

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.**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. JIC424
2. Name of Operator ENDURING RESOURCES LLC		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
3a. Address 1050 17TH STREET SUITE 2500 DENVER, CO. 80265		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 505-636-9743		8. Well Name and No. JAIR 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 7 T22N R5W SENE 1980FNL 660FEL 36.153532 N Lat, 107.396032 W Lon		9. API Well No. 30-043-20080-00-S1
		10. Field and Pool or Exploratory Area VENADO
		11. County or Parish, State SANDOVAL COUNTY, NM

NMOCD REC'D
9/28/20

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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
	<input type="checkbox"/> Change Plans	<input 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 recomplete 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 recompletion 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.

This well has been plugged and abandon on 12/2/19.

Final plugging operations, Wellbore Diagram & Above ground PA marker attached

14. I hereby certify that the foregoing is true and correct. Electronic Submission #494797 verified by the BLM Well Information System For ENDURING RESOURCES LLC, sent to the Rio Puerco Committed to AFMSS for processing by JOE KILLINS on 12/06/2019 (20JK0006SE)	
Name (Printed/Typed) LACEY GRANILLO	Title PERMITTING SPECIALIST
Signature (Electronic Submission)	Date 12/06/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	Title JOE KILLINS PETROLEUM ENGINEER	Date 12/06/2019
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 Rio Puerco

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

This well has been plugged and abandon on 12/2/19.

11/13/19- MIRU. Checked well pressures: Tubing: 0 psi, Casing: 135 psi, Bradenhead: 0 psi. Un-set rod pump. Started pulling rod string and tubing was full of paraffin and oil. Shut down and called for spec truck to suck off oil in tubing. Shut-in well for the day. John Hagstrom was BLM inspector on location.

11/14/19- Checked well pressures: Tubing: 0 psi, Casing: 135 psi, Bradenhead: 0 psi. Bled down well. R/U spec truck. L/D rod string and rod pump. Attempted to run in the wellbore with swab equipment but couldn't go down hole because of paraffin. N/D wellhead, N/U BOP and function tested. Pulled tubing hangar. L/D 2-7/8" production tubing using oil bucket and spec truck. Shut-in well for the day. John Hagstrom was BLM inspector on location.

11/15/19- Checked well pressures: Tubing: 0 psi, Casing: 20 psi, Bradenhead: 0 psi. Bled down well. Swap out tubing floats. P/U 6.25" bit, bit sub, and float. P/U work string, tallied in the hole with rabbit to a depth of 4228'. R/U pump and power swivel. Attempted to circulate and pumped 16 bbls of fresh water but wellbore immediately pressured up. TOOH with tubing and found float plugged with rust from work string. Drained up equipment and shut-in well for the weekend. John Hagstrom was BLM Inspector on location.

11/18/19- Checked well pressures: Tubing: 0 psi, Casing: 10 psi, Bradenhead: 0 psi. Bled down well. P/U 6.25" bit and TIH to CIBP at 4228'. While TIH had to break circulation and circulate out approximately 20 bbls of oil as well as gas. Killed well with 52 bbls of fresh water. Established circulation and started drilling CIBP. Drilled through CIBP and picked up pipe down to 4839'. TOOH with tubing. Drained up equipment and shut-in well for the day. John Hagstrom was BLM inspector on location.

11/19/19- Checked well pressures: Tubing: 0 psi, Casing: 90 psi, Bradenhead: 0 psi. Bled down well. Attempted to bleed down well but had to kill well with 40 bbls of fresh water. P/U CR, TIH and at stand 18 well started flowing up tubing. Shut-in well and pressure built up to 125 psi in tubing. Opened up backside and let well flow. Opened up tubing and let tubing bleed off to rig pit. While waiting well flowed approximately 80 bbls of oil. Established circulation and pumped 72 bbls of KCL to kill well. TIH with CR and set at 4839'. Stung out of CR and circulated the wellbore clean with 44 bbls of fresh water. Circulated out an additional 30 bbls of oil. Stood back 10 stands and shut-in well for the day. John Hagstrom was BLM inspector on location.

