

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
I149IND84636. If Indian, Allottee or Tribe Name
EASTERN NAVAJO

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
NEAH VICTORIA 3

2. Name of Operator

ENDURING RESOURCES LLC

Contact: LACEY GRANILLO

E-Mail: lgranillo@enduringresources.com

9. API Well No.

30-045-28689-00-S1

3a. Address

1050 17TH STREET SUITE 2500
DENVER, CO 80265

3b. Phone No. (include area code)

Ph: 505-636-9743

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T27N R9W NENE 1245FNL 0790FEL
36.607803 N Lat, 107.733017 W Lon

11. County or Parish, State

SAN JUAN COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

P&A

Enduring Resources requests to plug and abandon the above mentioned well per plugging procedure, wellbore diagram and reclamation plan.

Notify NMOCD 24hrs
Prior to beginning
operations

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

**Electronic Submission #517866 verified by the BLM Well Information System
For ENDURING RESOURCES LLC, sent to the Farmington
Committed to AFMSS for processing by HEATHER PERRY on 06/05/2020 (20HCP0007SE)**

Name (Printed/Typed) LACEY GRANILLO

Title PERMITTING SPECIALIST

Signature (Electronic Submission)

Date 06/04/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JOE KILLINS

Title PETROLEUM ENGINEER

Date 08/17/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

AV

**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.

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

Well: NEAH VICTORIA 3

API: 300452868900S1

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. If casing fails to test contact BLM Engineering. No changes are to be made to this approved Sundry without prior approval from the BLM.
4. If necessary, submit electronic copy of the CBL for verification to the following addresses: jkillins@blm.gov , jhoffman@blm.gov and Brandon.Powell@state.nm.us . Based on CBL results inside/outside plugs and volumes will be adjusted accordingly.
5. BLM picks top of Ojo Alamo at 1045' md. Extend plug 2 to cover Ojo Alamo top 995 – 1095' md.
6. A Subsequent Report Sundry Notice (Form 3160-5) must be submitted within 30 days after plugging operations are complete.

BLM FLUID MINERALS Geologic Report

Date Completed: 7/30/20

Well No.	Neah Victoria 3	Location	1245'	FNL	&	790'	FEL
Lease No.	I149IND8463	Sec. 1	T27N				R9W
Operator	Enduring Resources	County	San Juan	State		New Mexico	
Total Depth	2120'	PBTD 2080'	Formation	Pictured Cliffs			
Elevation (GL) 5865'			Elevation (KB) 5877' (est.)				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm			Surface	1045'	Surface/Fresh water sands
Ojo Alamo Ss			1045'	1179'	Aquifer (fresh water)
Kirtland Shale			1179'	1754'	
Fruitland Fm			1754'	2025'	Coal/Gas/Possible water
Pictured Cliffs Ss			2025'		Gas
Lewis Shale					
Chacra					Probable water or dry
Cliff House Ss (main)					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					Source rock
Gallup					O&G/Water
Dakota					O&G/Water

Remarks:

P & A

- Please ensure that the tops of the Pictured Cliffs and Fruitland formations as well as the entire Ojo Alamo aquifer, identified in this report, are isolated by proper placement of cement plugs. This will protect the freshwater sands in this well bore.

Formation Tops Reference Well:

1) Enduring Resources Same

Prepared by: Walter Gage

OPERATOR:	ENDURING RESOURCES		
WELL:	NEAH VICTORIA 003		
FIELD:	BASIN FRUITLAND COAL		
API #	30-045-28689		
ER WELL #:	NM01910.01		
WI/NRI:	100.0000%	/	87.5000%

CNTY:	<u>San Juan</u>	FTG:	<u>1245' FNL & 790' FEL</u>
STATE:	<u>NM</u>	Q-Q:	<u>SESE</u>
SPUD:	<u>09/05/92</u>	SEC.:	<u>1</u>
COMP:	<u>09/27/92</u>	TWS:	<u>T27N</u>
STATUS:	<u>SI - INA</u>	RGE:	<u>R09W</u>
WBD DATE:	<u>05/05/20</u>	BY:	<u>ACB</u>

CURRENT WELLBORE DIAGRAM

KBE:	<u>5880</u>	'
KB:	<u>13</u>	'
GLE:	5867	'

TD (ft): 2120 '
PBTD (ft): 2080 '

