

**Well Name:** GREATER LYBROOK UNIT

**Well Location:** T23N / R9W / SEC 28 / NENW / 36.204663 / -107.79514

**County or Parish/State:** SAN JUAN / NM

**Well Number:** 774H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:** EASTERN NAVAJO

**Lease Number:** NMNM136267

**Unit or CA Name:**

**Unit or CA Number:** NMNM135255A, NMNM135255X

**US Well Number:** 3004535823

**Well Status:** Drilling Well

**Operator:** ENDURING RESOURCES LLC

### Subsequent Report

**Sundry ID:** 2689865

**Type of Submission:** Subsequent Report

**Type of Action:** Workover Operations

**Date Sundry Submitted:** 08/30/2022

**Time Sundry Submitted:** 03:18

**Date Operation Actually Began:** 08/18/2022

**Actual Procedure:** Enduring Resources performed a drillout and initial gas lift installation. An updated well schematic is attached. EOT: 4641' MD Packer: 4566' MD GLVs: 2083', 2849', 3407', 3932' MD Orifice Valve: 4525' MD Job Start: 08.18.2022 Job End: 08.27.2022

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**Operator**

*I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a*

**Operator Electronic Signature:** HEATHER HUNTINGTON

**Signed on:** AUG 30, 2022 03:19 PM

**Name:** ENDURING RESOURCES LLC

**Title:** Permitting Technician

**Street Address:** 200 Energy Court

**City:** Farmington **State:** NM

**Phone:** (505) 636-9751

**Email address:** HHUNTINGTON@ENDURINGRESOURCES.COM

**Field**

**Representative Name:**

**Street Address:**

**City:** **State:** **Zip:**

**Phone:**

**Email address:**

**BLM Point of Contact**

**BLM POC Name:** KENNETH G RENNICK

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5055647742

**BLM POC Email Address:** krennick@blm.gov

**Disposition:** Accepted

**Disposition Date:** 09/19/2022

**Signature:** Kenneth Rennick



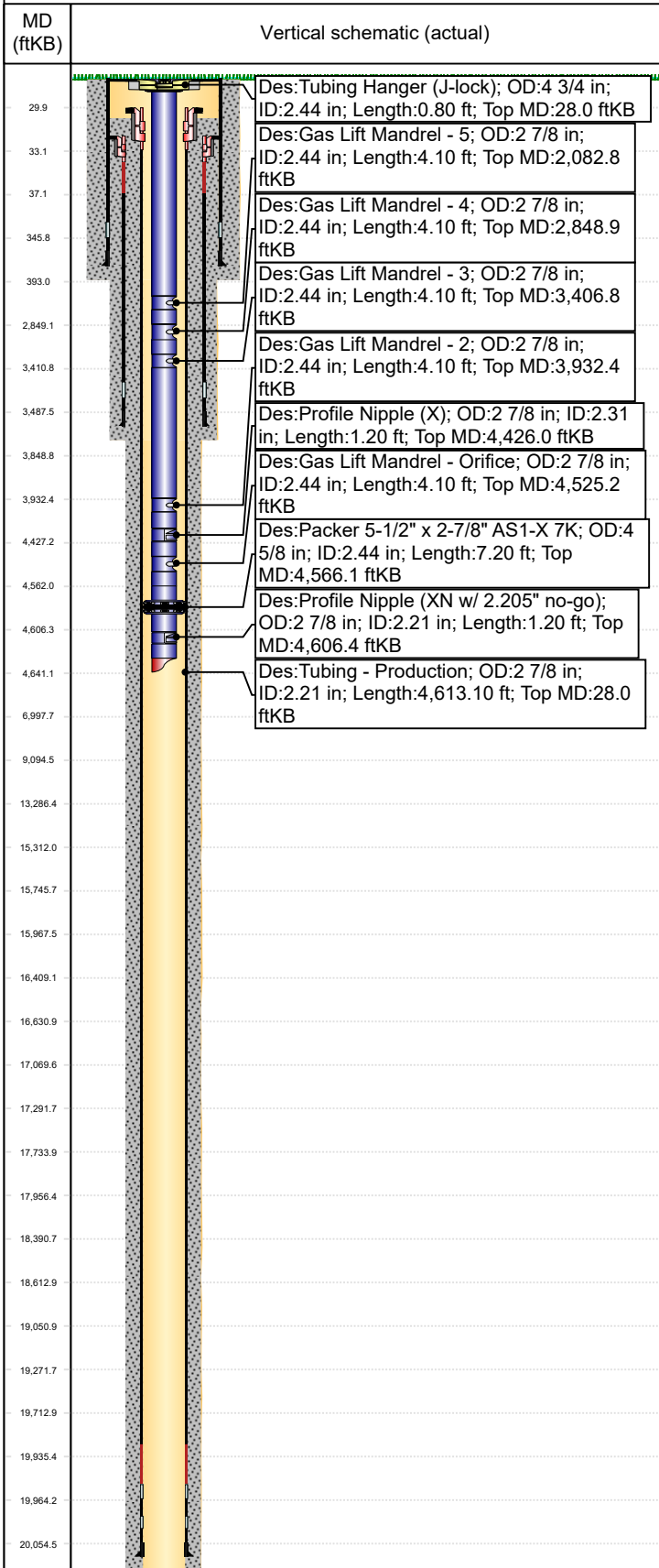
### Enduring Resources IV - Production WBD

