

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. N0G13121799

6. If Indian, Allottee or Tribe Name
EASTERN NAVAJO**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 2/T22N/R7W/NMP7. If Unit of CA/Agreement, Name and/or No.
S CHACO UT- MANCOS/NMNM133321A

8. Well Name and No. S LYBROOK UNIT/345H

9. API Well No. 3004321279

10. Field and Pool or Exploratory Area
LYBROOK GALLUP/LYBROOK GALLUP11. 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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☒ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ 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 performed a drillout and initial gas-lift installation. An updated well schematic is attached.

EOT: 5904 MD

GLVs: 960, 1455, 1982, 2510, 3070, 3565, 4060, 4554, and 5046 MD

Job Start: 10.28.2022

Job End: 10.29.2022

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 11/02/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title Petroleum Engineer

Date 11/04/2022

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 FARMINGTON

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.

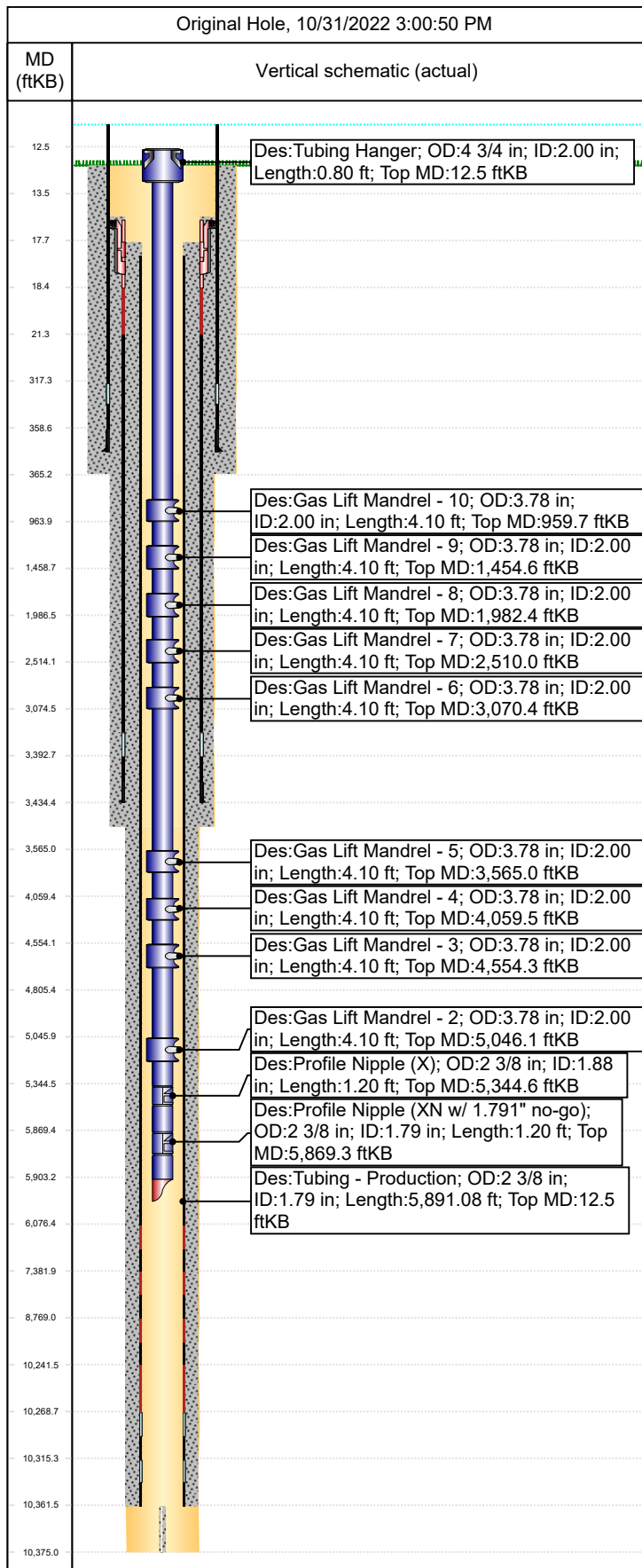
(Instructions on page 2)



Enduring Resources IV - Production WBD

Well Name: S CHACO UNIT 345H
NOTE: Well schematic is drawn vertically due to space constraints on the report. Please reference the directional surveys as needed.

