

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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. JIC424

6. If Indian, Allottee or Tribe Name
JICARILLA APACHE**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
ENDURING RESOURCES LLC3a. Address 1050 17TH STREET SUITE 2500, DENVER, CO 3b. Phone No. (include area code)
(303) 573-12224. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 5/T22N/R5W/NMP

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

8. Well Name and No. LOGOS/1

9. API Well No. 3004321119

10. Field and Pool or Exploratory Area
BLANCO MESAVERDE/BASIN DAKOTA11. Country or Parish, State
SANDOVAL/NM

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

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ 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 detennined that the site is ready for final inspection.)

Enduring Resources completed a workover on the subject well to repair the rod pump completion. An updated schematic is attached.

Job Start: 02/25/2022

Job End: 02/28/2022

EOT: 6,009 MD

SN: 4,967 MD

TAC: 4,964 MD

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
HEATHER HUNTINGTON / Ph: (505) 636-9751

Title Permitting Technician

Signature

Date

04/13/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title Petroleum Engineer

Date 04/15/2022

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)

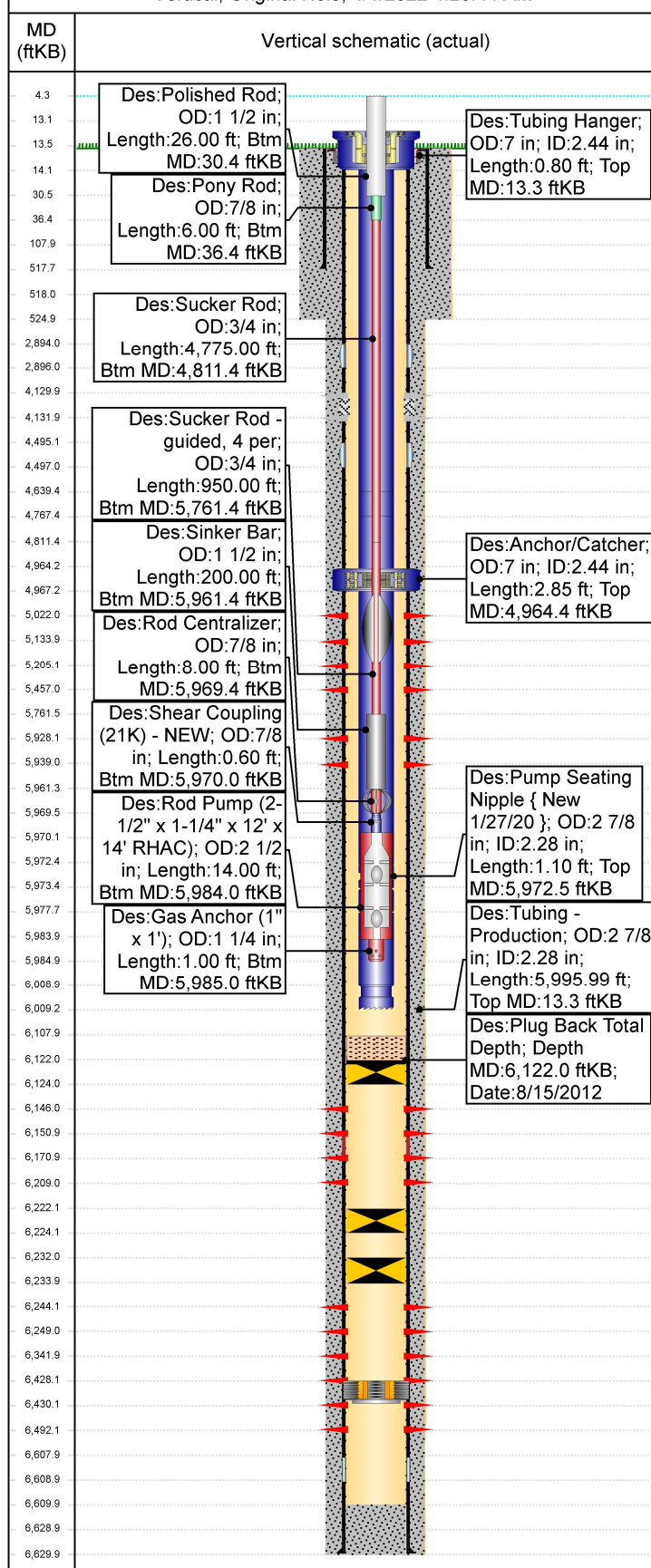


Enduring Resources IV - Production WBD with perfs

Well Name: LOGOS 01

API/UWI 30-043-21119	Surface Legal Location (Unit F) Section 05, Twp 22N, Rng 05W,...	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Vertical
Original KB Elevation (ft) 6,920.50	KB-Tubing Head Distance (ft)	Spud Date 5/30/2012 08:00	Rig Release Date	PBTD (All) (ftKB) Original Hole - 6,122.0	Total Depth All (TVD) (ftKB)

Vertical, Original Hole, 4/1/2022 4:26:44 AM



Wellbore Sections

Section Description Surface Hole	Size (in) 12 1/4	Act Top (ft...) 13.5	Act Top (T...)	Act Btm (ft...) 525.0	Act Btm (T...)
Section Description Production Hole	Size (in) 7 7/8	Act Top (ft...) 525.0	Act Top (T...)	Act Btm (ft...) 6,630.0	Act Btm (T...)

