



Well Name: SAN JUAN 29-7 #79B; INT
 API #: 3003926222
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20230190
 Cust No: 35825-15330

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SAN JUAN 29-7 #79B; INT	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	65 PSIG
Location:		Flow Temp:	89 DEG. F
Lease/PA/CA:	NMSF-078951	Ambient Temp:	100 DEG. F
Formation:	DK/MV	Flow Rate:	111 MCF/D
Cust. Stn. No.:	3003926222	Sample Method:	Purge & Fill
		Sample Date:	08/01/2023
		Sample Time:	12.40 PM
		Sampled By:	DYLAN RYBACKI
		Sampled by (CO):	HILCORP

Heat Trace: AREA 10; RUN 1000
 N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1432	0.1463	0.0160	0.00	0.0014
CO2	1.7114	1.7490	0.2930	0.00	0.0260
Methane	86.7194	88.6241	14.7430	875.87	0.4803
Ethane	5.9392	6.0697	1.5930	105.11	0.0617
Propane	2.6159	2.6734	0.7230	65.82	0.0398
Iso-Butane	0.6024	0.6156	0.1980	19.59	0.0121
N-Butane	0.7366	0.7528	0.2330	24.03	0.0148
I-Pentane	0.3119	0.3188	0.1140	12.48	0.0078
N-Pentane	0.2380	0.2432	0.0870	9.54	0.0059
Hexane Plus	0.9820	1.0036	0.4390	51.76	0.0325
Total	100.0000	102.1965	18.4390	1164.19	0.6823

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	1874
BTU/CU.FT IDEAL:	1166.9	CYLINDER PRESSURE:	55 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1170.5	ANALYSIS DATE:	08/03/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1150.1	ANALYSIS TIME:	12:34:48 AM
DRY BTU @ 15.025:	1193.9	ANALYSIS RUN BY:	
REAL SPECIFIC GRAVITY:	0.6841		

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: 08/03/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-7 #79B; INT	INTERMEDIATE CASING	08/03/2023
Stn. No.:	3003926222	DK/MV	35825-15330
Mtr. No.:			

Smpl Date: 08/01/2023
Test Date: 08/03/2023
Run No: HS20230190

Nitrogen: 0.1432
CO2: 1.7114
Methane: 86.7194
Ethane: 5.9392
Propane: 2.6159
I-Butane: 0.6024
N-Butane: 0.7366
I-Pentane: 0.3119
N-Pentane: 0.2380
Hexane+: 0.9820

BTU: 1170.5
GPM: 18.4390
SPG: 0.6841



Well Name: SAN JUAN 29-7 #79B; CSG

API #: 3003926222

Source: CASING

Sample Type: GAS

Analysis No: HS20230189

Cust No: 35825-15325

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 29-7 #79B; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMSF-078951
 Formation: DK/MV
 Cust. Stn. No.: 3003926222

Source: CASING
 Well Flowing: Y
 Pressure: 65 PSIG
 Flow Temp: 89 DEG. F
 Ambient Temp: 100 DEG. F
 Flow Rate: 111 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/01/2023
 Sample Time: 12.50 PM
 Sampled By: DYLAN RYBACKI
 Sampled by (CO): HILCORP

AREA 10; RUN 1000

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1394	0.1364	0.0150	0.00	0.0013
CO2	1.5637	1.5304	0.2680	0.00	0.0238
Methane	86.5387	84.6958	14.7130	874.04	0.4793
Ethane	6.3615	6.2260	1.7060	112.58	0.0660
Propane	2.7522	2.6936	0.7600	69.25	0.0419
Iso-Butane	0.6367	0.6231	0.2090	20.70	0.0128
N-Butane	0.7400	0.7242	0.2340	24.14	0.0149
I-Pentane	0.3000	0.2936	0.1100	12.00	0.0075
N-Pentane	0.2137	0.2091	0.0780	8.57	0.0053
Hexane Plus	0.7541	0.7380	0.3370	39.75	0.0250
Total	100.0000	97.8702	18.4300	1161.03	0.6778

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1163.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1167.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1147.0
 DRY BTU @ 15.025: 1190.7
 REAL SPECIFIC GRAVITY: 0.6796

CYLINDER #: 2140
 CYLINDER PRESSURE: 60 PSIG
 ANALYSIS DATE: 08/03/2023
 ANALYSIS TIME: 12:22:25 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 08/03/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 29-7 #79B; CSG
Stn. No.: 3003926222
Mtr. No.:

CASING
DK/MV

08/03/2023
35825-15325

Smpl Date: 08/01/2023
Test Date: 08/03/2023
Run No: HS20230189

Nitrogen: 0.1394
CO2: 1.5637
Methane: 86.5387
Ethane: 6.3615
Propane: 2.7522
I-Butane: 0.6367
N-Butane: 0.7400
I-Pentane: 0.3000
N-Pentane: 0.2137
Hexane+: 0.7541

BTU: 1167.3
GPM: 18.4300
SPG: 0.6796

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District IV
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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 252257

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 252257
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	intermediate /production casing same gas	9/18/2023