

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. **N0G13121863**6. If Indian, Allottee or Tribe Name
NAVAJO NATION**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
ENDURING RESOURCES LLC3a. Address **200 ENERGY COURT, FARMINGTON, NM 87401**
3b. Phone No. (include area code)
(505) 497-85747. If Unit of CA/Agreement, Name and/or No.
Greater Lybrook/NMNM144419X8. Well Name and No. **GREATER LYBROOK UNIT/051H**9. API Well No. **3004538282**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 23/T23N/R9W/NMP10. Field and Pool or Exploratory Area
LYBROOK MANCOS W11. 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				
☐ 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 performed a drillout and initial gas-lift installation. An updated well schematic is attached.

EOT: 4629 MD

GLVs: 1357, 1913, 2436, 2960, 3450, 3909 MD

Job Start: 7.11.2023

Job End: 7.14.2023

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 **08/23/2023**

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title **Petroleum Engineer**

Date **08/23/2023**

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)

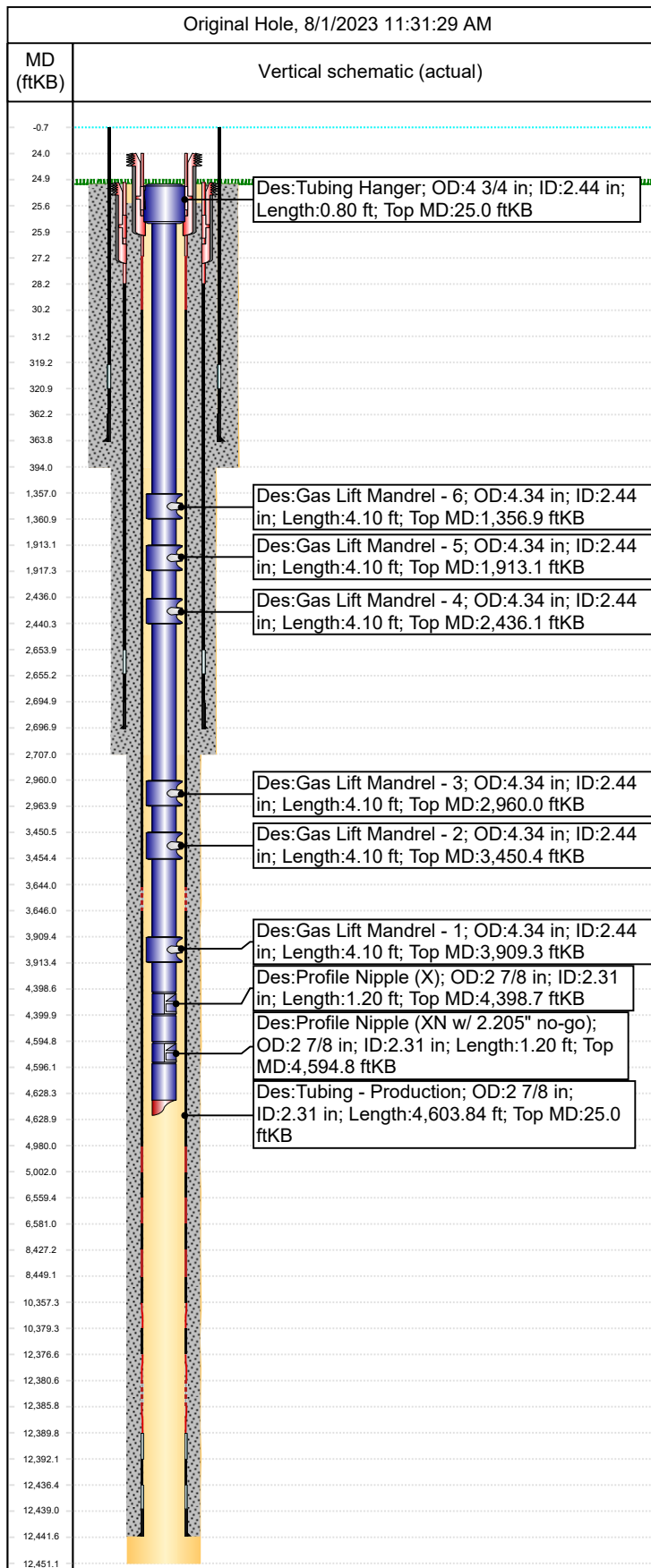


Enduring Resources IV - Production WBD

Well Name: GREATER LYBROOK UNIT 051H (EKA WLU 778H)