11/20/19 Checked well pressures: Tubing: 0 psi, Casing: 7 psi, Bradenhead: 0 psi. Bled down well. TIH with 10 stands of tubing. Cleaned oil and cement out of pit. R/U cementing services. WOC 4 hours. TOOH and L/D stinger nose. R/U wire line services. Ran CBL from 4000' to surface. CBL results were sent to BLM/NMOCD offices for review. WOC overnight. L/D 54 joints of tubing. Drain up equipment. Shut-in well for the day. Jimmy Dobson was BLM Inspector on location.

11/21/19- Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Circulated the wellbore clean. Pressure tested casing to 800 psi in which it successfully held pressure. R/U wire line services. RIH and perforated squeeze holes at 2330'. Successfully established injection rate into perforations at 2330'. P/U CR, TIH and set at 2290'. R/U cementing services. Squeezed 66 sx through CR at 2290' and into perforations at 2330'. Stung out of CR and spotted 49 sx of cement on top of CR at 2290' inside casing to cover the Chacra formation top. L/D 95 joints of tubing. R/U wire line services. RIH and perforated squeeze holes at 1928'. Successfully established injection rate into perforations at 1928'. P/U CR, TIH and set at 1880'. R/U cementing services. Squeezed 86 sx of cement through CR at 1880' and into perforations at 1928'. Stung out of CR and spotted 63 sx of cement on top of CR at 1880' inside casing to cover the Pictured Cliffs and Fruitland formation tops. L/D 104 joints of tubing. Drain up equipment. Shut-in well for the day. Jimmy Dobson was BLM inspector on location.

11/27/19- Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. R/U wire line services. RIH and perforated squeeze holes at 1570'. Successfully established injection rate into perforations at 1570'. P/U CR, TIH and set at 1532'. R/U cementing services. Squeezed 100 sx of cement down through CR at 1532' and into perforations at 1570'. Stung out of CR and spotted 60 sx of cement on top of CR at 1532' to cover the Kirtland and Ojo Alamo formation tops. L/D tubing. R/U wire line services. RIH and perforated squeeze holes at 512'. R/U cementing services. Successfully established circulation down through perforations at 512' and back around and out Bradenhead valve at surface. Successfully circulated cement down through perforations at 512' and back around and out Bradenhead valve at surface to cover the surface casing shoe. Wash up and drain equipment. Shut-in well for the day. Mike Gilbreath was BLM inspector on location.

12/2/19- Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. N/D BOP and cut-off wellhead. Dug up wellhead to install subsurface P&A marker. Installed P&A marker per BLM/NMOCD standards. Cement was at surface in both surface and production casings. Photographed the P&A marker in place and recorded its location via GPS coordinates. Back filled P&A marker. R/D and MOL. Mark Decker was BLM Inspector on location.

Attached photo of above ground PA marker and updated wellbore diagram.

Plug Summary:

Plug #1: Gallup Perforations, Formation Top and Mancos Formation Top 4085'-4839', 154 Sacks Class G Cement

Plug #2: Mesa Verde Formation Top 3222'-3937', 142 Sacks Class G Cement

Plug #3: Chacra Formation Top 2080'-2330', 115 Sacks Class G cement (Squeezed 66 sacks)

RIH and perforated squeeze holes at 2330'. Successfully established injection rate into perforations at 2330'. P/U CR, TIH and set at 2290'. Mixed 115 sx Class G cement and squeezed 66 sx through CR at 2290' and into perforations at 2330'. Stung out of CR and spotted 49 sx of cement on top of CR at 2290' inside casing to cover the Chacra formation top.

Plug #4: Pictured Cliffs and Fruitland Formation Tops 1596'-1928', 149 Sacks Class G Cement (Squeezed 86 sacks)

RIH and perforated squeeze holes at 1928'. Successfully established injection rate into perforations at 1928'. P/U CR, TIH and set at 1880'. Mixed 149 sx Class G cement and squeezed 86 sx through CR at 1880' and into perforations at 1928'. Stung out of CR and spotted 63 sx of cement on top of CR at 1880' Inside casing to cover the Pictured Cliffs and Fruitland

formation tops.

