRAILERS	2.375-4.5	.01420
TRAILERS		76.48
TRAILERS		87979

PERFORMANCE RECORD					
DATE	TOP	BTB	ZONE	STATUS	SPV
8/1/04	12882	12884	Morrow	Abandoned	2
8/1/04	12812	12510	Morrow	Abandoned	4
1/23/04	12388	12388	Morrow	Abandoned	4
1/23/04	12308	12307	Morrow	Abandoned	4
1/20/04	12307	12307	Morrow	Abandoned	4
12/20/04	12238	12238	Morrow	Abandoned	4
6/2/05	11362	11361	Alamo	Active	4

Tubing Detail as of 12/26/05:  
 287 lbs 2.375" x 4.78" @ 11,315'  
 Seal Nipples @ 11315'

**SRC WPS:**  
**LOGS:** GPC/BL/CL/11/04  
**LANDMAN:** P. Karr  
**GEOLOGIST:** Ralph Worthington

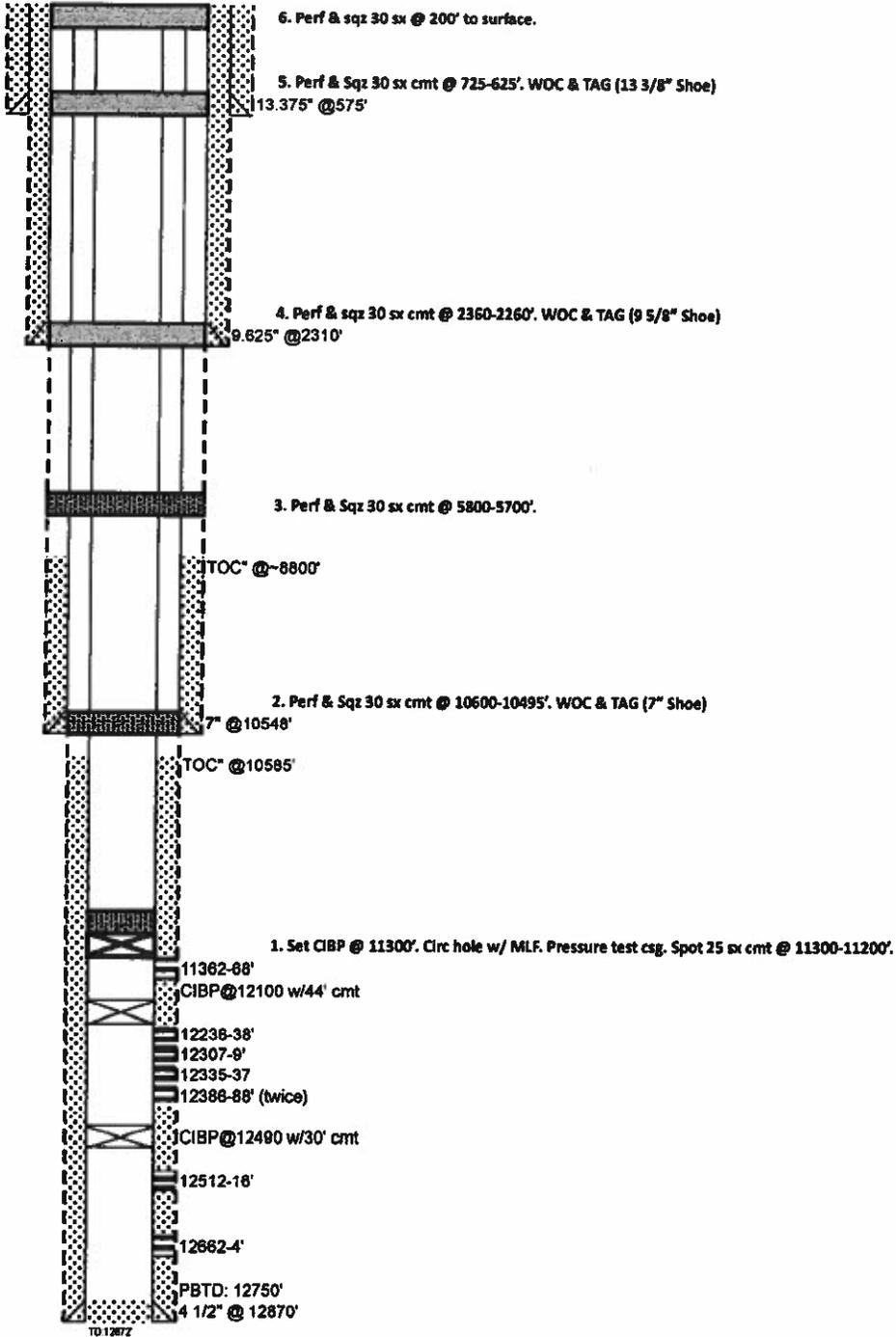
Material	TUBULAR		GOODS PERFORMANCE		
	ID (in)	OD (in)	Collaps <sup>1</sup> (psi)	Stret <sup>2</sup> (psi)	Tensile <sup>3</sup> (lbs)
13.378" H40 LTAC 488	12.718	12.988	770	1,720	322,000
9.828" J05 LTC 388	8.821	8.788	2,000	5,820	453,000
7" HCP-110 LTAC 338	6.388	6.241	5,880	7,830	812,000
4.8" P110 LTAC 11.88	4.000	3.875	7,980	10,880	278,000
2.375" N80 2nd EUE 4.78	1.880	1.801	11,780	11,200	104,200

<sup>1</sup> Safety Factor Not Included

**PREPARED BY:** LaAnna Henkins  
**DATE:** 2/20/05  
**Updated:** 4/3/08  
**R. B. W.**

**OFFICE:** (918) 563-1701  
**FAX:** (918) 561-1702

WELL NAME:	Loving 1 State #4	FIELD:	Loving SE	LSE#:	025702
STATE:	NM	COUNTY:	Eddy	LOCATION:	1980' FBL & 1980' FEL Sec. 1-24&27E
API NO:	30-015-33084	SPUD DATE:	8/24/00	FORMATION:	Altoña
TD:	12672'	PBTD:	12058'	ELEVATION:	3102' GL



## 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**