



Well Name: SAN JUAN 27-5 #13, INT
 API #: 30-039-06926
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20220065
 Cust No: 35825-14355

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SAN JUAN 27-5 #13, INT	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	10 PSIG
Location:		Flow Temp:	60 DEG. F
Lease/PA/CA:	SF-079367	Ambient Temp:	56 DEG. F
Formation:	MV	Flow Rate:	MCF/D
Cust. Stn. No.:	30-039-06926	Sample Method:	Purge & Fill
		Sample Date:	05/02/2022
		Sample Time:	10.00 AM
	AREA 14/ RUN 1403	Sampled By:	
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4110	0.4085	0.0450	0.00	0.0040
CO2	0.0959	0.0953	0.0160	0.00	0.0015
Methane	87.1233	86.5900	14.8110	879.95	0.4826
Ethane	6.3464	6.3076	1.7020	112.31	0.0659
Propane	3.3013	3.2811	0.9120	83.06	0.0503
Iso-Butane	0.6982	0.6939	0.2290	22.70	0.0140
N-Butane	0.9024	0.8969	0.2850	29.44	0.0181
I-Pentane	0.3658	0.3636	0.1340	14.64	0.0091
N-Pentane	0.2466	0.2451	0.0900	9.89	0.0061
Hexane Plus	0.5091	0.5060	0.2280	26.84	0.0168
Total	100.0000	99.3880	18.4520	1178.82	0.6684

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	7037
BTU/CU.FT IDEAL:	1181.5	CYLINDER PRESSURE:	26 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1185.1	ANALYSIS DATE:	05/09/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1164.5	ANALYSIS TIME:	08:46:57 AM
DRY BTU @ 15.025:	1208.8	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6701		

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: 08/30/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-5 #13, INT	INTERMEDIATE CASING	08/30/2022
Stn. No.:	30-039-06926	MV	35825-14355
Mtr. No.:			

Smpl Date: 05/02/2022
Test Date: 05/09/2022
Run No: HS20220065

Nitrogen: 0.4110
CO2: 0.0959
Methane: 87.1233
Ethane: 6.3464
Propane: 3.3013
I-Butane: 0.6982
N-Butane: 0.9024
I-Pentane: 0.3658
N-Pentane: 0.2466
Hexane+: 0.5091

BTU: 1185.1
GPM: 18.4520
SPG: 0.6701



Well Name: SAN JUAN 27-5 #13; CSG

API #: 3003906928

Source: CASING

Sample Type: GAS

Analysis No: HS20220064

Cust No: 35825-14360

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 27-5 #13; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF-079367
 Formation: MV
 Cust. Stn. No.: 3003906928

Source: CASING
 Well Flowing: Y
 Pressure: 122 PSIG
 Flow Temp: 60 DEG. F
 Ambient Temp: 56 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/02/2022
 Sample Time: 10.00 AM
 Sampled By: CHRIS POOLE
 Sampled by (CO): HILCORP

AREA 14/ RUN 1403

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3823	0.3711	0.0420	0.00	0.0037
CO2	0.4744	0.4605	0.0810	0.00	0.0072
Methane	87.2173	84.6573	14.8250	880.89	0.4831
Ethane	6.8277	6.6273	1.8310	120.83	0.0709
Propane	3.0762	2.9859	0.8500	77.40	0.0468
Iso-Butane	0.4520	0.4387	0.1480	14.70	0.0091
N-Butane	0.7089	0.6881	0.2240	23.13	0.0142
I-Pentane	0.2195	0.2131	0.0800	8.78	0.0055
N-Pentane	0.1610	0.1563	0.0590	6.45	0.0040
Hexane Plus	0.4807	0.4666	0.2150	25.34	0.0159
Total	100.0000	97.0649	18.3550	1157.52	0.6604

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1160.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1163.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1143.4
 DRY BTU @ 15.025: 1186.9
 REAL SPECIFIC GRAVITY: 0.6621

CYLINDER #: 7046
 CYLINDER PRESSURE: 120 PSIG
 ANALYSIS DATE: 05/09/2022
 ANALYSIS TIME: 08:36:24 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 08/30/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 27-5 #13; CSG
Stn. No.: 3003906928
Mtr. No.:

CASING
MV

08/30/2022
35825-14360

Smpl Date: 05/02/2022
Test Date: 05/09/2022
Run No: HS20220064

Nitrogen: 0.3823
CO2: 0.4744
Methane: 87.2173
Ethane: 6.8277
Propane: 3.0762
I-Butane: 0.4520
N-Butane: 0.7089
I-Pentane: 0.2195
N-Pentane: 0.1610
Hexane+: 0.4807

BTU: 1163.6
GPM: 18.3550
SPG: 0.6621

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 139476

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 139476
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas intermediate and production casing	9/15/2022