ceived by NCD-S/5/2023 8:24:14 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repol
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: 300393131700S1	Well Status: Producing Gas Well	Operator: LOGOS OPERATING LLC

Notice of Intent

Sundry ID: 2729206 Type of Submission: Notice of Intent Date Sundry Submitted: 05/04/2023 Date proposed operation will begin: 05/15/2023

Type of Action: Recompletion Time Sundry Submitted: 11:32 5

Procedure Description: Please see attached procedure and wellbore Schematic.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Rosa_Unit_643H_Restimulation_Regulatory_Procedure_20230504113154.pdf

Received by OCD: 5/5/2023 8:24:14 AM Well Name: ROSA UNIT	Well Location: T31N / R5W / SEC 19 / NENW / 36.889655 / -107.405433	County or Parish/State: RIO
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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: VANESSA FIELDS

Name: LOGOS OPERATING LLC

Title: REGULATORY MANAGER

Street Address: 2010 AFTON PLACE

City: FARMINGTON

State: NM

Phone: (505) 324-4145

Email address: VFIELDS@LOGOSRESOURCESLLC.COM

Field

Representative Name: Street Address: City: State: Phone: Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK BLM POC Phone: 5055647742 Disposition: Approved Signature: Kenneth Rennick Signed on: MAY 04, 2023 11:33 AM

BLM POC Title: Petroleum Engineer

Zip:

BLM POC Email Address: krennick@blm.gov

Disposition Date: 05/04/2023



Re-Completion Procedure

DATE: May 4, 2023

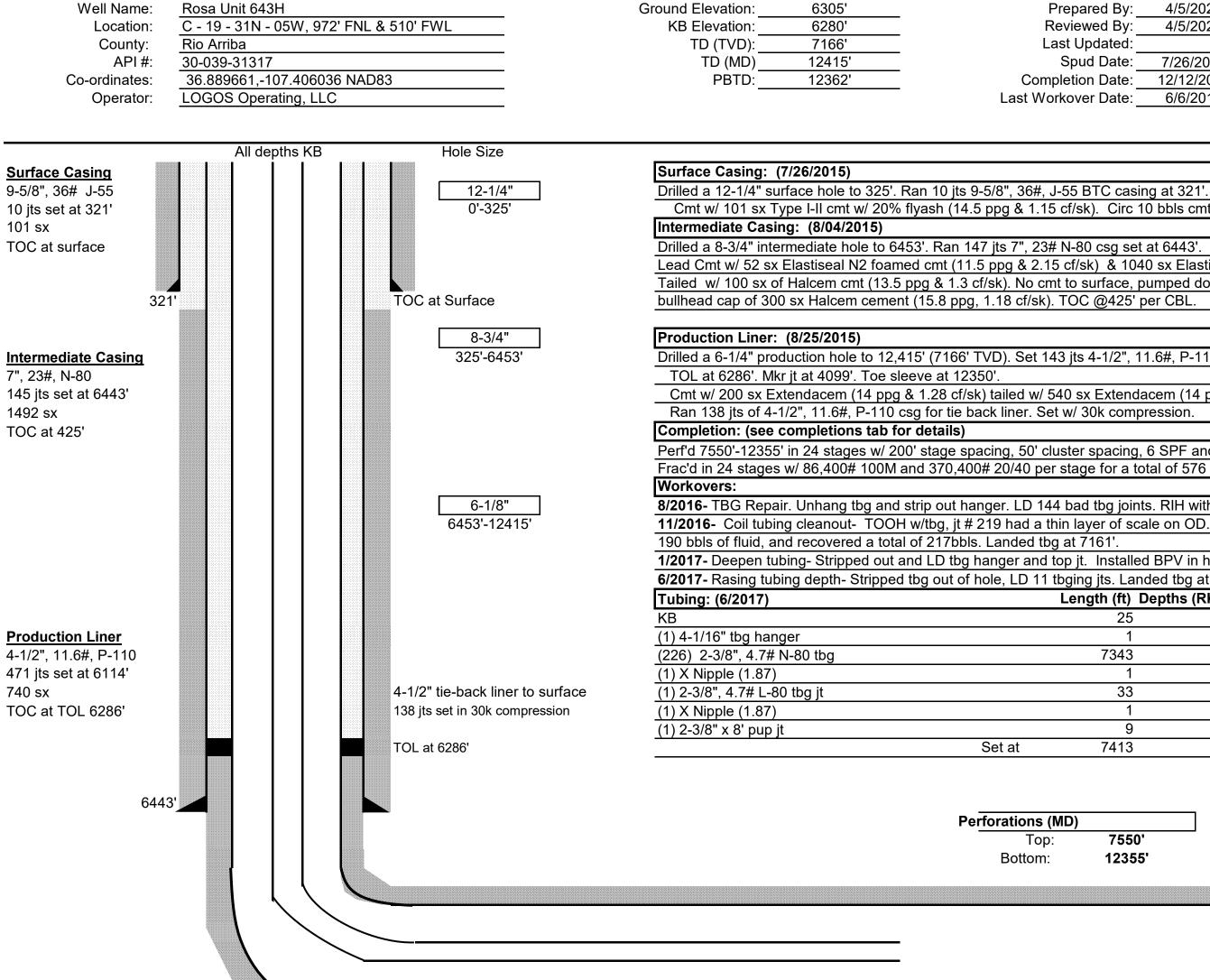
SUBJECT WELL:Rosa Unit 643HBasin MancosRio ArribaAPI # 30-039-31317