Plug #5: Kirtland and Ojo Alamo Formation Tops 1220'-1570', 160 Sacks Class G Cement (Squeezed 100 sacks)

RIH and perforated squeeze holes at 1570'. Successfully established injection rate into perforations at 1570'. P/U CR, TIH and set at 1532'. Mixed 160 sx Class G cement and squeezed 100 sx through CR at 1532' and into perforations at 1570'. Stung out of CR and spotted 60 sx of cement on top of CR at 1532' inside casing to cover the Kirtland and Ojo Alamo formation tops.

Plug #6: Surface Casing Shoe 512'-Surface, 242 Sacks Class G Cement

RIH and perforated squeeze holes at 512'. Successfully established circulation down through perforations at 512' and back around and out Bradenhead valve at surface. Successfully circulated cement down through perforations at 512' and back around and out Bradenhead valve at surface to cover the surface casing shoe.

Well Name: JAIR 001

API/UWI 30-043-20080	Surface Legal Location (Unit H) SE/4, NE/4, Section 7, Twp 22N...	Field Name Venado Mesa Verde	License #	State/Province NEW MEXICO	Well Configuration Type Vertical
Original KB Elevation (ft) 6,971.00	KB-Tubing Head Distance (ft)	Spud Date 11/30/1971 01:30	Rig Release Date 12/28/1971 00:00	PBTD (All) (ftKB) Original Hole - 4,085.0	Total Depth All (TVD) (ftKB)

Vertical, Original Hole, 12/3/2019 3:12:43 PM		
MD (ftKB)	Vertical schematic (actual)	Zone (Contact Interval)
12.1	Cement Plug #6, 12.0-512.0 ftKB, 11/27/2019	
419.9	Surface Cement, 12.0-462.0 ftKB, 11/30/1971	
420.9		
461.0	Cement Squeeze #6, 12.0-512.0 ftKB, 11/27/2019	
461.9		
464.9	Surface Casing, 9 5/8 in; 36.00 lb/ft, K-55, 462.0 ftKB	
509.8		
512.1	Upper Cement Plug #5, 1,220.0-1,532.0 ftKB, 11/27/2019	
1,220.1		
1,319.9	Cement Squeeze #5, 1,220.0-1,570.0 ftKB, 11/27/2019	
1,500.0		Ojo Alamo
1,532.2	Cement Retainer #5, 6 1/4 in; 1,532.0 ftKB, 1,534.0 ftKB	Kirtland
1,534.1		
1,567.9	Lower Cement Plug #5, 1,534.0-1,570.0 ftKB, 11/27/2019	
1,569.9		
1,596.1	Upper Plug #4, 1,596.0-1,880.0 ftKB, 11/21/2019	
1,700.1		Fruitland
1,878.0	Squeeze #4 outside pipe, 1,600.0-1,928.0 ftKB, 11/21/2019	Pictured Cliffs
1,879.9		
1,881.9	Cement Retainer #4, 6 1/4 in; 1,880.0 ftKB, 1,882.0 ftKB	
1,919.9		
1,925.9	Lower Plug #4, 1,882.0-1,928.0 ftKB, 11/21/2019	
1,928.1		Lewis
2,080.1	Upper Plug #3, 2,080.0-2,290.0 ftKB, 11/21/2019	
2,290.0		
2,292.0	Cement Squeeze - Plug #3, 2,080.0-2,330.0 ftKB, 11/21/2019	
2,328.1		
2,330.1	Cement Retainer #3, 6 1/4 in; 2,290.0 ftKB, 2,292.0 ftKB	
2,870.1		Chacra
3,100.1	Lower Plug #3, 2,292.0-2,330.0 ftKB, 11/21/2019	
3,370.1		Cliffhouse
3,907.0	Cement Plug #2, 3,222.0-3,937.0 ftKB, 11/20/2019	
3,909.0		
3,960.0	Cement Retainer #2, 6 1/4 in; 3,937.0 ftKB, 3,939.0 ftKB	
3,974.1		Menefee
3,990.2	Production Cement, 3,100.0-4,875.0 ftKB, 12/10/1971	
4,016.1		
4,024.0	Plug Back Total Depth, 4,085.0 ftKB, 11/20/2019	
4,085.0		
4,100.1	Cement Plug #1, 4,085.0-4,839.0 ftKB, 11/20/2019	
4,299.9		Pt Lookout
4,833.0		Mancos
4,834.0		
4,836.9	Cement Retainer #1, 6 1/4 in; 4,839.0 ftKB, 4,841.0 ftKB	
4,839.9		
4,840.9		
4,874.0	Production Casing, 7 in; 23.00 lb/ft, J-55, 4,875.0 ftKB	
4,875.0		
4,879.9	Fill, 6 3/8 in, 4,840.0 ftKB, 5,500.0 ftKB	
5,200.1		Gallup
5,500.0		

