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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM110324

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
LYBROOK 2308-24I/156H

2. Name of Operator ENDURING RESOURCES LLC

9. API Well No. 3004535548

3a. Address 200 ENERGY COURT, FARMINGTON, NM 8740

3b. Phone No. *(include area code)* (505) 497-8574

10. Field and Pool or Exploratory Area
BASIN MANCOS/BASIN MANCOS

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 24/T23N/R8W/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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other MIT TEST
	☐ 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 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 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 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 detennined that the site is ready for final inspection.)

Enduring Resources plans on conducting an MIT test to investigate a possible integrity issue as the result of a failed bradenhead test. Proposed procedure and wellbore diagram are attached.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
HEATHER HUNTINGTON / Ph: (505) 636-9751

Title Permitting Technician

Signature (Electronic Submission)

Date 12/20/2024

THE SPACE FOR FEDERAL OR STATE OFICE USE

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

Title Petroleum Engineer

Date 12/20/2024

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)

Additional Information

Location of Well

0. SHL: NESE / 1524 FSL / 233 FEL / TWSP: 23N / RANGE: 8W / SECTION: 24 / LAT: 36.2093878 / LONG: -107.6250758 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 386 FSL / 384 FEL / TWSP: 23N / RANGE: 8W / SECTION: 24 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

BHL: SWSW / 1224 FSL / 255 FWL / TWSP: 23N / RANGE: 8W / SECTION: 24 / LAT: 0.0 / LONG: 0.0 (TVD: 0 feet, MD: 0 feet)

ENDURING RESOURCES
WORKOVER PROCEDURE & AFE

Date: **12/19/2024**

Prepared By: **Jennifer Korinek**

WELL NAME: **Lybrook 2308-24I 156H (fka Chaco)**
API NUMBER: **30-045-35548**
AFE NUMBER: **WO01960**
ER WELL NUMBER: **NM06249.01**
AREA / RUN: **LYBROOK Run 7**
LEASE OPERATOR / PHONE: **Paul Bannowsky (505) 444-0728, Cody McInnes (505) 386-8752, Andy Lee (505) 368-8068**
SURFACE LOCATION: **1524 ft FSL 233 ft FEL NE SE Sec 24, T23N-R8W**
SURFACE LOCATION: **36.20939 ° N latitude & 107.62509 ° W longitude (NAD 1983)**
DRIVING DIRECTIONS: **From the intersection of US HWY 64 & US HWY 550 in Bloomfield, NM:** South on US HWY 550 to MM 112.7; South (Right) on CR #7900 for 1.7 miles; East (Left) exiting CR #7900 onto dirt oilfield road and continue for 0.6 miles to fork: North (Left) for 0.5 miles to fork; East (Right) continuing on existing road for 6 miles to location. The 156H is one of two wells on the pad (155H and 156H) and is the eastern-most well and furthest from the location entrance.

ARTIFICIAL LIFT TYPE: Rod Pump w/ Hydraulic Unit
CHEMICAL TREATMENT: Scale Inhibitor/biocide batch treatment
LAST WO DATE: 5/14/2024
LAST WO SUMMARY: HIT; 6 bad tbg jts on bottom of tbg string

REASON FOR WOKROVER: HIT, failed bradenhead test (deadline to repair - 3/9/25)
WORKOVER SUMMARY: Pull rods & pump; pull tubing, inspect wellhead, perform MIT, hunt w/ RBP & PKR for csg leak, squeeze csg if necessary, re-install tbg & rods

	BOD	MCFD	BWD	MCFD (inj)
CURRENT PRODUCTION:	0	0	0	
EXPECTED PRODUCTION:	20	10	10	
VARIANCE PRODUCTION:	**-20**	**-10**	**-10**	**0**

	JOB COST	PO (UnD)	ROR	PW10
ECONOMIC SUMMARY:	$97,000	1.9	100%	$1,094,400
	WI:	100.00%	NRI:	87.50%

WORKOVER PROCEDURE:

* ***This well has a hydraulic pumping unit on it which requires specific important shut down and start up procedures. The unit must be shut down at full stroke out before locking the pump. Contact SPI to assist in shut down and start up.***
* ***This well had a failed Bradenhead test. We will need to file a Notice of Intent w/ WBD to the NMOCD & allow the NMOCD a 24-hr notice prior to MIT'ing the well. Please contact Monica Kuehling at (505) 320-0243.***
* *Notify Enduring Resources Production Supervisor prior to beginning job.*

* *Conduct safety meetings daily (at a minimum) with all personnel on location. Additional safety meetings may be required and are encouraged before starting new tasks.*
* *Drift all tubulars before TIH.*
** *Casing: 7" 23# K55 0' to 5,825' MD, 4-1/2" 11.6# P110 liner 5,695' to 10,537' MD top @ 80° inclination*
** *Current EOT @ 5,660' MD @ 80° inclination, anchor set @5,377' MD @ 55° incl*
** *Perforations: Top perf @ 5,867' MD. 90° inclination @ 5,875' MD*

1) Prior to MIRU rig and equipment, verify location is in sound condition and ready for a workover rig. Rig will have a base beam (no anchors are required).
2) MIRU workover rig. Ensure rig has rod handling equipment and 2-7/8" tubing handling equipment.
3) **Inspect wellhead. Contact WSI to test wellhead. If any issues identified, please discuss plans to replace wellhead components with team, and discuss necessity of MIT w/ NMOCD & BLM.**
4) RU flow-back tank and hard-line. Blow down tubing and casing to flowback tank.
5) Load and pressure test tubing to 500 psig with rig pump. Note if pressure holds.
6) RU rod handling equipment. Remove horse's head from pumping unit. Remove stuffing box. Attempt to unseat pump. Hot oil tubing per step 7. TOOH w/PR, rod subs, and 1 rod. Re-install PR. Re-install stuffing box.
7) MIRU hot oiler. If unable to unseat pump, heat 70 bbls hot water and pump down the casing and work rods to attempt to free pump. If pump does not unseat, work rods up to 28K lbs over string weight (maximum for 3/4" rods) and attempt to part shear tool.
8) After unseating pump, mix 5 gallons Creedence dispersant with 40 bbls heated water. Pump down tubing to clear rods and tubing of any paraffin. RDMO hot oiler.
9) Remove stuffing box. LD PR. TOOH with rods and pump. Visually inspect rods and couplings. LD and replace any rods with severely worn guides. Replace any worn couplings. Note location and quantity of worn rods. LD pump and send to SPI for R&R. Pump will be re-run after R&R. If signficant scale present, ensure new pump barrel is Brass Nicarb.
10) ND wellhead and flow-lines. NU 7-1/16" 3M BOPE (double rams and supreme head) BOP. Test BOPE connection to wellhead against pipe rams to 1,500 psig for 5 minutes.
11) Release tubing hanger. Release tubing anchor. Prepare to scan tubing.
12) MIRU NOV Well Check tubing scanners. TOOH with production tubing string and scan tubing while TOOH. Stand back tubing. At minimum, LD any tubing joints graded red-band and green-band. Take note of any scale, corrosion, pitting, rod wear/cut, or any other damage on the tubing. Send NOV report to Greg Olson and discuss replacing any additional joints. Inspect tubing anchor and send to Endurance for R&R if required. Otherwise, re-run it. Note: Any joints that are laid down because of down-grades should be sent to NOV Tuboscope's yard and placed in Enduring's pipe inventory. Do NOT inspect these joints upon arrival at Tuboscope since they have already been inspected with Well Check on-site.

