

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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. **NMNM057164**

6. If Indian, Allottee or Tribe Name
NAVAJO NATION

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No. WEST LYBROOK EXPLORATORY UNIT/NMNM135216
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. GREATER LYBROOK UNIT/048H
2. Name of Operator ENDURING RESOURCES LLC		9. API Well No. 3004538283
3a. Address 200 ENERGY COURT, FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 497-8574	10. Field and Pool or Exploratory Area LYBROOK MANCOS W
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 23/T23N/R9W/NMP		11. 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 recompleate 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 perfonned 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 recompleation 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: 5182 MD
GLVs: 1357, 2044, 2665, 3253, 3809, 4333 MD
Job Start: 7.21.2023
Job End: 7.23.2023

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)

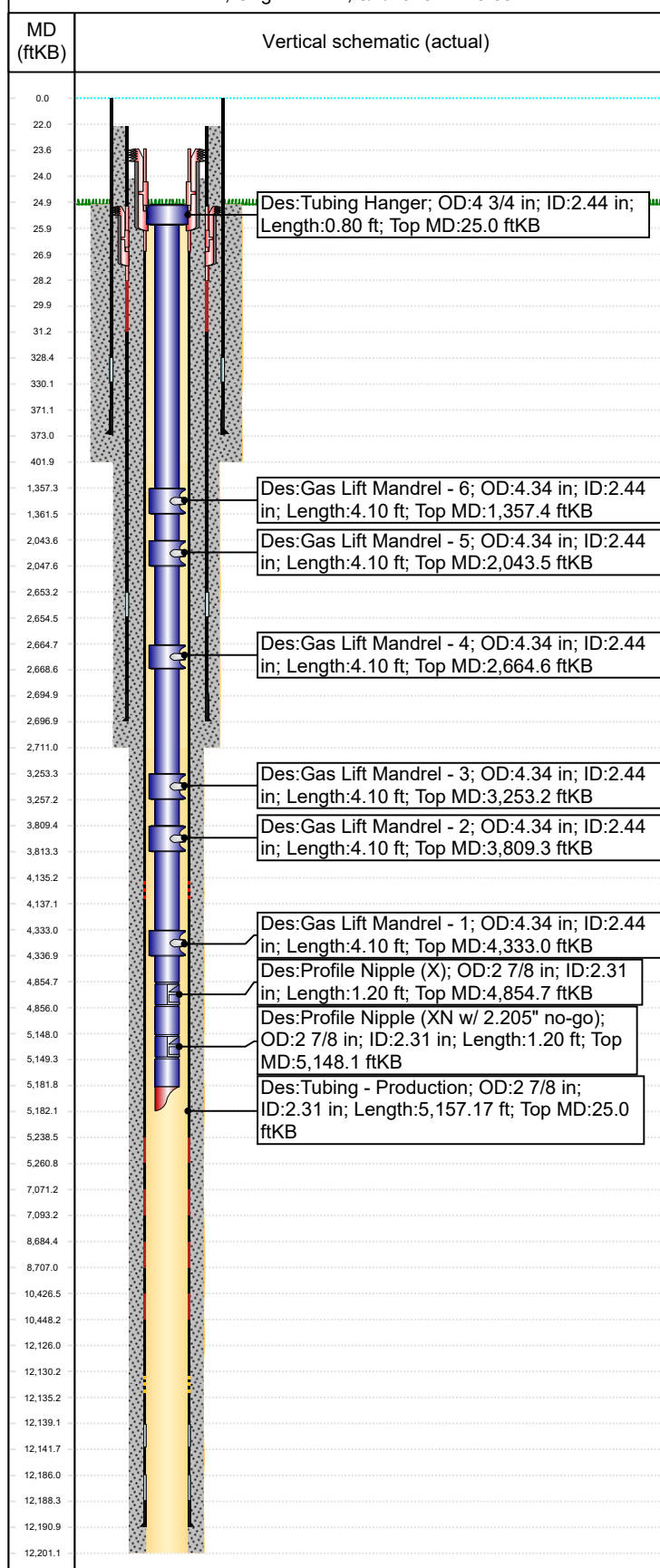


Enduring Resources IV - Production WBD

Well Name: GREATER LYBROOK UNIT 048H (EKA WLU 0781H) NOTE: Well schematic is drawn vertically due to space constraints on the report. Please reference the directional surveys as needed.

