Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

DEP	AKIMENI OF THE L	NTERIOR		Expi	ics. October 51, 2021		
BUR	5. Lease Serial No. NN	MNM014375					
Do not use this f	OTICES AND REPC form for proposals t Use Form 3160-3 (A	o drill or to re-ente		6. If Indian, Allottee or	Tribe Name		
SUBMIT IN	TRIPLICATE - Other instru	uctions on page 2		7. If Unit of CA/Agreen			
1. Type of Well							
Oil Well Gas W	_			8. Well Name and No.	RIGGS/1		
2. Name of Operator ENDURING RE	SOURCES LLC			9. API Well No. 30045	29117		
3a. Address 1050 17TH STREET SU		3b. Phone No. (include are	ea code)		10. Field and Pool or Exploratory Area		
		(303) 573-1222			I/BASIN FRUITLAND COAL		
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)			11. Country or Parish, S	State		
SEC 4/T29N/R12W/NMP				SAN JUAN/NM			
12. CHE	CK THE APPROPRIATE BO	OX(ES) TO INDICATE NA	ATURE OF NO	TICE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION			TYPE OF A	CTION			
Notice of Intent	Acidize	Deepen	Pro	oduction (Start/Resume)	Water Shut-Off		
	Alter Casing	Hydraulic Fractu	ıring Re	clamation	Well Integrity		
Subsequent Report	Casing Repair	New Construction		complete	V Other		
	Change Plans	Plug and Abando	on Ter	mporarily Abandon			
Final Abandonment Notice	Convert to Injection	Plug Back	Wa	ter Disposal			
 Describe Proposed or Completed O the proposal is to deepen directiona the Bond under which the work wil completion of the involved operatio completed. Final Abandonment Not is ready for final inspection.) ENDURING RESOURCES RE	lly or recomplete horizontall I be perfonned or provide the ons. If the operation results in tices must be filed only after	y, give subsurface location: Bond No. on file with BL a multiple completion or a all requirements, including	s and measured M/BIA. Require recompletion in reclamation, ha	and true vertical depths of ed subsequent reports must a new interval, a Form 31 ave been completed and th	f all pertinent markers and zones. A t be filed within 30 days following 60-4 must be filed once testing has e operator has detennined that the s	ttac bee	
WELLBORE DIAGRAM. THIS							
BELOW GROUND P&A MAR				INIED I EICHMOOD KE			
14. I hereby certify that the foregoing is	true and correct. Name (Pri	nted/Typed)					

Signature

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

KENNETH G RENNICK / Ph: (505) 564-7742 / Approved

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.