13) **Perform MIT. Prior to MIT, please notify BLM & NMOCD 24-hrs in advance.** TIH w/ RBP & set at 5645'. RIH with 7" packer and tubing. Set packer at 5575' and pressure test RBP to 550 psi for 30 minutes. Pressure test 7" casing to 550 psig for 30 minutes. Record test with chart recorder and ensure less than 10% leakoff during test period.. Perform MIT with witnesses, and send MIT test report w/ chart to BLM & NMOCD. Establish next steps w/ BLM & NMOCD based on results.
14) TIH with tubing string and BHA (no design changes recommended). Run a new SN. Run yellow band 2-7/8" J-55 tubing to replace any joints that were removed from the string.
15) Set tubing anchor. Land tubing hanger with tubing in 8K - 12K lbs tension. ND BOPE. NU WH.

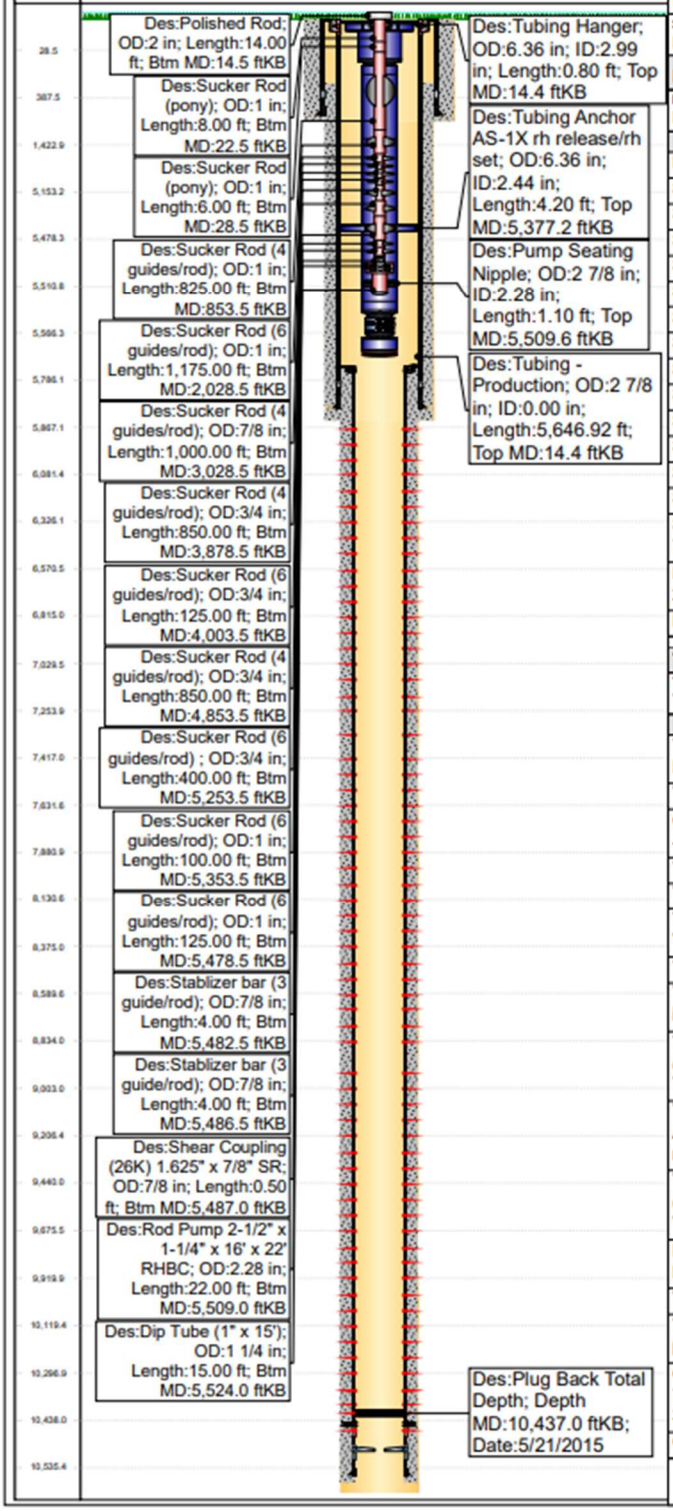
WellView

Enduring Resources IV - Production WBD with perfs

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
30-045-35548	CHACO 2308-24I 156H	CHACO		NEW MEXICO	Horizontal
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
6,898.50		11/15/2014 16:00	3/30/2015 18:00	Original Hole - 10,437.0	Original Hole - 5,119.0

Horizontal, Original Hole, 12/19/2024 3:21:41 PM



Wellbore Sections

Section Description	Size (in)	Act Top (ft...	Act Top (T...	Act Btm (ft...	Act Btm (T...
SURFACE	12 1/4	14.5		420.0	420.0
INTERMEDIATE	8 3/4	420.0	420.0	5,830.0	5,175.2
PRODUCTION	6 1/8	5,830.0	5,175.2	10,539.0	5,119.0

Rod Strings

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)
Rod String	5/14/2024	5,523.50	5,524.0

Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1	2	14.00	0.5	14.5
Sucker Rod (pony)	1	1	8.00	14.5	22.5
Sucker Rod (pony)	1	1	6.00	22.5	28.5
Sucker Rod (4 guides/rod)	33	1	825.00	28.5	853.5
Sucker Rod (6 guides/rod)	47	1	1,175.00	853.5	2,028.5
Sucker Rod (4 guides/rod)	40	7/8	1,000.00	2,028.5	3,028.5
Sucker Rod (4 guides/rod)	34	3/4	850.00	3,028.5	3,878.5
Sucker Rod (6 guides/rod)	5	3/4	125.00	3,878.5	4,003.5
Sucker Rod (4 guides/rod)	34	3/4	850.00	4,003.5	4,853.5
Sucker Rod (6 guides/rod)	16	3/4	400.00	4,853.5	5,253.5
Sucker Rod (6 guides/rod)	4	1	100.00	5,253.5	5,353.5
Sucker Rod (6 guides/rod)	6	1	125.00	5,353.5	5,478.5
Stablizer bar (3 guide/rod)	1	7/8	4.00	5,478.5	5,482.5
Stablizer bar (3 guide/rod)	1	7/8	4.00	5,482.5	5,486.5
Shear Coupling (26K) 1.625" x 7/8" SR	1	7/8	0.50	5,486.5	5,487.0
Rod Pump 2-1/2" x 1-1/4" x 16' x 22' RHBC	1	2.28	22.00	5,487.0	5,509.0
Dip Tube (1" x 15')	1	1 1/4	15.00	5,509.0	5,524.0

