

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

5. Lease Serial No. NOG13121826

6. If Indian, Allottee or Tribe Name

EASTERN NAVAJO

SUBMIT IN TRIPPLICATE - Other instructions on page 2

1. Type of Well

 Oil Well Gas Well Other

2. Name of Operator ENDURING RESOURCES LLC

3a. Address 1050 17TH STREET SUITE 2500, DENVER, CO 80202
3b. Phone No. (include area code) (303) 573-1222

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

SEC 21/T22N/R7W/NMP

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

NMNM130812A

8. Well Name and No. S ESCAVADA UNIT/350H

9. API Well No. 3004321318

10. Field and Pool or Exploratory Area
CHACO/RUSTY GALLUP OIL POOL

11. 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					
<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.)

Enduring Resources completed a workover on the subject well to repair and replace the initial gas lift installation. An updated schematic is attached.

Job Start: 10/31/2022

Job End: 11/2/2022

GLVs: 2242, 3219, 3843 and 4337

EOT: 5160 MD

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

HEATHER HUNTINGTON / Ph: (505) 636-9751

Permitting Technician

Title

11/17/2022

Signature

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Petroleum Engineer

11/17/2022

Title

Office FARMINGTON

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.

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)

WellView®

Enduring Resources IV - Production WBD

Well Name: S ESCAVADA UNIT 350H

NOTE: Well schematic is drawn vertically due to space constraints on the report. Please reference the directional surveys as needed.

API/UWI 30-043-21318	Surface Legal Location (Unit I) NE4, SE4, Section 27, T22N, R0...	Field Name CHACO	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal							
Original KB Elevation (ft) 6,777.00	KB-Tubing Head Distance (ft)	Spud Date 11/14/2021 10:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,529.6							
Horizontal, Original Hole, 11/3/2022 10:19:53 AM												
MD (ftKB)	Vertical schematic (actual)		Wellbore Sections									
-0.7			Section Des	Size (in)	Act Top (ftKB)							
0.0			Surface	17 1/2	28.0							
0.0			Intermediate	12 1/4	393.0							
0.0			Production	8 1/2	2,746.0							
0.0					2,629.7							
0.0					12,984.0							
0.0					4,529.6							
0.0			Rod Strings									
0.0			Rod Description	Run Date	String Length (ft)							
0.0					Set Depth (ftKB)							
0.0			Item Des	Jts	OD (in)							
0.0					Len (ft)							
0.0					Top (ftKB)							
0.0					Btm (ftKB)							
0.0			Tubing - Production set at 5,160.0ftKB on 11/2/2022 12:00									
0.0			Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)						
0.0			Tubing - Production	11/2/2022	5,132.02	5,160.0						
0.0			Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	
0.0			Tubing Hanger (J-lock)	1			4 3/4	2.44		0.80	28.0	28.8
0.0			Tubing	68	L-80	6.50	2 7/8	2.44	2,213.43	28.8	2,242.2	
0.0			Gas Lift Mandrel - 4	1			4.335	2.44	4.10	2,242.2	2,246.3	
0.0			Tubing	30	L-80	6.50	2 7/8	2.44	972.79	2,246.3	3,219.1	
0.0			Gas Lift Mandrel - 3				4.335	2.44	4.10	3,219.1	3,223.2	
0.0			Tubing	19	L-80	6.50	2 7/8	2.44	619.64	3,223.2	3,842.9	
0.0			Gas Lift Mandrel - 2	1			4.335	2.44	4.10	3,842.9	3,847.0	
0.0			Tubing	15	L-80	6.50	2 7/8	2.44	489.49	3,847.0	4,336.5	
0.0			Gas Lift Mandrel - 1	1			4.335	2.44	4.10	4,336.5	4,340.6	
0.0			Tubing	10	L-80	6.50	2 7/8	2.44	326.29	4,340.6	4,666.8	
0.0			Profile Nipple (X)	1			2 7/8	2.31	1.20	4,666.8	4,668.0	
0.0			Tubing	14	L-80	6.50	2 7/8	2.44	457.73	4,668.0	5,125.8	
0.0			Profile Nipple (XN w/ 2.205" no-go)	1			2 7/8	2.21	1.20	5,125.8	5,127.0	
0.0			Tubing	1	L-80	6.50	2 7/8	2.44	32.65	5,127.0	5,159.6	
0.0			Half Mule Shoe - EOT				2 7/8	2.44	0.40	5,159.6	5,160.0	
Surface, 360.0ftKB												
OD (in) 13 3/8	Wt/Len (lb/ft) 54.50	String Grade J-55	Top Connection LT&C	Top (ftKB) -0.7	Set Depth (ftKB) 360.0							
Item Des			Jts	Len (ft)	Top (ftKB)							
Casing Joints			8	317.54	-0.7							
Float Collar			1	1.62	316.8							
Casing Joints			1	39.70	318.5							
Float Shoe			1	1.84	358.2							
Intermediate, 2,736.0ftKB												
OD (in) 9 5/8	Wt/Len (lb/ft) 36.00	String Grade J-55	Top Connection LT&C	Top (ftKB) 30.8	Set Depth (ftKB) 2,736.0							
Item Des			Jts	Len (ft)	Top (ftKB)							
Casing Joints			0	0.00	30.8							
Casing Joints			0	0.00	30.8							
Landing Joint			0	0.00	30.8							
Casing Hanger			1	3.20	30.8							
Casing Pup Joint			1	3.00	34.0							
Casing Joints			66	2,616.62	37.0							
Casing Joints			1	39.73	2,653.6							
Float Collar			1	1.35	2,693.4							
Casing Joints			1	39.69	2,694.7							
Float Shoe			1	1.60	2,734.4							
Production, 12,972.0ftKB												
OD (in) 5 1/2	Wt/Len (lb/ft) 17.00	String Grade P-110	Top Connection LT&C	Top (ftKB) 31.0	Set Depth (ftKB) 12,972.0							

