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 July 18, 2013

WELL API NO.
30-039-22118

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
Canada Mesa (NMSF079086)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number 1E

2. Name of Operator
Merrion Oil & Gas Corporation

9. OGRID Number
14634

3. Address of Operator
610 Reilly Ave, Farmington, NM 87401

10. Pool name or Wildcat
Devils Fork Gallup/DK

4. Well Location
Unit Letter__C_:__1060___feet from the __North_____ line and ___1840_____feet from the _West_____line
Section 24 Township 24N Range 6W NMPM County Rio Arriba

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6483 GL

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

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.

Please see the attached proposed PA procedure.

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____*Philana Thompson*_____ TITLE_HSE & Regulatory Compliance_____DATE___11/30/2022_____

Type or print name __Philana Thompson_____ E-mail address: __pthompson@merrion.bz____ PHONE: __505-486-1171_____

For State Use Only

APPROVED BY:_____TITLE_____DATE_____
Conditions of Approval (if any):

MERRION OIL & GAS

WORKOVER PROCEDURE

Well Information			
Well:	**Canada Mesa 1E**	**Field:**	Basin DK/Devils Fork GL
Location:	1060' fnl &1840' fwl Sec 24, T24N, R6W Rio Arriba Co, New Mexico	**Elevations:**	6,483' GL; 6,493' RKB
		Depths:	TOC Plug – 3,637' KB RBP – 5,279' KB PBTD – 6,664' KB TD – 6,700' KB
API:	30-039-22118	**Date:**	11/01/2022
Tubulars:	4 ½" 10.5ppf J55 to 6698' KB 2 ⅜" 4.7ppf J55 to 3625' KB	**Engineer:**	Shacie Murray (505-330-7605)
Perforations:	Gallup – 5,344' – 5,530' gross interval, 20 select fire shots Dakota – 6,474' – 6,529' gross interval, 20 select fire shots		
Csg Hole:	2,884' - 2,950' KB – squeeze attempt failed 3898' KB – squeezed w/ 20 sxs TOC at 3591' KB		

Version 1 - Subject to change based on varying well conditions

Project Scope

Plug and abandon well.

Plugging Procedure

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 G, mixed at 15.8 ppg with a 1.15 cf/sx yield.

1. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary. ND WH, NU BOP.
2. RU wireline and run CBL. Adjust following plugs as necessary.
3. **Plug #1** (Dakota and Greenhorn Top, 6224' – 6424'): PU 4.5" CICR, TIH to set at 6424'. Pressure test tubing to 1000#. Mix 20 sxs Class G cement, spot on top of CICR to isolate the Dakota and Greenhorn formations. TOOH.
4. **Plug #2** (Gallup Top, 5194' – 5294'): PU 4.5" CICR, TIH to set at 5294'. Mix 12 sxs of Class G cement, spot on top of CICR to isolate the Gallup formation. Load casing with water and circulate well clean. Pressure test casing to 800#. *Spot or tag subsequent plugs as appropriate according to CBL and pressure test results.* TOOH, LD setting tool.
5. **Plug #3** (Point Lookout Top, 4220' – 4320'): TIH w/ tbg to 4320'. Mix 12 sxs Class G cement, spot balanced plug to isolate the Point Lookout formation. PUH.
6. **Plug #4** (Cliff House Top, 3520' – 3620'): Mix 12 sxs Class G cement, spot balanced plug to isolated the Cliff House formation.
7. **Plug #5** (Picture Cliffs Top, 2035' – 2135'): Mix 12 sxs Class G cement, spot balanced plug to isolate the Picture Cliffs formation. PUH.
8. **Plug #6** (Kirtland Top, 1640' – 1740'): Mix 12 sxs Class G cement, spot balanced plug to isolate the Kirtland formation. TOOH.