Tubing - Production set at 5,661.4ftKB on 5/13/2024 15:45

Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	5/13/2024	5,646.92	5,661.4

Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger	1			6.36	2.99	0.80	14.4	15.2
Tubing - YB	1	N-80	9.30	3 1/2	2.99	31.10	15.2	46.3
Cross Over (3 -1/2" x 2-7/8")	1	L-80		3 1/2	2.44	0.80	46.3	47.1
Tubing - YB	1	L-80	6.50	2 7/8	2.44	31.25	47.1	78.4
Tubing - BB	31	L-80	6.50	2 7/8	2.44	971.01	78.4	1,049.4
Tubing - YB/BB	12	L-80	6.50	2 7/8	2.44	373.48	1,049.4	1,422.9
Tubing - YB	120	L-80	6.50	2 7/8	2.44	3,730.32	1,422.9	5,153.2
Tubing - YB f/ inventory	6	J-55	6.50	2 7/8	2.44	192.75	5,153.2	5,345.9
Tubing (Boronized) TB	1	L-80	6.50	2 7/8	2.44	31.25	5,345.9	5,377.2
Tubing Anchor AS-1X rh release/rh set	1			6.36	2.44	4.20	5,377.2	5,381.4
Tubing (Boronized) YB	4	L-80	6.50	2 7/8	2.44	128.22	5,381.4	5,509.6
Pump Seating Nipple	1	L-80	6.50	2 7/8	2.28	1.10	5,509.6	5,510.7
Tubing - BB	1	L-80	6.50	2 7/8	2.44	31.02	5,510.7	5,541.7
Tubing (4' pup)	1	L-80	6.50	2 7/8	2.44	4.20	5,541.7	5,545.9
Cross Over 2-7/8" box x 2-3/8" pin	1	L-80		2 7/8	2.00	0.60	5,545.9	5,546.5
Gas separator	1			2 3/8	2.00	9.75	5,546.5	5,556.3

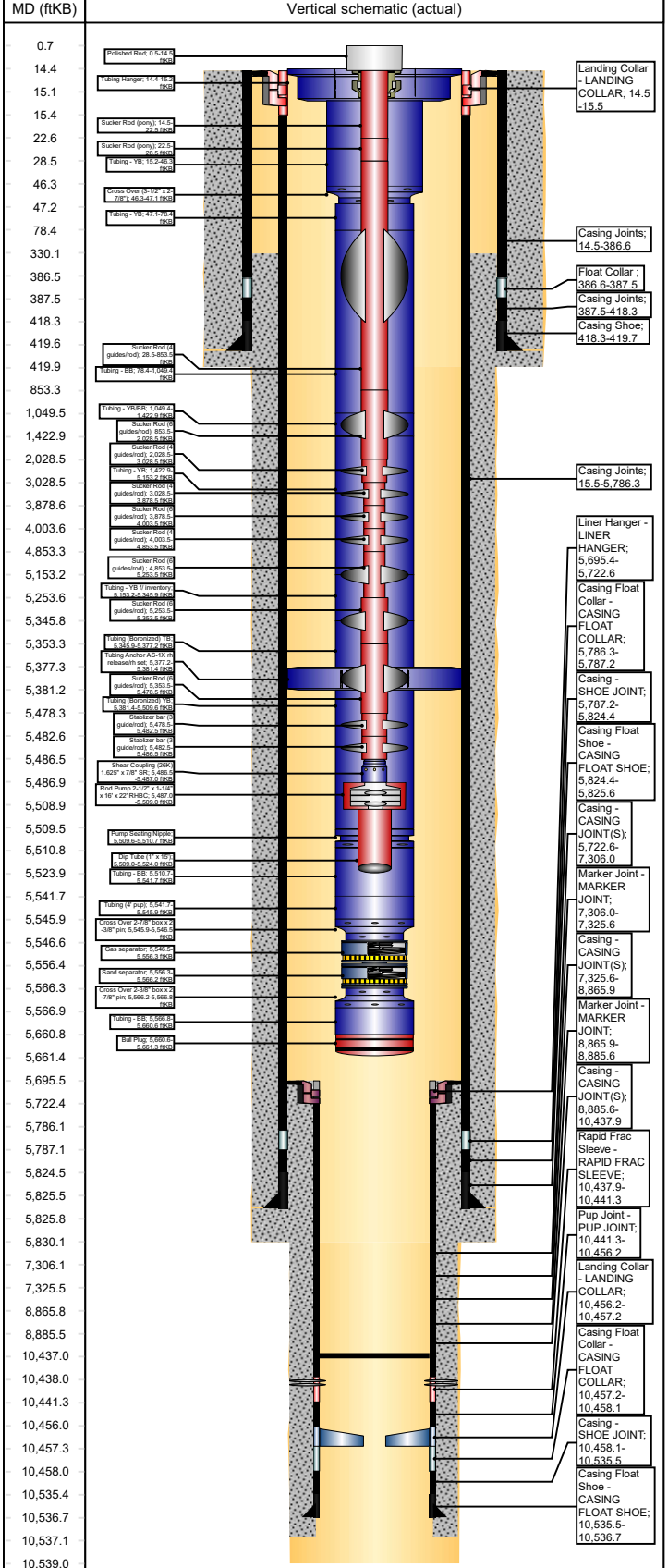
WellView

Wellbore Schematic - Components and Cement

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

API/UWI	County	State/Province	Surface Legal Location
30-045-35548	SAN JUAN	NEW MEXICO	CHACO 2308-24I 156H

Spud Date	On Production Date	Abandon Date	Ground Elevation (ft)	Original KB Elevation (ft)	Total Depth (All) (ftKB)	PBTD (All) (ftKB)
11/15/2014	5/23/2015		6,884.00	6,898.50	Original Hole - 10,539.0	Original Hole - 10,437.0



Other Strings

String Description	String Length (ft)	Set Depth (ftKB)	Run Date

Other In Hole

Des	String	Top (ftKB)	Btm (ftKB)	Run Date

Rod Strings

Rod String on 5/14/2024 09:30

Rod Description	String Length (ft)	Set Depth (ftKB)	Run Date
Rod String	5,523.50	5,524.0	5/14/2024

Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Polished Rod	2	14.00	0.5	14.5
1	Sucker Rod (pony)	1	8.00	14.5	22.5
1	Sucker Rod (pony)	1	6.00	22.5	28.5
33	Sucker Rod (4 guides/rod)	1	825.00	28.5	853.5
47	Sucker Rod (6 guides/rod)	1	1,175.00	853.5	2,028.5
40	Sucker Rod (4 guides/rod)	7/8	1,000.00	2,028.5	3,028.5
34	Sucker Rod (4 guides/rod)	3/4	850.00	3,028.5	3,878.5
5	Sucker Rod (6 guides/rod)	3/4	125.00	3,878.5	4,003.5
34	Sucker Rod (4 guides/rod)	3/4	850.00	4,003.5	4,853.5
16	Sucker Rod (6 guides/rod)	3/4	400.00	4,853.5	5,253.5
4	Sucker Rod (6 guides/rod)	1	100.00	5,253.5	5,353.5
6	Sucker Rod (6 guides/rod)	1	125.00	5,353.5	5,478.5
1	Stablizer bar (3 guide/rod)	7/8	4.00	5,478.5	5,482.5
1	Stablizer bar (3 guide/rod)	7/8	4.00	5,482.5	5,486.5
1	Shear Coupling (26K) 1.625" x 7/8" SR	7/8	0.50	5,486.5	5,487.0
1	Rod Pump 2-1/2" x 1-1/4" x 16' x 22' RHBC	2.28	22.00	5,487.0	5,509.0
1	Dip Tube (1" x 15')	1 1/4	15.00	5,509.0	5,524.0

