



Well Name: CANYON LARGO UNIT
 API #: 3003930218
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220142
 Cust No: 35825-14605

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	CANYON LARGO UNIT 480; BHD	Well Flowing:	N
County/State:	RIO ARRIBA NM	Pressure:	74 PSIG
Location:		Flow Temp:	100 DEG. F
Lease/PA/CA:	NMNM019400	Ambient Temp:	DEG. F
Formation:	DK	Flow Rate:	0 MCF/D
Cust. Stn. No.:	3003930218	Sample Method:	
	88-471	Sample Date:	08/11/2022
	AREA 9/ RUN 0911	Sample Time:	3.17 PM
Heat Trace:	N	Sampled By:	MARK E GOODWIN
Remarks:		Sampled by (CO):	HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4652	0.4684	0.0510	0.00	0.0045
CO2	0.8449	0.8507	0.1450	0.00	0.0128
Methane	81.8130	82.3700	13.9120	826.31	0.4532
Ethane	10.5470	10.6188	2.8290	186.65	0.1095
Propane	3.5496	3.5738	0.9810	89.31	0.0540
Iso-Butane	0.6165	0.6207	0.2020	20.05	0.0124
N-Butane	0.9489	0.9554	0.3000	30.96	0.0190
I-Pentane	0.3914	0.3941	0.1440	15.66	0.0098
N-Pentane	0.2826	0.2845	0.1030	11.33	0.0070
Hexane Plus	0.5409	0.5446	0.2420	28.51	0.0179
Total	100.0000	100.6810	18.9090	1208.78	0.7001

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0033	CYLINDER #:	4013
BTU/CU.FT IDEAL:	1211.6	CYLINDER PRESSURE:	168 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1215.6	ANALYSIS DATE:	08/15/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1194.4	ANALYSIS TIME:	12:12:00 AM
DRY BTU @ 15.025:	1239.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.7022		

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 480; BHD	BRADENHEAD	08/17/2022
Stn. No.:	3003930218	DK	35825-14605
Mtr. No.:	88-471		

Smpl Date: 08/11/2022
Test Date: 08/15/2022
Run No: HS20220142

Nitrogen: 0.4652
CO2: 0.8449
Methane: 81.8130
Ethane: 10.5470
Propane: 3.5496
I-Butane: 0.6165
N-Butane: 0.9489
I-Pentane: 0.3914
N-Pentane: 0.2826
Hexane+: 0.5409

BTU: 1215.6
GPM: 18.9090
SPG: 0.7022



Well Name: CANYON LARGO UNIT
 API #: 3003930218
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20220143
 Cust No: 35825-14610

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 480; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMNM019400
 Formation: DK
 Cust. Stn. No.: 3003930218
 88-471

Source: CASING
 Well Flowing: N
 Pressure: 74 PSIG
 Flow Temp: 100 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/11/2022
 Sample Time: 3.21 PM
 Sampled By: MARK E GOODWIN
 Sampled by (CO): HILCORP

Heat Trace: AREA 9/ RUN 0911

Remarks: N

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4633	0.4665	0.0510	0.00	0.0045
CO2	0.8424	0.8482	0.1440	0.00	0.0128
Methane	81.8293	82.3954	13.9150	826.48	0.4533
Ethane	10.5423	10.6153	2.8280	186.57	0.1095
Propane	3.5455	3.5700	0.9800	89.21	0.0540
Iso-Butane	0.6147	0.6190	0.2020	19.99	0.0123
N-Butane	0.9467	0.9533	0.2990	30.88	0.0190
I-Pentane	0.3905	0.3932	0.1430	15.62	0.0097
N-Pentane	0.2821	0.2841	0.1030	11.31	0.0070
Hexane Plus	0.5432	0.5470	0.2430	28.63	0.0180
Total	100.0000	100.6920	18.9080	1208.69	0.7000

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1211.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1215.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1194.4
 DRY BTU @ 15.025: 1239.8
 REAL SPECIFIC GRAVITY: 0.7021

CYLINDER #: 4062
 CYLINDER PRESSURE: 218 PSIG
 ANALYSIS DATE: 08/15/2022
 ANALYSIS TIME: 12:03:46 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 480; CSG	CASING	08/17/2022
Stn. No.:	3003930218	DK	35825-14610
Mtr. No.:	88-471		

Smpl Date: 08/11/2022
Test Date: 08/15/2022
Run No: HS20220143

Nitrogen: 0.4633
CO2: 0.8424
Methane: 81.8293
Ethane: 10.5423
Propane: 3.5455
I-Butane: 0.6147
N-Butane: 0.9467
I-Pentane: 0.3905
N-Pentane: 0.2821
Hexane+: 0.5432

BTU: 1215.5
GPM: 18.9080
SPG: 0.7021



Well Name: CANYON LARGO UNIT

API #: 3003930218

Source: TUBING

Sample Type: GAS

Analysis No: HS20220144

Cust No: 35825-14615

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CANYON LARGO UNIT 480; TBG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: NMNM019400
 Formation: DK
 Cust. Stn. No.: 3003930218
 88-471

Source: TUBING
 Well Flowing: N
 Pressure: 74 PSIG
 Flow Temp: 100 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/11/2022
 Sample Time: 3.15 PM
 Sampled By: MARK E GOODWIN
 Sampled by (CO): HILCORP

Heat Trace: N
 Remarks: AREA 9/ RUN 0911

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4191	0.4213	0.0460	0.00	0.0041
CO2	0.8546	0.8590	0.1460	0.00	0.0130
Methane	83.9627	84.3995	14.2760	848.02	0.4651
Ethane	9.6029	9.6528	2.5760	169.94	0.0997
Propane	2.7514	2.7657	0.7600	69.23	0.0419
Iso-Butane	0.5032	0.5058	0.1650	16.36	0.0101
N-Butane	0.6861	0.6897	0.2170	22.38	0.0138
I-Pentane	0.2962	0.2977	0.1090	11.85	0.0074
N-Pentane	0.2002	0.2012	0.0730	8.03	0.0050
Hexane Plus	0.7236	0.7274	0.3240	38.14	0.0239
Total	100.0000	100.5201	18.6920	1183.96	0.6839

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1186.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1190.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1169.8
 DRY BTU @ 15.025: 1214.3
 REAL SPECIFIC GRAVITY: 0.6858

CYLINDER #: 4235
 CYLINDER PRESSURE: 70 PSIG
 ANALYSIS DATE: 08/15/2022
 ANALYSIS TIME: 11:55:46 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 480; TBG	TUBING	08/17/2022
Stn. No.:	3003930218	DK	35825-14615
Mtr. No.:	88-471		

Smpl Date: 08/11/2022
Test Date: 08/15/2022
Run No: HS20220144

Nitrogen: 0.4191
CO2: 0.8546
Methane: 83.9627
Ethane: 9.6029
Propane: 2.7514
I-Butane: 0.5032
N-Butane: 0.6861
I-Pentane: 0.2962
N-Pentane: 0.2002
Hexane+: 0.7236

BTU: 1190.5
GPM: 18.6920
SPG: 0.6858

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1625 N. French Dr., Hobbs, NM 88240
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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 136636

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 136636
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Gas appears to be the same all strings	9/1/2022