API/UWI 30-043-21279	Surface Legal Location Sec 2, R22N-T7W	Field Name	License #	State/Province New Mexico	Well Configuration Type
Original KB Elevation (ft) 7,016.00	KB-Tubing Head Distance (ft)	Spud Date 5/16/2022 09:30	Rig Release Date 9/2/2022 06:00	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 5,185.8



Wellbore Sections					
Section Des	Size (in)	Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)
Surface	17 1/2	13.0	13.0	365.0	365.0
Intermediate	12 1/4	365.0	365.0	3,440.0	3,297.1
Production	8 1/2	3,440.0	3,297.1	10,375.0	5,185.8

Rod Strings					
Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)		
Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)

Tubing - Production set at 5,903.6ftKB on 10/29/2022 12:00					
Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)		
Tubing - Production	10/29/2022	5,891.08	5,903.6		

Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			4 3/4	2.00	0.80	12.5	13.3
Tubing	29	L-80	4.70	2 3/8	2.00	946.41	13.3	959.7
Gas Lift Mandrel - 10	1			3.783	2.00	4.10	959.7	963.8
Tubing	15	L-80	4.70	2 3/8	2.00	490.76	963.8	1,454.6
Gas Lift Mandrel - 9	1			3.783	2.00	4.10	1,454.6	1,458.7
Tubing	16	L-80	4.70	2 3/8	2.00	523.74	1,458.7	1,982.4
Gas Lift Mandrel - 8	1			3.783	2.00	4.10	1,982.4	1,986.5
Tubing	16	L-80	4.70	2 3/8	2.00	523.54	1,986.5	2,510.1
Gas Lift Mandrel - 7	1			3.783	2.00	4.10	2,510.1	2,514.2
Tubing	17	L-80	4.70	2 3/8	2.00	556.27	2,514.2	3,070.4
Gas Lift Mandrel - 6	1			3.783	2.00	4.10	3,070.4	3,074.5
Tubing	15	L-80	4.70	2 3/8	2.00	490.48	3,074.5	3,565.0
Gas Lift Mandrel - 5	1			3.783	2.00	4.10	3,565.0	3,569.1
Tubing	15	L-80	4.70	2 3/8	2.00	490.44	3,569.1	4,059.5
Gas Lift Mandrel - 4	1			3.783	2.00	4.10	4,059.5	4,063.6
Tubing	15	L-80	4.70	2 3/8	2.00	490.62	4,063.6	4,554.3
Gas Lift Mandrel - 3	1			3.783	2.00	4.10	4,554.3	4,558.4
Tubing	15	L-80	4.70	2 3/8	2.00	487.72	4,558.4	5,046.1
Gas Lift Mandrel - 2	1			3.783	2.00	4.10	5,046.1	5,050.2
Tubing	9	L-80	4.70	2 3/8	2.00	294.39	5,050.2	5,344.6
Profile Nipple (X)	1			2 3/8	1.88	1.20	5,344.6	5,345.8
Tubing	16	L-80	4.70	2 3/8	2.00	523.51	5,345.8	5,869.3
Profile Nipple (XN w/ 1.791" no-go)	1			2 3/8	1.79	1.20	5,869.3	5,870.5
Tubing	1	L-80	4.70	2 3/8	2.00	32.70	5,870.5	5,903.2
Half Mule Shoe - EOT is considered OV	1			2 3/8	2.00	0.40	5,903.2	5,903.6

Surface, 360.0ftKB					
OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
13 3/8	54.50	J-55	Buttress Thread	-0.3	360.0
Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
Casing Joints	8	317.63	-0.3	317.4	
Float Collar	1	1.50	317.4	318.9	
Casing Joints	1	39.65	318.9	358.5	
Shoe	1	1.50	358.5	360.0	



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Original KB Elevation (ft) 7,016.00	KB-Tubing Head Distance (ft)	Spud Date 5/16/2022 09:30	Rig Release Date 9/2/2022 06:00	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 5,185.8

Original Hole, 10/31/2022 3:00:51 PM	
MD (ftKB)	Vertical schematic (actual)
12.5	Des:Tubing Hanger; OD:4 3/4 in; ID:2.00 in; Length:0.80 ft; Top MD:12.5 ftKB
13.5	
17.7	
18.4	
21.3	
317.3	
358.6	
365.2	
963.9	
1,458.7	
1,986.5	Des:Gas Lift Mandrel - 10; OD:3.78 in; ID:2.00 in; Length:4.10 ft; Top MD:959.7 ftKB
2,514.1	
3,074.5	
3,392.7	
3,434.4	
3,565.0	Des:Gas Lift Mandrel - 5; OD:3.78 in; ID:2.00 in; Length:4.10 ft; Top MD:3,565.0 ftKB
4,059.4	
4,554.1	
4,805.4	Des:Gas Lift Mandrel - 3; OD:3.78 in; ID:2.00 in; Length:4.10 ft; Top MD:4,554.3 ftKB
5,045.9	
5,344.5	
5,869.4	Des:Gas Lift Mandrel - 2; OD:3.78 in; ID:2.00 in; Length:4.10 ft; Top MD:5,046.1 ftKB
5,903.2	
6,076.4	Des:Profile Nipple (X); OD:2 3/8 in; ID:1.88 in; Length:1.20 ft; Top MD:5,344.6 ftKB
7,381.9	
8,769.0	Des:Profile Nipple (XN w/ 1.791" no-go); OD:2 3/8 in; ID:1.79 in; Length:1.20 ft; Top MD:5,869.3 ftKB
10,241.5	
10,288.7	Des:Tubing - Production; OD:2 3/8 in; ID:1.79 in; Length:5,891.08 ft; Top MD:12.5 ftKB
10,315.3	
10,361.5	
10,375.0	