Tubing Strings

Tubing - Production set at 5,661.4ftKB on 5/13/2024 15:45

Tubing Description	Len (ft)	Set Depth (f...	Run Date	Cut/Pull Date	Depth C...
Tubing - Production	5,646.92	5,661.4	5/13/2024		

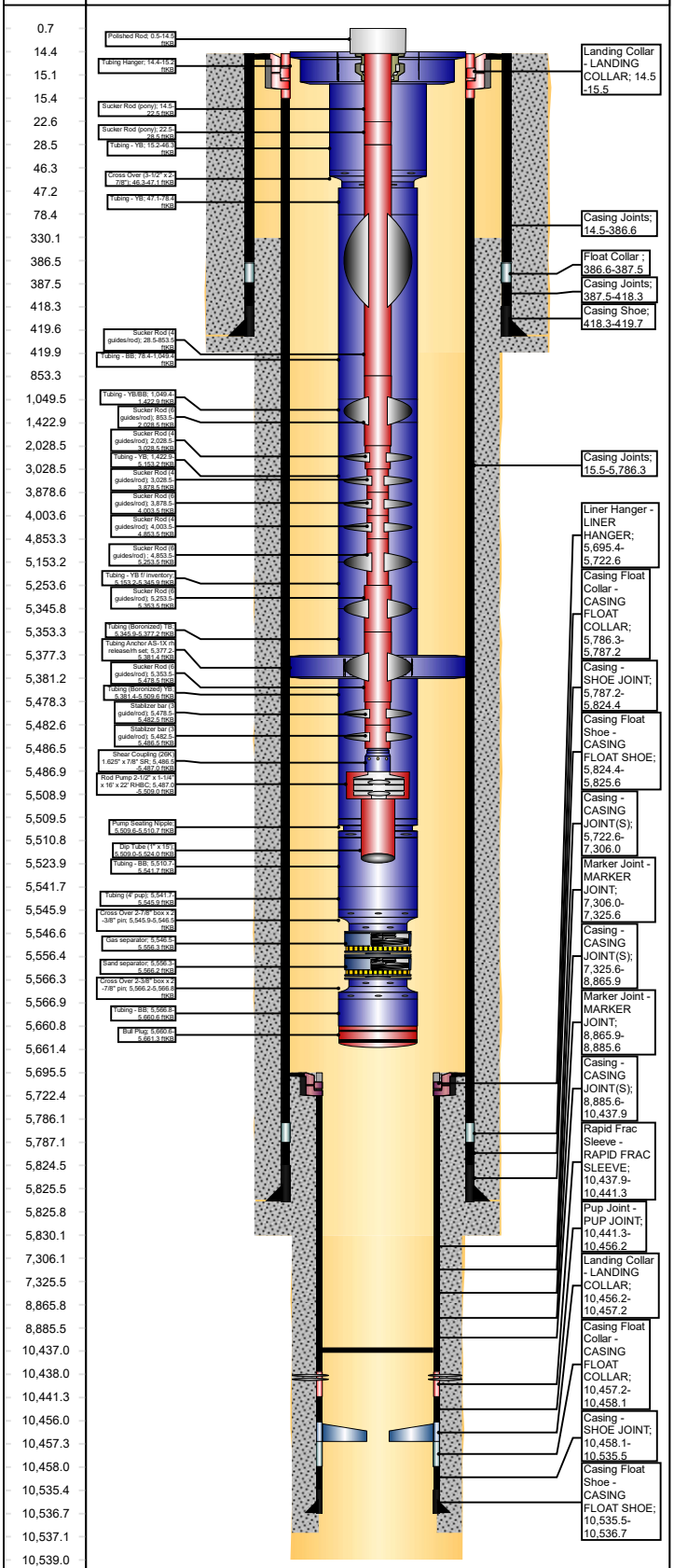
Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	Grade	Wt (lb/ft)
1	Tubing Hanger	6.36	0.80	14.4	15.2		
1	Tubing - YB	3 1/2	31.10	15.2	46.3	N-80	9.30
1	Cross Over (3-1/2" x 2-7/8")	3 1/2	0.80	46.3	47.1	L-80	
1	Tubing - YB	2 7/8	31.25	47.1	78.4	L-80	6.50
31	Tubing - BB	2 7/8	971.01	78.4	1,049.4	L-80	6.50
12	Tubing - YB/BB	2 7/8	373.48	1,049.4	1,422.9	L-80	6.50
120	Tubing - YB	2 7/8	3,730.32	1,422.9	5,153.2	L-80	6.50
6	Tubing - YB f/ inventory	2 7/8	192.75	5,153.2	5,345.9	J-55	6.50
1	Tubing (Boronized) TB	2 7/8	31.25	5,345.9	5,377.2	L-80	6.50
1	Tubing Anchor AS-1X rh release/rh set	6.36	4.20	5,377.2	5,381.4		
4	Tubing (Boronized) YB	2 7/8	128.22	5,381.4	5,509.6	L-80	6.50
1	Pump Seating Nipple	2 7/8	1.10	5,509.6	5,510.7	L-80	6.50
1	Tubing - BB	2 7/8	31.02	5,510.7	5,541.7	L-80	6.50
1	Tubing (4' pup)	2 7/8	4.20	5,541.7	5,545.9	L-80	6.50
1	Cross Over 2-7/8" box x 2-3/8" pin	2 7/8	0.60	5,545.9	5,546.5	L-80	
1	Gas separator	2 3/8	9.75	5,546.5	5,556.3		
1	Sand separator	2 3/8	9.95	5,556.3	5,566.2		
1	Cross Over 2-3/8" box x 2-7/8" pin	2 7/8	0.60	5,566.2	5,566.8		
3	Tubing - BB	2 7/8	93.82	5,566.8	5,660.7	L-80	6.50
1	Bull Plug	2 7/8	0.70	5,660.7	5,661.4	L-80	6.50

WellView

Wellbore Schematic - Components and Cement

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

Horizontal, Original Hole, 12/19/2024 2:15:56 PM



Casing Strings

PRODUCTION LINER, 10,536.7ftKB

Casing Description	OD (in)	Wt/Len (lb/ft)	String Grade	Top (ftKB)	Set Depth…	Depth C…	ID (in)
PRODUCTION LINER	4 1/2	11.60	P-110	5,695.4	10,536.7		4.00

