U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report
01/29/2025

Well Name: JULANDER FEDERAL

Well Location: T29N / R11W / SEC 31 / NESW / 36.679565 / -108.034866

County or Parish/State: SAN JUAN / NM

Well Number: 1E

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: FEE

Unit or CA Name: JULANDER

Unit or CA Number: NMNM73585

US Well Number: 300452500000S1

Operator: LOGOS OPERATING LLC

Notice of Intent

Sundry ID: 2834472

Type of Submission: Notice of Intent

Type of Action: Workover Operations

Date Sundry Submitted: 01/29/2025

Time Sundry Submitted: 02:25

Date proposed operation will begin: 01/29/2025

Procedure Description: Bradenhead Remediation - Please see attached 3rd proposed repair procedure and wellbore

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Julander_1E_NOI_for_Bradenhead_Remediation_20250129142504.pdf

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US Well Number: 300452500000S1	**Operator:** LOGOS OPERATING LLC	

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: ETTA TRUJILLO

Signed on: JAN 29, 2025 02:26 PM

Name: LOGOS OPERATING LLC

Title: Regulatory Specialist

Street Address: 2010 AFTON PLACE

City: Farmington **State:** NM

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Email address: ETRUJILLO@LOGOSRESOURCESLLC.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

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: Approved

Disposition Date: 01/29/2025

Signature: Matthew Kade

Julander 1E NOI for Bradenhead Remediation

Initial Bradenhead Diagnostics

2/12-2/15/24 A workover rig was moved onto the Julander 1E to address a failed Bradenhead test.

A retrievable bridge plug was set at 5905' and the casing was tested to 500 psig. The casing passed the pressure test.

A radial cement bond log was run from the RBP to surface with 500 psig on the casing.

A radial cement bond log was run from the upper DV tool to surface with 0 psig on the casing.

The results of the cement bond logs are indicative of good cement quality and coverage to surface; however, due to the bradenhead test results, LOGOS obtained advisement from bradenhead remediation subject matter experts for analysis of the cement bond logs and diagnostics and remediation recommendations.

A noise log was run from the RBP at 5905' to surface. An acoustic event was indicated at 1450' which is near the Pictured Cliffs formation.

Based on the bond log and noise log results, the well has been diagnosed with a micro annulus.

Advanced Injection Test Diagnostics

3/28/24 A plumb bob was dropped down the bradenhead and tagged hard at 61" (presumed TOC). The plumb bob and string were dry. The results were corroborated with an Echometer shot indicating the TOC at ~6' from surface. A casing shot with the Echometer confirmed the presence of the bridge plug and the casing standing full of liquid.

A chart recorder was installed on the bradenhead gauge. The bradenhead blew down from 126 psi to 0 psi in 30 minutes. A very light blow remained on the bradenhead after reaching 0 psi.

An 8 pack of nitrogen bottles was rigged up the surface valve and pressure tested to conduct an N2 injection test.

Nitrogen was injected to 150 psi and the BH was shut in. Bleed down was monitored indicating 25 psi drop in 10 minutes.

Nitrogen was injected to 650 psi and the BH was shut in. Bleed down was monitored indicating 336 psi of bleed off to 314 psi in 7 minutes.

Nitrogen was injected to 1150 psi and the BH was shut in. Bleed down was monitored indicating 500 psi of bleed off to 650 psi in 9 minutes.

Could not build pressure to 1600 psi on BH. Pressure on nitrogen pack dropped to 1600 psi. Shut in at 1425 psi with bleed off of 1125 psi to 325 psi in 60 minutes.

Blew down 325 psi in 8 minutes to 0 psi with a very light blow.

Because nitrogen injection results were positive, it was determined to establish an injection rate and pressure with fresh water.

Rigged up a test pump to the surface casing.

Pumped 8 gal to load the annular space.

Pressured up to 500 psi and dropped to 40 psi in 5 minutes.

Pressured up to 1000 psi and dropped to 60 psi in 5 minutes.

Pressure up to 1600 psi and dropped to 125 psi in 5 minutes.

Pumped a total of 12-gal fresh water. Bled 125 psi down to 0 psi and recovered less than 1 gal water.

The results of the diagnostics positively indicate the ability to inject down the micro annulus; therefore, a pressure activated sealant repair procedure has been provided to include injection of both atomized pressure activated sealant in a nitrogen stream and a contingency plan for injecting a mix of water and sealant down the annulus in the event that an effective seal cannot be established with nitrogen and sealant.

Remediation Procedure Based on Diagnostic Results

1. Rig up wireline with Local Expander Tool. Conduct a series of 8 casing expansions to seal the microannulus and cut off the path of gas migration that was identified during the diagnostic process **(acoustic anomaly was identified at ~1450', top of PC at 1464', top of Fruitland Coal at**

   Expansion to be placed at the following depths:
   1. Deep protection of the PC
      a. Sequence 1: 1479'-1481' (3 expansions per sequence)
      b. Sequence 2: 1472'-1474' (3 expansions per sequence)
   2. Deep isolation of the potential leak path, shallow protection of the PC
      a. Sequence 3: 1417'-1419' (3 expansions per sequence)
   3. Tertiary shallow isolation of the potential leak path
      a. Sequence 4: 1377'-1379'
   4. Secondary shallow isolation of the potential leak path
      a. Sequence 5: 1369'-1371'
   5. Primary shallow isolation of the potential leak path
      a. Sequence 6: 1359'-1361'
   6. Primary isolation of the Fruitland Coal top and surface path
      a. Sequence 7: 1043'-1045'
   7. Secondary isolation of the Fruitland Coal top and surface path
      a. Sequence 8: 1009'-1011'