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

API/UWI 30-045-38282	Surface Legal Location 23-23N-09W Sec-Twn-Rng 36.206371 N...	Field Name	License #	State/Province New Mexico	Well Configuration Type
Original KB Elevation (ft) 6,772.00	KB-Tubing Head Distance (ft)	Spud Date 2/28/2023 08:45	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,227.2



Wellbore Sections								
Section Des		Size (in)		Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)	
Surface		17 1/2		25.0	25.0	394.0	394.0	
Intermediate		12 1/4		394.0	394.0	2,707.0	2,661.5	
Production		8 1/2		2,707.0	2,661.5	12,451.0	4,227.2	
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 4,628.8ftKB on 7/15/2023 06:00								
Tubing Description		Run Date		String Length (ft)		Set Depth (ftKB)		
Tubing - Production		7/15/2023		4,603.84		4,628.8		
Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			4 3/4	2.44	0.80	25.0	25.8
Tubing	41	J-55	6.50	2 7/8	2.44	1,331.09	25.8	1,356.9
Gas Lift Mandrel - 6	1			4.335	2.44	4.10	1,356.9	1,361.0
Tubing	17	J-55	6.50	2 7/8	2.44	552.08	1,361.0	1,913.1
Gas Lift Mandrel - 5	1			4.335	2.44	4.10	1,913.1	1,917.2
Tubing	16	J-55	6.50	2 7/8	2.44	518.91	1,917.2	2,436.1
Gas Lift Mandrel - 4	1			4.335	2.44	4.10	2,436.1	2,440.2
Tubing	16	J-55	6.50	2 7/8	2.44	519.77	2,440.2	2,960.0
Gas Lift Mandrel - 3	1			4.335	2.44	4.10	2,960.0	2,964.1
Tubing	15	J-55	6.50	2 7/8	2.44	486.38	2,964.1	3,450.4
Gas Lift Mandrel - 2	1			4.335	2.44	4.10	3,450.4	3,454.5
Tubing	14	J-55	6.50	2 7/8	2.44	454.79	3,454.5	3,909.3
Gas Lift Mandrel - 1	1			4.335	2.44	4.10	3,909.3	3,913.4
Tubing	15	J-55	6.50	2 7/8	2.44	485.29	3,913.4	4,398.7
Profile Nipple (X)	1			2 7/8	2.31	1.20	4,398.7	4,399.9
Tubing	6	J-55	6.40	2 7/8	2.44	194.87	4,399.9	4,594.8
Profile Nipple (XN w/ 2.205" no-go)	1			2 7/8	2.31	1.20	4,594.8	4,596.0
Tubing	1	J-55	6.50	2 7/8	2.44	32.46	4,596.0	4,628.4
Half Mule Shoe - EOT is considered OV	1			2 7/8	2.44	0.40	4,628.4	4,628.8
Surface, 364.0ftKB								
OD (in)	Wt/Len (lb/ft)	String Grade		Top Connection		Top (ftKB)	Set Depth (ftKB)	
13 3/8	54.50	J-55		Buttress Thread		-0.7	364.0	
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)			
Casing Joints		8	320.11	-0.7	319.4			
Float Collar		1	1.48	319.4	320.9			
Casing Joints		1	41.27	320.9	362.1			
Float Shoe		1	1.88	362.1	364.0			
Intermediate, 2,696.9ftKB								
OD (in)	Wt/Len (lb/ft)	String Grade		Top Connection		Top (ftKB)	Set Depth (ftKB)	
9 5/8	36.00	J-55		LT&C		25.0	2,696.9	
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)			
Landing joint		0	0.00	25.0	25.0			
Casing Joints		0	0.00	25.0	25.0			
Landing joint		0	0.00	25.0	25.0			
Casing hanger		1	3.20	25.0	28.2			
Casing pup		1	3.00	28.2	31.2			



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Original KB Elevation (ft) 6,772.00	KB-Tubing Head Distance (ft)	Spud Date 2/28/2023 08:45	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,227.2