Casing Components

Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Liner Hanger - LINER HANGER	1	4 1/2	4.00	0.00	HOWCO	27.18
Casing - CASING JOINT(S)	37	4 1/2	4.00	11.60	P-110	1,583.44
Marker Joint - MARKER JOINT	1	4 1/2	4.00	11.60	P-110	19.61
Casing - CASING JOINT(S)	37	4 1/2	4.00	11.60	P-110	1,540.29
Marker Joint - MARKER JOINT	1	4 1/2	4.00	11.60	P-110	19.70
Casing - CASING JOINT(S)	37	4 1/2	4.00	11.60	P-110	1,552.32
Rapid Frac Sleeve - RAPID FRAC SLEEVE	1	4 1/2	4.00	0.00	HOWCO	3.34
Pup Joint - PUP JOINT	1	4 1/2	4.00	11.60	P-110	14.91
Landing Collar - LANDING COLLAR	1	4 1/2	4.00	0.00	HOWCO	1.03
Casing Float Collar - CASING FLOAT COLLAR	1	4 1/2	4.00	0.00	HOWCO	0.87
Casing - SHOE JOINT	2	4 1/2	4.00	11.60	P-110	77.40
Casing Float Shoe - CASING FLOAT SHOE	1	4 1/2	4.00	0.00	HOWCO	1.23

INTERMEDIATE CASING, 5,825.6ftKB

Casing Description	OD (in)	Wt/Len (lb/ft)	String Grade	Top (ftKB)	Set Depth…	Depth C…	ID (in)
INTERMEDIATE CASING	7	23.00	K-55	14.5	5,825.6		6.37

Casing Components

Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Landing Collar - LANDING COLLAR	1	7	6.37	23.00	K-55	1.00
Casing Joints	154	7	6.37	23.00	K-55	5,770.75
Casing Float Collar - CASING FLOAT COLLAR	1	7	6.37	23.00	HOWCO	0.95
Casing - SHOE JOINT	1	7	6.37	23.00	K-55	37.19
Casing Float Shoe - CASING FLOAT SHOE	1	7	6.37	23.00	HOWCO	1.25

SURFACE CASING, 419.7ftKB

Casing Description	OD (in)	Wt/Len (lb/ft)	String Grade	Top (ftKB)	Set Depth…	Depth C…	ID (in)
SURFACE CASING	9 5/8	36.00	J-55	14.5	419.7		8.92

Casing Components

Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)
Casing Joints	15	9 5/8	8.92	36.00	J-55	372.07
Float Collar	1	9 5/8	8.92		J-55	0.90
Casing Joints	1	9 5/8	8.92	36.00	J-55	30.83
Casing Shoe	1	9 5/8	8.92		J-55	1.42

Cement

SURFACE CASING, Casing, 11/6/2014 17:09

Description	String	Cementing Start Date	Cementing End Date
SURFACE CASING	SURFACE CASING, 419.7ftKB	11/6/2014 17:09	11/6/2014 17:40

Cement Stages

Stg #	Top (ftKB)	Btm (ftKB)	Com
1	14.5	419.7	

Intermediate Casing Cement, Casing, 3/25/2015 12:52

Description	String	Cementing Start Date	Cementing End Date
Intermediate Casing Cement	INTERMEDIATE CASING, 5,825.6ftKB	3/25/2015 12:52	3/25/2015 16:28

Cement Stages

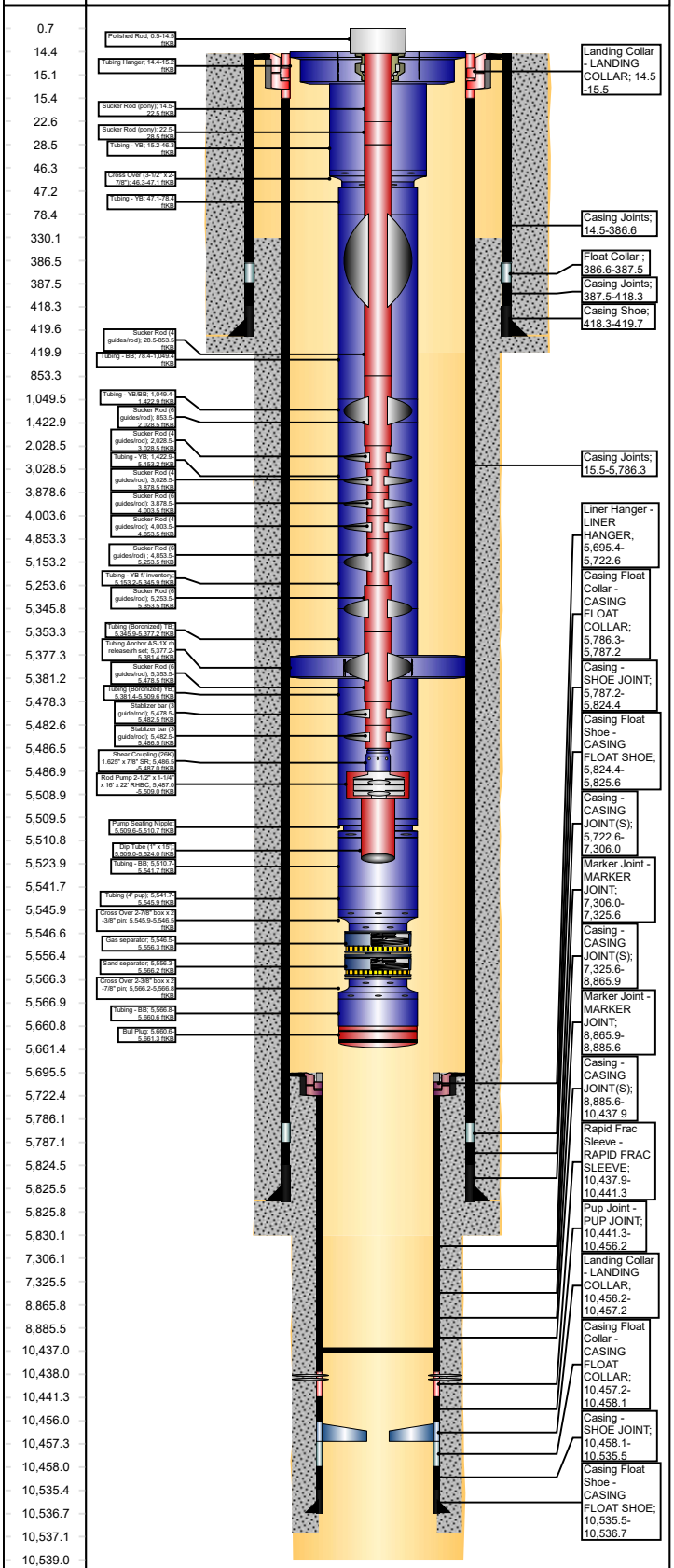
Stg #	Top (ftKB)	Btm (ftKB)	Com
1	330.0	5,825.6	

WellView

Wellbore Schematic - Components and Cement

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

Horizontal, Original Hole, 12/19/2024 2:15:56 PM



Cement

Production Liner Cement, Casing, 3/30/2015 03:50

Description	String	Cementing Start Date	Cementing End Date
Production Liner Cement	PRODUCTION LINER, 10,536.7ftKB	3/30/2015 03:50	3/30/2015 07:10

Cement Stages

Stg #	Top (ftKB)	Btm (ftKB)	Com
1	5,695.4	10,537.0	

Wellbores

Original Hole

Wellbore Name	Parent Wellbore
Original Hole	Original Hole

Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	14.5	420.0
INTERMEDIATE	8 3/4	420.0	5,830.0
PRODUCTION	6 1/8	5,830.0	10,539.0