Well Name: **GREATER LYBOOK UNIT 774H (KIMBETO WASH)**

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

API/UWI 30-045-35823	Surface Legal Location Unit C, NE/4, NW/4, Section 28, Twp 23N...	Field Name CHACO	License # NMNM136267	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 6,562.00	KB-Tubing Head Distance (ft)	Spud Date 3/21/2022 09:30	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,464.4

Horizontal, Original Hole, 8/29/2022 9:29:53 AM



Section Des	Size (in)	Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)
Surface	17 1/2	28.0	28.0	393.0	393.0
Intermediate	12 1/4	393.0	393.0	3,500.0	3,383.0
Production	8 1/2	3,500.0	3,383.0	20,066.0	4,464.4

Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing - Production	1	2 7/8	4,613.10	28.0	4,641.1

Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing - Production	1	L-80	6.50	2 7/8	2.44	2,054.04	28.8	2,082.8

Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger (J-lock)	1			4 3/4	2.44	0.80	28.0	28.8
Tubing	62	L-80	6.50	2 7/8	2.44	2,054.04	28.8	2,082.8
Gas Lift Mandrel - 5	1			2 7/8	2.44	4.10	2,082.8	2,086.9
Tubing	23	L-80	6.50	2 7/8	2.44	762.00	2,086.9	2,848.9
Gas Lift Mandrel - 4	1			2 7/8	2.44	4.10	2,848.9	2,853.0
Tubing	17	L-80	6.50	2 7/8	2.44	553.78	2,853.0	3,406.8
Gas Lift Mandrel - 3	1			2 7/8	2.44	4.10	3,406.8	3,410.9
Tubing	16	L-80	6.50	2 7/8	2.44	521.52	3,410.9	3,932.4
Gas Lift Mandrel - 2	1			2 7/8	2.44	4.10	3,932.4	3,936.5
Tubing	15	L-80	6.50	2 7/8	2.44	489.50	3,936.5	4,426.0
Profile Nipple (X)	1			2 7/8	2.31	1.20	4,426.0	4,427.2
Tubing	3	L-80	6.50	2 7/8	2.44	97.93	4,427.2	4,525.2
Gas Lift Mandrel - Orifice	1			2 7/8	2.44	4.10	4,525.2	4,529.3
Tubing	1	L-80	6.50	2 7/8	2.44	32.62	4,529.3	4,561.9
Tubing (pup jt)	1	L-80	6.50	2 7/8	2.44	4.20	4,561.9	4,566.1
Packer 5-1/2" x 2-7/8" AS1-X 7K	1		2.44	4 5/8	2.44	7.20	4,566.1	4,573.3
Tubing	1	L-80	6.50	2 7/8	2.44	33.10	4,573.3	4,606.4
Profile Nipple (XN w/ 2.205" no-go)	1			2 7/8	2.21	1.20	4,606.4	4,607.6
Tubing	1	L-80	6.50	2 7/8	2.44	33.11	4,607.6	4,640.7
Half Mule Shoe (without pump-out-plug)	1			2 7/8	2.44	0.40	4,640.7	4,641.1

OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
13 3/8	54.50	J-55	Buttress Thread	27.8	387.3

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	8	316.35	27.8	344.1
Float Collar	1	1.62	344.1	345.8
Casing Joints	1	39.70	345.8	385.5
Float Shoe	1	1.84	385.5	387.3

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	0	0.00	30.8	30.8
Landing joint	0	0.00	30.8	30.8



### Enduring Resources IV - Production WBD

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API/UWI 30-045-35823	Surface Legal Location Unit C, NE/4, NW/4, Section 28, Twp 23N...	Field Name CHACO	License # NMNM136267	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 6,562.00	KB-Tubing Head Distance (ft)	Spud Date 3/21/2022 09:30	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,464.4

Horizontal, Original Hole, 8/29/2022 9:29:55 AM		Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	
<div style="display: flex;"> <div style="flex: 1;"> <p style="text-align: center;">Vertical schematic (actual)</p> </div> <div style="flex: 2; font-size: small;"> <p>Des:Tubing Hanger (J-lock); OD:4 3/4 in; ID:2.44 in; Length:0.80 ft; Top MD:28.0 ftKB</p> <p>Des:Gas Lift Mandrel - 5; OD:2 7/8 in; ID:2.44 in; Length:4.10 ft; Top MD:2,082.8 ftKB</p> <p>Des:Gas Lift Mandrel - 4; OD:2 7/8 in; ID:2.44 in; Length:4.10 ft; Top MD:2,848.9 ftKB</p> <p>Des:Gas Lift Mandrel - 3; OD:2 7/8 in; ID:2.44 in; Length:4.10 ft; Top MD:3,406.8 ftKB</p> <p>Des:Gas Lift Mandrel - 2; OD:2 7/8 in; ID:2.44 in; Length:4.10 ft; Top MD:3,932.4 ftKB</p> <p>Des:Profile Nipple (X); OD:2 7/8 in; ID:2.31 in; Length:1.20 ft; Top MD:4,426.0 ftKB</p> <p>Des:Gas Lift Mandrel - Orifice; OD:2 7/8 in; ID:2.44 in; Length:4.10 ft; Top MD:4,525.2 ftKB</p> <p>Des:Packer 5-1/2" x 2-7/8" AS1-X 7K; OD:4 5/8 in; ID:2.44 in; Length:7.20 ft; Top MD:4,566.1 ftKB</p> <p>Des:Profile Nipple (XN w/ 2.205" no-go); OD:2 7/8 in; ID:2.21 in; Length:1.20 ft; Top MD:4,606.4 ftKB</p> <p>Des:Tubing - Production; OD:2 7/8 in; ID:2.21 in; Length:4,613.10 ft; Top MD:28.0 ftKB</p> </div> </div>	Casing Hanger	1	3.20	30.8	34.0		
	Casing Pup Joint	1	3.00	34.0	37.0		
	Casing Joints	86	3,409.34	37.0	3,446.4		
	Float Collar	1	1.50	3,446.4	3,447.9		
	Casing Joints	1	39.64	3,447.9	3,487.5		
	Float Shoe	1	1.90	3,487.5	3,489.4		
	<b>Production, 20,056.0ftKB</b>						
	OD (in) 5 1/2		Wt/Len (lb/ft) 20.00		String Grade P-110		Top Connection Buttress Thread
