



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HS20230188
Cust No: 35825-13340

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE
Well Name:	SAN JUAN 29-7 UNIT #34; INT	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	78 PSIG
Location:		Flow Temp:	88 DEG. F
Lease/PA/CA:	NMSF-078919	Ambient Temp:	94 DEG. F
Formation:	MV	Flow Rate:	185 MCF/D
Cust. Stn. No.:	3003907691	Sample Method:	Purge & Fill
	71-011-01	Sample Date:	08/01/2023
	AREA 10; RUN 1000	Sample Time:	10.34 AM
Heat Trace:	N	Sampled By:	DYLAN RYBACKI
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1219	0.1220	0.0130	0.00	0.0012
CO2	3.0053	3.0076	0.5140	0.00	0.0457
Methane	87.0384	87.1058	14.7930	879.09	0.4821
Ethane	5.9713	5.9759	1.6010	105.67	0.0620
Propane	2.4016	2.4035	0.6630	60.43	0.0366
Iso-Butane	0.2780	0.2782	0.0910	9.04	0.0056
N-Butane	0.5877	0.5882	0.1860	19.17	0.0118
I-Pentane	0.1515	0.1516	0.0560	6.06	0.0038
N-Pentane	0.1385	0.1386	0.0500	5.55	0.0035
Hexane Plus	0.3058	0.3060	0.1370	16.12	0.0101
Total	100.0000	100.0774	18.1040	1101.13	0.6622

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	2028
BTU/CU.FT IDEAL:	1103.7	CYLINDER PRESSURE:	78 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1106.8	ANALYSIS DATE:	08/03/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1087.5	ANALYSIS TIME:	11:55:26 AM
DRY BTU @ 15.025:	1129.0	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.6638		

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 UNIT #34; INT	INTERMEDIATE	08/03/2023
Stn. No.:	3003907691	MV	35825-13340
Mtr. No.:	71-011-01		

Smpl Date:	08/01/2023	09/17/2020
Test Date:	08/03/2023	09/24/2020
Run No:	HS20230188	HS200306
Nitrogen:	0.1219	0.1444
CO2:	3.0053	2.5182
Methane:	87.0384	87.4045
Ethane:	5.9713	5.9336
Propane:	2.4016	2.4437
I-Butane:	0.2780	0.3003
N-Butane:	0.5877	0.5765
I-Pentane:	0.1515	0.1478
N-Pentane:	0.1385	0.1325
Hexane+:	0.3058	0.3985
BTU:	1106.8	1115.8
GPM:	18.1040	18.1290
SPG:	0.6638	0.6620



Well Name: SAN JUAN 29-7 UNIT #34;
 API #: 3003907691
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20230187
 Cust No: 35825-13335

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SAN JUAN 29-7 UNIT #34; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMSF-078919
 Formation: MV
 Cust. Stn. No.: 3003907691
 71-011-01

Source: CASING
 Well Flowing:
 Pressure: 64 PSIG
 Flow Temp: 88 DEG. F
 Ambient Temp: 94 DEG. F
 Flow Rate: 185 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/01/2023
 Sample Time: 10.40 AM
 Sampled By: DYLAN RYBACKI
 Sampled by (CO): HILCORP

AREA 10; RUN 1000

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1550	0.1535	0.0170	0.00	0.0015
CO2	1.6233	1.6079	0.2780	0.00	0.0247
Methane	82.6985	81.9159	14.0640	835.25	0.4581
Ethane	8.5930	8.5117	2.3050	152.07	0.0892
Propane	3.6319	3.5975	1.0040	91.38	0.0553
Iso-Butane	0.6642	0.6579	0.2180	21.60	0.0133
N-Butane	1.0056	0.9961	0.3180	32.81	0.0202
I-Pentane	0.3372	0.3340	0.1240	13.49	0.0084
N-Pentane	0.2772	0.2746	0.1010	11.11	0.0069
Hexane Plus	1.0141	1.0045	0.4540	53.45	0.0336
Total	100.0000	99.0536	18.8830	1211.17	0.7111

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1214.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1218.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1196.9
 DRY BTU @ 15.025: 1242.5
 REAL SPECIFIC GRAVITY: 0.7133

CYLINDER #: 2198
 CYLINDER PRESSURE: 61 PSIG
 ANALYSIS DATE: 08/03/2023
 ANALYSIS TIME: 12:36:30 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: 08/03/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SAN JUAN 29-7 UNIT #34; CSG	CASING	08/03/2023
Stn. No.:	3003907691	MV	35825-13335
Mtr. No.:	71-011-01		

Smpl Date:	08/01/2023	09/17/2020
Test Date:	08/03/2023	09/24/2020
Run No:	HS20230187	HS200305
Nitrogen:	0.1550	0.1395
CO2:	1.6233	1.2373
Methane:	82.6985	84.5541
Ethane:	8.5930	8.2877
Propane:	3.6319	3.2541
I-Butane:	0.6642	0.4439
N-Butane:	1.0056	0.8083
I-Pentane:	0.3372	0.2524
N-Pentane:	0.2772	0.2109
Hexane+:	1.0141	0.8118
BTU:	1218.1	1191.2
GPM:	18.8830	18.6610
SPG:	0.7133	0.6896

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 252244

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 252244
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	similar gas	9/18/2023