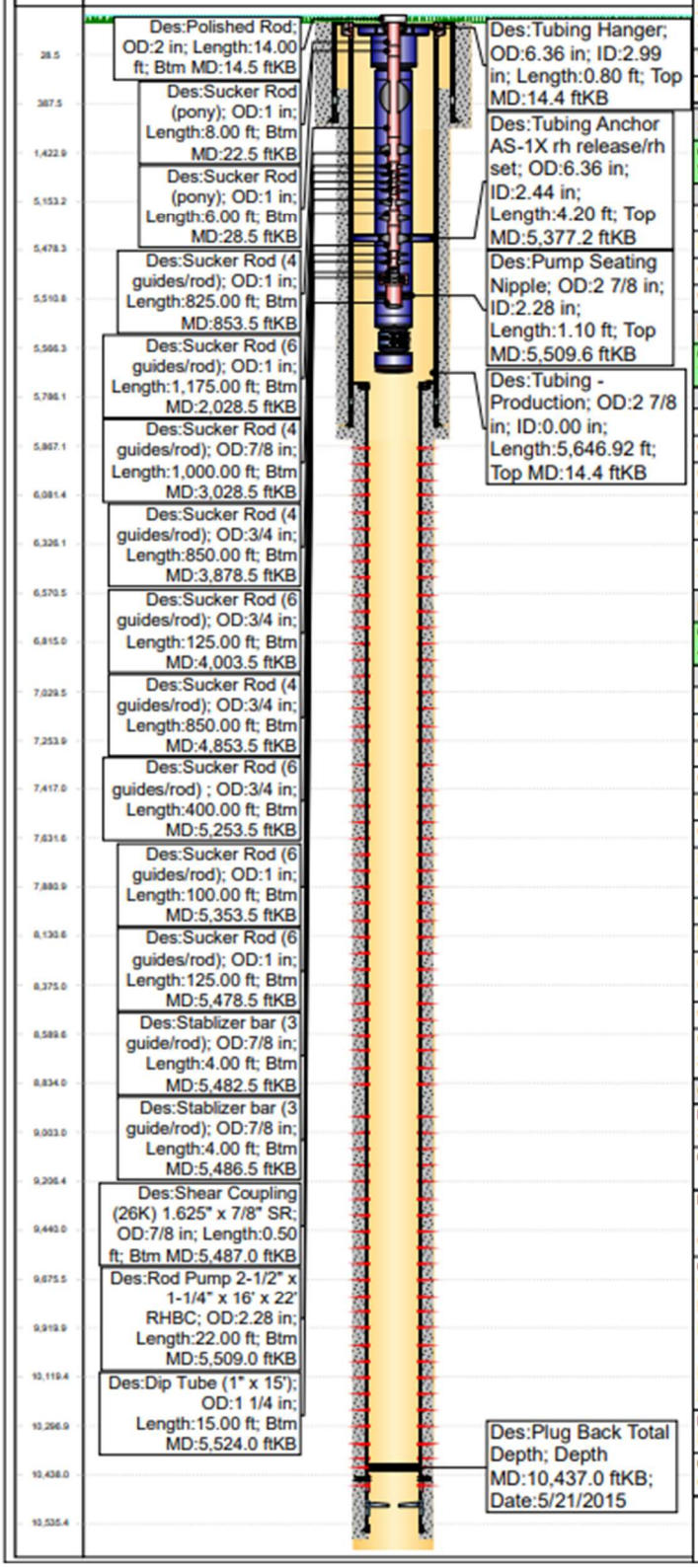
WellView

Enduring Resources IV - Production WBD with perfs

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
30-045-35548	CHACO 2308-24I 156H	CHACO		NEW MEXICO	Horizontal
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
6,898.50		11/15/2014 16:00	3/30/2015 18:00	Original Hole - 10,437.0	Original Hole - 5,119.0

Horizontal, Original Hole, 12/19/2024 3:21:42 PM



Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Sand separator	1			2 3/8	2.00	9.95	5,556.3	5,566.2
Cross Over 2-3/8" box x 2-7/8" pin	1			2 7/8	2.00	0.60	5,566.2	5,566.8
Tubing - BB	3	L-80	6.50	2 7/8	2.44	93.82	5,566.8	5,660.7
Bull Plug	1	L-80	6.50	2 7/8	0.00	0.70	5,660.7	5,661.4

SURFACE CASING, 419.7ftKB

OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
9 5/8	36.00	J-55	LT&C	14.5	419.7

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	15	372.07	14.5	386.6
Float Collar	1	0.90	386.6	387.5
Casing Joints	1	30.83	387.5	418.3
Casing Shoe	1	1.42	418.3	419.7

INTERMEDIATE CASING, 5,825.6ftKB

OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
7	23.00	K-55	8RD	14.5	5,825.6

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Landing Collar - LANDING COLLAR	1	1.00	14.5	15.5
Casing Joints	154	5,770.75	15.5	5,786.3
Casing Float Collar - CASING FLOAT COLLAR	1	0.95	5,786.3	5,787.2
Casing - SHOE JOINT	1	37.19	5,787.2	5,824.4
Casing Float Shoe - CASING FLOAT SHOE	1	1.25	5,824.4	5,825.6

PRODUCTION LINER, 10,536.7ftKB

OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
4 1/2	11.60	P-110	8RD	5,695.4	10,536.7

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Liner Hanger - LINER HANGER	1	27.18	5,695.4	5,722.6
Casing - CASING JOINT(S)	37	1,583.44	5,722.6	7,306.0
Marker Joint - MARKER JOINT	1	19.61	7,306.0	7,325.6
Casing - CASING JOINT(S)	37	1,540.29	7,325.6	8,865.9
Marker Joint - MARKER JOINT	1	19.70	8,865.9	8,885.6
Casing - CASING JOINT(S)	37	1,552.32	8,885.6	10,437.9
Rapid Frac Sleeve - RAPID FRAC SLEEVE	1	3.34	10,437.9	10,441.3
Pup Joint - PUP JOINT	1	14.91	10,441.3	10,456.2
Landing Collar - LANDING COLLAR	1	1.03	10,456.2	10,457.2
Casing Float Collar - CASING FLOAT COLLAR	1	0.87	10,457.2	10,458.1
Casing - SHOE JOINT	2	77.40	10,458.1	10,535.5
Casing Float Shoe - CASING FLOAT SHOE	1	1.23	10,535.5	10,536.7

Cement

Description	Cementing Start Date	Cementing End Date
SURFACE CASING	11/6/2014	11/6/2014

Comment

Description	Cementing Start Date	Cementing End Date
Intermediate Casing Cement	3/25/2015	3/25/2015

Comment
LOST CIRC 130 BBLS INTO DISPLACEMENT @ 4 BPM, SLOWED RATE TO 2 BPM, REGAINED CIRC 150 BBLS INTO DISPLACEMENT.
RETURNS TO SURFACE 10 BBLS MUD FLUSH & 30 BBLS CHEM WASH.
10 BBL CHEM WASH STILL IN SURFACE CSG.
ESTIMATE TOC @ 330'.
PUMPED 42 BBLS CAP CMT DOWN ANNULAS @ 89 PSI.

Description	Cementing Start Date	Cementing End Date
Production Liner Cement	3/30/2015	3/30/2015

Comment
GOOD CMT JOB NO PROBLEMS.

