

submitted in lieu of Form 3160-5

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**
Sundry Notices and Reports on Wells

<p>1. Type of Well Gas</p> <hr/> <p>2. Name of Operator (Max D. Webb) <i>ENGINEERING & PRODUCTION SERVICE INC.</i></p> <hr/> <p>3. Address & Phone No. of Operator PO Box 190, Farmington, NM 87499</p> <hr/> <p>Location of Well, Footage, Sec., T, R, M 2090' FSL & 450' FEL, Section 8, T-23-N, R-7-W,</p>	<p>5. Lease Number NOO-C-14-20-5604</p> <p>6. If Indian, All. or Tribe Name Navajo</p> <p>7. Unit Agreement Name</p> <hr/> <p>8. Well Name & Number E Ton na Gah 8 #43</p> <p>9. API Well No. 30-039-22463</p> <p>10. Field and Pool Lybrook Gallup</p> <p>11. County & State Rio Arriba County, NM</p>
---	--

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action	
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	


13. Describe Proposed or Completed Operations

Max Webb proposes to plug and abandon this well per the attached procedure and diagram.

14. I hereby certify that the foregoing is true and correct.

Signed _____ Title _____ Date _____
Bobby Espinosa

(This space for Federal or State Office use)

APPROVED BY  Title AEM Date 7/19/2021
CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly 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.

NMOCD

PLUG AND ABANDONMENT PROCEDURE

September 2, 2020

E Ton na Gash 8 #43

Lybrook Gallup

2090' FSL and 450' FEL, Section 8, T23N, R7W
Rio Arriba County, New Mexico / API 30-039-22463

- 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 Type II, mixed at 15.6 ppg with a 1.18 cf/sx yield.
1. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
 2. **Plug #1 (Gallup perforations and top, 5358' – 5075')**: Round trip 4.5" gauge ring. RIH and set 4.5" CR at 5358'. Circulate well clean. Pressure test casing to 800#. If casing does not test then spot or tag subsequent plugs as appropriate. Spot 26 sxs Type II cement inside casing from 5358' to 5075' to isolate the Gallup interval. PUH.
 3. **Plug #2 (Mancos top, 4610' – 4510')**: Mix and pump 12 sxs Type II cement and spot a balanced plug inside casing to cover the Mancos top. PUH.
 4. **Plug #3 (Mesaverde top, 3570' – 3470')**: Mix and pump 12 sxs Type II cement and spot a balanced plug inside casing to cover the Mesaverde top. TOH.
 5. **Plug #4 (Chacra top, 2480' – 2380')**: Perforate 3 squeeze holes at 2480'. Establish injection rate into squeeze holes if casing tested. Set 4.5 CR @ 2430'. Sting into CR and establish injection rate into squeeze holes. Mix and pump 51 sxs Class G cement, squeeze 39 sxs outside casing leaving 12 sxs inside casing to cover Chacra top. TOH.
 6. **Plug #5 (Pictured Cliffs and Fruitland intervals, 2070' – 1688')**: Perforate 3 squeeze holes at 2070'. Establish injection rate into squeeze holes if casing tested. Set 4.5" CR @ 2020' Sting into CR and establish injection rate into squeeze holes. Mix and pump 51 sxs Class G cement, squeeze 39 sxs outside casing leaving 12 sxs inside casing to cover Pictured Cliffs and Fruitland intervals. TOH.
 7. **Plug #6 (Kirtland and Ojo Alamo intervals, 1521' – 1340')**: Perforate 3 squeeze holes at 1521'. Establish injection rate into squeeze holes if casing tested. Set 4.5" CR @ 1472'. Sting into CR and establish injection rate into squeeze holes. Mix and pump 51 sxs Class G cement, squeeze 39 sxs outside casing leaving 12 sxs inside casing to cover Kirtland and Ojo Alamo intervals. TOH.
 8. **Plug #7 (8-5/8" surface casing shoe, 399' - Surface)**: Perforate 3 squeeze holes at 399'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 123 sxs cement and pump down the 4.5" casing and circulate good cement out the bradenhead. Shut well in and WOC.

