



Well Name: SAN JUAN 30-6 #138; INT
 API #: 3003926507
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20230136
 Cust No: 35825-15145

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SAN JUAN 30-6 #138; INT	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	76 PSIG
Location:		Flow Temp:	60 DEG. F
Lease/PA/CA:	NM-03385	Ambient Temp:	82 DEG. F
Formation:	DK	Flow Rate:	17 MCF/D
Cust. Stn. No.:	3003926507	Sample Method:	Purge & Fill
	98290	Sample Date:	07/16/2023
		Sample Time:	9.45 AM
	AREA 11 / RUN 1102	Sampled By:	GREG FIERMAN
Heat Trace:		Sampled by (CO):	HILCORP
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1464	0.1448	0.0160	0.00	0.0014
CO2	2.5525	2.5241	0.4360	0.00	0.0388
Methane	96.7300	95.6527	16.4290	976.97	0.5358
Ethane	0.5046	0.4990	0.1350	8.93	0.0052
Propane	0.0304	0.0301	0.0080	0.76	0.0005
Iso-Butane	0.0103	0.0102	0.0030	0.33	0.0002
N-Butane	0.0043	0.0043	0.0010	0.14	0.0001
I-Pentane	0.0024	0.0024	0.0010	0.10	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0191	0.0189	0.0090	1.01	0.0006
Total	100.0000	98.8865	17.0380	988.25	0.5827

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 990.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 992.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 975.3
 DRY BTU @ 15.025: 1012.5
 REAL SPECIFIC GRAVITY: 0.5837

CYLINDER #: 2158
 CYLINDER PRESSURE: 57 PSIG
 ANALYSIS DATE: 07/13/2023
 ANALYSIS TIME: 11:43:59 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: 07/24/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-6 #138; INT
Stn. No.: 3003926507
Mtr. No.: 98290

INTERMEDIATE CASING
DK

07/24/2023
35825-15145

Smpl Date: 07/16/2023
Test Date: 07/13/2023
Run No: HS20230136

Nitrogen: 0.1464
CO2: 2.5525
Methane: 96.7300
Ethane: 0.5046
Propane: 0.0304
I-Butane: 0.0103
N-Butane: 0.0043
I-Pentane: 0.0024
N-Pentane: 0.0000
Hexane+: 0.0191

BTU: 992.6
GPM: 17.0380
SPG: 0.5837



Well Name: SAN JUAN 30-6 #138; CSG

API #: 3003926507

Source: CASING

Sample Type: GAS

Analysis No: HS20230137

Cust No: 35825-15150

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 30-6 #138; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NM-03385
 Formation: DK
 Cust. Stn. No.: 3003926507
 98290

Source: CASING
 Well Flowing: N
 Pressure: 81 PSIG
 Flow Temp: 60 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/06/2023
 Sample Time: 9.44 AM
 Sampled By: GREG FIERMAN
 Sampled by (CO): HILCORP

AREA 11 / RUN 1102

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4219	0.4274	0.0470	0.00	0.0041
CO2	2.5460	2.5793	0.4350	0.00	0.0387
Methane	96.4252	97.6879	16.3770	973.89	0.5341
Ethane	0.5296	0.5365	0.1420	9.37	0.0055
Propane	0.0350	0.0355	0.0100	0.88	0.0005
Iso-Butane	0.0126	0.0128	0.0040	0.41	0.0003
N-Butane	0.0065	0.0066	0.0020	0.21	0.0001
I-Pentane	0.0030	0.0030	0.0010	0.12	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0202	0.0205	0.0090	1.06	0.0007
Total	100.0000	101.3095	17.0270	985.95	0.5840

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 988.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 990.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 973.1
 DRY BTU @ 15.025: 1010.1
 REAL SPECIFIC GRAVITY: 0.585

CYLINDER #: 2124
 CYLINDER PRESSURE: 78 PSIG
 ANALYSIS DATE: 07/13/2023
 ANALYSIS TIME: 11:51:40 AM
 ANALYSIS RUN BY: ACEDA GOODNOH

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: 07/18/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-6 #138; CSG
Stn. No.: 3003926507
Mtr. No.: 98290

CASING
DK

07/18/2023
35825-15150

Smpl Date: 07/06/2023
Test Date: 07/13/2023
Run No: HS20230137

Nitrogen: 0.4219
CO2: 2.5460
Methane: 96.4252
Ethane: 0.5296
Propane: 0.0350
I-Butane: 0.0126
N-Butane: 0.0065
I-Pentane: 0.0030
N-Pentane: 0.0000
Hexane+: 0.0202

BTU: 990.3
GPM: 17.0270
SPG: 0.5850

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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 262949

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 262949
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas intermediate and production casing	9/15/2023