



Well Name: SAN JUAN UNIT 30-4 #62;
 API #: 3003930159
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: MS20250179
 Cust No: 53400-11990

Well/Lease Information

Customer Name: MORNINGSTAR	Source: BRADENHEAD
Well Name: SAN JUAN UNIT 30-4 #62; BHD	Well Flowing: N
County/State: RIO ARRIBA NM	Pressure: 74.5 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NMSF-079485B	Ambient Temp: 76 DEG. F
Formation: EAST BLANCO PICTURE CLIFFS	Flow Rate: 130 MCF/D
Cust. Stn. No.: 3003930159	Sample Method: Purge & Fill
	Sample Date: 08/07/2025
	Sample Time: 9.35 AM
	Sampled By: J.P.
Heat Trace: N	Sampled by (CO): MORNINGSTAR
Remarks: PRESSURED WITH HELIUM TO 30 LBS.	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.1098	0.6533	0.2330	0.00	0.0204
CO2	0.1431	0.0443	0.0240	0.00	0.0022
Methane	90.8994	28.1470	15.4460	918.08	0.5035
Ethane	4.8939	1.5154	1.3120	86.61	0.0508
Propane	0.2923	0.0905	0.0810	7.35	0.0045
Iso-Butane	0.0794	0.0246	0.0260	2.58	0.0016
N-Butane	0.1763	0.0546	0.0560	5.75	0.0035
I-Pentane	0.1108	0.0343	0.0410	4.43	0.0028
N-Pentane	0.1460	0.0452	0.0530	5.85	0.0036
Hexane Plus	1.1490	0.3558	0.5140	60.56	0.0380
Total	100.0000	30.9650	17.7860	1091.23	0.6309

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0026	CYLINDER #:	5039
BTU/CU.FT IDEAL:	1093.8	CYLINDER PRESSURE:	9 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1096.6	ANALYSIS DATE:	08/13/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1077.5	ANALYSIS TIME:	02:05:53 PM
DRY BTU @ 15.025:	1118.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6323		

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: 08/20/2025

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN UNIT 30-4 #62; BHD	BRADENHEAD	08/20/2025
Stn. No.:	3003930159	EAST BLANCO PICTURE	53400-11990
Mtr. No.:			

Smpl Date:	08/07/2025	06/08/2023
Test Date:	08/13/2025	06/12/2023
Run No:	MS20250179	MS20230172
Nitrogen:	2.1098	0.5593
CO2:	0.1431	0.0812
Methane:	90.8994	94.0150
Ethane:	4.8939	5.0346
Propane:	0.2923	0.1868
I-Butane:	0.0794	0.0465
N-Butane:	0.1763	0.0096
I-Pentane:	0.1108	0.0105
N-Pentane:	0.1460	0.0024
Hexane+:	1.1490	0.0541
BTU:	1096.6	1053.3
GPM:	17.7860	17.4930
SPG:	0.6323	0.5868



Well Name: SAN JUAN UNIT 30-4 #62;
 API #: 30043930159
 Source: CASING
 Sample Type: GAS
 Analysis No: MS20250180
 Cust No: 53400-11995

Well/Lease Information

Customer Name: MORNINGSTAR	Source: CASING
Well Name: SAN JUAN UNIT 30-4 #62; CSG	Well Flowing: N
County/State: RIO ARRIBA NM	Pressure: 192 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NMSF-079485B	Ambient Temp: 76 DEG. F
Formation: BFC	Flow Rate: 130 MCF/D
Cust. Stn. No.: 30043930159	Sample Method: Purge & Fill
	Sample Date: 08/07/2025
	Sample Time: 10.01 AM
	Sampled By: JASON PEACE
	Sampled by (CO): MORNINGSTAR
Heat Trace: N	
Remarks:	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1306	0.1288	0.0140	0.00	0.0013
CO2	0.7281	0.7181	0.1250	0.00	0.0111
Methane	95.1584	93.8558	16.1670	961.10	0.5271
Ethane	2.0816	2.0531	0.5580	36.84	0.0216
Propane	0.7902	0.7794	0.2180	19.88	0.0120
Iso-Butane	0.1538	0.1517	0.0500	5.00	0.0031
N-Butane	0.2052	0.2024	0.0650	6.69	0.0041
I-Pentane	0.0777	0.0766	0.0280	3.11	0.0019
N-Pentane	0.0608	0.0600	0.0220	2.44	0.0015
Hexane Plus	0.6136	0.6052	0.2740	32.34	0.0203
Total	100.0000	98.6311	17.5210	1067.41	0.6040