Reclamation Plan (Over)

9. ND cementing valves and cut off wellhead. 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. RD, MOL and cut off anchors. Restore location per BLM stipulations

Reclamation Plan

- ① Move Fill To Cut 3-1 Ratio
- ② Close Access Road
- ③ Clean up JUNK ENTIRE LOCATION
- ④. Suckbrush Veg Com
- ⑤ Diversion At Top of cut
- ⑥ Sandy soil Do not Rip before seeding

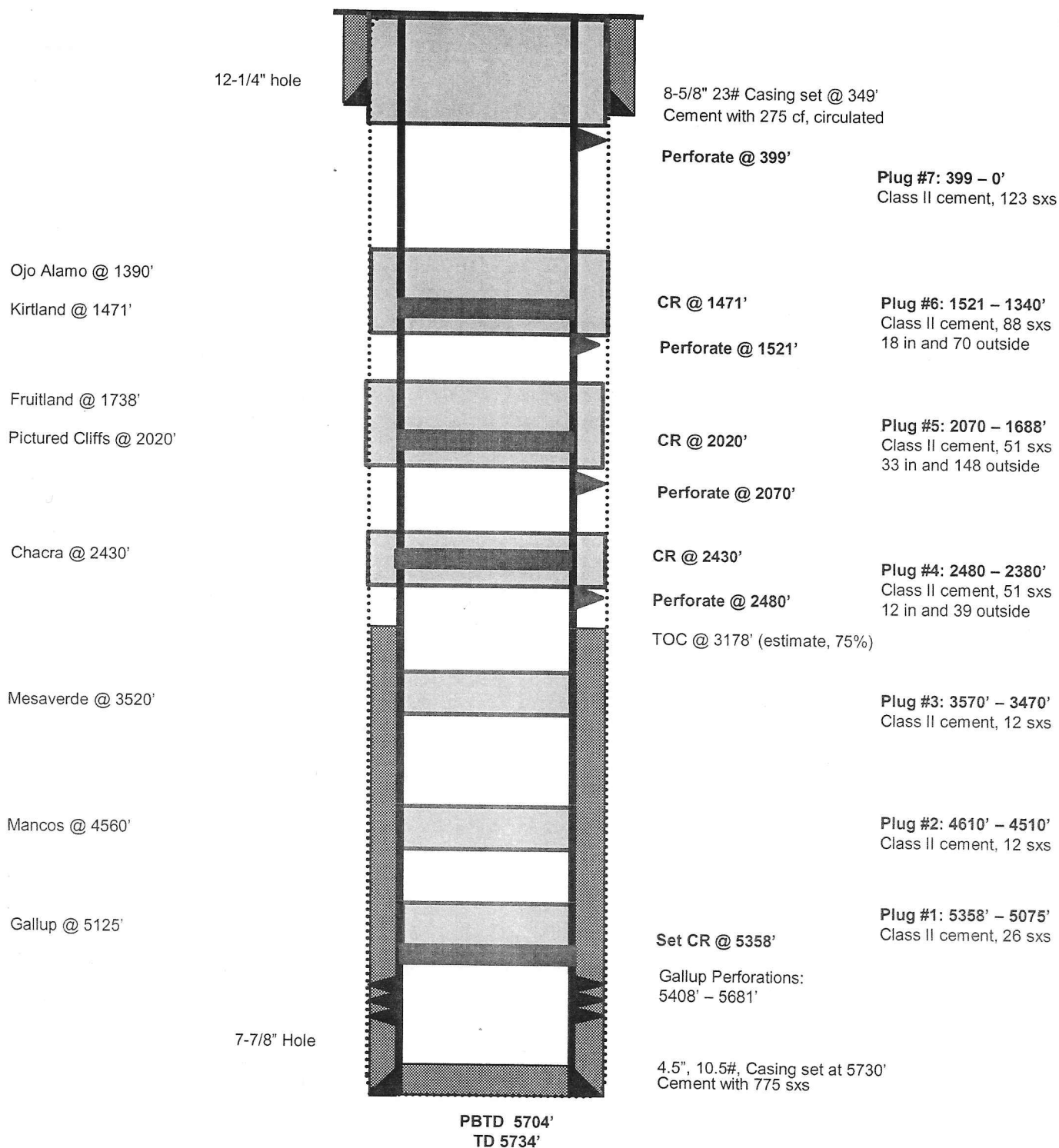
E Ton na Gash 8 #43**Proposed P&A**

Lybrook Gallup

2090' FSL, 450' FEL, Section 8, T-23-N, R-7-W

Rio Arriba County, NM, API #30-039-22463

Today's Date: 9/2/20



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

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: E Ton na Gas 8 #43

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. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Confirm cement volumes for each plug with BLM Field Inspector before starting work. The volume in the procedure does not matches up with the volumes in the proposed wellbore schematic.
 - b) Adjust plug # 4, or include an additional inside/ outside plug, to cover the interval of 2970-2870 ft. This is to isolate the top of the Chacra.
 - c) Adjust plug # 5 to cover the interval of 2080-1688 ft. This is to isolate the top of the Pictured Cliffs and Fruitland.
 - d) Adjust plug #6 to cover the interval of 1555-1340 ft. This is to isolate the top of the Kirtland and the Ojo Alamo.

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 8/11/2021

**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 H₂S.

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.

(October 2012 Revision)

BLM FLUID MINERALS Geologic Report

Date Completed: 4/2/2021

Well No. E-Ton-Na-Gah 8 #43 (API# 30-039-22463)	Location	2090	FSL	&	450	FEL
Lease No. NOO-C-14-20-5604	Sec. 08	T23N				R07W
Operator Engineering & Production Service, Inc.	County	Rio Arriba	State		New Mexico	
Total Depth 5734'	PBTD 5704'	Formation	Gallup (Mancos)			
Elevation (GL) 7113'	Elevation (KB) 7126'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm	Surface	230			Surface/Fresh water sands
Nacimiento Fm	230			1390	Fresh water sands
Ojo Alamo Ss			1390	1505	Aquifer (fresh water)
Kirtland Shale			1505	1798	
Fruitland Fm			1798	2030	Coal/Gas/Possible water