2. Rig down, move wireline off location.

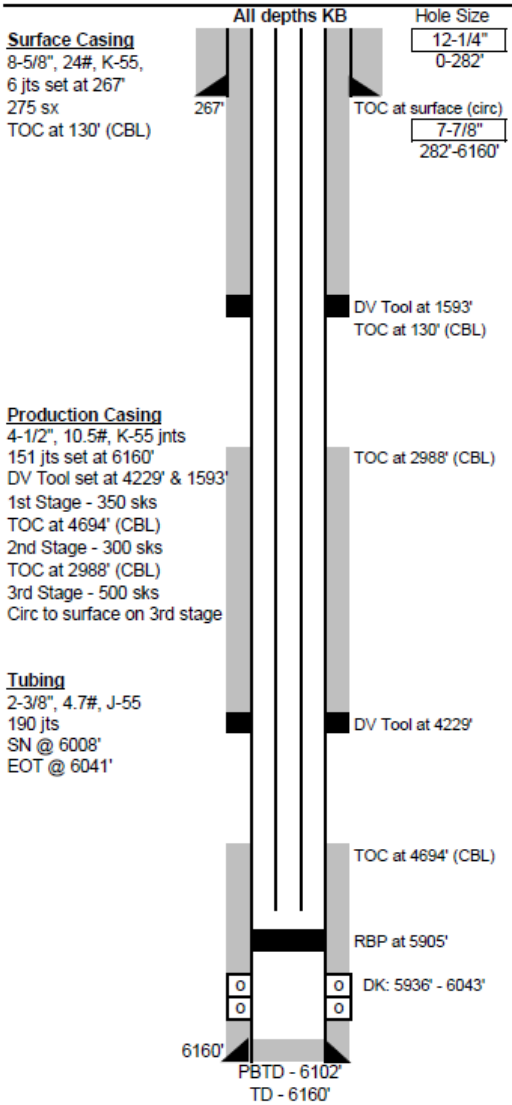
3. Conduct follow up bradenhead test.

4. If Bradenhead flow and pressure are satisfactorily resolved, MIRU workover rig to remove RBP, run tubing and return well to service.

5. RDMO workover rig.

Well Schematic

Well Name:	Julander Federal 1E	Date Prepared:	11/16/2023 Peace
Location:	UL K, Sec 31, T29N, R11W & 1525' FSL & 1840' FWL	Reviewed By:	11/20/2023 CR
County:	San Juan	Spud Date:	10/6/1981
API #:	30-045-25000	Completion Date:	10/25/1981
Co-ordinates:	Lat 36.6797485° Long -108.0354767° NAD83	Last Workover Date:	N/A
Elevations:	GROUND: 5441'		
	KB: 5452'		
Depths (KB):	PBTD: 6102'		
	TD: 6160'		



Surface Casing: (10/6/1981)
Drilled 12-1/4" surface hole to 282'. Ran 6 jnts 8-5/8", 24#, K-55 csg set at 267'. Cemented w/ 275 sks Class B w/ 3% CaCl. Circulated to surface.

Production Casing: (10/23/1981)
Drilled 7-7/8" prod hole to 6160'. Ran 151 jts 4-1/2", 10.5#, K-55 csg set at 6160'. DV Tool set at 4229' & 1593'
1st Stage - 250 sks 50/50 POZ mix w/ 2% gel & 10% salt & 100 sks class B w/ 2% CaCl. TOC at 4694' (CBL - 2024)
2nd Stage - 250 sks 50/50 POZ mix w/ 8% gel & 10# gilsonite/sk & 50 sks Class B w/ 2% CaCl. TOC at 2988' (CBL - 2024)
3rd Stage - 300 sks 65/35/12 w/ 12.5# gilsonite/sk & 200 sks of Class B w/ 2% CaCl. TOC at 130' (CBL - 2024)

Tubing: (02/2024)	length (ft)
KB	11
(183) 2-3/8", 4.7#, J-55 tubing joints	5787
1.78" seat nipple	1
(2) 2-3/8", 4.7#, J-55 tubing joint	65
(1) Retrieving tool	2
Set at:	5866

Artificial Lift
NA

Perforations: (10/25/1981)
Dakota: (5936'-6043'). 5936',38',42',44',60',64',66',6014',16',18',20',23', 25',27', 29',31',33',35',37',41',43'. Perf'd 21 holes, 0.42". Frac w/ 300 gal 10% acetic acid 2000 gal 7.5% NE HCL, and 10,000# of 20/40 sand.

Formations:

Ojo Alamo-	285'	Menefee-	3124'
Kirtland	385'	Point Lookout-	3838'
Fruitland Coal-	1056'	Mancos-	4183'
Pictured Cliffs-	1464'	Gallup-	5071'
Chacra-	2416'	Dakota-	5928'
Cliff House-	3021'		

Additional Notes:
10/1981- Drilled and completed at as a Dokota.

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

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 426342
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	OCD requires a pre LET job and post LET job caliper log from the DV tool to surface.	2/3/2025
ward.rikala	OCD requires a pre LET and post LET CBL from DV tool to surface.	2/3/2025
ward.rikala	The depths authorized for use are 1480', 1473', 1418', 1378', 1370', 1360', 1044', and 1011'.	2/3/2025
ward.rikala	Perform MIT in 30 days and another 1 year from date of workover.	2/3/2025
ward.rikala	Perform Bradenhead test in 30 days, another in 6 months, another in one year and then annually after that.	2/3/2025