Original Hole, 8/1/2023 11:31:31 AM						
MD (ftKB)	Vertical schematic (actual)					
-0.7						
24.0						
24.9						
25.6						
25.9						
27.2						
28.2						
30.2						
31.2						
319.2						
320.9						
362.2						
363.8						
394.0						
1,357.0						
1,360.9						
1,913.1						
1,917.3						
2,436.0						
2,440.3						
2,653.9						
2,655.2						
2,694.9						
2,696.9						
2,707.0						
2,960.0						
2,963.9						
3,450.5						
3,454.4						
3,644.0						
3,646.0						
3,909.4						
3,913.4						
4,398.6						
4,399.9						
4,594.8						
4,596.1						
4,628.3						
4,628.9						
4,980.0						
5,002.0						
6,559.4						
6,581.0						
8,427.2						
8,449.1						
10,357.3						
10,379.3						
12,376.6						
12,380.6						
12,385.8						
12,389.8						
12,392.1						
12,436.4						
12,439.0						
12,441.6						
12,451.1						

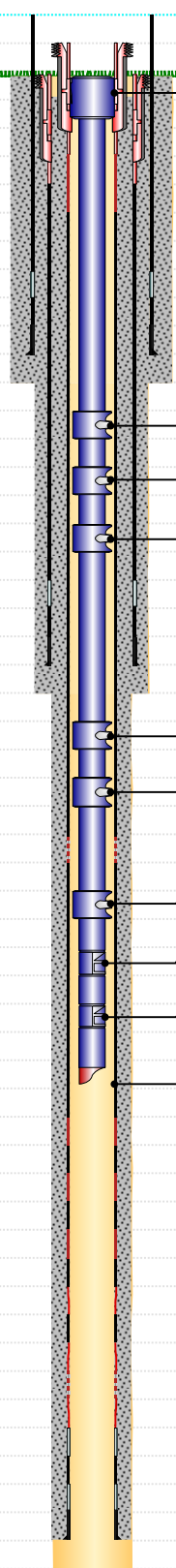
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints		65	2,622.67	31.2	2,653.9
Float Collar		1	1.20	2,653.9	2,655.1
Casing Joints		1	39.94	2,655.1	2,695.0
Float Shoe		1	1.90	2,695.0	2,696.9
Production, 12,441.5ftKB					
OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
5 1/2	17.00	P-110	LT&C	24.0	12,441.5
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Marker Joint 5		0	0.00	24.0	24.0
Casing Joints		0	0.00	24.0	24.0
Landing Joint		0	0.00	24.0	24.0
Casing Hanger		1	3.20	24.0	27.2
Casing Pup Joint		1	3.00	27.2	30.2
Casing Joints		83	3,613.94	30.2	3,644.1
Air Lock		1	1.92	3,644.1	3,646.0
Casing Joints		31	1,334.11	3,646.0	4,980.1
Marker Joint 4		1	21.70	4,980.1	5,001.8
Casing Joints		36	1,557.62	5,001.8	6,559.5
Marker Joint 3		1	21.45	6,559.5	6,580.9
Casing Joints		44	1,846.13	6,580.9	8,427.0
Marker Joint 2		1	22.15	8,427.0	8,449.2
Casing Joints		44	1,908.04	8,449.2	10,357.2
Marker Joint 1		1	22.18	10,357.2	10,379.4
Casing Joints		46	1,997.23	10,379.4	12,376.6
Cross Over		1	4.05	12,376.6	12,380.7
Toe Sleeve		1	5.10	12,380.7	12,385.8
Cross Over		1	4.00	12,385.8	12,389.8
Float Collar		1	2.42	12,389.8	12,392.2
Casing Joints		1	44.22	12,392.2	12,436.4
Float Collar		1	2.42	12,436.4	12,438.9
Float Shoe		1	2.65	12,438.9	12,441.5
Cement					
Description		Cementing Start Date		Cementing End Date	
Surface Casing Cement		3/1/2023		3/1/2023	
Comment					
Cement off line as follows: Pressure test lines 1500 psi, Pump 10 bbls FW spacer, 10 bbls mud clean, 10 bbls FW spacer, 353 sks (87 bbls) type 3 cement @ 14.8 ppg, 1.39 yield, 6.68 gps, drop plug and displace with 49.49 bbls FW, FCP 120 psi at 2.7 bbls/min, bump plug at 605 psi, check floats (Held), 40 bbls cement to surface. Bump plug @ 16:36 on 3/1/23, bleed back 1/4 bbl to truck, rig down and move off cement equipment.					
Description		Cementing Start Date		Cementing End Date	
Intermediate Casing Cement		4/16/2023		4/16/2023	
Comment					
PJSM with Drake Energy Services. Pressure tested lines to 2000 psi. Pumped 10 bbls FW, 10 bbls D-Mud Breaker, & 10 bbls of FW. Pumped Lead Cement: 195 bbls (491 sx) 90:10 Poz:Type III at 12.5 ppg, 2.14 ft3/sk, 12.05 gal H2O/sk. Pumped Tail Cement: 33.0 bbls (137 sx) Type III Blend at 14.6 ppg, 1.38 ft3/sk, 6.61 gal H2O/sk. Dropped plug & began displacement. Displaced with 205.0 bbls FW. FCP at 800 psi and Bump Plug to 1430 psi @ 2.8 BPM, bled back 1.0 bbls, floats held. Maintained returns throughout job. Calculated 70 bbls to surface and got 65 bbls of good cement to surface. Top of Lead to surface and top of tail at 2,104 ft MD.					