Pictured Cliffs Ss			2030	2120	Gas
Lewis Shale			2120	2920	
Chacra			2920	3520	
Cliff House Ss			3520	3555	Water/Possible gas
Menefee Fm			3555	4335	Coal/Ss/Water/Possible O&G
Point Lookout Ss			4335	4560	Probable water/Possible O&G
Mancos Shale			4560	5125	
Gallup			5125	PBTD	O&G/Water
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

- BLM pick for the Kirtland, Fruitland, Pictured Cliffs and Chacra formation top varies from operator pick.
- Plug #4 (Chacra) should be adjusted, or an additional inside/outside plug should be added, to cover interval from **2970'-2870'** as BLM Chacra formation top pick is at 2920'. Operator picked Chacra top at 2430'. Adjust cement volume accordingly.
- Plug #5 (Pictured Cliffs and Fruitland) should be adjusted to cover interval from **2080'-1688'**. Adjustment will cover both BLM and Operator Pictured Cliffs and Fruitland formation top picks. Adjust cement volumes accordingly.
- Plug #6 (Kirtland and Ojo Alamo) should be adjusted to cover interval from **1555'-1340'**. Adjustment will cover BLM Kirtland formation top pick at 1505'. Top of plug can be left at 1390' to cover the Ojo Alamo top. Adjust cement volumes accordingly.
- Log analysis of reference well #2 indicates the Ojo Alamo sands investigated likely contain fresh water ($\leq 5,000$ ppm TDS). It is likely Nacimiento sands contain fresh water as well. Plugging plan, with recommended adjustments, has adequate plugs to isolate freshwater sands from producing intervals in this well bore.
- Gallup perforations 5408'-5683'.

Reference Well:1) **Formation Tops**
Same2) **Water Analysis**
Hilcorp Energy Co.
Bolack E #2
1650' FNL, 1700' FEL
Sec. 1, T23N, R06W
GL 6776', KB 6788'Prepared by: Chris Wenman

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

COMMENTS

Action 42616

COMMENTS

Operator: Engineering & Production Service, Inc. P.O. Box 190 Farmington, NM 87499	OGRID: 14273
	Action Number: 42616
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 8/20/2021	8/20/2021

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 42616

CONDITIONS

Operator: Engineering & Production Service, Inc. P.O. Box 190 Farmington, NM 87499	OGRID: 14273
	Action Number: 42616
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	8/20/2021
kpickford	CBL required	8/20/2021