



Well Name: SAN JUAN 30-4 UNIT #41;
 API #: 3003925937
 Source: TUBING
 Sample Type: GAS
 Analysis No: MS20250176
 Cust No: 53400-12070

Well/Lease Information

Customer Name: MORNINGSTAR	Source: TUBING
Well Name: SAN JUAN 30-4 UNIT #41;TBG	Well Flowing: N
County/State: RIO ARRIBA NM	Pressure: 63 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NMSF #079485A	Ambient Temp: 76 DEG. F
Formation:	Flow Rate: 48 MCF/D
Cust. Stn. No.: 3003925937	Sample Method: Purge & Fill
	Sample Date: 08/07/2025
	Sample Time: 9.16 AM
	Sampled By: JASON PEACE
	Sampled by (CO): MORNINGSTAR
Heat Trace: N	
Remarks:	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1007	0.0997	0.0110	0.00	0.0010
CO2	1.9530	1.9330	0.3340	0.00	0.0297
Methane	91.6543	90.7168	15.5730	925.71	0.5077
Ethane	4.3690	4.3243	1.1710	77.32	0.0454
Propane	1.0571	1.0463	0.2920	26.60	0.0161
Iso-Butane	0.1761	0.1743	0.0580	5.73	0.0035
N-Butane	0.1947	0.1927	0.0620	6.35	0.0039
I-Pentane	0.0781	0.0773	0.0290	3.12	0.0019
N-Pentane	0.0567	0.0561	0.0210	2.27	0.0014
Hexane Plus	0.3603	0.3566	0.1610	18.99	0.0119
Total	100.0000	98.9771	17.7120	1066.09	0.6225

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0025	CYLINDER #:	7055
BTU/CU.FT IDEAL:	1068.6	CYLINDER PRESSURE:	63 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1071.2	ANALYSIS DATE:	08/13/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1052.6	ANALYSIS TIME:	02:22:02 PM
DRY BTU @ 15.025:	1092.7	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6238		

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 30-4 UNIT #41;TBG TUBING 08/20/2025
Stn. No.: 3003925937 53400-12070
Mtr. No.:

Smpl Date: 08/07/2025
Test Date: 08/13/2025
Run No: MS20250176
Nitrogen: 0.1007
CO2: 1.9530
Methane: 91.6543
Ethane: 4.3690
Propane: 1.0571
I-Butane: 0.1761
N-Butane: 0.1947
I-Pentane: 0.0781
N-Pentane: 0.0567
Hexane+: 0.3603
BTU: 1071.2
GPM: 17.7120
SPG: 0.6238



Well Name: SAN JUAN 30-4 UNIT #41;
 API #: 3003925937
 Source: CASING
 Sample Type: GAS
 Analysis No: MS20250177
 Cust No: 53400-12075

Well/Lease Information

Customer Name: MORNINGSTAR	Source: CASING
Well Name: SAN JUAN 30-4 UNIT #41; CSG	Well Flowing: N
County/State: RIO ARRIBA NM	Pressure: 64 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NMSF #079485A	Ambient Temp: 76 DEG. F
Formation:	Flow Rate: 48 MCF/D
Cust. Stn. No.: 3003925937	Sample Method: Purge & Fill
	Sample Date: 08/07/2025
	Sample Time: 9.06 AM
	Sampled By: JASON PEACE
	Sampled by (CO): MORNINGSTAR
Heat Trace: N	
Remarks:	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1160	0.1151	0.0130	0.00	0.0011
CO2	3.5796	3.5524	0.6130	0.00	0.0544
Methane	86.4955	85.8393	14.7020	873.60	0.4791
Ethane	6.4810	6.4318	1.7380	114.69	0.0673
Propane	1.7836	1.7701	0.4930	44.88	0.0272
Iso-Butane	0.2554	0.2535	0.0840	8.31	0.0051
N-Butane	0.3955	0.3925	0.1250	12.90	0.0079
I-Pentane	0.1783	0.1769	0.0650	7.13	0.0044
N-Pentane	0.1358	0.1348	0.0490	5.44	0.0034
Hexane Plus	0.5793	0.5749	0.2590	30.54	0.0192
Total	100.0000	99.2413	18.1410	1097.50	0.6691

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	4067
BTU/CU.FT IDEAL:	1100.0	CYLINDER PRESSURE:	64 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1103.1	ANALYSIS DATE:	08/13/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1083.9	ANALYSIS TIME:	02:28:40 PM
DRY BTU @ 15.025:	1125.2	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6707		

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



Well Name: SAN JUAN 30-4 UNIT #41;
 API #: 3003925937
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: MS20250178
 Cust No: 53400-12080

Well/Lease Information

Customer Name: MORNINGSTAR	Source: INTERMEDIATE CASING
Well Name: SAN JUAN 30-4 UNIT #41; INT	Well Flowing: N
County/State: RIO ARRIBA NM	Pressure: 30 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NMSF #079485A	Ambient Temp: 76 DEG. F
Formation:	Flow Rate: 48 MCF/D
Cust. Stn. No.: 3003925937	Sample Method: Purge & Fill
	Sample Date: 08/07/2025
	Sample Time: 12.23 PM
	Sampled By: JASON PEACE
Heat Trace: N	Sampled by (CO): MORNINGSTAR
Remarks:	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4525	0.4501	0.0500	0.00	0.0044
CO2	0.2940	0.2924	0.0500	0.00	0.0045
Methane	84.5400	84.0936	14.3730	853.85	0.4683
Ethane	9.3591	9.3097	2.5100	165.63	0.0972
Propane	3.2709	3.2536	0.9040	82.30	0.0498
Iso-Butane	0.3474	0.3456	0.1140	11.30	0.0070
N-Butane	0.6487	0.6453	0.2050	21.16	0.0130
I-Pentane	0.2025	0.2014	0.0740	8.10	0.0050
N-Pentane	0.1628	0.1619	0.0590	6.53	0.0041
Hexane Plus	0.7221	0.7183	0.3230	38.06	0.0239
Total	100.0000	99.4719	18.6620	1186.93	0.6771

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	6095
BTU/CU.FT IDEAL:	1189.7	CYLINDER PRESSURE:	40 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1193.4	ANALYSIS DATE:	08/13/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1172.6	ANALYSIS TIME:	02:36:26 PM
DRY BTU @ 15.025:	1217.3	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6789		

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 30-4 UNIT #41; INT INTERMEDIATE CASING 08/20/2025
Stn. No.: 3003925937 53400-12080
Mtr. No.:

Smpl Date: 08/07/2025
Test Date: 08/13/2025
Run No: MS20250178
Nitrogen: 0.4525
CO2: 0.2940
Methane: 84.5400
Ethane: 9.3591
Propane: 3.2709
I-Butane: 0.3474
N-Butane: 0.6487
I-Pentane: 0.2025
N-Pentane: 0.1628
Hexane+: 0.7221
BTU: 1193.4
GPM: 18.6620
SPG: 0.6789

Sante Fe Main Office
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General Information
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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 498216

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 498216
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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