

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 7/1/2019

Well information:

30-045-27124 BETTIN ON BISTI 30 #009

ENDURING RESOURCES, LLC

Application Type:

☒ P&A ☐ Drilling/Casing Change ☐ Location Change

☐ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84; Submit Gas Capture Plan form prior to spudding or initiating recompletion operations)

☐ Other:

Conditions of Approval:

- Notify NMOCD 24hrs prior to beginning operations.
- Add a Chacra Plug 1635'-1535'.

NMOCD Approved by Signature

9/6/19

Date

RECEIVED

Form 3160-5
(June 2015)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.
NMNM687646. If Indian, Allottee or Tribe Name
NAVAJO**SUBMIT IN TRIPLICATE** - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Enduring Resources IV LLC

3a. Address

200 Energy Court Farmington NM 87401

3b. Phone No. (include area code)

505-636-9743

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

8. Well Name and No.

BETTIN ON BISTI 30 009

9. API Well No.

30-045-27124

10. Field and Pool or Exploratory Area

Bisti- Lower Galup

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

SHL: 1980' FSL & 660' FEL Sec 30 T25N R11W Unit: 1

11. Country or Parish, State

San Juan, 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 checked="" type="checkbox"/> Other Plug and Abandon
	<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 recomple 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 recomple 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 BLM/BIA has determined that the site is ready for final inspection.

Approved to plugging of the well bore. Liability under bond is retained until surface restoration is completed.

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations

Enduring Resources IV LLC requests to plug and abandon the BETTIN ON BISTI 30 009 per the attached procedure, current and proposed wellbore diagram and reclamation plan.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Lacey Granillo

Title: Permit Specialist

Signature

Date: 7/1/19

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

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.

NMOC D



Family-owned founded in 1963 with Aztec Well Servicing Co



**Enduring Resources
Plug & Abandon Procedure
May 21, 2019**

Well:	Bettin on Bisti 30 #9	API:	30-45-27124
Location:	1980' FSL & 660' FEL	Field:	Bisti lower Gallup
Sec,T, R:	Sec 30 , T25N, 11W	Elevation:	GL: 6445'
Cnty/State:	San Juan, New Mexico	By:	Aztec Well Servicing
Lat/Long:	36.3703423,-108.0383835		

Objective:

Permanently plug & abandon the well from 4670' to surface containing 5 cement plugs.

Prior to Rig:

1. Notify BLM & NMOCD
2. Note: verify all cement volumes based on actual slurry to be pumped.
3. See attached COA's from BLM & NMOCD.

Procedure:

1. MIRU well servicing rig and cement equipment.
2. LD rods.
3. ND WH, NU BOPE, RU rig floor and 2-7/8" handling tools.
4. Release TAC, LD production string.
5. Tally and PU 2-3/8" workstring with 5-1/2" casing scraper to 4700'.
6. TOOH and LD casing scraper.
7. TIH with 5-1/2" CR and set @ 4670'.
8. Pressure test tubing to 1000psi, roll well, and close pipe rams and pressure test casing to 800psi. (WOC to be determined if test holds).
9. **Plug #1, 4670'-4455' (Gallup Perfs & Top: 4505')** Mix & pump 31 sxs of Class G cement (or equivalent) on top of CR to cover Gallup perfs and top. Pull up and reverse circulate tubing clean.
10. TOOH and LD setting tool and TIH open ended.
11. **Plug #2, 3855'-3755' (Mancos Top: 3805')** Mix 18 sxs of Class G cement (or equivalent) and pump a balance plug to cover the Mancos top. Pull up and reverse circulate tubing clean.
12. LD tubing to 2727'.
13. **Plug #3, 2727'-2627' (Mesaverde Top: 2677')** Mix 18 sxs of Class G cement (or equivalent) and pump a balance plug to cover the Mesaverde top. Pull up and reverse circulate tubing clean.
14. LD tubing to 1283'.
15. **Plug #4, 1283'-820' (PC, Fruitland, Kirtland, Ojo Alamo Tops: 1233', 1125', 1070', 870')** Mix 60 sxs of Class G cement (or equivalent) and pump a balance plug to cover the PC, Fruitland, Kirtland and Ojo Alamo tops. Pull up and reverse circulate tubing clean.



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Enduring Resources
Plug & Abandon Procedure
May 21, 2019

Well:	Bettin on Bisti 30 #9	API:	30-45-27124
Location:	1980' FSL & 660' FEL	Field:	Bisti lower Gallup
Sec,T, R:	Sec 30 , T25N, 11W	Elevation:	GL: 6445'
Cnty/State:	San Juan, New Mexico		
Lat/Long:	36.3703423,-108.0383835	By:	Aztec Well Servicing

16. LD tubing to 319'.
17. **Plug #5, 319'-0' (Surface Casing Shoe to 0')** Mix and pump 45 sxs of Class G cement (or equivalent) until good cement returns to surface.
18. ND BOP and cut off wellhead below surface casing flange per regulation. Top off w/cement if needed. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.



Family-owned founded in 1953 with Aztec Well Servicing Co.