API/UWI 30-045-38283	Surface Legal Location SW SW Sec 26, TWP 23N - RNG 09W	Field Name Greater Lybrook	License #	State/Province New Mexico	Well Configuration Type Horizontal
Original KB Elevation (ft) 6,772.00	KB-Tubing Head Distance (ft)	Spud Date 3/6/2023 11:15	Rig Release Date 5/20/2023 23:30	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,606.4

Horizontal, Original Hole, 8/1/2023 11:48:09 AM



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	402.0	402.0
Intermediate 1	12 1/4	402.0	402.0	2,711.0	2,628.8
Production	8 1/2	2,711.0	2,628.8	12,201.0	4,606.4

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 5,182.2ftKB on 7/23/2023 15:00

Tubing Description		Run Date		String Length (ft)			Set Depth (ftKB)	
Tubing - Production		7/23/2023		5,157.17			5,182.2	
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	1,331.56	25.8	1,357.4
Gas Lift Mandrel - 6	1			4.335	2.44	4.10	1,357.4	1,361.5
Tubing	21	J-55	6.50	2 7/8	2.44	682.02	1,361.5	2,043.5
Gas Lift Mandrel - 5	1			4.335	2.44	4.10	2,043.5	2,047.6
Tubing	19	J-55	6.50	2 7/8	2.44	617.01	2,047.6	2,664.6
Gas Lift Mandrel - 4	1			4.335	2.44	4.10	2,664.6	2,668.7
Tubing	18	J-55	6.50	2 7/8	2.44	584.48	2,668.7	3,253.2
Gas Lift Mandrel - 3	1			4.335	2.44	4.10	3,253.2	3,257.3
Tubing	17	J-55	6.50	2 7/8	2.44	551.99	3,257.3	3,809.3
Gas Lift Mandrel - 2	1			4.335	2.44	4.10	3,809.3	3,813.4
Tubing	16	J-55	6.50	2 7/8	2.44	519.59	3,813.4	4,333.0
Gas Lift Mandrel - 1	1			4.335	2.44	4.10	4,333.0	4,337.1
Tubing	16	J-55	6.50	2 7/8	2.44	517.60	4,337.1	4,854.7
Profile Nipple (X)	1			2 7/8	2.31	1.20	4,854.7	4,855.9
Tubing	9	J-55	6.40	2 7/8	2.44	292.24	4,855.9	5,148.1
Profile Nipple (XN w/ 2.205" no-go)	1			2 7/8	2.31	1.20	5,148.1	5,149.3
Tubing	1	J-55	6.50	2 7/8	2.44	32.48	5,149.3	5,181.8
Half Mule Shoe - EOT is considered OV	1			2 7/8	2.44	0.40	5,181.8	5,182.2

Surface, 372.9ftKB

OD (in) 13 3/8	Wt/Len (lb/ft) 54.50	String Grade J-55	Top Connection Buttress Thread	Top (ftKB) 0.0	Set Depth (ftKB) 372.9	
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints			8	328.45	0.0	328.4
Float Collar			1	1.48	328.4	329.9
Casing Joints			1	41.10	329.9	371.0
Float Shoe			1	1.88	371.0	372.9

Intermediate, 2,696.8ftKB

OD (in) 9 5/8	Wt/Len (lb/ft) 36.00	String Grade J-55	Top Connection LTC	Top (ftKB) 22.1	Set Depth (ftKB) 2,696.8
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints		0	0.00	22.1	22.1
Pup Joint for Offline Cement		1	3.00	22.1	25.1
Landing Joint		0	0.00	25.1	25.1
Casing Hanger		1	3.20	25.1	28.3
Casing Pup Joint		1	3.00	28.3	31.3



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Horizontal, Original Hole, 8/1/2023 11:48:11 AM						
MD (ftKB)	Vertical schematic (actual)					
0.0						
22.0						
23.6						
24.0						
24.9		Des:Tubing Hanger; OD:4 3/4 in; ID:2.44 in; Length:0.80 ft; Top MD:25.0 ftKB				
25.9						
26.9						
28.2						
29.9						
31.2						
328.4						
330.1						
371.1						
373.0						
401.9						
1,357.3		Des:Gas Lift Mandrel - 6; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:1,357.4 ftKB				
1,361.5						
2,043.6		Des:Gas Lift Mandrel - 5; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:2,043.5 ftKB				
2,047.6						
2,653.2						
2,654.5						
2,664.7						
2,668.6		Des:Gas Lift Mandrel - 4; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:2,664.6 ftKB				
2,694.9						
2,696.9						
2,711.0						
3,253.3	Des:Gas Lift Mandrel - 3; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:3,253.2 ftKB					
3,257.2						
3,809.4	Des:Gas Lift Mandrel - 2; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:3,809.3 ftKB					
3,813.3						
4,135.2						
4,137.1						
4,333.0	Des:Gas Lift Mandrel - 1; OD:4.34 in; ID:2.44 in; Length:4.10 ft; Top MD:4,333.0 ftKB					
4,336.9						
4,854.7	Des:Profile Nipple (X); OD:2 7/8 in; ID:2.31 in; Length:1.20 ft; Top MD:4,854.7 ftKB					
4,856.0						
5,148.0	Des:Profile Nipple (XN w/ 2.205" no-go); OD:2 7/8 in; ID:2.31 in; Length:1.20 ft; Top MD:5,148.1 ftKB					
5,149.3						
5,181.8						
5,182.1	Des:Tubing - Production; OD:2 7/8 in; ID:2.31 in; Length:5,157.17 ft; Top MD:25.0 ftKB					
5,238.5						
5,260.8						
7,071.2						
7,093.2						
8,684.4						
8,707.0						
10,426.5						
10,448.2						
12,126.0						
12,130.2						
12,135.2						
12,139.1						
12,141.7						
12,186.0						
12,188.3						
12,190.9						
12,201.1						

Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints		65	2,621.93	31.3	2,653.2
Float Collar		1	1.20	2,653.2	2,654.4
Casing Joints		1	40.48	2,654.4	2,694.9
Float Shoe		1	1.90	2,694.9	2,696.8
Production, 12,191.0ftKB					
OD (in)	WT/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
5 1/2	17.00	P-110	LT&C	23.6	12,191.0
Item Des		Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints		0	0.00	23.6	23.6
Landing joint		0	0.00	23.6	23.6
Casing Hanger		1	3.20	23.6	26.8
Casing pup		1	3.00	26.8	29.8
Casing Joints		93	4,105.36	29.8	4,135.1
Air Lock		1	1.92	4,135.1	4,137.1
Casing Joints		25	1,101.58	4,137.1	5,238.6
Marker joint 4		1	22.22	5,238.6	5,260.9
Casing Joints		41	1,810.31	5,260.9	7,071.2
Marker joint 3		1	22.11	7,071.2	7,093.3
Casing Joints		36	1,591.22	7,093.3	8,684.5
Marker joint 2		1	22.45	8,684.5	8,706.9
Casing Joints		39	1,719.51	8,706.9	10,426.5
Marker joint 1		1	21.56	10,426.5	10,448.0
Casing Joints		38	1,678.09	10,448.0	12,126.1
Cross over		1	4.10	12,126.1	12,130.2
Toe sleeve		1	5.03	12,130.2	12,135.2
Cross over		1	3.98	12,135.2	12,139.2
Float Collar		1	2.42	12,139.2	12,141.6
Casing Joints		1	44.30	12,141.6	12,185.9
Float Collar		1	2.42	12,185.9	12,188.4
Float Shoe		1	2.65	12,188.4	12,191.0
Cement					
Description		Cementing Start Date		Cementing End Date	
Surface Casing Cement		3/8/2023		3/8/2023	
Comment					
Cement off line as follows: Pressure test lines 1500 psi, Pump 10 bbls FW spacer, 10 bbls mud clean, 10 bbls FW spacer, 354 sks (87 bbls) type 3 cement @ 14.6 ppg, 1.39 yield, 6.68 gps, drop plug and displace with 50.7 bbls FW, FCP 196 psi at 2 bbls/min, bump plug at 700 psi, check floats (Held), 30 bbls cement to surface. Bump plug @ 13:11 on 3/8/23, bleed back 1/4 bbl to truck, rig down and move off cement equipment.					
Description		Cementing Start Date		Cementing End Date	
Intermediate Casing Cement		4/9/2023		4/9/2023	
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: 198 bbls (519 sx) 90:10 Poz:Type III at 12.5 ppg, 2.14 ft3/sk, 12.05 gal H2O/sk. Pumped Tail Cement: 33.7 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 203.5 bbls FW. FCP at 800 psi and Bump Plug to 1300 psi @ 2.8 BPM, bled back 0.5 bbls, floats held. Maintained returns throughout job. Calculated 70 bbls to surface and got 45 bbls of good cement to surface. Top of Lead to surface and top of tail at 2,157 ft MD.					
Description		Cementing Start Date		Cementing End Date	
Production Casing Cement		5/19/2023		5/19/2023	
Comment					
Cement Summary: PJSM with American Cementing. Pressure tested lines to 5,000 psi. Pumped 60 bbls Intraguard Star @11.0 ppg. Pumped Lead Cement: 193 bbls (480 sx) ASTM Type I/II at 12.4 ppg, 2.26 ft3/sk, 12.70 gal H2O/sk. Pumped Tail Cement: 381 bbls (1368 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 281.7 bbls FW with cement retarder in 1st 50 bbls. FCP 1,690 -- psi Bump Plug at 4.0 bpm to 2,870- psi. Bled back 3.0 Bbls and floats held. Cement From 5:15 To 11:00 - 5/19/2023 Top of Tail: Calculated 2,877 ft MD. Top of Lead: Surface Cement Back 62 BBL, Calculated Back 57 bbl's Cement in place at 09:30 on 5/19/2023, Wash Through All Cement Lines, Rig Down American					

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 270834

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 270834
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

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