



Well Name: SCOTT 7; BHD

API #: 3004511094

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20230068

Cust No: 35825-14905

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: SCOTT 7; BHD

County/State: SAN JUAN NM

Location:

Lease/PA/CA: 078604

Formation: MV

Cust. Stn. No.: 3004511094

Source: BRADENHEAD

Well Flowing: Y

Pressure: 5 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method:

Sample Date: 06/20/2023

Sample Time: 3.30 PM

Sampled By: ART SULLIVAN

Sampled by (CO): HILCORP

Heat Trace:

AREA 4 / RUN 403

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.5302	1.9587	0.4990	0.00	0.0438
CO2	0.0534	0.0231	0.0090	0.00	0.0008
Methane	91.3030	39.4758	15.5090	922.16	0.5057
Ethane	2.6325	1.1382	0.7050	46.59	0.0273
Propane	0.7776	0.3362	0.2150	19.57	0.0118
Iso-Butane	0.1353	0.0585	0.0440	4.40	0.0027
N-Butane	0.1723	0.0745	0.0540	5.62	0.0035
I-Pentane	0.0881	0.0381	0.0320	3.52	0.0022
N-Pentane	0.0229	0.0099	0.0080	0.92	0.0006
Hexane Plus	0.2847	0.1231	0.1270	15.01	0.0094
Total	100.0000	43.2361	17.2020	1017.78	0.6079

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT IDEAL: 1020.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1022.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1004.6
 DRY BTU @ 15.025: 1042.9
 REAL SPECIFIC GRAVITY: 0.609

CYLINDER #: 4225
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 06/23/2023
 ANALYSIS TIME: 09:12:10 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: 06/27/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SCOTT 7; BHD	BRADENHEAD	06/27/2023
Stn. No.:	3004511094	MV	35825-14905
Mtr. No.:			

Smpl Date: 06/20/2023
Test Date: 06/23/2023
Run No: HS20230068

Nitrogen: 4.5302
CO2: 0.0534
Methane: 91.3030
Ethane: 2.6325
Propane: 0.7776
I-Butane: 0.1353
N-Butane: 0.1723
I-Pentane: 0.0881
N-Pentane: 0.0229
Hexane+: 0.2847

BTU: 1022.4
GPM: 17.2020
SPG: 0.6090



Well Name: SCOTT 7; INT
 API #: 3004511094
 Source: INTERMEDIATE CASING
 Sample Type: GAS
 Analysis No: HS20230071
 Cust No: 35825-14920

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)	Source: INTERMEDIATE CASING
Well Name: SCOTT 7; INT	Well Flowing:
County/State: SAN JUAN NM	Pressure: 82 PSIG
Location:	Flow Temp: 60 DEG. F
Lease/PA/CA: 078604	Ambient Temp: 72 DEG. F
Formation: MV	Flow Rate: MCF/D
Cust. Stn. No.: 3004511094	Sample Method:
	Sample Date: 06/20/2023
	Sample Time: 6.40 PM
	Sampled By: ART SULLIVAN
	Sampled by (CO): HILCORP

Heat Trace: AREA 4 / 403

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1570	0.1541	0.0170	0.00	0.0015
CO2	1.9993	1.9622	0.3420	0.00	0.0304
Methane	83.4697	81.9206	14.1920	843.04	0.4623
Ethane	8.5439	8.3853	2.2920	151.20	0.0887
Propane	3.2408	3.1807	0.8950	81.54	0.0493
Iso-Butane	0.5061	0.4967	0.1660	16.46	0.0102
N-Butane	0.8509	0.8351	0.2690	27.76	0.0171
I-Pentane	0.3049	0.2992	0.1120	12.20	0.0076
N-Pentane	0.2298	0.2255	0.0840	9.21	0.0057
Hexane Plus	0.6976	0.6847	0.3120	36.77	0.0231
Total	100.0000	98.1441	18.6810	1178.19	0.6959

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	5006
BTU/CU.FT IDEAL:	1180.9	CYLINDER PRESSURE:	80 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1184.7	ANALYSIS DATE:	06/23/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1164.1	ANALYSIS TIME:	08:16:57 AM
DRY BTU @ 15.025:	1208.4	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6979		

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: 06/27/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SCOTT 7; INT	INTERMEDIATE CASING	06/27/2023
Stn. No.:	3004511094	MV	35825-14920
Mtr. No.:			

Smpl Date: 06/20/2023
Test Date: 06/23/2023
Run No: HS20230071

Nitrogen:	0.1570
CO2:	1.9993
Methane:	83.4697
Ethane:	8.5439
Propane:	3.2408
I-Butane:	0.5061
N-Butane:	0.8509
I-Pentane:	0.3049
N-Pentane:	0.2298
Hexane+:	0.6976
BTU:	1184.7
GPM:	18.6810
SPG:	0.6979



