

Well Name: ROSA UNIT	Well Location: T31N / R5W / SEC 19 / NENW / 36.889655 / -107.405433	County or Parish/State: RIO ARRIBA / NM
Well Number: 643H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078767	Unit or CA Name: ROSA UNIT	Unit or CA Number: NMNM78407E
US Well Number: 3003931317	Well Status: Producing Gas Well	Operator: LOGOS OPERATING LLC

Subsequent Report

Sundry ID: 2767433

Type of Submission: Subsequent Report

Type of Action: Recompletion

Date Sundry Submitted: 12/27/2023

Time Sundry Submitted: 10:10

Date Operation Actually Began: 08/03/2023

Actual Procedure: 8/3/23- MIRU. NU BOP. TOOH with 2-3/8" 4.7# tubing. SDFN. 8/4/23 thru 8/5/23- ND 10k WH. NU 5k WH & BOP stack. PT BOP- test good. TIH w/2-3/8" work string and C/O BHA. 8/6/23- TOOH w/ 2-3/8". CO BHA. MIRU casing crew. Attempt to Pull 4-1/2" Tieback with csg spear. No success. MIRU WL. RIH & perforate 4-1/2" 3spf @ 6230'. Continue to attempt to pull 4-1/2" tieback with no success. Makeup free point tools. 8/7/23- RIH to TOL @ 6286'. Free point @ 5414'. POOH. RIH w/ 3-5/8" chemical cutter and cut 4-1/2" csng @ 5414'. Attempt to pull free pipe, no success. POOH, Lay down cutter and Left Bottom Cone and Centralizer in Hole. RIH with 3-3/4" mill and push fish to top of TIV @ 12,350'. TOOH with mill. 8/8/23 thru 8/10/23- MIRU WL. RIH w/3-5/8" chemical cutter. Cut 4-1/2" Tieback at 5,416'. RD WL. MIRU csg crew. TOOH Laying Down 4-1/2" Tieback String. MIRU WL. Run 7" Caliper Log from 5400' to Surface. Prep 3-1/2" Production Casing. RIH w/ 214 jts of 3-1/2" ,LFS FJ-HT P-110RY, 9.20# csg, set @ 12340' on 8/9/23. Land TOL @ 5,339'. Cement: Pump 259 SX @ 13.5 ppg 1.451 yield Halliburton Extendacem cement. Maintained full returns throughout the job. Dropped top plug and pumped 88 bbl displacement. Set packer w/ 55k down. Stung out of liner top and circulated 205 bbls, returning 10 bbl spacer. PT liner to 1500psi/15mins – good test. TOOH with 2-7/8". TIH w/2-3/8" work string to TOL @ 5339' & polish mill 19' inside PBR. TOOH. MIRU casing crew. 8/11/23- TIH w/ Innovex seal assembly and 138 jts of 4-1/2", 11.6#, P-110 casing. Land seal assembly in PBR w/ 30k down. Land 4-1/2" casing in 30k compression. PT seals to 1500 psi/5mins. RD casing crew. TIH with 2-1/16" J55 IJ Tubing, tagged fill @ 10,044'. RU swivel, circulate cement returns. Cannot cleanout further. TOOH. RDMO. 8/12/23 thru 8/14/23- RDMO. Prep Location for CTU Cleanout Ops. 8/15/23 thru 8/16/23 – MIRU CTU. PT. RIH. Cleanout BHA. Tag cement @ 9950'. Drill cement to 10,600'. Circulate. POOH. RIH w/CT. Cleanout to 10690'. 8/17/23 thru 8/18/23- C/O to 12266' (TD). Circ and cond. POOH. RIH and Perf'd Stage 1 f/12,253'-12,177' 6SPF, 60deg phasing. POOH. Well secured. RDMO. 8/19/23 thru 10/11/23- stand by for re-completion

