



Well Name: SJ 29-7 #58; BHD

API #: 71703

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20230224

Cust No: 35825-15390

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SJ 29-7 #58; BHD

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV

Cust. Stn. No.: 71703

3003907556

AREA 10, RUN 1003

Heat Trace: N

Remarks:

Source: BRADENHEAD

Well Flowing: Y

Pressure: 54 PSIG

Flow Temp: 78 DEG. F

Ambient Temp: 66 DEG. F

Flow Rate: 189 MCF/D

Sample Method: Purge & Fill

Sample Date: 08/11/2023

Sample Time: 8.53 AM

Sampled By: GREG VALDEZ JR.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9344	0.9020	0.1030	0.00	0.0090
CO2	1.1462	1.1065	0.1960	0.00	0.0174
Methane	78.3910	75.6769	13.3370	791.75	0.4342
Ethane	10.4786	10.1158	2.8120	185.44	0.1088
Propane	4.7875	4.6217	1.3240	120.46	0.0729
Iso-Butane	0.9812	0.9472	0.3220	31.91	0.0197
N-Butane	1.3990	1.3506	0.4430	45.64	0.0281
I-Pentane	0.5534	0.5342	0.2030	22.14	0.0138
N-Pentane	0.3984	0.3846	0.1450	15.97	0.0099
Hexane Plus	0.9303	0.8981	0.4160	49.04	0.0308
Total	100.0000	96.5376	19.3010	1262.34	0.7446

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1265.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1270.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.0
 DRY BTU @ 15.025: 1295.5
 REAL SPECIFIC GRAVITY: 0.7471

CYLINDER #: 1859
 CYLINDER PRESSURE: 14 PSIG
 ANALYSIS DATE: 08/14/2023
 ANALYSIS TIME: 08:59:05 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: 08/14/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 29-7 #58; BHD	BRADENHEAD	08/14/2023
Stn. No.:	71703	MV	35825-15390
Mtr. No.:	3003907556		

Smpl Date: 08/11/2023
Test Date: 08/14/2023
Run No: HS20230224

Nitrogen: 0.9344
CO2: 1.1462
Methane: 78.3910
Ethane: 10.4786
Propane: 4.7875
I-Butane: 0.9812
N-Butane: 1.3990
I-Pentane: 0.5534
N-Pentane: 0.3984
Hexane+: 0.9303

BTU: 1270.1
GPM: 19.3010
SPG: 0.7471



Well Name: SJ 29-7 #58; INT
 API #: 71703
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20230226
 Cust No: 35825-15400

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	INTERMEDIATE CASING
Well Name:	SJ 29-7 #58; INT	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	54 PSIG
Location:		Flow Temp:	78 DEG. F
Lease/PA/CA:		Ambient Temp:	66 DEG. F
Formation:	MV	Flow Rate:	189 MCF/D
Cust. Stn. No.:	71703	Sample Method:	Purge & Fill
	3003907556	Sample Date:	08/11/2023
	AREA 10, RUN 1003	Sample Time:	8.35 AM
Heat Trace:	N	Sampled By:	GREG VALDEZ JR.
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1925	0.1942	0.0210	0.00	0.0019
CO2	1.1642	1.1742	0.1990	0.00	0.0177
Methane	79.1466	79.8277	13.4650	799.38	0.4384
Ethane	10.5470	10.6378	2.8310	186.65	0.1095
Propane	4.7944	4.8357	1.3260	120.63	0.0730
Iso-Butane	0.9834	0.9919	0.3230	31.98	0.0197
N-Butane	1.3961	1.4081	0.4420	45.54	0.0280
I-Pentane	0.5433	0.5480	0.1990	21.74	0.0135
N-Pentane	0.3845	0.3878	0.1400	15.41	0.0096
Hexane Plus	0.8480	0.8553	0.3800	44.70	0.0281
Total	100.0000	100.8607	19.3260	1266.04	0.7394

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1269.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1273.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1251.6
 DRY BTU @ 15.025: 1299.3
 REAL SPECIFIC GRAVITY: 0.7419

CYLINDER #: 2171
 CYLINDER PRESSURE: 78 PSIG
 ANALYSIS DATE: 08/14/2023
 ANALYSIS TIME: 09:05:45 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: 08/14/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 29-7 #58; INT	INTERMEDIATE CASING	08/14/2023
Stn. No.:	71703	MV	35825-15400
Mtr. No.:	3003907556		

Smpl Date: 08/11/2023
Test Date: 08/14/2023
Run No: HS20230226

Nitrogen: 0.1925
CO2: 1.1642
Methane: 79.1466
Ethane: 10.5470
Propane: 4.7944
I-Butane: 0.9834
N-Butane: 1.3961
I-Pentane: 0.5433
N-Pentane: 0.3845
Hexane+: 0.8480

BTU: 1273.8
GPM: 19.3260
SPG: 0.7419



Well Name: SJ 29-7 #58; CSG

API #: 71703

Source: CASING

Sample Type: GAS

Analysis No: HS20230225

Cust No: 35825-15395

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SJ 29-7 #58; CSG

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV

Cust. Stn. No.: 71703

3003907556

AREA 10, RUN 1003

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: Y

Pressure: 54 PSIG

Flow Temp: 78 DEG. F

Ambient Temp: 66 DEG. F

Flow Rate: 189 MCF/D

Sample Method: Purge & Fill

Sample Date: 08/11/2023

Sample Time: 8.46 AM

Sampled By: GREG VALDEZ JR.

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1741	0.1751	0.0190	0.00	0.0017
CO2	1.1495	1.1561	0.1970	0.00	0.0175
Methane	79.0924	79.5467	13.4560	798.83	0.4381
Ethane	10.5274	10.5878	2.8250	186.30	0.1093
Propane	4.7969	4.8244	1.3260	120.69	0.0730
Iso-Butane	0.9828	0.9884	0.3230	31.96	0.0197
N-Butane	1.3989	1.4069	0.4430	45.64	0.0281
I-Pentane	0.5540	0.5572	0.2030	22.16	0.0138
N-Pentane	0.4009	0.4032	0.1460	16.07	0.0100
Hexane Plus	0.9231	0.9284	0.4130	48.66	0.0306
Total	100.0000	100.5742	19.3510	1270.32	0.7417

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1273.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1278.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1255.9
 DRY BTU @ 15.025: 1303.7
 REAL SPECIFIC GRAVITY: 0.7442

CYLINDER #: 1914
 CYLINDER PRESSURE: 44 PSIG
 ANALYSIS DATE: 08/14/2023
 ANALYSIS TIME: 08:49:23 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: 08/14/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 29-7 #58; CSG	CASING	08/14/2023
Stn. No.:	71703	MV	35825-15395
Mtr. No.:	3003907556		

Smpl Date: 08/11/2023
Test Date: 08/14/2023
Run No: HS20230225

Nitrogen: 0.1741
CO2: 1.1495
Methane: 79.0924
Ethane: 10.5274
Propane: 4.7969
I-Butane: 0.9828
N-Butane: 1.3989
I-Pentane: 0.5540
N-Pentane: 0.4009
Hexane+: 0.9231

BTU: 1278.1
GPM: 19.3510
SPG: 0.7442

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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 251811

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 251811
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	all strings have same gas	9/18/2023