



Well Name: SAN JUAN 27-5 UNIT 57;
 API #: 3003907082
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20250039
 Cust No: 35825-11285

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: INTERMEDIATE CASING
Well Name: SAN JUAN 27-5 UNIT 57; INT	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 0 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: DEG. F
Formation: DK/MV	Flow Rate: MCF/D
Cust. Stn. No.: 3003907082	Sample Method: Purge & Fill
75229-011	Sample Date: 04/30/2025
AREA 14 / RUN 1400	Sample Time: 10.52 AM
Heat Trace: N	Sampled By: ROMAN VALDEZ
Remarks: PRESSURED WITH HELIUM TO 30 LBS.	Sampled by (CO):

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3270	0.2654	0.1460	0.00	0.0128
CO2	0.0555	0.0111	0.0090	0.00	0.0008
Methane	85.5888	17.1182	14.5530	864.45	0.4741
Ethane	6.3413	1.2683	1.7010	112.22	0.0658
Propane	3.6839	0.7368	1.0180	92.69	0.0561
Iso-Butane	0.4255	0.0851	0.1400	13.84	0.0085
N-Butane	1.1790	0.2358	0.3730	38.46	0.0237
I-Pentane	0.2600	0.0520	0.0950	10.40	0.0065
N-Pentane	0.1270	0.0254	0.0460	5.09	0.0032
Hexane Plus	1.0120	0.2024	0.4530	53.34	0.0335
Total	100.0000	20.0005	18.5340	1190.50	0.6850

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	2162
BTU/CU.FT IDEAL:	1193.2	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1197.1	ANALYSIS DATE:	05/05/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1176.3	ANALYSIS TIME:	04:15:51 PM
DRY BTU @ 15.025:	1221.1	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6869		

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: 05/08/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-5 UNIT 57; INT	INTERMEDIATE CASING	05/08/2025
Stn. No.:	3003907082	DK/MV	35825-11285
Mtr. No.:	75229-011		

Smpl Date:	04/30/2025	04/28/2022	05/21/2019
Test Date:	05/05/2025	05/03/2022	05/23/2019
Run No:	HS20250039	HS20220055	HS190084
Nitrogen:	1.3270	0.8100	0.8121
CO2:	0.0555	0.0082	0.0053
Methane:	85.5888	83.6457	84.2023
Ethane:	6.3413	7.8304	7.7342
Propane:	3.6839	5.0679	4.7681
I-Butane:	0.4255	0.6064	0.5445
N-Butane:	1.1790	1.2532	1.0998
I-Pentane:	0.2600	0.2937	0.2658
N-Pentane:	0.1270	0.2324	0.2181
Hexane+:	1.0120	0.2521	0.3498
BTU:	1197.1	1212.5	1205.3
GPM:	18.5340	18.7120	18.6590
SPG:	0.6869	0.6904	0.6858



Well Name: SAN JUAN 27-5 UNIT 57;
 API #: 3003907082
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20250038
 Cust No: 35825-11280

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	CASING
Well Name:	SAN JUAN 27-5 UNIT 57; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	86 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:	DK/MV	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3003907082	Sample Method:	Purge & Fill
	75229-011	Sample Date:	04/30/2025
	AREA 14 / RUN 1400	Sample Time:	10.25 AM
Heat Trace:	N	Sampled By:	ROMAN VALDEZ
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3135	0.3121	0.0350	0.00	0.0030
CO2	2.1461	2.1365	0.3680	0.00	0.0326
Methane	71.9372	71.6151	12.2550	726.57	0.3985
Ethane	8.8733	8.8336	2.3850	157.03	0.0921
Propane	6.9771	6.9459	1.9310	175.55	0.1062
Iso-Butane	1.7103	1.7026	0.5620	55.62	0.0343
N-Butane	4.5619	4.5415	1.4450	148.82	0.0915
I-Pentane	1.3600	1.3539	0.5000	54.41	0.0339
N-Pentane	1.3407	1.3347	0.4880	53.74	0.0334
Hexane Plus	0.7799	0.7764	0.3490	41.11	0.0258
Total	100.0000	99.5523	20.3180	1412.85	0.8514