					Top (ftKB) 29.9	Set Depth (ftKB) 20,056.0	
			Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
			Marker Joint	0	0.00	29.9	29.9
			Casing Joints	0	0.00	29.9	29.9
			Casing Joint	0	0.00	29.9	29.9
			Landing Joint	0	0.00	29.9	29.9
			Hanger	1	3.20	29.9	33.1
		Pup Joint	1	3.00	33.1	36.1	
		Casing Joint	1	44.12	36.1	80.2	
		Casing Joints	86	3,768.58	80.2	3,848.8	
		Airlock	1	1.92	3,848.8	3,850.7	
		Marker Joint 7	1	15.70	3,850.7	3,866.4	
		Casing Joints	26	1,145.14	3,866.4	5,011.5	
		Marker Joint 6	1	17.23	5,011.5	5,028.7	
		Casing Joints	45	1,968.89	5,028.7	6,997.6	
		Marker Joint 5	1	17.55	6,997.6	7,015.2	
		Casing Joints	47	2,062.55	7,015.2	9,077.7	
		Marker Joint 4	1	16.90	9,077.7	9,094.6	
		Casing Joints	46	2,021.53	9,094.6	11,116.2	
		Marker Joint 3	1	17.97	11,116.2	11,134.1	
		Casing Joints	49	2,152.12	11,134.1	13,286.3	
		Marker Joint 2	1	16.02	13,286.3	13,302.3	
		Casing Joints	46	2,008.82	13,302.3	15,311.1	
		DDT Sub 22	1	0.84	15,311.1	15,311.9	
		Casing Joints	5	217.20	15,311.9	15,529.1	
		DDT Sub 21	1	0.84	15,529.1	15,530.0	
		Casing Joints	5	215.88	15,530.0	15,745.9	
		DDT Sub 20	1	0.84	15,745.9	15,746.7	
		Casing Joints	5	219.88	15,746.7	15,966.6	
		DDT Sub 19	1	0.84	15,966.6	15,967.4	
		Casing Joints	5	220.66	15,967.4	16,188.1	
		DDT Sub 18	1	0.84	16,188.1	16,188.9	
		Casing Joints	5	220.14	16,188.9	16,409.1	
		DDT Sub 17	1	0.84	16,409.1	16,409.9	
		Casing Joints	5	220.30	16,409.9	16,630.2	
		DDT Sub 16	1	0.84	16,630.2	16,631.0	
		Casing Joints	5	220.25	16,631.0	16,851.3	
		DDT Sub 15	1	0.84	16,851.3	16,852.1	
		Casing Joints	5	217.54	16,852.1	17,069.7	
		DDT Sub 14	1	0.84	17,069.7	17,070.5	
		Casing Joints	5	220.47	17,070.5	17,291.0	
		DDT Sub 13	1	0.84	17,291.0	17,291.8	
		Casing Joints	5	220.49	17,291.8	17,512.3	
		DDT Sub 12	1	0.84	17,512.3	17,513.2	
		Casing Joints	5	220.68	17,513.2	17,733.8	
		DDT Sub 11	1	0.84	17,733.8	17,734.7	
		Casing Joints	5	220.82	17,734.7	17,955.5	
		DDT Sub 10	1	0.84	17,955.5	17,956.3	
		Casing Joints	5	219.77	17,956.3	18,176.1	
		DDT Sub 9	1	0.84	18,176.1	18,176.9	
		Casing Joints	5	213.80	18,176.9	18,390.7	
		DDT Sub 8	1	0.84	18,390.7	18,391.6	



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Original KB Elevation (ft) 6,562.00	KB-Tubing Head Distance (ft)	Spud Date 3/21/2022 09:30	Rig Release Date	PBTD (All) (ftKB)	Total Depth All (TVD) (ftKB) Original Hole - 4,464.4