Well Status History						
Date	Well Status			Well Sub-Status		
Wellhead Assembly (Current Configuration)						
Type			Start Date			
Casing Strings						
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)	
Surface Casing	9 5/8	36.00	K-55		462.0	
Production Casing	7	23.00	J-55		4,875.0	
Perforations						
Date	Top (ftKB)	Btm (ftKB)	Linked Zone	Cur Stat Date	Current Status	
11/27/2019	510.0	512.0				
11/27/2019	1,568.0	1,570.0	Kirtland, Original Hole			
11/21/2019	1,926.0	1,928.0	Lewis, Original Hole			
11/21/2019	2,328.0	2,330.0	Lewis, Original Hole			
12/17/1971	3,974.0	3,990.0	Menefee, Original Hole			
7/15/1977	4,016.0	4,024.0	Menefee, Original Hole			
Other In Hole						
Des		OD (in)	Top (ftKB)	Btm (ftKB)	Run Date	
Fill		6 3/8	4,840.0	5,500.0	11/18/2019	
Cement Retainer #1		6 1/4	4,839.0	4,841.0	11/19/2019	
Cement Retainer #2		6 1/4	3,937.0	3,939.0	11/20/2019	
Cement Retainer #3		6 1/4	2,290.0	2,292.0	11/21/2019	
Cement Retainer #4		6 1/4	1,880.0	1,882.0	11/21/2019	
Cement Retainer #5		6 1/4	1,532.0	1,534.0	11/27/2019	
Cement Plugs						
Des	Type	Start Date	Stg #	Btm (ftKB)	Top (ftKB)	
Cement Plug #1 - GLLP & MNCS	Plug - Balanced	11/20/2019	1	4,839.0	4,085.0	
Cement Plug #2 - MNF & MV	Plug - Balanced	11/20/2019	2	3,937.0	3,222.0	
Cement Plug #3 - CHCRA	Plug - Balanced	11/21/2019	2	2,330.0	2,292.0	
Cement Plug #3 - CHCRA	Plug - Balanced	11/21/2019	3	2,290.0	2,080.0	
Cement Plug # 4 - PC	Plug - Balanced	11/21/2019	2	1,928.0	1,882.0	
Cement Plug # 4 - PC	Plug - Balanced	11/21/2019	3	1,880.0	1,596.0	
Cement Plug #5 - OJO-KRTLD	Plug - Balanced	11/27/2019	2	1,570.0	1,534.0	
Cement Plug #5 - OJO-KRTLD	Plug - Balanced	11/27/2019	3	1,532.0	1,220.0	
Cement Plug #6 - SURFACE	Plug - Balanced	11/27/2019	1	512.0	12.0	
Jobs						
Job Cat	Job Type	Start Date	End Date	AFE+Supp Amt (Cost)	Total Fld Est (Cost)	Var (AFE-Fld) (Cost)
Abandon	Abandon Well	11/13/2019		92,400.00	75,525.00	16,875.00