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0051	CYLINDER #:	2160
BTU/CU.FT IDEAL:	1416.1	CYLINDER PRESSURE:	84 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1423.2	ANALYSIS DATE:	05/05/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1398.4	ANALYSIS TIME:	04:23:10 PM
DRY BTU @ 15.025:	1451.7	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.8553		

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: 05/08/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-5 UNIT 57; CSG	CASING	05/08/2025
Stn. No.:	3003907082	DK/MV	35825-11280
Mtr. No.:	75229-011		

Smpl Date:	04/30/2025	04/28/2022	05/21/2019
Test Date:	05/05/2025	05/03/2022	05/23/2019
Run No:	HS20250038	HS20220054	HS190083
Nitrogen:	0.3135	0.2991	0.3409
CO2:	2.1461	2.0961	1.2296
Methane:	71.9372	73.2260	79.6180
Ethane:	8.8733	9.1401	9.1304
Propane:	6.9771	6.8799	5.2897
I-Butane:	1.7103	1.7001	1.0777
N-Butane:	4.5619	3.4710	1.9217
I-Pentane:	1.3600	1.3501	0.6298
N-Pentane:	1.3407	1.0806	0.4605
Hexane+:	0.7799	0.7570	0.3017
BTU:	1423.2	1390.1	1263.7
GPM:	20.3180	20.1080	19.2010
SPG:	0.8553	0.8330	0.7381



Well Name: SAN JUAN 27-5 UNIT 57;
 API #: 75229-011
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20250040
 Cust No: 35825-11290

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: TUBING
Well Name: SAN JUAN 27-5 UNIT 57; TBG	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 87 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: DEG. F
Formation: DK/MV	Flow Rate: 0 MCF/D
Cust. Stn. No.: 75229-011	Sample Method: Purge & Fill
API # 3003907082	Sample Date: 04/30/2025
AREA 14 / RUN 1400	Sample Time: 10.27 AM
Heat Trace:	Sampled By: ROMAN VALDEZ
Remarks:	Sampled by (CO):

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2452	0.2452	0.0270	0.00	0.0024
CO2	1.0112	1.0114	0.1730	0.00	0.0154
Methane	81.7294	81.7428	13.9010	825.47	0.4527
Ethane	8.9852	8.9867	2.4110	159.01	0.0933
Propane	4.3129	4.3136	1.1920	108.52	0.0657
Iso-Butane	0.7874	0.7875	0.2590	25.61	0.0158
N-Butane	1.5597	1.5600	0.4930	50.88	0.0313
I-Pentane	0.4199	0.4200	0.1540	16.80	0.0105
N-Pentane	0.3285	0.3286	0.1190	13.17	0.0082
Hexane Plus	0.6206	0.6207	0.2780	32.71	0.0205
Total	100.0000	100.0165	19.0070	1232.16	0.7157

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	2034
BTU/CU.FT IDEAL:	1235.0	CYLINDER PRESSURE:	84 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1239.4	ANALYSIS DATE:	05/05/2025
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1217.8	ANALYSIS TIME:	04:03:41 PM
DRY BTU @ 15.025:	1264.2	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7179		

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: 05/08/2025

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-5 UNIT 57; TBG	TUBING	05/08/2025
Stn. No.:	75229-011	DK/MV	35825-11290
Mtr. No.:	API # 3003907082		

Smpl Date:	04/30/2025	05/21/2019
Test Date:	05/05/2025	05/23/2019
Run No:	HS20250040	HS190085
Nitrogen:	0.2452	0.1918
CO2:	1.0112	1.0471
Methane:	81.7294	83.0506
Ethane:	8.9852	8.9248
Propane:	4.3129	4.0013
I-Butane:	0.7874	0.7291
N-Butane:	1.5597	1.0518
I-Pentane:	0.4199	0.3601
N-Pentane:	0.3285	0.2532
Hexane+:	0.6206	0.3902
BTU:	1239.4	1207.3
GPM:	19.0070	18.7930
SPG:	0.7179	0.6973

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General Information
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Online Phone Directory
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 460177

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 460177
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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