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024	CYLINDER #:	4131
BTU/CU.FT IDEAL:	1069.9	CYLINDER PRESSURE:	192 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1072.4	ANALYSIS DATE:	08/13/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1053.7	ANALYSIS TIME:	02:12:29 PM
DRY BTU @ 15.025:	1093.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6052		

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: 08/20/2025

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN UNIT 30-4 #62; CSG	CASING	08/20/2025
Stn. No.:	30043930159	BFC	53400-11995
Mtr. No.:			

Smpl Date:	08/07/2025	06/22/2023
Test Date:	08/13/2025	06/28/2023
Run No:	MS20250180	MS20230179
Nitrogen:	0.1306	0.0988
CO2:	0.7281	1.0830
Methane:	95.1584	94.8010
Ethane:	2.0816	2.1345
Propane:	0.7902	0.8039
I-Butane:	0.1538	0.1679
N-Butane:	0.2052	0.2327
I-Pentane:	0.0777	0.0810
N-Pentane:	0.0608	0.0626
Hexane+:	0.6136	0.5346
BTU:	1072.4	1067.5
GPM:	17.5210	17.5170
SPG:	0.6052	0.6074



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Analysis No: MS20250181
 Cust No: 53400-12000

Well/Lease Information

Customer Name:	MORNINGSTAR	Source:	METER RUN
Well Name:	SAN JUAN UNIT 30-4 #62; TBG	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	163 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:	NMSF-079485B	Ambient Temp:	76 DEG. F
Formation:	BFC	Flow Rate:	130 MCF/D
Cust. Stn. No.:	3003930159	Sample Method:	Purge & Fill
		Sample Date:	08/07/2025
		Sample Time:	9.56 AM
		Sampled By:	J.P.
Heat Trace:	N	Sampled by (CO):	MORNINGSTAR
Remarks:			

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1076	0.1065	0.0120	0.00	0.0010
CO2	1.5609	1.5453	0.2670	0.00	0.0237
Methane	94.4561	93.5130	16.0480	954.01	0.5232
Ethane	2.1098	2.0887	0.5650	37.34	0.0219
Propane	0.8228	0.8146	0.2270	20.70	0.0125
Iso-Butane	0.1636	0.1620	0.0540	5.32	0.0033
N-Butane	0.2540	0.2515	0.0800	8.29	0.0051
I-Pentane	0.1003	0.0993	0.0370	4.01	0.0025
N-Pentane	0.0949	0.0940	0.0340	3.80	0.0024
Hexane Plus	0.3300	0.3267	0.1470	17.39	0.0109
Total	100.0000	99.0016	17.4710	1050.86	0.6065

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0024	CYLINDER #:	7047
BTU/CU.FT IDEAL:	1053.3	CYLINDER PRESSURE:	156 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1055.8	ANALYSIS DATE:	08/13/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1037.4	ANALYSIS TIME:	01:58:38 PM
DRY BTU @ 15.025:	1076.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6078		

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: 08/20/2025

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN UNIT 30-4 #62; TBG	METER RUN	08/20/2025
Stn. No.:	3003930159	BFC	53400-12000
Mtr. No.:			

Smpl Date:	08/07/2025	06/22/2023
Test Date:	08/13/2025	06/28/2023
Run No:	MS20250181	MS20230180
Nitrogen:	0.1076	0.0952
CO2:	1.5609	1.4791
Methane:	94.4561	94.7641
Ethane:	2.1098	2.0994
Propane:	0.8228	0.7862
I-Butane:	0.1636	0.1629
N-Butane:	0.2540	0.2239
I-Pentane:	0.1003	0.0757
N-Pentane:	0.0949	0.0576
Hexane+:	0.3300	0.2559
BTU:	1055.8	1050.3
GPM:	17.4710	17.4280
SPG:	0.6078	0.6028

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 498217

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 498217
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/9/2026