Rod Strings

Rod Description	Run Date	String Length (ft)		Set Depth (ftKB)	
Rod	2/28/2022	5,980.60		5,985.0	
Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1	1 1/2	26.00	4.4	30.4
Pony Rod	1	7/8	6.00	30.4	36.4
Sucker Rod	191	3/4	4,775.00	36.4	4,811.4
Sucker Rod - guided, 4 per	38	3/4	950.00	4,811.4	5,761.4
Sinker Bar	8	1 1/2	200.00	5,761.4	5,961.4
Rod Centralizer	2	7/8	8.00	5,961.4	5,969.4
Shear Coupling (21K) - NEW	1	7/8	0.60	5,969.4	5,970.0
Rod Pump (2-1/2" x 1-1/4" x 12' x 14' RHAC)	1	2 1/2	14.00	5,970.0	5,984.0
Gas Anchor (1" x 1')	1	1 1/4	1.00	5,984.0	5,985.0

Tubing - Production set at 6,009.3ftKB on 1/27/2020 07:00

Tubing Description		Run Date		String Length (ft)			Set Depth (ftKB)	
Tubing - Production		1/27/2020		5,995.99			6,009.3	
Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			7	2.44	0.80	13.3	14.1
Tubing { Yellowband scanned 1/24/20 }	143	J-55	6.50	2 7/8	2.44	4,625.53	14.1	4,639.6
Tubing { Yellowband,s canned 1/24/20 }	4	L-80	6.50	2 7/8	2.44	127.66	4,639.6	4,767.3
Tubing { New L-80 tbgs. 1/27/20 }	6	L-80	6.50	2 7/8	2.44	197.12	4,767.3	4,964.4
Anchor/Catcher	1			7	2.44	2.85	4,964.4	4,967.2
Tubing { New L-80 tbgs 1/27/20 }	31	L-80	6.50	2 7/8	2.44	1,005.26	4,967.2	5,972.5
Pump Seating Nipple { New 1/27/20 }	1			2 7/8	2.28	1.10	5,972.5	5,973.6
Perforated Pup Joint	1	J-55	6.50	2 7/8	2.44	4.25	5,973.6	5,977.8
Tubing	1	L-80	6.50	2 7/8	2.44	31.02	5,977.8	6,008.9
Notched pin collar	1			2 7/8		0.40	6,008.9	6,009.3

Surface Casing, 517.7ftKB

OD (in) 8 5/8	Wt/Len (lb/ft) 24.00	String Grade J-55	Top Connection	Top (ftKB) 13.5	Set Depth (ftKB) 517.7	
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints			12	504.19	13.5	517.7

Production Casing, 6,629.8ftKB

Production Casing: 6,629.8 ft					
OD (in) 5 1/2	Wt/Len (lb/ft) 17.00	String Grade P-110	Top Connection	Top (ftKB) 13.5	Set Depth (ftKB) 6,629.8
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Hanger			0.50	13.5	14.0
Casing Joints			2,880.00	14.0	2,894.0
DV Stage Tool			2.00	2,894.0	2,896.0
Casing Joints			1,599.00	2,896.0	4,495.0
DV Stage Tool			2.00	4,495.0	4,497.0
Casing Joints			1,654.00	4,497.0	6,151.0
Casing Marker Joint			20.00	6,151.0	6,171.0
Casing Joints			437.00	6,171.0	6,608.0



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Original KB Elevation (ft) 6,920.50	KB-Tubing Head Distance (ft)	Spud Date 5/30/2012 08:00	Rig Release Date	PBTD (All) (ftKB) Original Hole - 6,122.0	Total Depth All (TVD) (ftKB)

