

Well Name: JICARILLA	Well Location: T22N / R5W / SEC 8 / NWNW /	County or Parish/State: SANDOVAL / NM
Well Number: 104H	Type of Well: OIL WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC424	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004321219	Well Status: Producing Oil Well	Operator: ENDURING RESOURCES LLC

Subsequent Report

Sundry ID: 2649966

Type of Submission: Subsequent Report	Type of Action: Workover Operations
Date Sundry Submitted: 12/21/2021	Time Sundry Submitted: 02:17
Date Operation Actually Began: 11/23/2021	

Actual Procedure: Enduring Resources recently completed a workover to repair the rod pump completion. An updated schematic is attached. Job Start: 11/23/2021 Job End: 11/29/2021 EOT: 5,613' MD SN: 5,544' MD TAC: 5,196' MD

SR Attachments

Actual Procedure

JICARILLA_104H_WBD_11292021_20211221141725.pdf

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Lease Number: JIC424	Unit or CA Name:	Unit or CA Number:
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Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: HEATHER HUNTINGTON	Signed on: DEC 21, 2021 02:17 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

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: 12/22/2021
Signature: Kenneth Rennick	



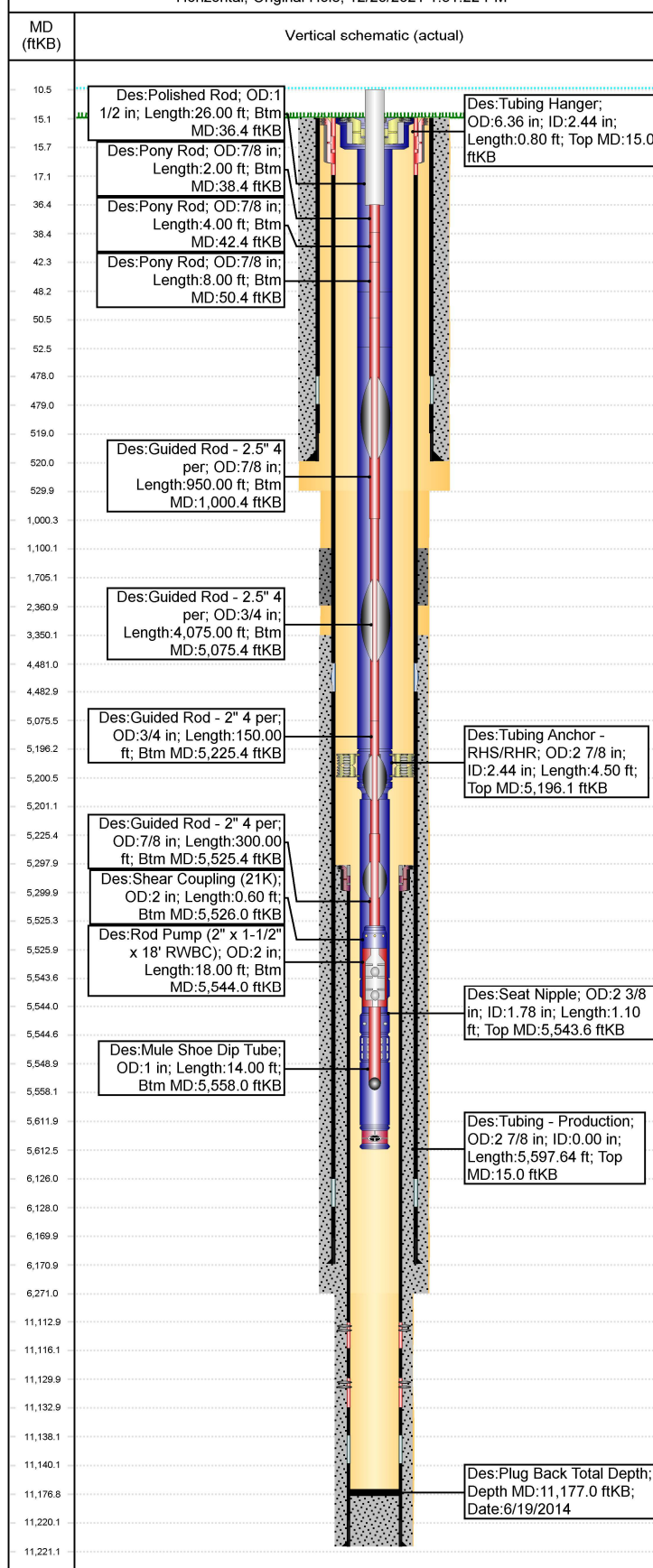
Enduring Resources IV - Production WBD

Well Name: JICARILLA 104H

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

API/UWI 30-043-21219	Surface Legal Location Section 08, Twp 22N, Rng 05W, 23rd PM	Field Name	License #	State/Province NEW MEXICO	Well Configuration Type Horizontal
Original KB Elevation (ft) 6,976.00	KB-Tubing Head Distance (ft)	Spud Date 5/18/2014 00:00	Rig Release Date	PBTD (All) (ftKB) Original Hole - 11,177.0	Total Depth All (TVD) (ftKB) Original Hole - 5,389.4

