



Well Name: SAN JUAN 27-4 #42;
 API #: 3003920132
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20220106
 Cust No: 35825-14460

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SAN JUAN 27-4 #42; INTRM	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	72 PSIG
Location:		Flow Temp:	80 DEG. F
Lease/PA/CA:	SF-080673	Ambient Temp:	80 DEG. F
Formation:	DK	Flow Rate:	5 MCF/D
Cust. Stn. No.:	3003920132	Sample Method:	Purge & Fill
		Sample Date:	05/26/2022
		Sample Time:	10.53 AM
		Sampled By:	J.J. GRIEGO
		Sampled by (CO):	HILCORP

Heat Trace: N

Remarks:

AREA 14/ RUN 1400

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1711	0.1715	0.0190	0.00	0.0017
CO2	1.1168	1.1191	0.1910	0.00	0.0170
Methane	84.8928	85.0697	14.4340	857.42	0.4702
Ethane	8.5679	8.5858	2.2980	151.63	0.0890
Propane	2.6332	2.6387	0.7280	66.25	0.0401
Iso-Butane	0.6180	0.6193	0.2030	20.10	0.0124
N-Butane	0.6282	0.6295	0.1990	20.49	0.0126
I-Pentane	0.3721	0.3729	0.1360	14.89	0.0093
N-Pentane	0.2006	0.2010	0.0730	8.04	0.0050
Hexane Plus	0.7993	0.8010	0.3580	42.13	0.0265
Total	100.0000	100.2085	18.6390	1180.95	0.6836

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	4210
BTU/CU.FT IDEAL:	1183.7	CYLINDER PRESSURE:	74 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1187.5	ANALYSIS DATE:	06/09/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1166.8	ANALYSIS TIME:	11:06:18 AM
DRY BTU @ 15.025:	1211.3	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6855		

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: 06/13/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 27-4 #42; INTRM	INTERMEDIATE CASING	06/13/2022
Stn. No.:	3003920132	DK	35825-14460
Mtr. No.:			

Smpl Date: 05/26/2022
Test Date: 06/09/2022
Run No: HS20220106

Nitrogen: 0.1711
CO2: 1.1168
Methane: 84.8928
Ethane: 8.5679
Propane: 2.6332
I-Butane: 0.6180
N-Butane: 0.6282
I-Pentane: 0.3721
N-Pentane: 0.2006
Hexane+: 0.7993

BTU: 1187.5
GPM: 18.6390
SPG: 0.6855



Well Name: SAN JUAN 27-4 #42; CSG

API #: 3003920132

Source: CASING

Sample Type: GAS

Analysis No: HS20220107

Cust No: 35825-14465

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 27-4 #42; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF-080673
 Formation: DK
 Cust. Stn. No.: 3003920132

Source: CASING
 Well Flowing: Y
 Pressure: 73 PSIG
 Flow Temp: 81 DEG. F
 Ambient Temp: 81 DEG. F
 Flow Rate: 5 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/26/2022
 Sample Time: 11.02 AM
 Sampled By: J.J. GRIEGO
 Sampled by (CO): HILCORP

AREA 14/ RUN 1400

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1699	0.1701	0.0190	0.00	0.0016
CO2	1.1288	1.1304	0.1930	0.00	0.0172
Methane	84.9192	85.0360	14.4390	857.68	0.4704
Ethane	8.6462	8.6581	2.3190	153.01	0.0898
Propane	2.5967	2.6003	0.7170	65.34	0.0395
Iso-Butane	0.6052	0.6060	0.1990	19.68	0.0121
N-Butane	0.6172	0.6180	0.1950	20.13	0.0124
I-Pentane	0.3622	0.3627	0.1330	14.49	0.0090
N-Pentane	0.1931	0.1934	0.0700	7.74	0.0048
Hexane Plus	0.7615	0.7625	0.3410	40.14	0.0252
Total	100.0000	100.1375	18.6250	1178.22	0.6820

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1180.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1184.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1164.0
 DRY BTU @ 15.025: 1208.3
 REAL SPECIFIC GRAVITY: 0.6839

CYLINDER #: 4091
 CYLINDER PRESSURE: 75 PSIG
 ANALYSIS DATE: 06/09/2022
 ANALYSIS TIME: 10:56:56 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: 06/13/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 27-4 #42; CSG
Stn. No.: 3003920132
Mtr. No.:

CASING
DK

06/13/2022
35825-14465

Smpl Date: 05/26/2022
Test Date: 06/09/2022
Run No: HS20220107

Nitrogen: 0.1699
CO2: 1.1288
Methane: 84.9192
Ethane: 8.6462
Propane: 2.5967
I-Butane: 0.6052
N-Butane: 0.6172
I-Pentane: 0.3622
N-Pentane: 0.1931
Hexane+: 0.7615

BTU: 1184.6
GPM: 18.6250
SPG: 0.6839

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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 119444

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 119444
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Intermediate and production gas appear to be the same	9/1/2022