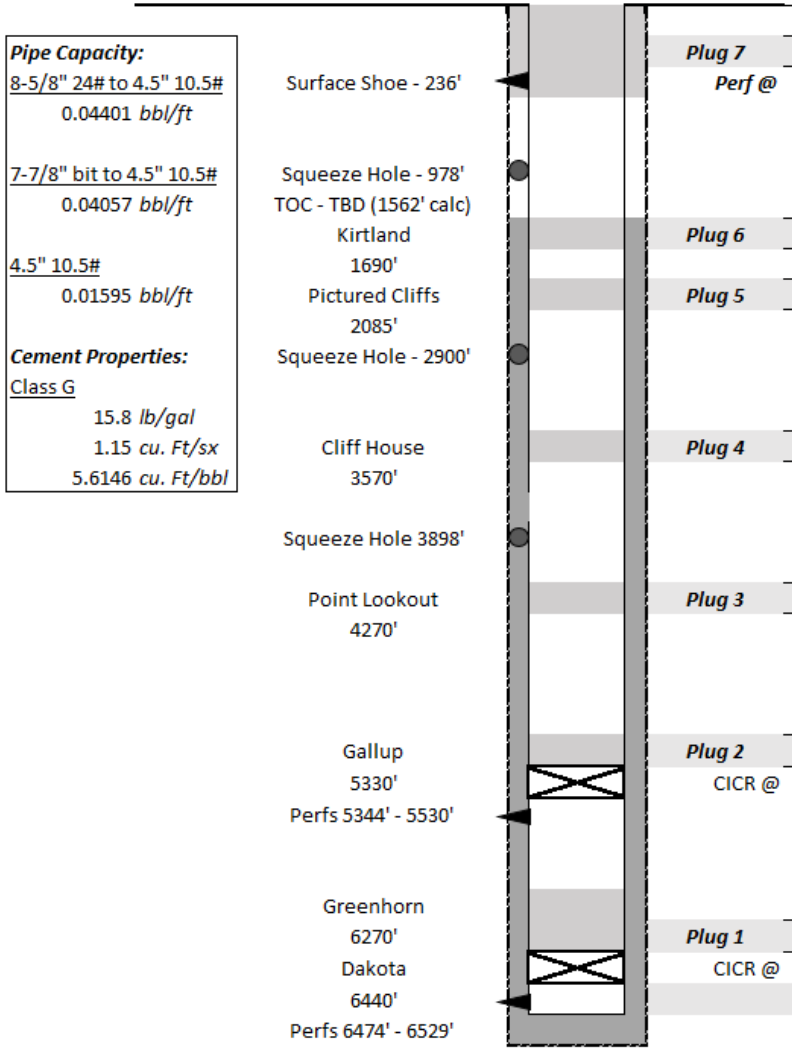
9. **Plug #7** (Surface Csg Shoe and surface, 0' – 286'): RIH w/ wireline and perf at 286'. POOH, TIH w/ tubing to 286' and establish circulation. Mix approximately 150 sxs Class G cement, circulate around good cement, approximately 61.5 sxs outside (100% excess is additional 61.5 sxs) and 22 sxs inside (additional 50' excess is 5 sxs) to isolate the surface csg shoe and surface. SI well and WOC.
10. ND BOP and cut off wellhead below surface casing flange. 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.
11. RD, MOL and cut off anchors. Restore location per BLM stipulations

MERRION OIL & GAS

WORKOVER PROCEDURE

Plugged Wellbore:

Canada Mesa 1E



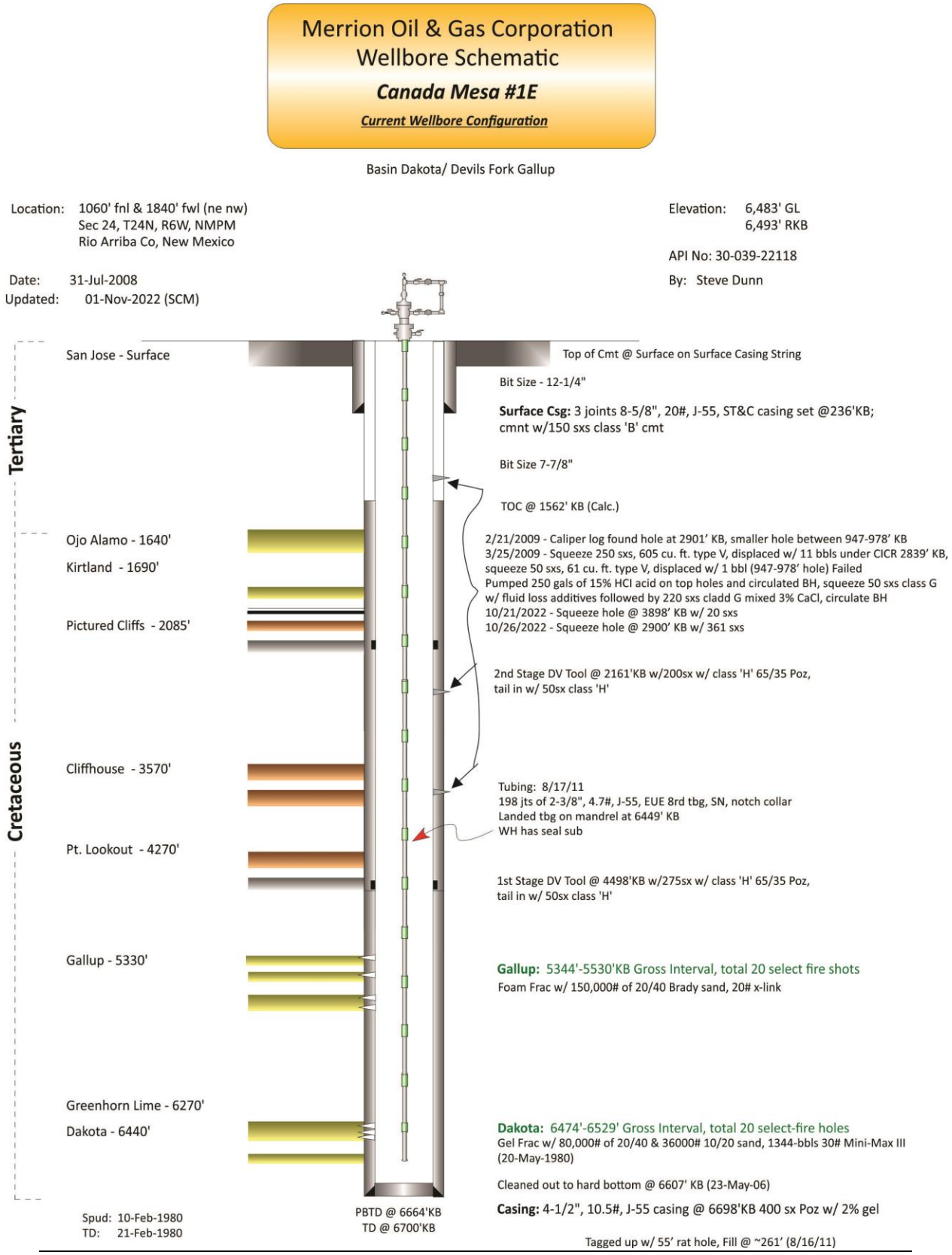
Plug Details

	Bottom	Top	Length	Inside cu. Ft	Outside cu. Ft	Inside (50' ex)	Outside (100% ex)	Total sxs
Plug 7	286	0	286	26	70.7	**27**	**123**	**150**
Perf @	286							
Plug 6	1740	1640	100	9		**12**		**12**
Plug 5	2135	2035	100	9		**12**		**12**
Plug 4	3620	3520	100	9		**12**		**12**
Plug 3	4320	4220	100	9		**12**		**12**
Plug 2	5294	5194	100	9		**12**		**12**
CICR @	5294							
Plug 1	6424	6224	200	18		**20**		**20**
CICR @	6424							
							Total:	**218**

MERRION OIL & GAS

WORKOVER PROCEDURE

Current Wellbore Diagram:



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2704487

Attachment to notice of Intention to Abandon

Well: Canada Mesa 1E

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. The following modifications to your plugging program are to be made:
   a. Add a plug to cover to cover the Mancos formation top at 4430'.
   b. A Point Lookout plug is not required.
   c. Add a plug to cover the Chacra formation top at 2530'.
   d. Add a plug to cover the Fruitland formation top at 1908'.
   e. Add a plug, or extend the Kirtland plug (proposed Plug #6), to cover the Ojo Alamo formation top at 1535'.
   f. Add a plug to cover the Nacimiento formation top at 860' (likely an inside/ outside plug base on calculated TOC).