12-1/4" Hole
8-5/8" 24.0# csg @ 300'
Cmt w/340 sxs, circ 122 sx to surface

FORMATION TOPS	
Ojo Alamo @	1097'
Kirtland @	1179'
Fruitland @	1754'
Pictured Cliffs @	2025'

ORIG PBSD @ 2080 '
 5-1/2" 15.5# Csg @ 2120 '
 TD @ 2120 '
 Cmt w/460 sx, circ 135 sx to surface

CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)
12 1/4	8 5/8	24	J55	0	300
7 7/8	5 1/2	15.5	J55	0	2120

TUBING RECORD

COND: used DATE: 28-Aug-07

<u>SIZE (in)</u>	<u>WT (lb/ft)</u>	<u>GRADE</u>	<u>TOP (ft)</u>	<u>TALLY (ft)</u>	<u>JTS</u>
<u>2 3/8</u>	<u>4.7</u>	<u>J-55</u>	<u>0</u>	<u>1953.00</u>	

[illegible]

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	SPF	STAGE	STATUS	VOL / PROP
Fruitland Coal	1869	1871	4	1	XLG	200,000
Fruitland Coal	1883	1885	4	1		
Fruitland Coal	1912	1928	4	1		
Fruitland Coal	1937	1938	4	1		
Fruitland Coal	1940	1945	4	1		
Fruitland Coal	1948	1949	4	1		
Fruitland Coal	1959	1962	4	1		
Fruitland Coal	1964	1974	4	1		
Fruitland Coal	2022	2024	4	1		
						200,000

OPERATOR: [ENDURING RESOURCES](#)
WELL: [NEAH VICTORIA 003](#)
FIELD: [BASIN FRUITLAND COAL](#)
API #: [30-045-28689](#)
ER WELL #: [NM01910.01](#)
WI/NRI: [100.0000%](#) / [87.5000%](#)

CNTY:	<u>San Juan</u>	FTG:	<u>1245' FNL & 790' FEL</u>
STATE:	<u>NM</u>	Q-Q:	<u>SESE</u>
SPUD:	<u>09/05/92</u>	SEC.:	<u>1</u>
COMP:	<u>09/27/92</u>	TWS:	<u>T27N</u>
STATUS:	<u>SI - INA</u>	RGE:	<u>R09W</u>
WBD DATE:	<u>05/05/20</u>	BY:	<u>ACB</u>

PROPOSED P&A WELLBORE DIAGRAM

KBE:	<u>5880</u>	'
KB:	<u>13</u>	'
GLE:	<u>5867</u>	'

TD (ft): 2120 '
PBTD (ft): 2080 '

12-1/4" Hole
8-5/8" 24.0# csg @ 300'
Cmt w/340 sxs, circ 122 sx to surface

FORMATION TOPS

FORMATION	POP
Ojo Alamo @	1097
Kirtland @	1179
Fruitland @	1754
Pictured Cliffs @	2025

ORIG PBTD @	2080	'
2" 15.5# Csg @	2120	'
TD @	2120	'

Cmt w/460 sxs, circ 135 sx to surface

CASING RECORD

<u>HOLE (in)</u>	<u>SIZE (in)</u>	<u>WT (lb/ft)</u>	<u>GRADE</u>	<u>TOP (ft)</u>	<u>BTM (ft)</u>
12 1/4	8 5/8	24	J55	0	300
7 7/8	5 1/2	15.5	J55	0	2120

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)
Fruitland Coal	1869	1871
Fruitland Coal	1883	1885
Fruitland Coal	1912	1928
Fruitland Coal	1937	1938
Fruitland Coal	1940	1945
Fruitland Coal	1948	1949
Fruitland Coal	1959	1962
Fruitland Coal	1964	1974
Fruitland Coal	2022	2024

PLUG #4: SURFACE PLUG

BALANCED PLUG

CEMENT 0' - 50'

CEMENT	9	50
PLUG VOLUME	12 sx	50 ' excess required (inside casing)

PLUG #3: SURFACE CASING SHOE

BALANCED PLUG

CEMENT 250' - 350'

CEMENT	200	300
PLUG VOLUME	18 sx	50 ' excess required (inside casing)

PLUG #2: KIRTLAND TOP, OJO ALAMO TOP

LESS #2: RITE AND BALANCED PLUG

CEMENT 1047' - 1229'

CEMENT	10.11	1220
PLUG VOLUME	27 sx	50 ' excess required (inside casing)

PLUG #1: FRUITLAND COAL PERFORATIONS, FRUITLAND TOP

5-1/2" CIGR 1819'

