



Well Name: CANYON LARGO UNIT
 API #: 3003923325
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220148
 Cust No: 35825-14635

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 331; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3003923325
 24633331

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 89 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 80 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/15/2022
 Sample Time: 10.30 AM
 Sampled By: JERRY NELSON
 Sampled by (CO): HILCORP

AREA 14 / RUN 1409

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5943	0.6001	0.0660	0.00	0.0057
CO2	0.6484	0.6547	0.1110	0.00	0.0099
Methane	78.7303	79.4968	13.3940	795.18	0.4361
Ethane	10.6154	10.7188	2.8490	187.86	0.1102
Propane	5.5117	5.5654	1.5240	138.68	0.0839
Iso-Butane	0.5569	0.5623	0.1830	18.11	0.0112
N-Butane	1.7590	1.7761	0.5570	57.38	0.0353
I-Pentane	0.4081	0.4121	0.1500	16.33	0.0102
N-Pentane	0.4467	0.4510	0.1620	17.91	0.0111
Hexane Plus	0.7292	0.7363	0.3260	38.44	0.0241
Total	100.0000	100.9736	19.3220	1269.88	0.7377

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1272.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1277.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1255.5
 DRY BTU @ 15.025: 1303.3
 REAL SPECIFIC GRAVITY: 0.7402

CYLINDER #: 6072
 CYLINDER PRESSURE: 82 PSIG
 ANALYSIS DATE: 08/18/2022
 ANALYSIS TIME: 08:58:03 AM
 ANALYSIS RUN BY: RICHARD WILSON

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: 08/18/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	CANYON LARGO UNIT 331; BHD	BRADENHEAD	08/18/2022
Stn. No.:	3003923325		35825-14635
Mtr. No.:	24633331		

Smpl Date: 08/15/2022
Test Date: 08/18/2022
Run No: HS20220148

Nitrogen: 0.5943
CO2: 0.6484
Methane: 78.7303
Ethane: 10.6154
Propane: 5.5117
I-Butane: 0.5569
N-Butane: 1.7590
I-Pentane: 0.4081
N-Pentane: 0.4467
Hexane+: 0.7292

BTU: 1277.7
GPM: 19.3220
SPG: 0.7402



Well Name: CANYON LARGO UNIT

API #: 3003923325

Source: CASING

Sample Type: GAS

Analysis No: HS20220149

Cust No: 35825-14640

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 331; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3003923325
 24633331

Source: CASING
 Well Flowing: Y
 Pressure: 82 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 80 DEG. F
 Flow Rate: 40 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/15/2022
 Sample Time: 10.30 AM
 Sampled By: JERRY NELSON
 Sampled by (CO): HILCORP

AREA 14 / RUN 1409

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6169	0.6239	0.0680	0.00	0.0060
CO2	0.6576	0.6650	0.1130	0.00	0.0100
Methane	78.3907	79.2789	13.3370	791.75	0.4342
Ethane	10.6051	10.7252	2.8460	187.68	0.1101
Propane	5.5269	5.5895	1.5280	139.06	0.0841
Iso-Butane	0.5718	0.5783	0.1880	18.59	0.0115
N-Butane	1.8068	1.8273	0.5720	58.94	0.0363
I-Pentane	0.4599	0.4651	0.1690	18.40	0.0115
N-Pentane	0.5315	0.5375	0.1930	21.31	0.0132
Hexane Plus	0.8328	0.8422	0.3730	43.90	0.0276
Total	100.0000	101.1329	19.3870	1279.63	0.7444

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1282.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1287.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1265.1
 DRY BTU @ 15.025: 1313.3
 REAL SPECIFIC GRAVITY: 0.7469

CYLINDER #: 6204
 CYLINDER PRESSURE: 79 PSIG
 ANALYSIS DATE: 08/18/2022
 ANALYSIS TIME: 08:40:30 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: 08/18/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	CANYON LARGO UNIT 331; CSG	CASING	08/18/2022
Stn. No.:	3003923325		35825-14640
Mtr. No.:	24633331		

Smpl Date: 08/15/2022
Test Date: 08/18/2022
Run No: HS20220149

Nitrogen: 0.6169
CO2: 0.6576
Methane: 78.3907
Ethane: 10.6051
Propane: 5.5269
I-Butane: 0.5718
N-Butane: 1.8068
I-Pentane: 0.4599
N-Pentane: 0.5315
Hexane+: 0.8328

BTU: 1287.5
GPM: 19.3870
SPG: 0.7469

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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 135827

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 135827
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Bradenhead psi 89 at time of sampling - same gas production casing and bradenhead	9/20/2022