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operations 10/12/2023- MIRU Equip and WL. 10/13/23 thru 10/15/23- PT frack stack to 11,500 PSI. Test good. MIRU WL. 10/16/23 thru 10/24/23- PT set pop offs at 9,000 psi. Frac'd stage 1 w/ 205,493 proppant. 100# mesh and 40/70 sand and 6,323 bbls slickwater. Perf intervals @ 12,147'-7550', 1104 holes. Perfed w/ 4 spf, w/ 0.31" holes, 90 phasing. Frac'd 24 total stages, 100 # mesh and 40/70 sand & 9,149,182 lbs total proppant and 243,763 bbls slickwater. 10/25/23 thru 11/2/23- Standby for offset frac. 11/3/23- Set kill plugs @ 6,988' & 7,138'. PT to 6,500# PSI- good test. RD frac. 11/4/23 thru 11/11/23- Prep for CTU drill out operations. 11/5/23 thru 11/17/23- MIRU CTU. NU BOP. PT. DO Kill plug @ 7,138' & 6988'. CO & DO frac plugs. POOH. 11/18/23 thru 11/20/23- Stand by to run tubing. 11/21/23- NU & BOP test-good. 11/22/23- TIH w/ 162 jnts of 2-1/6", 3.25#, J-55, Land tubing @ 5326', F-Nipple @ 5325'. RDMO

SR Attachments

Actual Procedure

Rosa_Unit_643H_Well_Schematic_20231227100533.pdf

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: LACEY GRANILLO

Signed on: DEC 27, 2023 10:10 AM

Name: LOGOS OPERATING LLC

Title: REGULATORY SPECIALIST

Street Address: 2010 AFTON PLACE

City: FARMINGTON State: NM

Phone: (505) 324-4145

Email address: LGRANILLO@LOGOSRESOURCESLLC.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

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Operator: LOGOS OPERATING LLC

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Accepted

Disposition Date: 12/27/2023

Signature: Matthew Kade

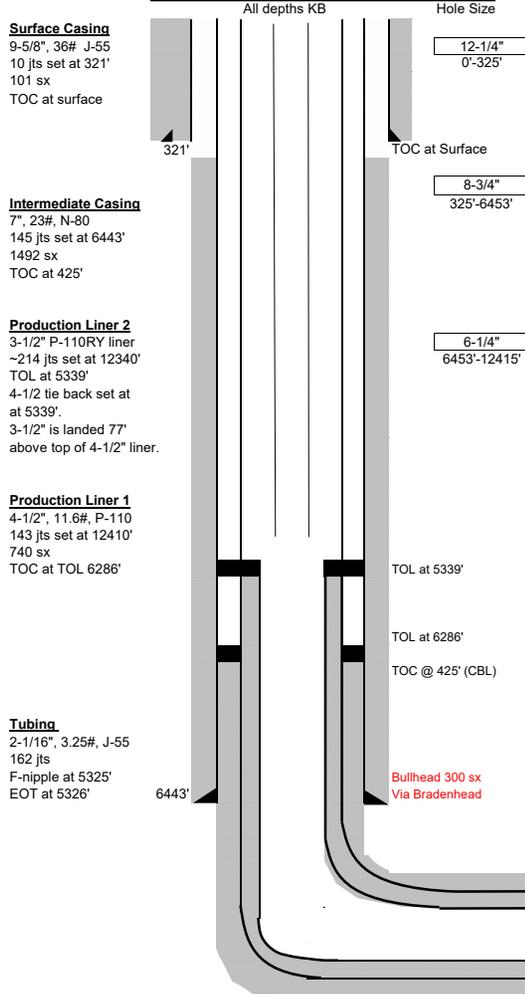
CONFIDENTIAL

Well Name: Rosa Unit 643H
 Location: C-19 - 31N - 05W, 972' FNL & 510' FWL
 County: Rio Arriba
 API #: 30-039-31317
 Co-ordinates: 36.889661,-107.406036 NAD83
 Operator: LOGOS Operating, LLC

Wellbore Schematic

Ground Elevation: 6305'
 KB Elevation: 6330'
 TD (TVD): 7166'
 TD (MD): 12415'
 PBTD: 12266'

Prepared By: 4/5/2023 Peace
 Reviewed By: 4/5/2023 CR
 Last Updated: 12/21/2023 Peace
 Spud Date: 7/26/2015
 Completion Date: 12/12/2015
 Last Workover Date: 10/12/2023



Surface Casing: (7/26/2015)
 Drilled a 12-1/4" surface hole to 325'. Ran 10 jts 9-5/8", 36#, J-55 BTC casing at 321'.
 Cmt w/ 101 sx Type I-II cmt w/ 20% flyash (14.5 ppg & 1.15 cf/sk). Circ 10 bbls cmt to surface.