Horizontal, Original Hole, 8/29/2022 9:29:57 AM		Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)		
MD (ftKB)		Casing Joints	5	220.50	18,391.6	18,612.1		
		DDT Sub 7	1	0.84	18,612.1	18,612.9		
		Casing Joints	5	219.52	18,612.9	18,832.4		
		DDT Sub 6	1	0.84	18,832.4	18,833.3		
		Casing Joints	5	217.44	18,833.3	19,050.7		
		DDT Sub 5	1	0.84	19,050.7	19,051.6		
		Casing Joints	5	219.17	19,051.6	19,270.7		
		DDT Sub 4	1	0.84	19,270.7	19,271.6		
		Casing Joints	5	220.67	19,271.6	19,492.2		
		DDT Sub 3	1	0.84	19,492.2	19,493.1		
		Casing Joints	5	219.91	19,493.1	19,713.0		
		DDT Sub 2	1	0.84	19,713.0	19,713.8		
		Casing Joints	5	220.62	19,713.8	19,934.5		
		DDT Sub 1	1	0.84	19,934.5	19,935.3		
		Toe Sleeve	1	5.10	19,935.3	19,940.4		
		Marker Joint	1	21.89	19,940.4	19,962.3		
		Float Collar	1	1.92	19,962.3	19,964.2		
		Casing Joints	1	44.14	19,964.2	20,008.3		
		Float Collar	1	1.92	20,008.3	20,010.3		
		Casing Joints	1	44.11	20,010.3	20,054.4		
		Float Shoe	1	1.63	20,054.4	20,056.0		
		<b>Cement</b>						
		Description		Cementing Start Date	Cementing End Date			
		Surface Casing Cement		3/22/2022	3/22/2022			
		Comment						
PJSJ, 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 49 bbls good cmt to surface								
Description		Cementing Start Date	Cementing End Date					
Intermediate Casing Cement		4/28/2022	4/28/2022					
Comment								
Cement Offline as follows: PJSJ with Drake Energy Services. Pressure tested lines to 2,000 psi. Pumped 10 bbls FW, 20 bbls D-Mud Breaker, & 10 bbls of FW. Pumped Lead Cement: 267.0 bbls (701 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 264 bbls FW. FCP at 1100 psi Bumped Plug at 1690 psi On Well. Maintained returns throughout job. Calculated 64 bbls to surface and got 64 bbls of good cement to surface. Top of Lead to surface and top of tail at 2,958 - ft MD. Released Rig @ 06:00 4/28/2022 to the Kimbeto Wash Unit 793 H. (Cement 07:20 Hour's To 09:56 Hour's on -4/28/2022 )								
Description		Cementing Start Date	Cementing End Date					
Production Casing Cement		5/13/2022	5/13/2022					
Comment								
Cement Summary: PJSJ with American Cementing. Pressure tested lines to 5100 psi. Pumped 60 bbls Intraguard Star @ 11.0 ppg. Pumped Lead Cement: 162. bbls (471 sx) ASTM Type I/II at 12.4 ppg, 2.36 ft3/sk, 13.39 gal H2O/sk. Pumped Tail Cement: 744 bbls (1463 sx) Class G Cement at 13.3 ppg, 1.56 ft3/sk, 7.69 gal H2O/sk. Washed lines, dropped plug & began displacement. Displaced with 442.5 bbls FW with cement retarder in 1st 50 bbls. FCP at 2,020 psi Bump Plug at 4.0 bpm to 2,980 psi. Bled back 4.5 Bbls and floats held. Rig Released @02:00 - 5/13/2022 Cement From 03:20 To 08:00 - 5/13/2022								
Top of Tail: Calculated 2,105 ft MD. Tof of Lead: surface Cement Back 62 BBL, Calculated Back 62 bbl's								
Cement in place at 08:00 on 5/13/2022								

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 146167

**CONDITIONS**

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 146167
	Action Type: [C-103] Sub. Workover (C-103R)

**CONDITIONS**

Created By	Condition	Condition Date
andrew.fordyce	None	12/3/2025