RE-STIMULATION:

- 1. MIRU workover rig.
- 2. TOOH with 2-3/8" tubing.
- 3. Rig up air package and TIH w/ bit circulating to cleanout to PBTD at 12,362'.
- 4. TIH w/ 4-1/2" RBP and pressure test to 7,500 psi (70% of burst).
- 5. Release and TOOH w/ 4-1/2" RBP and lay down same.
- 6. PU and RIH with tubing conveyed perforating guns.
- 7. Perforate within existing perforation interval (7,550'-12,355') with ~560 additional perforations
- 8. RU frac crew and iron and pressure test.
- 9. Using ball sealer isolation, frac well within existing completion interval with up to 10,900 klbs 40/70 and 100 mesh sand and 250 kbbl slickwater.
- 10. RDMO frac. MIRU workover rig to clean well out and reinstall tubing.



Wellbore Schematic



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

Prepared By:	4/5/2023	Peace
Reviewed By:	4/5/2023	CR
Last Updated:		
Spud Date:	7/26/2015	
Completion Date:	12/12/2015	
Last Workover Date:	6/6/2017	
-		

Cmt w/ 101 sx Type I-II cmt w/ 20% flyash (14.5 ppg & 1.15 cf/sk). Circ 10 bbls cmt to surface.

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

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).

Cmt w/ 200 sx Extendacem (14 ppg & 1.28 cf/sk) tailed w/ 540 sx Extendacem (14 ppg & 1.28 cf/sk). TOC @ TOL.

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.

8/2016- TBG Repair. Unhang tbg and strip out hanger. LD 144 bad tbg joints. RIH with new tbg hanger and landed tbg at 7156'. 11/2016- Coil tubing cleanout- TOOH w/tbg, jt # 219 had a thin layer of scale on OD. RIH to 12,321' cleaned out with coil tbg. Pump a total of 532,000 scf

1/2017- Deepen tubing- Stripped out and LD tbg hanger and top jt. Installed BPV in hanger and added 19 tbg jts landing tbg 599' deeper at 7760'. 6/2017- Rasing tubing depth- Stripped tbg out of hole, LD 11 tbging jts. Landed tbg at 7413'. Length (ft) Depths (RKB)

	Lengin (it) Depi	
	25	
	1	
	7343	
	1	
	33	
	1	
	9	
Set at	7413	

Perforations (MD)		Toe Sleeve		
Тор:	7550'	Toe Sleeve	12350'	
Bottom:	12355'			
			TOC at TOL @ 62	286'
				PBTD at 12362
				TD at 12415'
				12410'

9'	
4'	
3'	
5'	

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

CONDITIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	213941
	Action Type:
	[C-103] NOI Recompletion (C-103E)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	None	6/15/2023

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Action 213941

Released to Imaging: 6/15/2023 2:41:52 PM