Enduring Resources
Plug & Abandon Procedure
May 21, 2019

Well: Bettin on Bisti 30 #9
Location: 1980' FSL & 660' FEL
Sec,T, R: Sec 30 , T25N, 11W
Cnty/State: San Juan, New Mexico
Lat/Long: 36.3703423,-108.0383835

API: 30-45-27124
Field: Bisti lower Gallup
Elevation: GL: 6445'
By: Aztec Well Servicing

Bettin on Bisti 30 #9

Proposed P&A

Bisti Lower Gallup

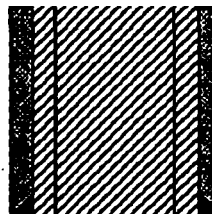
SEC 30, T25N, R11W

API 30-045-27124

Procedure Date: 5/21/2019

Proposed P&A

Surface Plug: 319'-0"
45 sxs Class G



12-1/2" hole
Surface Casing 8-5/8" 24#
Set @ 269'

Surface shoe @ 269'

Ojo Alamo @ 870'
Kirtland Top @ 1070'
Fruitland Top @ 1125'
Pictured Cliffs @ 1233'

Plug 4: 1283'-820'
60 sxs, class G

Mesaverde Top @ 2677'

Plug 3: 2727'-2627'
18 sxs, class G

Mancos Top @ 3805'

Plug 2: 3855'-3755'
18 sxs, class G

Gallup Top @ 4505'

Plug 1: 4670'-4455'
CR @ 4670'
31 sxs, class G

Gallup Perfs @ 4720' to 4908'

7-7/8" hole
5-1/2" 15.5# Production Casing set @ 4995'
Stage 1, and 2: 750 sxs, circ to surface.

TD @ 5000'

OPERATOR: ENDURING RESOURCES

WELL: Bettin on Bisti 30 #9

FIELD: Bisti Lower Gallup

API #: 30-045-27124

LEASE #: NM 68764 Navajo Trust

W/NRI: /

CNTY: San Juan

STATE: NM

SPUD: 04/08/90

COMP: 05/22/90

STATUS: SLOW

WBD DATE: 04/15/19

FTG: 1980' FSL, 660' FEL

Q-Q: NESE

SEC.: 30

TWS: 26N

RGE: 11W

BY: JTC

IP OIL: 82

IP GAS: 12

IP WTR: 29

CUM OIL: 35,761

CUM GAS: 21,103

CUM WTR: 1,370

LAST PROD: Sep-16

CURRENT WELLBORE DIAGRAM

KBE: 6457'
KB: 12'
GLE: 6445'

TD (ft): 5000'
PBTD (ft): 4941'

12 1/4" Hole
8-5/8", 24# Csg @ 269'
Cemented w/ 175 sxs

Top Cliff House @ 1545'
Top Mesaverde @
Top Point Lookout @ 3545'
Top Mancos @ 3805'
Top Mancos @ 4505'

Original TOC @ 7777'

DV TOOL @ 3037'

TAC @ 4581'

Gallup 4720'-4723'

Gallup 4811'-4838'

SN @ 4846'

Gallup 4854'-4880'

EOT @ 4878'

Gallup 4902'-4906'

ORIG PBTD @ 4941'

5 1/2" Csg @ 4995'

TD @ 5000'

Cmted w/ 755 sxs

CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)	
12 1/4	8 5/8	24			269	7 its
7 7/8	5 1/2	15 1/2 / 17	J-55		4995	129 its
	5 1/2	DV Tool			3037	

TUBING RECORD

COND: DATE: 16-Sep-09

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	TALLY (ft)	JTS
2 7/8	6.4	J-55			155

ITEM	MAKE/MODEL	SIZE (in)	TALLY (ft)	DEPTH (ft)
KBE				12.00
TBG HNGR				
TAC				4581.00
PSN				4846.00
TUBING		2 7/8		4878.00

EOT @ 4878.00

PERFORATION RECORD

ZONE	TOP (ft)	BTM (ft)	SPF	STAGE	STATUS	VOL / PROP
GALLUP	4720	4723	2	1		
GALLUP	4811	4816	2	1		
GALLUP	4836	4838	2	1		
GALLUP	4854	4864	2	1	SW Frac	134,060
GALLUP	4872	4880	2	1		
GALLUP	4902	4906	2	1		

134.060

WELLWORK HISTORY

Drilling 04/8/90 - 04/16/90

Spud well and drill 12 1/4" hole to 272'. Run and cement surface casing w/ cement to surface. Drill 7-7/8" hole to 5000'. Run prod casing and cement thru DV tool @ 3037' in two stages. Cement to surface on second stage.

Completion 05/22/1990

Drill out DV tool and test casing to 3500 psig, OK. Perforate Gallup gross interval 4720'-4906'. Acidize w/ 500 gals 15% Hcl and slickwater frac w/ 134,060# 20/40 sand. Swab and IP well @ 82 BOPD, 12 Mcf/d and 29 BV/d.

Last Workover 09/16/2009

Pump change and last workover reported. EOT @ 4878', PSN @ 4846' and TAC @ 4581'.

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: Bettin on Bisti 30 009

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 pressure test, CBL required after setting CR from 4670' to surface to confirm cement. Submit electronic copy of the log for verification to the following addresses: jkillina@blm.gov and Brandon.Powell@state.nm.us . Based on CBL results inside/outside plugs and volumes will be adjusted accordingly. Please review the Genereal Requirements document to ensure volumes meet required excess inside and outside casing.
4. Add an additional plug (720'-445') to cover BLM picks for Kirtland and Ojo Alamo tops at 670' and 495'.