Intermediate Casing: (8/04/2015)
 Drilled a 8-3/4" intermediate hole to 6453'. Ran 147 jts 7", 23# N-80 csg set at 6443'.
 Lead Cmt w/ 52 sx Elastiseal N2 foamed cmt (11.5 ppg & 2.15 cf/sk) & 1040 sx Elastiseal cmt (13 ppg & 1.46 cf/sk).
 Tailed w/ 100 sx of Halcem cmt (13.5 ppg & 1.3 cf/sk). No cmt to surface, pumped down backside a
 bullhead cap of 300 sx Halcem cement (15.8 ppg, 1.18 cf/sk). TOC @425' per CBL.

Production Liner 1: (8/25/2015)
 Drilled a 6-1/4" production hole to 12,415' (7166' TVD). Set 143 jts 4-1/2", 11.6#, P-110 csg at 12410'. (7168' TVD).
 TOL at 6286'. Mkr jt at 4099'. Toe sleeve at 12350'.
 Cmt w/ 200 sx Extendacem (14 ppg & 1.28 cf/sk) tailed w/ 540 sx Extendacem (14 ppg & 1.28 cf/sk). TOC @ TOL.
 Ran 138 jts of 4-1/2", 11.6#, P-110 csg for tie back liner. Set w/ 30k compression.
9/2023- Cut tie-back liner at 5416' & pulled it to run 3-1/2" liner.

Production Liner 2: 9/2023
 214 jts 3-1/2" LFS FJ-HT P-110RY casing and set at 12340'. (7168' TVD).
 TOL @ 5339'. Cmt w/ 67 bbls Extendacem cmt (15.9 ppg).
 Ran new 4-1/2" 11.6# P-110 tie-back casing to surface with an innovex ranger hanger w. scout packer and tie-back extension PBR.

Completion: (see completions tab for details)
 Perf'd 7550'-12355' in 24 stages w/ 200' stage spacing, 50' cluster spacing, 6 SPF and 60 deg phasing, 0.40" dia holes.
 Frac'd in 24 stages w/ 86,400# 100M and 370,400# 20/40 per stage for a total of 576 holes. Frac w/ 8,120,742 gal water and 8,736,230 lbs of sand.
 Perf'd 1st stage in 3-1/2" line: 12,177'-12,253'.

Workovers: See additional notes in the workover tab
9/2023- Cleanout & Perf. TOOH w/ tbg, last 7 jnts were heavily scaled inside & out. Cleanout BHA to 12326' (solid tag). Had minimal wear on mills. Attempted to screw into 4-1/2" casing hanger, unable to thread into it. Tried to use the casing spear, no success. Basin WL perf'd 3 shots at 6230'. No success on csing recovery. Drake WL found free point at 5414'. Chem cut 4-1/2" tieback at 5414', could not free pipe. Left bottom cone and centralizer in hole. Pushed fish down to 12350'. Drake WL chem cut 4-1/2" tie-back at 5416' and was able to recover 4-1/2" tie-back liner. RIH w/ 3-1/2" liner, set at 12340' w/ TOL at 5339'. Cmt'd 3-1/2" liner. TIH w/ Innovex seal assembly & 4-1/2" prod csg. Landed seal assembly w/ 30K compression. TIH w/ cleanout BHA, tag cmt at 9950', CO to 12,266'. Shot 1st stage, well went on vacuum. MOL unit Pad 27 completions.
10/2023- Frac'd and wirelined 24 stages. Ran in hole with makeup BHA and drillout CBP and DFP. Ran in hole with 2-1/16" 3.25# J-55 tbing land at 5326'.

Tubing: (11/22/2023)	Length (ft)	Depths (RKB)
KB	25	
(162) 2-1/16", 3.25#, J-55 IJ-10RD	5279	
(2) 2-1/16" tubing subs (10', 8')	18	
(1) F-nipple	1	
(1) 2-1/16" expendable check w/ WLEG	3	
Set at (ft):	5326	

Perforations (MD)	Toe Sleeve
Top: 7550'	4-1/2" Toe Sleeve 12350'
Bottom: 12253'	

Formation Tops: (MD)			
Nacimiento	Surface	Cliff House	5449'
Ojo Alamo	2461'	Menefee	5494'
Kiriland	2575'	Point Lookout	5723'
Pictured Cliffs	3397'	Mancos	6205'
Lewis	3588'		
Chacra	4641'		

PBTD @ 12,266'
 TD at 12415'
 12340'
 12410'

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

CONDITIONS

Action 319495

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 319495
	Action Type: [C-103] Sub. (Re)Completion Sundry (C-103T)

CONDITIONS

Created By	Condition	Condition Date
smcgrath	None	3/1/2024