Intermediate, 3,434.5ftKB					
OD (in)	WT/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
9 5/8	36.00	J-55	LT&C	15.2	3,434.5
Item Des			Jts	Len (ft)	Top (ftKB)
Casing Joints			0	0.00	15.2
Landing Joint			0	0.00	15.2
Casing Hanger			1	3.20	18.4
Casing Pup Joint			1	3.00	21.4
Casing Joints			85	3,370.20	21.4
Float Collar			1	1.20	3,391.6
Casing Joints			1	39.71	3,392.8
Float Shoe			1	1.98	3,432.5
Intermediate, 10,364.1ftKB					
OD (in)	WT/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
5 1/2	20.00	P-110	Buttress Thread	17.9	10,364.1
Item Des			Jts	Len (ft)	Top (ftKB)
Casing Joints			0	0.00	17.9
Landing Joint			0	0.00	17.9
Mandrel			1	3.20	21.1
Final Joint/Pup			1	46.79	67.9
Casing Joints			108	4,737.41	67.9
Air Lock			1	1.92	4,805.3
Casing Joints			29	1,269.02	4,807.3
Marker Joint 4			1	22.43	6,076.3
Casing Joints			29	1,283.25	6,098.7
Marker Joint 3			1	21.33	7,382.0
Casing Joints			31	1,365.87	7,403.3
Marker Joint 2			1	21.74	8,769.2
Casing Joints			33	1,450.60	8,790.9
Toe Sleeve			1	5.10	10,241.5
Marker Joint 1			1	21.95	10,246.6
Float Collar			1	2.42	10,268.6
Casing Joints			1	44.30	10,271.0
Float Collar			1	2.42	10,315.3
Casing Joints			1	43.77	10,317.7
Float Shoe			1	2.64	10,361.5
Cement					
Description		Cementing Start Date		Cementing End Date	
Surface Casing Cement		5/17/2022		5/17/2022	
Comment					
PJSM, test lines, pump 10 bbls FW spacer, 10 bbls Sapp sweep, 10 bbls FW spacer & 86 bbls Type III cmt (350 sxs) @ 14.6 PPG, drop plug & disp w/ 49 bbls H2O, Bump plug @ 450 psi, circ 24 bbls good cmt to surface					
Description		Cementing Start Date		Cementing End Date	
Intermediate Casing Cement		8/7/2022		8/7/2022	
Comment					
PJSM with Drake Energy Services. Pressure tested lines to 2500 psi. Pumped 10 bbls FW, 10 bbls D-Mud Breaker, & 10 bbls of FW. Pumped Lead Cement: 266 bbls (698 sx) 90:10 Poz:Type III at 12.5 ppg, 2.14 ft3/sk, 12.05 gal H2O/sk. Pumped Tail Cement: 33.4 bbls (136 sx) Type III Blend at 14.6 ppg, 1.38 ft3/sk, 6.64 gal H2O/sk. Dropped plug & began displacement. Displaced with 260.5 bbls FW. FCP at 900 psi and Did not Bump Plug, bled off floats held. Maintained returns throughout job. Calculated 120 bbls to surface and got 10 bbls of good cement to surface. Top of Lead to surface and top of tail at 2,887 ft MD.					



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Original Hole, 10/31/2022 3:00:53 PM		Cement	
MD (ftKB)	Vertical schematic (actual)	Description	Cementing Start Date
		Production Casing Cement	8/30/2022
		Cementing End Date	8/30/2022
		Comment	
		Cement Summary: PJSM with American Cementing. Pressure tested lines to 5000 psi. Pumped 60 bbls Intraguard Star @11.0 ppg. Pumped Lead Cement: 228 bbls 542 sx) ASTM Type I/II at 12.4 ppg, 2.36 ft3/sk, 13.39 gal H2O/sk. Pumped Tail Cement: 268.5 bbls (963 sx) Class G Cement at 13.3 ppg, 1.57 ft3/sk, 7.7 gal H2O/sk. Washed lines, dropped plug & began displacement. Displaced with 240 bbls FW with cement retarder in 1st 50 bbls. FCP at 1,756-- psi Bump Plug at 4.0 bpm to 2,694- psi. Bled back 2.0 Bbls and floats held. Cement From 20:30 To 23:33 - 08/30/2022	
		Top of Tail: Calculated 4,376 ft MD. Top of Lead: Surface Cement Back 88 BBL, Calculated Back 48 bbl's	
		Cement in place at 23:52 on 8/30/2022, Wash Through All Cement Lines	

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 160901

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 160901
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
andrew.fordyce	Accepted for record.	12/5/2025