



Well Name: SJ 30-5 #60; BHD

API #: 3003921493

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20220108

Cust No: 35825-14470

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SJ 30-5 #60; BHD

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: MV

Cust. Stn. No.: 3003921493

Source: BRADENHEAD

Well Flowing: Y

Pressure: 35 PSIG

Flow Temp: 115 DEG. F

Ambient Temp: 91 DEG. F

Flow Rate: 262 MCF/D

Sample Method: Purge & Fill

Sample Date: 06/10/2022

Sample Time: 12.45 PM

Sampled By:

Sampled by (CO):

Heat Trace: AREA 12 / RUN 1202

Remarks: N

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4915	0.4867	0.0540	0.00	0.0048
CO2	0.0095	0.0094	0.0020	0.00	0.0001
Methane	97.5841	96.6376	16.5740	985.60	0.5405
Ethane	1.6431	1.6272	0.4400	29.08	0.0171
Propane	0.1794	0.1777	0.0500	4.51	0.0027
Iso-Butane	0.0504	0.0499	0.0170	1.64	0.0010
N-Butane	0.0200	0.0198	0.0060	0.65	0.0004
I-Pentane	0.0112	0.0111	0.0040	0.45	0.0003
N-Pentane	0.0020	0.0020	0.0010	0.08	0.0000
Hexane Plus	0.0088	0.0087	0.0040	0.46	0.0003
Total	100.0000	99.0301	17.1520	1022.47	0.5672

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
 BTU/CU.FT IDEAL: 1024.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1027.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1009.1
 DRY BTU @ 15.025: 1047.6
 REAL SPECIFIC GRAVITY: 0.5682

CYLINDER #: 6178
 CYLINDER PRESSURE: 43 PSIG
 ANALYSIS DATE: 06/15/2022
 ANALYSIS TIME: 09:30:50 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: 06/21/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 30-5 #60; BHD	BRADENHEAD	06/21/2022
Stn. No.:	3003921493	MV	35825-14470
Mtr. No.:			

Smpl Date: 06/10/2022
Test Date: 06/15/2022
Run No: HS20220108

Nitrogen: 0.4915
CO2: 0.0095
Methane: 97.5841
Ethane: 1.6431
Propane: 0.1794
I-Butane: 0.0504
N-Butane: 0.0200
I-Pentane: 0.0112
N-Pentane: 0.0020
Hexane+: 0.0088

BTU: 1027.0
GPM: 17.1520
SPG: 0.5682



Well Name: SJ 30-5 #60; CSG

API #: 3003921493

Source: CASING

Sample Type: GAS

Analysis No: HS20220109

Cust No: 35825-14475

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SJ 30-5 #60; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: MV
 Cust. Stn. No.: 3003921493

Source: CASING
 Well Flowing: Y
 Pressure: 105 PSIG
 Flow Temp: 115 DEG. F
 Ambient Temp: 91 DEG. F
 Flow Rate: 262 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/10/2022
 Sample Time: 1.01 PM
 Sampled By:
 Sampled by (CO):

Heat Trace: N
 Remarks: AREA 12 / RUM 1202

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0881	0.0849	0.0100	0.00	0.0009
CO2	2.0774	2.0014	0.3550	0.00	0.0316
Methane	94.4835	91.0268	16.0490	954.28	0.5233
Ethane	2.9202	2.8134	0.7820	51.68	0.0303
Propane	0.3104	0.2990	0.0860	7.81	0.0047
Iso-Butane	0.0500	0.0482	0.0160	1.63	0.0010
N-Butane	0.0255	0.0246	0.0080	0.83	0.0005
I-Pentane	0.0095	0.0092	0.0030	0.38	0.0002
N-Pentane	0.0034	0.0033	0.0010	0.14	0.0001
Hexane Plus	0.0320	0.0308	0.0140	1.69	0.0011
Total	100.0000	96.3416	17.3240	1018.43	0.5937

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1020.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1023.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1005.2
 DRY BTU @ 15.025: 1043.5
 REAL SPECIFIC GRAVITY: 0.5948

CYLINDER #: 4089
 CYLINDER PRESSURE: 98 PSIG
 ANALYSIS DATE: 06/15/2022
 ANALYSIS TIME: 09:20:11 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: 06/21/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 30-5 #60; CSG	CASING	06/21/2022
Stn. No.:	3003921493	MV	35825-14475
Mtr. No.:			

Smpl Date: 06/10/2022
Test Date: 06/15/2022
Run No: HS20220109

Nitrogen: 0.0881
CO2: 2.0774
Methane: 94.4835
Ethane: 2.9202
Propane: 0.3104
I-Butane: 0.0500
N-Butane: 0.0255
I-Pentane: 0.0095
N-Pentane: 0.0034
Hexane+: 0.0320

BTU: 1023.0
GPM: 17.3240
SPG: 0.5948



Well Name: SJ 30-5 #60; TBG
 API #: 3003921493
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20220110
 Cust No: 35825-14480

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SJ 30-5 #60; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: MV
 Cust. Stn. No.: 3003921493

Source: TUBING
 Well Flowing: Y
 Pressure: 100 PSIG
 Flow Temp: 115 DEG. F
 Ambient Temp: 91 DEG. F
 Flow Rate: 262 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/10/2022
 Sample Time: 12.30 PM
 Sampled By:
 Sampled by (CO):

Heat Trace: N
 Remarks: AREA 12 / RUN 1202

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0799	0.0796	0.0090	0.00	0.0008
CO2	2.0107	2.0028	0.3440	0.00	0.0306
Methane	95.1546	94.7819	16.1630	961.06	0.5271
Ethane	2.3441	2.3349	0.6280	41.48	0.0243
Propane	0.2736	0.2725	0.0760	6.88	0.0042
Iso-Butane	0.0556	0.0554	0.0180	1.81	0.0011
N-Butane	0.0264	0.0263	0.0080	0.86	0.0005
I-Pentane	0.0137	0.0136	0.0050	0.55	0.0003
N-Pentane	0.0047	0.0047	0.0020	0.19	0.0001
Hexane Plus	0.0367	0.0366	0.0160	1.93	0.0012
Total	100.0000	99.6083	17.2690	1014.77	0.5902

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1017.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1019.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1001.7
 DRY BTU @ 15.025: 1039.8
 REAL SPECIFIC GRAVITY: 0.5913

CYLINDER #: 4133
 CYLINDER PRESSURE: 102 PSIG
 ANALYSIS DATE: 06/15/2022
 ANALYSIS TIME: 09:38:45 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: 06/21/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SJ 30-5 #60; TBG	TUBING	06/21/2022
Stn. No.:	3003921493	MV	35825-14480
Mtr. No.:			

Smpl Date: 06/10/2022
Test Date: 06/15/2022
Run No: HS20220110

Nitrogen: 0.0799
CO2: 2.0107
Methane: 95.1546
Ethane: 2.3441
Propane: 0.2736
I-Butane: 0.0556
N-Butane: 0.0264
I-Pentane: 0.0137
N-Pentane: 0.0047
Hexane+: 0.0367

BTU: 1019.4
GPM: 17.2690
SPG: 0.5913

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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 122304

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 122304
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	9/1/2022