



Well Name: CORSCOT RUBY A 1; BHD
 API #: 3004529707
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240161
 Cust No: 35825-16000

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	CORSCOT RUBY A 1; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004529707	Sample Method:	Purge & Fill
	99974	Sample Date:	07/08/2024
		Sample Time:	4.25 PM
	AREA 2 / RUN 0210	Sampled By:	JACOB SANDOVAL
Heat Trace:	N	Sampled by (CO):	HILCORP
Remarks:	PRESSURED WITH HELIUM TO 30 LBS.		

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	51.1458	11.6464	5.6320	0.00	0.4947
CO2	0.0470	0.0107	0.0080	0.00	0.0007
Methane	44.2317	10.0720	7.5050	446.74	0.2450
Ethane	2.9748	0.6774	0.7960	52.65	0.0309
Propane	0.9227	0.2101	0.2540	23.22	0.0140
Iso-Butane	0.2240	0.0510	0.0730	7.28	0.0045
N-Butane	0.2147	0.0489	0.0680	7.00	0.0043
I-Pentane	0.0799	0.0182	0.0290	3.20	0.0020
N-Pentane	0.0351	0.0080	0.0130	1.41	0.0009
Hexane Plus	0.1243	0.0283	0.0550	6.55	0.0041
Total	100.0000	22.7710	14.4330	548.05	0.8011

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0011	CYLINDER #:	9000
BTU/CU.FT IDEAL:	549.3	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	549.9	ANALYSIS DATE:	07/12/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	540.3	ANALYSIS TIME:	08:10:43 AM
DRY BTU @ 15.025:	560.9	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.8017		

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: 07/15/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	CORSCOT RUBY A 1; BHD	BRADENHEAD	07/15/2024
Stn. No.:	3004529707		35825-16000
Mtr. No.:	99974		

Smpl Date: 07/08/2024
Test Date: 07/12/2024
Run No: HS20240161

Nitrogen: 51.1458
CO2: 0.0470
Methane: 44.2317
Ethane: 2.9748
Propane: 0.9227
I-Butane: 0.2240
N-Butane: 0.2147
I-Pentane: 0.0799
N-Pentane: 0.0351
Hexane+: 0.1243

BTU: 549.9
GPM: 14.4330
SPG: 0.8017



Well Name: CORSCOT RUBY A 1; CSG

API #: 3004529707

Source: CASING

Sample Type: GAS

Analysis No: HS20240162

Cust No: 35825-16005

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: CORSCOT RUBY A 1; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004529707
 99974

Source: CASING
 Well Flowing: Y
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 07/08/2024
 Sample Time: 4.25 PM
 Sampled By: JACOB SANDOVAL
 Sampled by (CO): HILCORP

AREA 2 / RUN 0210

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	50.6591	49.9895	5.5780	0.00	0.4900
CO2	1.3682	1.3501	0.2340	0.00	0.0208
Methane	47.3970	46.7704	8.0420	478.71	0.2625
Ethane	0.0924	0.0912	0.0250	1.64	0.0010
Propane	0.0117	0.0115	0.0030	0.29	0.0002
Iso-Butane	0.0031	0.0031	0.0010	0.10	0.0001
N-Butane	0.0022	0.0022	0.0010	0.07	0.0000
I-Pentane	0.0023	0.0023	0.0010	0.09	0.0001
N-Pentane	0.0022	0.0022	0.0010	0.09	0.0001
Hexane Plus	0.4618	0.4557	0.2060	24.34	0.0153
Total	100.0000	98.6782	14.0920	505.33	0.7899

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0011
 BTU/CU.FT IDEAL: 506.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 507.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 498.3
 DRY BTU @ 15.025: 517.3
 REAL SPECIFIC GRAVITY: 0.7905

CYLINDER #: 1910
 CYLINDER PRESSURE: 15 PSIG
 ANALYSIS DATE: 07/12/2024
 ANALYSIS TIME: 07:55:17 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: 07/15/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: CORSCOT RUBY A 1; CSG
Stn. No.: 3004529707
Mtr. No.: 99974

CASING

07/15/2024
35825-16005

Smpl Date: 07/08/2024
Test Date: 07/12/2024
Run No: HS20240162

Nitrogen: 50.6591
CO2: 1.3682
Methane: 47.3970
Ethane: 0.0924
Propane: 0.0117
I-Butane: 0.0031
N-Butane: 0.0022
I-Pentane: 0.0023
N-Pentane: 0.0022
Hexane+: 0.4618

BTU: 507.1
GPM: 14.0920
SPG: 0.7905



Well Name: CORSCOT RUBY A 1; TBG

API #: 3004529707

Source: TUBING

Sample Type: GAS

Analysis No: HS20240163

Cust No: 35825-16010

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: CORSCOT RUBY A 1; TBG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: 3004529707
99974

AREA 2 / RUN 0210

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Source: TUBING

Well Flowing: Y

Pressure: PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 07/08/2024

Sample Time: 4.25 PM

Sampled By: JACOB SANDOVAL

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	56.9371	0.6246	6.2730	0.00	0.5507
CO2	1.2762	0.0140	0.2180	0.00	0.0194
Methane	38.0492	0.4174	6.4590	384.30	0.2108
Ethane	0.2188	0.0024	0.0590	3.87	0.0023
Propane	0.0729	0.0008	0.0200	1.83	0.0011
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	3.4458	0.0378	1.5390	181.63	0.1140
Total	100.0000	1.0970	14.5680	571.63	0.8983

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0016
 BTU/CU.FT IDEAL: 573.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 573.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 563.9
 DRY BTU @ 15.025: 585.4
 REAL SPECIFIC GRAVITY: 0.8993

CYLINDER #: 1370
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 07/12/2024
 ANALYSIS TIME: 08:02:52 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: 07/15/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: CORSCOT RUBY A 1; TBG
Stn. No.: 3004529707
Mtr. No.: 99974

TUBING

07/15/2024
35825-16010

Smpl Date: 07/08/2024
Test Date: 07/12/2024
Run No: HS20240163

Nitrogen: 56.9371
CO2: 1.2762
Methane: 38.0492
Ethane: 0.2188
Propane: 0.0729
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 3.4458

BTU: 573.9
GPM: 14.5680
SPG: 0.8993

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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 364171

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 364171
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Similar gas	8/26/2024