Note: A reclamation onsite needs to be completed with BLM Surface staff to determine proper final reclamation steps and a reclamation plan should be submitted after.

3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 11/30/2022

BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 11/30/2022

Well No. Canada Mesa #001E (API# 30-039-22118)		Location	1060 FNL	&	1840 FWL	
Lease No. NMSF079086		Sec. 24	T24N		R06W	
Operator Merrion Oil & Gas Corporation		County	Rio Arriba	State	New Mexico	
Total Depth 6700’	PBTD 6664’	Formation	Dakota/Gallup			
Elevation (GL)		Elevation (KB)	6493’			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose			Surface	860	Surface/possible freshwater sands
Nacimiento			860	1535	Possible freshwater sands
Ojo Alamo Ss			1535	1690	Aquifer (possible freshwater)
Kirtland Shale			1690	1908	Possible gas
Fruitland			1908	2085	Coal/Gas/Water
Pictured Cliffs Ss			2085	2139	Probable Gas
Lewis Shale			2139	2530	
Chacra			2530	3570	Possible Gas
Cliff House Ss			3570	3658	Water/possible gas
Menefee			3658	4270	Coal/Ss/Water/possible gas
Point Lookout Ss			4270	4430	
Mancos Shale			4430	5330	Probable O&G
Gallup			5330	6270	O&G
Greenhorn			6270	6328	
Graneros Shale			6328	6440	Probable O&G
Dakota Ss			6440	PBTD	O&G/water
Morrison					

Remarks:
P & A

- Add a plug to cover the Mancos formation top at 4430’.
- A Point Lookout plug is not required.
- Add a plug to cover the Chacra formation top at 2530’.
- Add a plug to cover the Fruitland formation top at 1908’.
- Add a plug, or extend the Kirtland plug (proposed Plug #6), to cover the Ojo Alamo formation top at 1535’.
- Add a plug to cover the Nacimiento formation top at 860’ (likely an inside/outside plug based on calculated TOC).
- Gallup perfs 5344’ – 5530’.
- Dakota perfs 6474’ – 6529’.

Reference Well:
1) **Formation Tops**
Same

Prepared by: *Chris Wenman*

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

11/30/2022

Well Name: CANADA MESA

Well Location: T24N / R6W / SEC 24 / NENW / 36.302734 / -107.42218

County or Parish/State: RIO ARRIBA / NM

Well Number: 1E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF079086

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003922118

Well Status: Producing Gas Well

Operator: MERRION OIL & GAS CORPORATION

Notice of Intent

Sundry ID: 2704487

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 11/28/2022

Time Sundry Submitted: 11:29

Date proposed operation will begin: 12/01/2022

Procedure Description: Please see the attached proposed Plug & Abandon procedure

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

2022_11_01_Canada_Mesa_1E__Plugging_Procedure__20221128112751.pdf

Well Name: CANADA MESA

Well Location: T24N / R6W / SEC 24 / NENW / 36.302734 / -107.42218

County or Parish/State: RIO ARRIBA / NM

Well Number: 1E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF079086

Unit or CA Name:

Unit or CA Number:

US Well Number: 3003922118

Well Status: Producing Gas Well

Operator: MERRION OIL & GAS CORPORATION

Conditions of Approval

Additional

24N06W24CKd_Canada_Mesa_001E_20221130145508.pdf

Authorized

2704487_NOIA_1E_3003922118_KR_11302022_20221130151549.pdf

General_Requirement_PxA_20221130151536.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: PHILANA THOMPSON

Signed on: NOV 28, 2022 11:29 AM

Name: MERRION OIL & GAS CORPORATION

Title: Regulatory Analyst

Street Address: 610 REILLY AVENUE

City: FARMINGTON **State:** NM

Phone: (505) 324-5336

Email address: PTHOMPSON@MERRION.BZ

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 11/30/2022

Signature: Kenneth Rennick

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 158900

CONDITIONS

Operator: MERRION OIL & GAS CORP 610 Reilly Avenue Farmington, NM 87401	OGRID: 14634
	Action Number: 158900
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	12/9/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	12/9/2022
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	12/9/2022