Date

03/09/2023

Og/14/2023

Office FARMINGTON

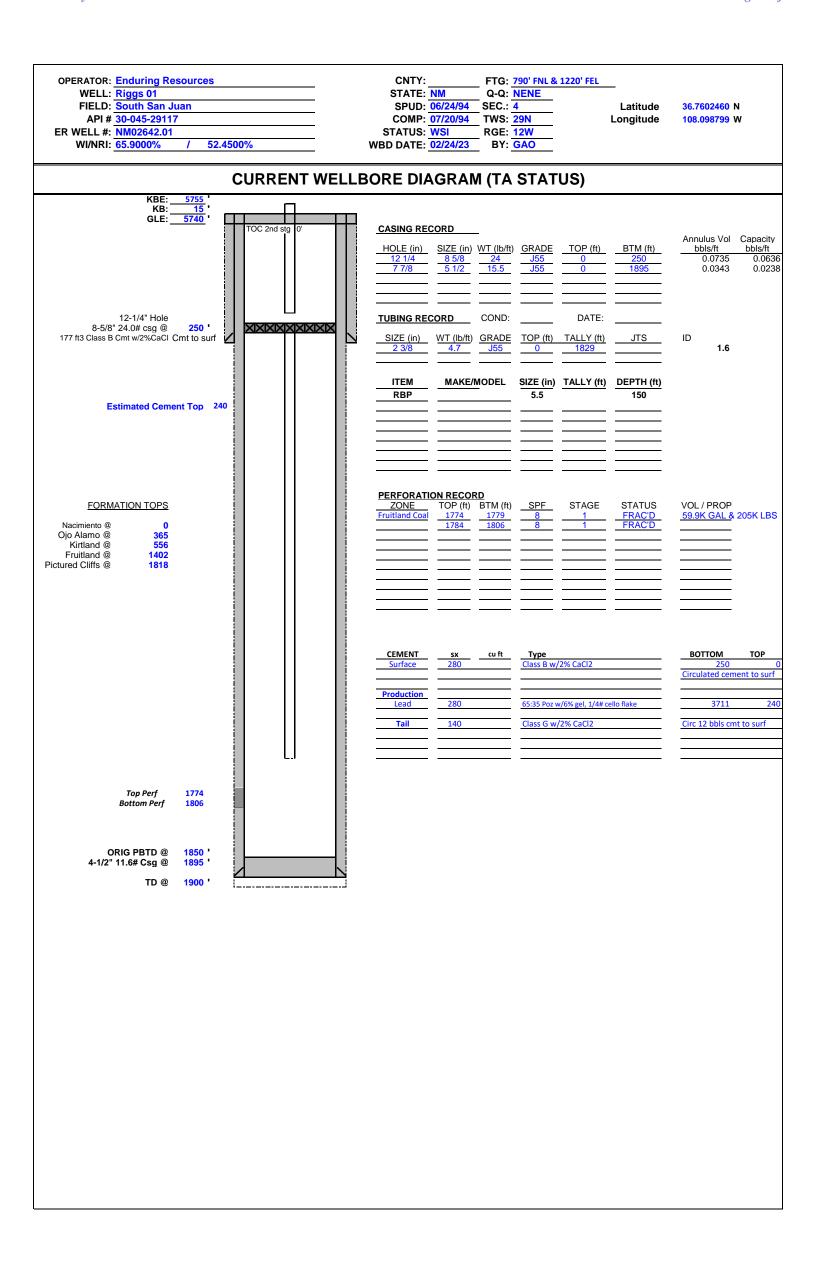
Title

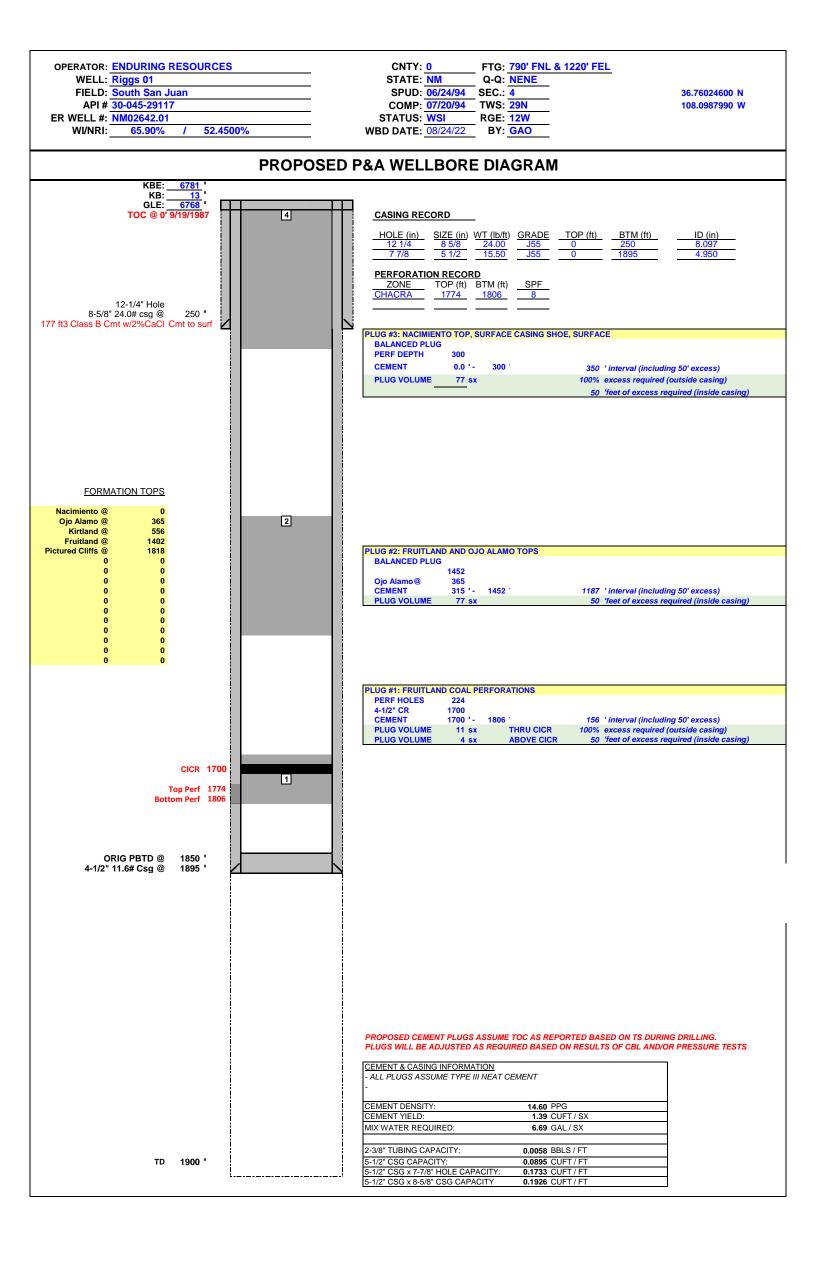
Permitting Technician

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)