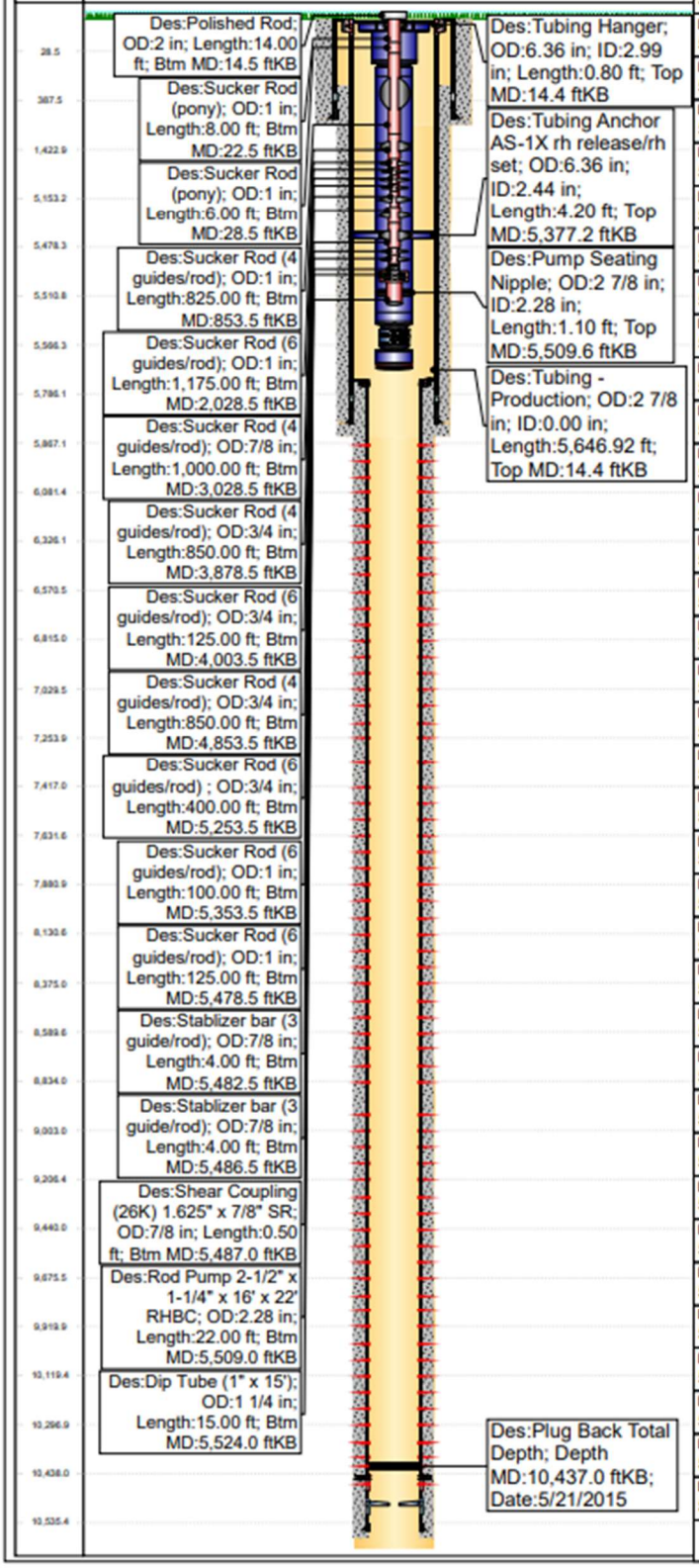
WellView

Enduring Resources IV - Production WBD with perfs

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
30-045-35548	CHACO 2308-24I 156H	CHACO		NEW MEXICO	Horizontal
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
6,898.50		11/15/2014 16:00	3/30/2015 18:00	Original Hole - 10,437.0	Original Hole - 5,119.0

Horizontal, Original Hole, 12/19/2024 3:21:42 PM



Perforations

Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens...	Enter...
5/16/2015	Stage 15, Original Hole	5,867.0	5,868.5	4.0	
5/16/2015	Stage 15, Original Hole	5,938.5	5,940.0	4.0	
5/16/2015	Stage 15, Original Hole	6,010.0	6,011.5	4.0	
5/16/2015	Stage 15, Original Hole	6,081.5	6,083.0	4.0	
5/15/2015	Stage 14, Original Hole	6,183.0	6,184.5	4.0	
5/15/2015	Stage 14, Original Hole	6,254.5	6,256.0	4.0	
5/15/2015	Stage 14, Original Hole	6,326.0	6,327.5	4.0	
5/15/2015	Stage 14, Original Hole	6,397.5	6,399.0	4.0	
5/15/2015	Stage 13, Original Hole	6,499.0	6,500.5	4.0	
5/15/2015	Stage 13, Original Hole	6,570.5	6,572.0	4.0	
5/15/2015	Stage 13, Original Hole	6,642.0	6,643.5	4.0	
5/15/2015	Stage 13, Original Hole	6,713.5	6,715.0	4.0	
5/15/1970	Stage 12, Original Hole	6,815.0	6,816.5	4.0	
5/15/1970	Stage 12, Original Hole	6,886.5	6,888.0	4.0	
5/15/1970	Stage 12, Original Hole	6,952.0	6,953.5	4.0	
5/15/1970	Stage 12, Original Hole	7,029.5	7,031.0	4.0	
5/15/1970	Stage 11, Original Hole	7,128.0	7,129.5	4.0	
5/15/1970	Stage 11, Original Hole	7,192.5	7,194.0	4.0	
5/15/1970	Stage 11, Original Hole	7,254.0	7,255.5	4.0	
5/15/1970	Stage 11, Original Hole	7,315.5	7,317.0	4.0	
5/15/1970	Stage 10, Original Hole	7,417.0	7,418.5	4.0	
5/15/1970	Stage 10, Original Hole	7,488.5	7,490.0	4.0	
5/15/1970	Stage 10, Original Hole	7,560.0	7,561.5	4.0	
5/15/1970	Stage 10, Original Hole	7,631.5	7,633.0	4.0	
5/15/2015	Stage 09, Original Hole	7,738.0	7,739.5	4.0	
5/15/2015	Stage 09, Original Hole	7,809.5	7,811.0	4.0	
5/15/2015	Stage 09, Original Hole	7,881.0	7,882.5	4.0	
5/15/2015	Stage 09, Original Hole	7,952.5	7,954.0	4.0	
5/15/2015	Stage 08, Original Hole	8,059.0	8,060.5	4.0	
5/15/2015	Stage 08, Original Hole	8,130.5	8,132.0	4.0	
5/15/2015	Stage 08, Original Hole	8,202.0	8,203.5	4.0	
5/15/2015	Stage 08, Original Hole	8,273.5	8,275.0	4.0	
5/14/2015	Stage 07, Original Hole	8,375.0	8,376.5	4.0	
5/14/2015	Stage 07, Original Hole	8,450.0	8,451.5	4.0	
5/14/2015	Stage 07, Original Hole	8,518.0	8,519.5	4.0	
5/14/2015	Stage 07, Original Hole	8,589.5	8,591.0	4.0	
5/12/2015	Stage 06, Original Hole	8,691.0	8,692.5	4.0	