Vertical, Original Hole, 4/1/2022 4:26:47 AM		Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
MD (ftKB)	Vertical schematic (actual)	Float Collar		1.00	6,608.0	6,609.0
		Casing Joints		20.00	6,609.0	6,629.0
		Float Shoe		0.80	6,629.0	6,629.8
		Cement				
		Description	Cementing Start Date		Cementing End Date	
		Surface Casing Cement	5/30/2012		5/30/2012	
		Comment Cemented with 390 sacks of Class G; circulated 30 bbl of good cement to surface.				
		Description	Cementing Start Date		Cementing End Date	
		Production Casing Cement	6/8/2012		6/8/2012	
		Comment Cemented in three stages with total of 1115 sacks of 50/50 Poz and 100 sacks of Class G Neat				
		Description	Cementing Start Date		Cementing End Date	
		Cement Squeeze - MV perfs	10/25/2012		10/25/2012	
		Comment Squeezed perfs from 4130-4132' with 150 sacks of Type III Neat cement.				
		Perforations				
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		9/25/2012	Mesa Verde, Original Hole	3,437.0	4,328.0	3.0 63
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		8/31/2012	Gallup - Upper, Original Hole	5,022.0	5,134.0	3.0 39
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		8/30/2012	Gallup - Lower, Original Hole	5,205.0	5,457.0	2.0 36
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		8/14/2012	Sanostee, Original Hole	5,928.0	5,939.0	1.0 10
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		8/14/2012	Dakota - Upper, Original Hole	6,146.0	6,209.0	1.0 15
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		8/14/2012	Dakota - Upper, Original Hole	6,244.0	6,249.0	1.0 5
		Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens... Enter...
		8/13/2012	Dakota - Lower, Original Hole	6,342.0	6,492.0	1.0 42
		Other In Hole				
		Description	Top (ftKB)	Btm (ftKB)	Run Date	
		Cement Retainer	6,428.0	6,430.0	8/13/2012	
		Description	Top (ftKB)	Btm (ftKB)	Run Date	
		CIBP	6,232.0	6,234.0	8/15/2012	
		Description	Top (ftKB)	Btm (ftKB)	Run Date	
		CIBP	6,222.0	6,224.0	8/15/2012	
		Description	Top (ftKB)	Btm (ftKB)	Run Date	
		CIBP	6,122.0	6,124.0	8/15/2012	
		Description	Top (ftKB)	Btm (ftKB)	Run Date	
		Fill	6,108.0	6,122.0	1/27/2020	

4.3

13.1

13.5

14.1

30.5

36.4

107.9

517.7

518.0

524.9

2,894.0

2,896.0

4,129.9

4,131.9

4,495.1

4,497.0

4,639.4

4,767.4

4,811.4

4,964.2

4,967.2

5,022.0

5,133.9

5,205.1

5,457.0

5,761.5

5,928.1

5,939.0

5,961.3

5,969.5

5,970.1

5,972.4

5,973.4

5,977.7

5,983.9

5,984.9

6,008.9

6,009.2

6,107.9

6,122.0

6,124.0

6,146.0

6,150.9

6,170.9

6,209.0

6,222.1

6,224.1

6,232.0

6,233.9

6,244.1

6,249.0

6,341.9

6,428.1

6,430.1

6,492.1

6,607.9

6,608.9

6,609.9

6,628.9

6,629.9

Des:Polished Rod;
OD:1 1/2 in;
Length:26.00 ft; Btm
MD:30.4 ftKB

Des:Pony Rod;
OD:7/8 in;
Length:6.00 ft; Btm
MD:36.4 ftKB

Des:Sucker Rod;
OD:3/4 in;
Length:4,775.00 ft;
Btm MD:4,811.4 ftKB

Des:Sucker Rod -
guided, 4 per;
OD:3/4 in;
Length:950.00 ft;
Btm MD:5,761.4 ftKB

Des:Sinker Bar;
OD:1 1/2 in;
Length:200.00 ft;
Btm MD:5,961.4 ftKB

Des:Rod Centralizer;
OD:7/8 in;
Length:8.00 ft; Btm
MD:5,969.4 ftKB

Des:Shear Coupling
(21K) - NEW; OD:7/8
in; Length:0.60 ft;
Btm MD:5,970.0 ftKB

Des:Rod Pump (2-
1/2" x 1-1/4" x 12' x
14' RHAC); OD:2 1/2
in; Length:14.00 ft;
Btm MD:5,984.0 ftKB

Des:Gas Anchor (1"
x 1'); OD:1 1/4 in;
Length:1.00 ft; Btm
MD:5,985.0 ftKB

Des:Anchor/Catcher;
OD:7 in; ID:2.44 in;
Length:2.85 ft; Top
MD:4,964.4 ftKB

Des:Pump Seating
Nipple { New
1/27/20 }; OD:2 7/8
in; ID:2.28 in;
Length:1.10 ft; Top
MD:5,972.5 ftKB

Des:Tubing -
Production; OD:2 7/8
in; ID:2.28 in;
Length:5,995.99 ft;
Top MD:13.3 ftKB

Des:Plug Back Total
Depth; Depth
MD:6,122.0 ftKB;
Date:8/15/2012

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 104695

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 104695
	Action Type: [C-103] Sub. Workover (C-103R)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Accepted, John Garcia, Petroleum Engineer	11/7/2022

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CONDITIONS

Action 104695

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Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 104695
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	11/7/2022