Horizontal, Original Hole, 12/20/2021 1:51:22 PM



Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)
Surface Hole	12 1/4	15.0	15.0	530.0	529.8
Intermediate Hole	8 3/4	530.0	529.8	6,271.0	5,424.4
Production Hole	6 1/8	6,271.0	5,424.4	11,221.0	5,389.4

Rod Strings

Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)		
Rod	11/29/2021	5,547.60	5,558.0		
Item Des	Jts	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod		1 1/2	26.00	10.4	36.4
Pony Rod	1	7/8	2.00	36.4	38.4
Pony Rod	1	7/8	4.00	38.4	42.4
Pony Rod	1	7/8	8.00	42.4	50.4
Guided Rod - 2.5" 4 per	38	7/8	950.00	50.4	1,000.4
Guided Rod - 2.5" 4 per	163	3/4	4,075.00	1,000.4	5,075.4
Guided Rod - 2" 4 per	6	3/4	150.00	5,075.4	5,225.4
Guided Rod - 2" 4 per	12	7/8	300.00	5,225.4	5,525.4
Shear Coupling (21K)	1	2	0.60	5,525.4	5,526.0
Rod Pump (2" x 1-1/2" x 18' RWBC)	1	2	18.00	5,526.0	5,544.0
Mule Shoe Dip Tube	1	1	14.00	5,544.0	5,558.0

Tubing - Production set at 5,612.6ftKB on 11/29/2021 09:00

Tubing Description		Run Date		String Length (ft)			Set Depth (ftKB)	
Tubing - Production		11/29/2021		5,597.64			5,612.6	
Item Des	Jts	Grade	Wt (lb/ft)	OD (in)	ID (in)	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Hanger				6.36	2.44	0.80	15.0	15.8
Tubing	1	J-55	6.50	2 7/8	2.44	32.59	15.8	48.4
Tubing - Pup Jt		J-55	6.50	2 7/8	2.44	4.09	48.4	52.5
Tubing	158	J-55	6.50	2 7/8	2.44	5,143.61	52.5	5,196.1
Tubing Anchor - RHS/RHR				2 7/8	2.44	4.50	5,196.1	5,200.6
Cross Over				2 7/8	2.00	0.40	5,200.6	5,201.0
Tubing	11	J-55	4.70	2 3/8	2.00	342.63	5,201.0	5,543.6
Seat Nipple				2 3/8	1.78	1.10	5,543.6	5,544.7
Perforated Sub		J-55	4.70	2 3/8	2.00	4.05	5,544.7	5,548.8
Tubing	2	J-55	4.70	2 3/8	2.00	63.17	5,548.8	5,611.9
Purge Valve				2 3/8	0.00	0.70	5,611.9	5,612.6

Surface Casing, 520.0ftKB

OD (in) 9 5/8	Wt/Len (lb/ft) 36.00	String Grade K-55	Top Connection	Top (ftKB) 15.0	Set Depth (ftKB) 520.0	
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints			11	463.00	15.0	478.0
Float Collar				1.00	478.0	479.0
Casing Joints			1	40.00	479.0	519.0
Float Shoe				1.00	519.0	520.0

Tieback Liner, 5,298.0ftKB

OD (in) 4 1/2	Wt/Len (lb/ft) 11.60	String Grade P-110	Top Connection	Top (ftKB) 15.0	Set Depth (ftKB) 5,298.0	
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Liner Hanger				1.00	15.0	16.0
Liner Pup Joint			3	10.00	16.0	26.0
Casing Joints			125	5,270.00	26.0	5,296.0
PBR Seal Assembly				2.00	5,296.0	5,298.0

Intermediate Casing, 6,171.0ftKB

OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)	
7	23.00	K-55		15.0	6,171.0	
Item Des			Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Hanger				2.00	15.0	17.0
Casing Joints			106	4,464.00	17.0	4,481.0
DV StageTool				2.00	4,481.0	4,483.0