CEMENT 1704' - 1819'

CEMENT	1704 -	1015	
PLUG VOLUME	20 sx	ABOVE CICR	50 ' excess required (inside casing)

CEMENT & CASING INFORMATION

- ALL PLUGS ASSUME CLASS G NEAT CEMENT

- STABILIZING WELLBORE FLUID IS 8.3 PPG, SUFFICIENT TO BALANCE ALL WELLBORE PRESSURES, UNLESS NOTED OTHERWISE IN PROCEDURE

CEMENT DENSITY: **15.80 PPG**

CEMENT YIELD: 1.15 CUFT / SX

MIX WATER REQUIRED:	5.00 GAL / SX
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5-1/2" CSG CAPACITY:	0.1336 CUFT / FT
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5-1/2" CSG SA ACFT:	0.1535 CSF / FT
5-1/2" CSG x 8-5/8" CSG CAPACITY:	0.1926 CUFT / FT

5-1/2" CSG x 6-5/8" CSG CAPACITY:	0.1928 CUFT / FT
5-1/2" CSG x 7-7/8" HOLE CAPACITY:	0.1733 CUFT / FT

ENDURING RESOURCES IV, LLC

PLUG AND ABANDONMENT PROCEDURE

WELL: NEAH VICTORIA 003
API: 30-045-28689
ER WELL: NM01910.01
LOCATION: 1245' FNL & 790' FEL, Sec.1, T27N, R09W
COUNTY: San Juan
STATE: NM

- NOTES:
- 1) All cement volumes assume 100% excess volume outside pipe and 50' excess inside pipe. Cement will be Class 'G' (15.8 ppg and 1.15 cuft/sx). A stabilizing wellbore fluid with density of 8.3 ppg will be sufficient to balance pressures encountered in the well.
 - 2) Any waste fluids circulated from the well to surface, including excess cement, will be stored in steel tanks and then disposed of at an approved disposal facility.
 - 3) Notify BLM and NMOCD prior to beginning well-work operations. Comply with all BLM and NMOCD regulations. Obtain approval from BLM and NMOCD prior to making any changes or adjustments to the procedure.
 - 4) Plugs will be adjusted as necessary depending on the results of of any RCBLs.
 - 5) Wait on cement, tag, and spot additional cement plugs as necessary depending on results of casing pressure tests.
 - 6) Hold safety meetings daily (minimum) with all personnel on location. Record tubing, casing, and bradenhead pressures daily on reports.
 - 7) Test and install rig anchors, if necessary (if rig does not have a base-beam).

- PROCEDURE:
- 1) MIRU daylight pulling unit and associated equipment.
 - 2) Blow down well. Kill well.
 - 3) TOH and LD rods and pump.
 - 4) ND WH. NU BOPE and test.
 - 5) TOH and LD production tubing.
 - 6) PU and TIH with 5-1/2" casing scraper on 2-3/8" work-string to 1,869' (top perf). TOH and LD scraper.

7) PLUG #1: FRUITLAND COAL PERFORATIONS, FRUITLAND TOP

TIH with CICR on 2-3/8" work-string. Set CICR. Pressure test casing to 550 psig for 30 minutes. MIRU Cementers. Pump cement. Pull up hole to spot additional plugs.

5-1/2" CICR:	1,819'		
Plug Coverage:	1,704'	to	1,819'
Cement Volume:	20 sx	ABOVE CICR	
	20 sx	TOTAL	

8) PLUG #2: KIRTLAND TOP, OJO ALAMO TOP

Spot balanced plug. Pull up hole.

Plug Coverage:	1,047'	to	1,229'
Cement Volume:	27 sx		

27 sx TOTAL

9) PLUG #3: SURFACE CASING SHOE

Spot balanced plug. Pull up hole.

Plug Coverage: 250' to 350'

Cement Volume: 18 sx

18 sx TOTAL

10) PLUG #4: SURFACE PLUG

Spot balanced plug. TOH and LD work-string.

Plug Coverage: 0' to 50'

Cement Volume: 12 sx

12 sx TOTAL

- 11)** ND BOPE. Cut off casing and wellhead (minimum of 3' below finished grade). Top off annulus and casing with cement, if required. RDMO cement equipment. Install below-grade P&A marker (minimum 1/4" thick steel plate with weep hole, welded in place covering the well, well information permanently inscribed). RDMO.

- 12)** Complete surface reclamation as per approved reclamation plan.

Created by: A. Bridge 5/7/2020