



Well Name: WRIGHT STATE COM 1;
 API #: 3004511201
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: LG20240483
 Cust No: 46600-12160

Well/Lease Information

Customer Name: LOGOS OPERATING LLC	Source: BRADENHEAD
Well Name: WRIGHT STATE COM 1; BHD	Well Flowing:
County/State: SAN JUAN NM	Pressure: 75 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: B111-24-24	Ambient Temp: DEG. F
Formation: DK	Flow Rate: MCF/D
Cust. Stn. No.: 3004511201	Sample Method:
	Sample Date: 12/17/2024
	Sample Time: 2.31 PM
	Sampled By: RICHARD F.
	Sampled by (CO): LOGOS

Heat Trace: AREA #4

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1479	0.1491	0.0160	0.00	0.0014
CO2	0.5153	0.5194	0.0880	0.00	0.0078
Methane	77.0173	77.6260	13.1240	777.87	0.4266
Ethane	8.1688	8.2334	2.1960	144.56	0.0848
Propane	4.1557	4.1886	1.1510	104.56	0.0633
Iso-Butane	1.0918	1.1004	0.3590	35.50	0.0219
N-Butane	2.1856	2.2029	0.6930	71.30	0.0439
I-Pentane	1.4885	1.5003	0.5470	59.55	0.0371
N-Pentane	1.4362	1.4476	0.5230	57.57	0.0358
Hexane Plus	3.7929	3.8229	1.7000	199.93	0.1255
Total	100.0000	100.7906	20.3970	1450.86	0.8481

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0054	CYLINDER #:	009
BTU/CU.FT IDEAL:	1454.2	CYLINDER PRESSURE:	16 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1462.1	ANALYSIS DATE:	12/18/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1436.7	ANALYSIS TIME:	10:31:17 AM
DRY BTU @ 15.025:	1491.4	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.8524		

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: 12/18/2024

GC Method: C6+ Gas



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease:	WRIGHT STATE COM 1; BHD	BRADENHEAD	12/18/2024
Stn. No.:	3004511201	DK	46600-12160
Mtr. No.:			

Smpl Date:	12/17/2024
Test Date:	12/18/2024
Run No:	LG20240483
Nitrogen:	0.1479
CO2:	0.5153
Methane:	77.0173
Ethane:	8.1688
Propane:	4.1557
I-Butane:	1.0918
N-Butane:	2.1856
I-Pentane:	1.4885
N-Pentane:	1.4362
Hexane+:	3.7929
BTU:	1462.1
GPM:	20.3970
SPG:	0.8524



Well Name: WRIGHT STATE COM 1;
 API #: 3004511201
 Source: CASING
 Sample Type: GAS
 Analysis No: LG20240484
 Cust No: 46600-12165

Well/Lease Information

Customer Name: LOGOS OPERATING LLC
 Well Name: WRIGHT STATE COM 1; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: B111-24-24
 Formation: DK
 Cust. Stn. No.: 3004511201

Source: CASING
 Well Flowing:
 Pressure: 86 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 51 DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 12/17/2024
 Sample Time: 2.15 PM
 Sampled By: RICHARD F.
 Sampled by (CO): LOGOS

Heat Trace: AREA #4
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1577	0.1586	0.0170	0.00	0.0015
CO2	0.5105	0.5135	0.0870	0.00	0.0078
Methane	83.1655	83.6561	14.1450	839.97	0.4607
Ethane	8.6579	8.7090	2.3230	153.22	0.0899
Propane	3.8550	3.8777	1.0650	97.00	0.0587
Iso-Butane	0.7602	0.7647	0.2500	24.72	0.0153
N-Butane	1.2468	1.2542	0.3940	40.67	0.0250
I-Pentane	0.4746	0.4774	0.1740	18.99	0.0118
N-Pentane	0.3796	0.3818	0.1380	15.22	0.0095
Hexane Plus	0.7922	0.7969	0.3540	41.76	0.0262
Total	100.0000	100.5899	18.9470	1231.54	0.7063

