



Well Name: CANYON LARGO UNIT
 API #: 3003930053
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220145
 Cust No: 35825-14620

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 494; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF-078875
 Formation: DK
 Cust. Stn. No.: 3003930053
 88666

Source: BRADENHEAD
 Well Flowing:
 Pressure: 60 PSIG
 Flow Temp: 96 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 4 MCF/D
 Sample Method:
 Sample Date: 08/11/2022
 Sample Time: 2.27 PM
 Sampled By: MARK E GOODWIN
 Sampled by (CO): HILCORP

AREA 9/ RUN 0910

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8271	0.8320	0.0910	0.00	0.0080
CO2	0.6507	0.6546	0.1110	0.00	0.0099
Methane	81.4771	81.9626	13.8580	822.92	0.4513
Ethane	9.2500	9.3051	2.4820	163.70	0.0960
Propane	4.3092	4.3349	1.1910	108.42	0.0656
Iso-Butane	0.4963	0.4993	0.1630	16.14	0.0100
N-Butane	1.3811	1.3893	0.4370	45.06	0.0277
I-Pentane	0.3852	0.3875	0.1410	15.41	0.0096
N-Pentane	0.4051	0.4075	0.1470	16.24	0.0101
Hexane Plus	0.8182	0.8231	0.3660	43.13	0.0271
Total	100.0000	100.5959	18.9870	1231.01	0.7153

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1233.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1238.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1216.7
 DRY BTU @ 15.025: 1263.0
 REAL SPECIFIC GRAVITY: 0.7175

CYLINDER #: 4241
 CYLINDER PRESSURE: 58 PSIG
 ANALYSIS DATE: 08/15/2022
 ANALYSIS TIME: 11:47:35 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: 08/17/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	CANYON LARGO UNIT 494; BHD	BRADENHEAD	08/17/2022
Stn. No.:	3003930053	DK	35825-14620
Mtr. No.:	88666		

Smpl Date: 08/11/2022
Test Date: 08/15/2022
Run No: HS20220145

Nitrogen: 0.8271
CO2: 0.6507
Methane: 81.4771
Ethane: 9.2500
Propane: 4.3092
I-Butane: 0.4963
N-Butane: 1.3811
I-Pentane: 0.3852
N-Pentane: 0.4051
Hexane+: 0.8182

BTU: 1238.2
GPM: 18.9870
SPG: 0.7175



Well Name: CANYON LARGO UNIT

API #: 3003930053

Source: CASING

Sample Type: GAS

Analysis No: HS20220147

Cust No: 35825-14630

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 494; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF-078875
 Formation: DK
 Cust. Stn. No.: 3003930053
 88666

Source: CASING
 Well Flowing: Y
 Pressure: 60 PSIG
 Flow Temp: 96 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 4 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/11/2022
 Sample Time: 2.10 PM
 Sampled By: MARK E GOODWIN
 Sampled by (CO): HILCORP

AREA 9/ RUN 0910

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8195	0.8241	0.0900	0.00	0.0079
CO2	0.6609	0.6646	0.1130	0.00	0.0100
Methane	81.3223	81.7830	13.8310	821.36	0.4504
Ethane	9.2976	9.3503	2.4950	164.54	0.0965
Propane	4.4052	4.4301	1.2180	110.84	0.0671
Iso-Butane	0.5108	0.5137	0.1680	16.61	0.0103
N-Butane	1.4213	1.4293	0.4500	46.37	0.0285
I-Pentane	0.3860	0.3882	0.1420	15.44	0.0096
N-Pentane	0.4091	0.4114	0.1490	16.40	0.0102
Hexane Plus	0.7673	0.7716	0.3430	40.44	0.0254
Total	100.0000	100.5663	18.9990	1232.00	0.7160

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1234.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1239.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1217.6
 DRY BTU @ 15.025: 1264.0
 REAL SPECIFIC GRAVITY: 0.7182

CYLINDER #: 6175
 CYLINDER PRESSURE: 57 PSIG
 ANALYSIS DATE: 08/15/2022
 ANALYSIS TIME: 11:27:28 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: 08/17/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	CANYON LARGO UNIT 494; CSG	CASING	08/17/2022
Stn. No.:	3003930053	DK	35825-14630
Mtr. No.:	88666		

Smpl Date: 08/11/2022
Test Date: 08/15/2022
Run No: HS20220147

Nitrogen: 0.8195
CO2: 0.6609
Methane: 81.3223
Ethane: 9.2976
Propane: 4.4052
I-Butane: 0.5108
N-Butane: 1.4213
I-Pentane: 0.3860
N-Pentane: 0.4091
Hexane+: 0.7673

BTU: 1239.2
GPM: 18.9990
SPG: 0.7182



Well Name: CANYON LARGO UNIT

API #: 3003930053

Source: TUBING

Sample Type: GAS

Analysis No: HS20220146

Cust No: 35825-14625

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 494; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: SF-078875
 Formation: DK
 Cust. Stn. No.: 3003930053
 88666

Source: TUBING
 Well Flowing: Y
 Pressure: 60 PSIG
 Flow Temp: 96 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 4 MCF/D
 Sample Method:
 Sample Date: 08/11/2022
 Sample Time: 2.19 PM
 Sampled By: MARK E GOODWIN
 Sampled by (CO): HILCORP

Heat Trace: N
 AREA 9/ RUN 0910

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.8127	0.8170	0.0900	0.00	0.0079
CO2	0.6583	0.6618	0.1130	0.00	0.0100
Methane	81.0019	81.4302	13.7780	818.12	0.4487
Ethane	9.3003	9.3495	2.4960	164.59	0.0966
Propane	4.4318	4.4552	1.2250	111.51	0.0675
Iso-Butane	0.5192	0.5219	0.1700	16.88	0.0104
N-Butane	1.4607	1.4684	0.4620	47.65	0.0293
I-Pentane	0.4115	0.4137	0.1510	16.46	0.0103
N-Pentane	0.4459	0.4483	0.1620	17.87	0.0111
Hexane Plus	0.9577	0.9628	0.4290	50.48	0.0317
Total	100.0000	100.5288	19.0760	1243.57	0.7233

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1246.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1251.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1229.2
 DRY BTU @ 15.025: 1276.1
 REAL SPECIFIC GRAVITY: 0.7257

CYLINDER #: 4193
 CYLINDER PRESSURE: 56 PSIG
 ANALYSIS DATE: 08/15/2022
 ANALYSIS TIME: 11:39:35 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: 08/17/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	CANYON LARGO UNIT 494; TBG	TUBING	08/17/2022
Stn. No.:	3003930053	DK	35825-14625
Mtr. No.:	88666		

Smpl Date: 08/11/2022
Test Date: 08/15/2022
Run No: HS20220146

Nitrogen: 0.8127
CO2: 0.6583
Methane: 81.0019
Ethane: 9.3003
Propane: 4.4318
I-Butane: 0.5192
N-Butane: 1.4607
I-Pentane: 0.4115
N-Pentane: 0.4459
Hexane+: 0.9577

BTU: 1251.0
GPM: 19.0760
SPG: 0.7257

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District II
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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 136550

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 136550
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas all strings	9/20/2022