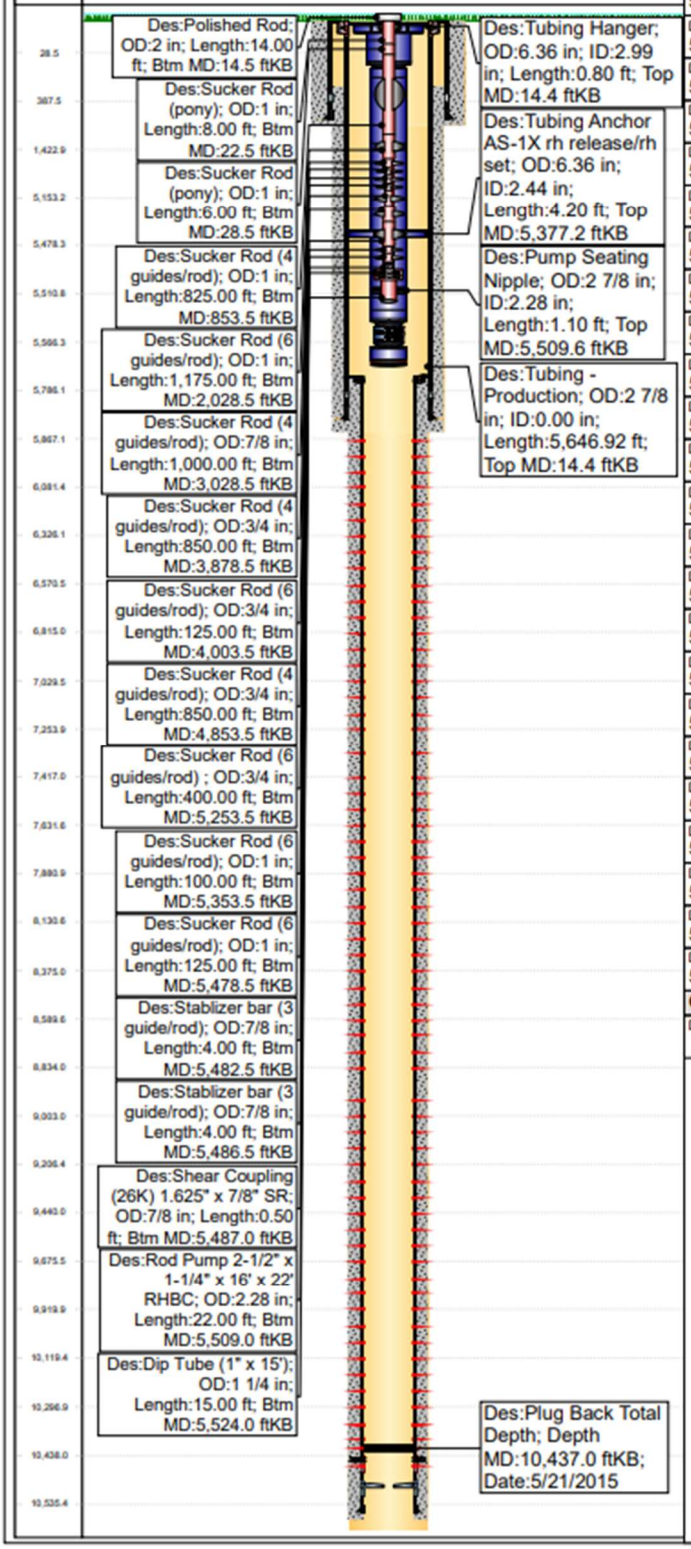
WellView

Enduring Resources IV - Production WBD with perfs

Well Name: LYBROOK 2308-24I 156H (FKA CHACO 2308-24I)

API/UWI	Surface Legal Location	Field Name	License #	State/Province	Well Configuration Type
30-045-35548	CHACO 2308-24I 156H	CHACO		NEW MEXICO	Horizontal
Original KB Elevation (ft)	**KB-Tubing Head Distance (ft)**	**Spud Date**	**Rig Release Date**	**PBTD (All) (ftKB)**	**Total Depth All (TVD) (ftKB)**
6,898.50		11/15/2014 16:00	3/30/2015 18:00	Original Hole - 10,437.0	Original Hole - 5,119.0

Horizontal, Original Hole, 12/19/2024 3:21:43 PM



Perforations

Date	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens...	Enter...
5/12/2015	Stage 06, Original Hole	8,762.5	8,764.0	4.0	
5/12/2015	Stage 06, Original Hole	8,834.0	8,835.5	4.0	
5/12/2015	Stage 06, Original Hole	8,905.5	8,907.0	4.0	
5/12/1970	Stage 05, Original Hole	9,003.0	9,004.5	4.0	
5/12/1970	Stage 05, Original Hole	9,073.5	9,075.0	4.0	
5/12/1970	Stage 05, Original Hole	9,145.0	9,146.5	4.0	
5/12/1970	Stage 05, Original Hole	9,206.5	9,208.0	4.0	
5/12/2015	Stage 04, Original Hole	9,308.0	9,309.5	4.0	
5/12/2015	Stage 04, Original Hole	9,374.5	9,376.0	4.0	
5/12/2015	Stage 04, Original Hole	9,440.0	9,441.5	4.0	
5/12/2015	Stage 04, Original Hole	9,507.5	9,509.0	4.0	
5/11/2015	Stage 03, Original Hole	9,609.0	9,610.5	4.0	
5/11/2015	Stage 03, Original Hole	9,675.5	9,677.0	4.0	
5/11/2015	Stage 03, Original Hole	9,742.0	9,743.5	4.0	
5/11/2015	Stage 03, Original Hole	9,808.5	9,810.0	4.0	
5/11/2015	Stage 02, Original Hole	9,920.0	9,921.5	4.0	
5/11/2015	Stage 02, Original Hole	9,986.5	9,988.0	4.0	
5/11/2015	Stage 02, Original Hole	10,053.0	10,054.5	4.0	
5/11/2015	Stage 02, Original Hole	10,119.5	10,121.0	4.0	
5/2/2015	Stage 01, Original Hole	10,221.5	10,223.0	4.0	24
5/2/2015	Stage 01, Original Hole	10,293.0	10,295.0	4.0	24
5/4/2015	Stage 01, Original Hole	10,297.0	10,299.0	4.0	24
5/4/2005	Stage 01, Original Hole	10,365.0	10,369.0	4.0	24
5/2/2015	Stage 01, Original Hole	10,365.0	10,367.0	4.0	24
5/2/2015	Stage 01, Original Hole	10,437.0	10,441.0	0.0	24

Other In Hole

Description	Top (ftKB)	Btm (ftKB)	Run Date

Formation Tops

Tops	MD	TVD
Ojo Alamo	874	873
Kirtland	1090	1087
Picture Cliffs	1539	1520
Lewis	1689	1661
Chacra	1940	1898
Cliff House	3089	2985
Menefee	3137	3031
Point Lookout	4029	3877
Mancos	4236	4071
Gallup	4588	4408

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 414235

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 414235
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	If it is determined to run cement - will need approval from agencies prior to running.	12/23/2024