NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 320-0243
File Via OCD Permitting

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 7/16/25 Operator Logos API #30-0 39-21703

Property Name Rosa Unit Well No. 64 Location: Unit A Section 29 Township 31N Range 5W

Well Status(Shut-In or Producing) Initial PSI: Tubing 187 Intermediate 799 Casing 187 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE Bradenhead BH	Bradenhead Int	Bradenhead Csg	INTERM Int	INTERM Csg
TIME 5 min	[redacted]0	799	188	37	189
10 min	0	800	188	28	189
15 min	0	800	188	22	189
20 min				19	189
25 min				13	189
30 min				10	189

FLOW CHARACTERISTICS	BRADENHEAD	INTERMEDIATE
Steady Flow		
Surges		
Down to Nothing		
Nothing	✓	
Gas		
Gas & Water		✓
Water		

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR_____ FRESH_____ SALTY_____ SULFUR_____ BLACK_____ Brown

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 0 INTERMEDIATE 12

REMARKS: BH had nothing Entire test

Inter had [redacted]803 within two min and blew [redacted] foam

Never blew down to Zero

By Jason Moore Witness Rooster Foster

Production Lead Area 1
(Position)

E-mail address jmoore@logosresourcesllc.com

Well Name: ROSA UNIT #64; INT
API #: 30-039-21703
Source: INTERMEDIATE CASING
Sample Type: GAS

Analysis No: LG20250318
Cust No: 46600-12235

Well/Lease Information

Customer Name:	LOGOS OPERATING LLC	Source:	INTERMEDIATE CASING
Well Name:	ROSA UNIT #64; INT	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	340 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	76 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	30-039-21703	Sample Method:	Purge & Fill
		Sample Date:	07/14/2025
	CC: 6204117	Sample Time:	11.55 AM
	AREA 1	Sampled By:	SEAN MOORE
Heat Trace:	N	Sampled by (CO):	LOGOS
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1185	0.1183	0.0130	0.00	0.0011
CO2	1.2103	1.2086	0.2070	0.00	0.0184
Methane	95.8974	95.7601	16.2890	968.56	0.5312
Ethane	2.1282	2.1252	0.5700	37.66	0.0221
Propane	0.4374	0.4368	0.1210	11.01	0.0067
Iso-Butane	0.0711	0.0710	0.0230	2.31	0.0014
N-Butane	0.0640	0.0639	0.0200	2.09	0.0013
I-Pentane	0.0248	0.0248	0.0090	0.99	0.0006
N-Pentane	0.0106	0.0106	0.0040	0.42	0.0003
Hexane Plus	0.0377	0.0376	0.0170	1.99	0.0012
Total	100.0000	99.8569	17.2730	1025.04	0.5843

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0022	CYLINDER #:	2079
BTU/CU.FT IDEAL:	1027.4	CYLINDER PRESSURE:	340 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1029.7	ANALYIS DATE:	07/23/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1011.8	ANALYIS TIME:	11:04:00 AM
DRY BTU @ 15.025:	1050.3	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5854		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.
GPA Standard: GPA-2261
GC: Danalyzer Model 500 **Last Cal/Verify: 07/24/2025**
GC Method: C6+ Gas

LOGOS OPERATING LLC

WELL ANALYSIS COMPARISON

Lease:	ROSA UNIT #64; INT	INTERMEDIATE CASING	07/24/2025
Stn. No.:	30-039-21703		46600-12235
Mtr. No.:			

Smpl Date:	07/14/2025
Test Date:	07/23/2025
Run No:	LG20250318
Nitrogen:	0.1185
CO2:	1.2103
Methane:	95.8974
Ethane:	2.1282
Propane:	0.4374
I-Butane:	0.0711
N-Butane:	0.0640
I-Pentane:	0.0248
N-Pentane:	0.0106
Hexane+:	0.0377
BTU:	1029.7
GPM:	17.2730
SPG:	0.5854

Well Name: ROSA UNIT #64; CSG
API #: 30-039-21703
Source: CASING
Sample Type: GAS

Analysis No: LG20250317
Cust No: 46600-12230

Well/Lease Information

Customer Name:	LOGOS OPERATING LLC	Source:	CASING
Well Name:	ROSA UNIT #64; CSG	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	147 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	76 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	30-039-21703	Sample Method:	Purge & Fill
		Sample Date:	07/14/2025
	CC: 6204117	Sample Time:	11.40 AM
	AREA 1	Sampled By:	SEAN MOORE
Heat Trace:	N	Sampled by (CO):	LOGOS
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2171	0.2166	0.0240	0.00	0.0021
CO2	2.9647	2.9579	0.5070	0.00	0.0450
Methane	95.6764	95.4586	16.2500	966.33	0.5300
Ethane	0.8862	0.8842	0.2370	15.68	0.0092
Propane	0.1427	0.1424	0.0390	3.59	0.0022
Iso-Butane	0.0301	0.0300	0.0100	0.98	0.0006
N-Butane	0.0222	0.0221	0.0070	0.72	0.0004
I-Pentane	0.0111	0.0111	0.0040	0.44	0.0003
N-Pentane	0.0041	0.0041	0.0010	0.16	0.0001
Hexane Plus	0.0454	0.0453	0.0200	2.39	0.0015
Total	100.0000	99.7723	17.0990	990.31	0.5914

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0021	CYLINDER #:	2060
BTU/CU.FT IDEAL:	992.6	CYLINDER PRESSURE:	147 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	994.7	ANALYIS DATE:	07/21/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	977.4	ANALYIS TIME:	10:59:08 AM
DRY BTU @ 15.025:	1014.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.5924		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.
GPA Standard: GPA-2261
GC: Danalyzer Model 500 **Last Cal/Verify: 07/24/2025**
GC Method: C6+ Gas

LOGOS OPERATING LLC

WELL ANALYSIS COMPARISON

Lease:	ROSA UNIT #64; CSG	CASING	07/24/2025
Stn. No.:	30-039-21703		46600-12230
Mtr. No.:			

Smpl Date:	07/14/2025
Test Date:	07/21/2025
Run No:	LG20250317
Nitrogen:	0.2171
CO2:	2.9647
Methane:	95.6764
Ethane:	0.8862
Propane:	0.1427
I-Butane:	0.0301
N-Butane:	0.0222
I-Pentane:	0.0111
N-Pentane:	0.0041
Hexane+:	0.0454
BTU:	994.7
GPM:	17.0990
SPG:	0.5924

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 489747

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 489747
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
andrew.fordyce	None	12/19/2025