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1234.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1217.0
 DRY BTU @ 15.025: 1263.4
 REAL SPECIFIC GRAVITY: 0.7084

CYLINDER #: 26
 CYLINDER PRESSURE: 63 PSIG
 ANALYSIS DATE: 12/18/2024
 ANALYSIS TIME: 10:23:20 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 12/18/2024

GC Method: C6+ Gas



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease:	WRIGHT STATE COM 1; CSG	CASING	12/18/2024
Stn. No.:	3004511201	DK	46600-12165
Mtr. No.:			

Smpl Date:	12/17/2024
Test Date:	12/18/2024
Run No:	LG20240484
Nitrogen:	0.1577
CO2:	0.5105
Methane:	83.1655
Ethane:	8.6579
Propane:	3.8550
I-Butane:	0.7602
N-Butane:	1.2468
I-Pentane:	0.4746
N-Pentane:	0.3796
Hexane+:	0.7922
BTU:	1238.6
GPM:	18.9470
SPG:	0.7084



Well Name: WRIGHT STATE COM 1;
 API #: 3004511201
 Source: TUBING
 Sample Type: GAS
 Analysis No: LG20240485
 Cust No: 46600-12170

Well/Lease Information

Customer Name:	LOGOS OPERATING LLC	Source:	TUBING
Well Name:	WRIGHT STATE COM 1; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	41 PSIG
Location:		Flow Temp:	48 DEG. F
Lease/PA/CA:	B111-24-24	Ambient Temp:	51 DEG. F
Formation:	DK	Flow Rate:	222 MCF/D
Cust. Stn. No.:	3004511201	Sample Method:	
		Sample Date:	12/17/2024
		Sample Time:	2.04 PM
		Sampled By:	RICHARD F.
		Sampled by (CO):	LOGOS

Heat Trace: AREA #4
N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1951	0.1962	0.0220	0.00	0.0019
CO2	0.7497	0.7538	0.1280	0.00	0.0114
Methane	83.1707	83.6302	14.1460	840.02	0.4607
Ethane	8.6678	8.7157	2.3260	153.39	0.0900
Propane	3.6553	3.6755	1.0100	91.97	0.0557
Iso-Butane	0.6958	0.6996	0.2280	22.63	0.0140
N-Butane	1.1361	1.1424	0.3590	37.06	0.0228
I-Pentane	0.4275	0.4299	0.1570	17.10	0.0106
N-Pentane	0.3337	0.3355	0.1210	13.38	0.0083
Hexane Plus	0.9683	0.9736	0.4330	51.04	0.0320
Total	100.0000	100.5524	18.9300	1226.60	0.7074

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1229.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1233.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1212.1
 DRY BTU @ 15.025: 1258.3
 REAL SPECIFIC GRAVITY: 0.7095

CYLINDER #: 1384
 CYLINDER PRESSURE: 34 PSIG
 ANALYSIS DATE: 12/18/2024
 ANALYSIS TIME: 10:41:30 AM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 12/18/2024

GC Method: C6+ Gas



LOGOS OPERATING LLC
WELL ANALYSIS COMPARISON

Lease:	WRIGHT STATE COM 1; TBG	TUBING	12/18/2024
Stn. No.:	3004511201	DK	46600-12170
Mtr. No.:			

Smpl Date:	12/17/2024
Test Date:	12/18/2024
Run No:	LG20240485
Nitrogen:	0.1951
CO2:	0.7497
Methane:	83.1707
Ethane:	8.6678
Propane:	3.6553
I-Butane:	0.6958
N-Butane:	1.1361
I-Pentane:	0.4275
N-Pentane:	0.3337
Hexane+:	0.9683
BTU:	1233.6
GPM:	18.9300
SPG:	0.7095

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 415722

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 415722
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Bradenhead and production casing do not appear to be the same gas	12/31/2024