WellView®

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Original KB Elevation (ft) 6,777.00	KB-Tubing Head Distance (ft)	Spud Date 11/14/2021 10:00	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,529.6			
Horizontal, Original Hole, 11/3/2022 10:19:54 AM								
Vertical schematic (actual)								
MD (ftKB)			Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
-0.7			Casing Joints	0	0.00	31.0	31.0	
0.0			Landing Joint	0	0.00	31.0	31.0	
27.9			Casing Hanger	1	3.20	31.0	34.2	
28.9	Des:Tubing Hanger (J-lock); OD:4 3/4 in; ID:2.44 in; Length:0.80 ft; Top MD:28.0 ftKB			Casing Pup Joint	1	3.00	34.2	37.2
30.8			Casing Joints	1	42.44	37.2	79.7	
31.2			Marker Joint	1	22.87	79.7	102.5	
34.1			Casing Joints	100	4,075.23	102.5	4,177.8	
37.1			Air Lock	1	1.80	4,177.8	4,179.6	
79.7			Marker Joint	1	22.73	4,179.6	4,202.3	
102.7			Casing Joints	25	937.34	4,202.3	5,139.6	
316.9			Marker Joint	1	22.53	5,139.6	5,162.2	
318.6			Casing Joints	49	1,904.29	5,162.2	7,066.5	
358.3			Marker Joint	1	22.78	7,066.5	7,089.2	
359.9			Casing Joints	49	1,887.21	7,089.2	8,976.5	
393.0			Marker Joint	1	22.82	8,976.5	8,999.3	
2,242.1	Des:Gas Lift Mandrel - 4; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:2,242.2 ftKB			Casing Joints	51	1,912.23	8,999.3	10,911.5
2,246.4			Marker Joint	1	22.91	10,911.5	10,934.4	
2,653.5			Casing Joints	53	1,927.75	10,934.4	12,862.2	
2,693.2			Toe Sleeve	1	5.10	12,862.2	12,867.3	
2,694.6			Marker Joint	1	22.78	12,867.3	12,890.0	
2,734.3			Float Collar	1	1.92	12,890.0	12,892.0	
2,735.9			Casing Joints	1	42.95	12,892.0	12,934.9	
2,746.1	Des:Gas Lift Mandrel - 3; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:3,219.1 ftKB			Float Collar	1	1.92	12,934.9	12,936.8
2,795.9			Casing Joints	1	33.54	12,936.8	12,970.4	
3,219.2	Des:Tubing; OD:2 7/8 in; ID:2.44 in; Length:619.64 ft; Top MD:3,223.2 ftKB			Float Shoe	1	1.63	12,970.4	12,972.0
3,223.1			Cement					
3,842.8	Des:Gas Lift Mandrel - 2; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:3,842.9 ftKB			Description	Cementing Start Date	Cementing End Date		
3,847.1				Surface Casing Cement	11/13/2021	11/14/2021		
4,177.8			Comment					
4,179.5			PJSM , Test Lines , Pumped 30 bbl Water Spacer , Batch Mix 86.6 bbl Type III Cement (350 sks) , 14.6 ppg , Shut Down Drop Plug , Displace With 49.5 bbl Water , Bump Plug With 510 psi , 20 bbl Good Cement To Surface , Check Float , Float Held Bled 1/2 bbl Back					
4,202.4			Description					
4,336.3			Intermediate Casing Cement					