Enduring Resources IV - Production WBD

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Horizontal, Original Hole, 12/20/2021 1:51:26 PM					
MD (ftKB)	Vertical schematic (actual)				
10.5					
15.1					
15.7					
17.1					
36.4	Des: Polished Rod; OD: 1 1/2 in; Length: 26.00 ft; Btm MD: 36.4 ftKB				
38.4	Des: Pony Rod; OD: 7/8 in; Length: 2.00 ft; Btm MD: 38.4 ftKB				
42.3	Des: Pony Rod; OD: 7/8 in; Length: 4.00 ft; Btm MD: 42.4 ftKB				
48.2	Des: Pony Rod; OD: 7/8 in; Length: 8.00 ft; Btm MD: 50.4 ftKB				
50.5	Des: Guided Rod - 2.5" 4 per; OD: 7/8 in; Length: 950.00 ft; Btm MD: 1,000.4 ftKB				
52.5					
478.0					
479.0					
519.0	Des: Guided Rod - 2.5" 4 per; OD: 3/4 in; Length: 4,075.00 ft; Btm MD: 5,075.4 ftKB				
520.0					
529.9					
1,000.3					
1,100.1	Des: Guided Rod - 2" 4 per; OD: 7/8 in; Length: 300.00 ft; Btm MD: 5,525.4 ftKB				
1,705.1					
2,360.9					
3,350.1					
4,481.0	Des: Shear Coupling (21K); OD: 2 in; Length: 0.60 ft; Btm MD: 5,526.0 ftKB				
4,482.9					
5,075.5					
5,196.2					
5,200.5	Des: Rod Pump (2" x 1-1/2" x 18' RWBC); OD: 2 in; Length: 18.00 ft; Btm MD: 5,544.0 ftKB				
5,201.1					
5,225.4					
5,297.9					
5,299.9	Des: Mule Shoe Dip Tube; OD: 1 in; Length: 14.00 ft; Btm MD: 5,558.0 ftKB				
5,525.3					
5,525.9					
5,543.6					
5,544.0	Des: Tubing Anchor - RHS/RHR; OD: 2 7/8 in; ID: 2.44 in; Length: 4.50 ft; Top MD: 5,196.1 ftKB				
5,544.6					
5,548.9					
5,558.1					
5,611.9	Des: Seat Nipple; OD: 2 3/8 in; ID: 1.78 in; Length: 1.10 ft; Top MD: 5,543.6 ftKB				
5,612.5					
6,126.0					
6,128.0					
6,169.9	Des: Tubing - Production; OD: 2 7/8 in; ID: 0.00 in; Length: 5,597.64 ft; Top MD: 15.0 ftKB				
6,170.9					
6,271.0					
11,112.9					
11,116.1	Des: Plug Back Total Depth; Depth MD: 11,177.0 ftKB; Date: 6/19/2014				
11,129.9					
11,132.9					
11,138.1					
11,140.1					
11,176.8					
11,220.1					
11,221.1					

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Casing Joints	39	1,643.00	4,483.0	6,126.0
Float Collar		2.00	6,126.0	6,128.0
Casing Joints	1	42.00	6,128.0	6,170.0
Float Shoe		1.00	6,170.0	6,171.0

Production Liner, 11,221.0ftKB					
OD (in)	Wt/Len (lb/ft)	String Grade	Top Connection	Top (ftKB)	Set Depth (ftKB)
4 1/2	11.60	P-110		5,298.0	11,221.0

Item Des	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Liner Hanger		2.00	5,298.0	5,300.0
Casing Joints	136	5,813.00	5,300.0	11,113.0
Toe Sleeve #2		3.00	11,113.0	11,116.0
Casing Joints		14.00	11,116.0	11,130.0
Toe Sleeve #1		3.00	11,130.0	11,133.0
Casing Joints		5.00	11,133.0	11,138.0
Float Collar		2.00	11,138.0	11,140.0
Casing Joints	2	80.00	11,140.0	11,220.0
Float Shoe		1.00	11,220.0	11,221.0

Cement		
Description	Cementing Start Date	Cementing End Date
Surface Cement	5/18/2014	5/18/2014
Comment		
Cemented w/ 320 sx Class G Cmt. Circulated 30 bbl to surface.		
Description	Cementing Start Date	Cementing End Date
Intermediate Cement	5/30/2014	5/30/2014
Comment		
Stage 1: Lead: 480 sx Halcem		
Tail: 50 sx Halcem		
Description	Cementing Start Date	Cementing End Date
Prod Liner Cement	6/18/2014	6/18/2014
Comment		
Lead: 40 sx Elastiseal, 290 sx Foamed Elastiseal.		
Tail: 100 sx Elastiseal		
Description	Cementing Start Date	Cementing End Date
Intmd Remedial Cement	7/23/2014	7/23/2014
Comment		
Cement squeeze holes at 2361' w/ 484 sx Type III,		
Cement squeeze holes at 1705' w/ 282 sx Type III, Tail w/ 85 sx Type G, no cement to surface.		
TOC @ 1100' MD per CBL		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 68491

COMMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 68491
	Action Type: [C-103] Sub. Workover (C-103R)

COMMENTS

Created By	Comment	Comment Date
jagarcia	Accepted, John Garcia, Petroleum Engineer	11/7/2022

District I
1625 N. French Dr., Hobbs, NM 88240
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CONDITIONS

Action 68491

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	Action Number: 68491
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	None	11/7/2022