HEATHER HUNTINGTON / Ph: (505) 636-9751





ENDURING RESOURCES IV, LLC

PLUG AND ABANDONMENT PROCEDURE

WELL: Riggs 01 Latitude 36.76024600 N Longitude 108.0987990 W API: 30-045-29117

ER WELL: NM02642.01

LOCATION: 790' FNL & 1220' FEL, Sec.4, 29N, 12W

COUNTY: South San Juan

STATE: NM AFE:

RIVING DIRECTIONS: From the intersection of US HWY 550 & US HWY 64 in Bloomfield, NM:

From the West intersection of US HWY 550 (South) & US HWY 64 in Bloomfield, NM: West on US HWY 64 for 6.3 mi to T of County Rd 350 intersection; Right (North) on Rd 350 for 3.9 mi to intersection of Cty Rd 3100/3720; Left (West) on Cty Rd 3720 for 0.8 miles to T; Right (North) on Cty Rd 3773 (just past Rd 3721) for 0.8 mi to T; Straight (West) continuing on Cty Rd 3773 for 0.1 mi to T; Left (South) on lease rd for 0.1 mi to onto location.

- NOTES: 1) All cement volumes assume 100% excess volume outside pipe and 50' excess inside pipe. Cement will be Type III (14.6 ppg and 1.39 cuft/sx), or similar. 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 P&A 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 approved procedure.
 - 4) Plugs will be adjusted as necessary depending on the results of of any RCBLs and pressure tests. All logs and pressure test results will be submitted / reported to Regulatory Agencies.
 - 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, if necessary (well is currently in TA status; should not require blowing down or killing).
- 3) ND WH. NU BOPE. Release RBP and POH with tubing. RU wireline. A CBL was ran from PBTD to surface 7/8/94 and is availble on state website - web address is below.

OCD Online: Imaging (nm.gov)

- 4) PU and TIH with 4-1/2" cast iron cement retainer (CICR) on 2-3/8" work-string to 1,700'. Set CICR, sting out, load annulus and press test to 500 psi. Sting in and establish injection rate minimum of 2 bpm
- 5) PLUG #1: FRUITLAND COAL PERFORATIONS

TIH with 4-1/2" CR on 2-3/8" work-string. Pump cement, 11 sx below CICR, sting out, pump remainder of 4 sx on top of the CR. Pull 3 stds and reverse tubing clean. TOOH to 1,413' MD.

Perf holes: 1762 to 1804'

4-1/2" CR: 1,700'

Plug Coverage: 1,700' to 1,806'

Cement Volume Below CICR: 11 sx

Cement Volume Above CICR: 4 sx

15 sx TOTAL

7) TIH with tubing to 1,452' MD. Pump cement as follows:

8) PLUG #2: FRUITLAND AND OJO ALAMO TOPS

Spot balanced plug down work-string displacing cement with 1 bbl clean water. TOOH to 200'. Reverse out tubing. POH.

Plug Coverage: 315 to 1,452

Cement Volume: 77 sx TOTAL

9) TIH with tubing to 300' MD. Pump cement as follows:

10) PLUG #3: NACIMIENTO TOP, SURFACE CASING SHOE, SURFACE

Circulate cement down 4.5" casing.

- 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 P&A marker to comply with BLM and NMOCD regulations. RDMO.
- 12) Complete surface reclamation as per approved reclamation plan.

Created by: G Olson 2/24/2023

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 03/13/2023

Well No. Riggs 01 (API 30-045-291	Location	NENE					
Lease No. NMNM014375		Sec. 4	T29N			R12W	
Operator Enduring Resources		County	San Juan		State	New Mexico	
Total Depth 1900'	PBTD 1850'	Formation	Fruitland	Coal			
Elevation (GLE) 5740' Elevation (KBE) 5755'							

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm					Possible freshwater sands
Ojo Alamo Ss			365		Aquifer (possible freshwater)
Kirtland Shale			556		
Fruitland Fm			1402		Coal/Gas/Possible water
Pictured Cliffs Ss			1818		Gas
Lewis Shale					
Chacra					Gas
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:
P & A

- Fruitland Coal Perforations 1774 – 1806'.

Prepared by: Kenneth Rennick

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2719895

Attachment to notice of Intention to Abandon

Well: Riggs 1

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 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 3/13/2023

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 <u>minimum general</u> 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.

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- 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.

(October 2012 Revision)

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

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 198236

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way, Suite 525	Action Number:
Centennial, CO 80111	198236
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Add to PBTD to base of BFC perforations to cover the PC top @ 1818'.	3/20/2023
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/20/2023
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	3/20/2023