4,336.6	Des:Gas Lift Mandrel - 1; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:4,336.5 ftKB			Cementing Start Date	12/19/2021	Cementing End Date		
4,340.6					12/20/2021			
4,667.0	Des:Profile Nipple (X); OD:2 7/8 in; ID:2.31 in; Length:1.20 ft; Top MD:4,666.8 ftKB			Comment				
4,668.0			Cement Offline as follows:					
5,125.7	Des:Profile Nipple (XN w/ 2.205" no-go); OD:2 7/8 in; ID:2.21 in; Length:1.20 ft; Top MD:5,125.8 ftKB			PJSM with Drake Energy Services. Pressure tested lines to 2500 psi. Pumped 160 bbls mud to circulate well; Pumped 20 bbls FW, 20 bbls D-Mud Breaker, & 10 bbls of FW. Pumped Lead Cement: 203 bbls (617 sx) 90:10 Poz:Type III at 12.5 ppg, 2.14 ft3/sk, 12.05 gal H2O/sk. Pumped Tail Cement: 30 bbls (52sx) Type III Blend at 14.6 ppg, 1.38 ft3/sk, 6.64 gal H2O/sk. Dropped plug & began displacement. Displaced with 208 bbls FW. Plug did not bump shut in with 750 psi Maintained returns throughout job. Calculated 75. bbls of good cement to surface. Top of Lead to surface and top of tail at 2,333 ft MD. Released Rig @ 22:30 12/19/2021 to the South Escavada Unit 350H. (Cement 23:30 Hour,s To 02:30 Hour,s on -12-20-2021)				
5,127.0			Description					
5,139.8			Production Casing Cement					
5,159.8	Des:Tubing - Production; OD:2 7/8 in; ID:2.21 in; Length:5,132.02 ft; Top MD:28.0 ftKB			Cementing Start Date	12/30/2021	Cementing End Date		
5,160.1					12/30/2021			
5,162.1			Comment					
7,066.6			Cement Summary:					
7,089.2			PJSM with American Cementing. Pressure tested lines to 5000 psi. Pumped 60 bbls Intraguard Star @ 11.0 ppg. Pumped Lead Cement: 201.33. bbls (479 sx) ASTM Type I/II at 12.4 ppg, 2.36 ft3/sk, 13.4 gal H2O/sk. Pumped Tail Cement: 408.42 bbls (1470 sx) Class G Cement at 13.3 ppg, 1.56 ft3/sk, 7.7 gal H2O/sk. Washed lines, dropped plug & began displacement. Displaced with 299 bbls FW with cement retarder in 1st 50 bbls. FCP at 1,981 psi and plug bumped at 4.0 bpm to 2,906 psi. Bled back 3.0 Bbls and floats held.					
8,976.4			Top of Tail: Calculated 3,008 ft MD.					
8,999.3			Tof of Lead: surface					
10,911.4			Cement Back 100 BBL, Calculated Back 73 bbl's					
10,934.4			Cement in place at 13:30 on 12/30/2021					
12,862.2								
12,867.1								
12,890.1								
12,892.1								
12,935.0								
12,936.7								
12,970.5								
12,972.1								
12,983.9								

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 165749

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 165749
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
andrew.fordyce	Accepted for record.	12/15/2025