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Original Hole, 8/1/2023 11:31:33 AM		Cement	
MD (ftKB)	Vertical schematic (actual)	Description	Cementing Start Date
		Production Casing Cement	5/4/2023
		Cementing End Date	5/4/2023
		Comment	
-0.7		Cement Summary: PJSM with American Cementing. Pressure tested lines to 5,000 psi. Pumped 60 bbls Intraguard Star @11.0 ppg. Pumped Lead Cement: 189 bbls (470 sx) ASTM Type I/II at 12.4 ppg, 2.26 ft3/sk, 12.70 gal H2O/sk. Pumped Tail Cement: 392 bbls (1405 sx) Class G Cement at 13.3 ppg, 1.57 ft3/sk, 7.70 gal H2O/sk. Washed lines, dropped plug & began displacement. Displaced with 287 bbls FW with cement retarder in 1st 50 bbls. FCP 1,487 -- psi Bump Plug at 4.0 bpm to 2,850- psi. Bled back 2.5 Bbls and floats held. Cement From 05:30 To 08:30 - 5/4/2023 Top of Tail: Calculated 3,658 ft MD. Top of Lead: Surface Cement Back 17 BBL, Calculated Back 39.8 bbl's Cement in place at 08:27 on 5/4/2023, Wash Through All Cement Lines, Rig Down American	
24.0			
24.9			
25.6		Des:Tubing Hanger; OD:4 3/4 in; ID:2.44 in; Length:0.80 ft; Top MD:25.0 ftKB	
25.9			
27.2			
28.2			
30.2			
31.2			
319.2			
320.9			
362.2			
363.8			
394.0			
1,357.0		Des:Gas Lift Mandrel - 6; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:1,356.9 ftKB	
1,360.9			
1,913.1		Des:Gas Lift Mandrel - 5; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:1,913.1 ftKB	
1,917.3			
2,436.0		Des:Gas Lift Mandrel - 4; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:2,436.1 ftKB	
2,440.3			
2,653.9			
2,655.2			
2,694.9			
2,696.9			
2,707.0			
2,960.0		Des:Gas Lift Mandrel - 3; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:2,960.0 ftKB	
2,963.9			
3,450.5		Des:Gas Lift Mandrel - 2; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:3,450.4 ftKB	
3,454.4			
3,644.0			
3,646.0			
3,909.4		Des:Gas Lift Mandrel - 1; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:3,909.3 ftKB	
3,913.4			
4,398.6		Des:Profile Nipple (X); OD:2 7/8 in; ID:2.31 in; Length:1.20 ft; Top MD:4,398.7 ftKB	
4,399.9			
4,594.8		Des:Profile Nipple (XN w/ 2.205" no-go); OD:2 7/8 in; ID:2.31 in; Length:1.20 ft; Top MD:4,594.8 ftKB	
4,596.1			
4,628.3		Des:Tubing - Production; OD:2 7/8 in; ID:2.31 in; Length:4,603.84 ft; Top MD:25.0 ftKB	
4,628.9			
4,980.0			
5,002.0			
6,559.4			
6,581.0			
8,427.2			
8,449.1			
10,357.3			
10,379.3			
12,376.6			
12,380.6			
12,385.8			
12,389.8			
12,392.1			
12,436.4			
12,439.0			
12,441.6			
12,451.1			

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 270825

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 270825
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
andrew.fordyce	Accepted for record.	9/17/2025