Well Name: SCOTT 7; CSG

API #: 3004511094

Source: CASING

Sample Type: GAS

Analysis No: HS20230069

Cust No: 35825-14910

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SCOTT 7; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 078604
 Formation: MV
 Cust. Stn. No.: 3004511094

Source: CASING
 Well Flowing: Y
 Pressure: 82 PSIG
 Flow Temp: 80 DEG. F
 Ambient Temp: 72 DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 06/20/2023
 Sample Time: 3.30 PM
 Sampled By: ART SULLIVAN
 Sampled by (CO): HILCORP

AREA 4 / RUN 403

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1530	0.1535	0.0170	0.00	0.0015
CO2	1.9831	1.9899	0.3390	0.00	0.0301
Methane	83.9446	84.2345	14.2730	847.84	0.4650
Ethane	8.3115	8.3402	2.2290	147.09	0.0863
Propane	3.1000	3.1107	0.8570	78.00	0.0472
Iso-Butane	0.4900	0.4917	0.1610	15.93	0.0098
N-Butane	0.8246	0.8274	0.2610	26.90	0.0165
I-Pentane	0.2982	0.2992	0.1090	11.93	0.0074
N-Pentane	0.2317	0.2325	0.0840	9.29	0.0058
Hexane Plus	0.6633	0.6656	0.2970	34.96	0.0220
Total	100.0000	100.3452	18.6270	1171.95	0.6916

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1174.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1178.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1157.9
 DRY BTU @ 15.025: 1202.0
 REAL SPECIFIC GRAVITY: 0.6935

CYLINDER #: 4239
 CYLINDER PRESSURE: 78 PSIG
 ANALYSIS DATE: 06/23/2023
 ANALYSIS TIME: 09:04:07 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: 06/27/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SCOTT 7; CSG	CASING	06/27/2023
Stn. No.:	3004511094	MV	35825-14910
Mtr. No.:			

Smpl Date: 06/20/2023
Test Date: 06/23/2023
Run No: HS20230069

Nitrogen: 0.1530
CO2: 1.9831
Methane: 83.9446
Ethane: 8.3115
Propane: 3.1000
I-Butane: 0.4900
N-Butane: 0.8246
I-Pentane: 0.2982
N-Pentane: 0.2317
Hexane+: 0.6633

BTU: 1178.4
GPM: 18.6270
SPG: 0.6935



Well Name: SCOTT 7; TBG
 API #: 3004511094
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20230070
 Cust No: 35825-14915

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: SCOTT 7; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 078604
 Formation: MV
 Cust. Stn. No.: 3004511094

Source: TUBING
 Well Flowing: Y
 Pressure: 79 PSIG
 Flow Temp: 60 DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 06/20/2023
 Sample Time: 3.00 PM
 Sampled By: ART SULLIVAN
 Sampled by (CO): HILCORP

Heat Trace: N
 Remarks: AREA 4 / RUN 403

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1653	0.1660	0.0180	0.00	0.0016
CO2	1.9067	1.9150	0.3260	0.00	0.0290
Methane	82.6813	83.0405	14.0610	835.08	0.4580
Ethane	8.6702	8.7079	2.3260	153.44	0.0900
Propane	3.3854	3.4001	0.9360	85.18	0.0515
Iso-Butane	0.6483	0.6511	0.2130	21.08	0.0130
N-Butane	0.9689	0.9731	0.3060	31.61	0.0194
I-Pentane	0.3825	0.3842	0.1400	15.30	0.0095
N-Pentane	0.2901	0.2914	0.1050	11.63	0.0072
Hexane Plus	0.9013	0.9052	0.4030	47.51	0.0298
Total	100.0000	100.4345	18.8340	1200.83	0.7091

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1203.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1207.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1186.7
 DRY BTU @ 15.025: 1231.9
 REAL SPECIFIC GRAVITY: 0.7113

CYLINDER #: 4122
 CYLINDER PRESSURE: 77 PSIG
 ANALYSIS DATE: 06/23/2023
 ANALYSIS TIME: 08:57:38 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: 06/27/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	SCOTT 7; TBG	TUBING	06/27/2023
Stn. No.:	3004511094	MV	35825-14915
Mtr. No.:			

Smpl Date: 06/20/2023
Test Date: 06/23/2023
Run No: HS20230070

Nitrogen: 0.1653
CO2: 1.9067
Methane: 82.6813
Ethane: 8.6702
Propane: 3.3854
I-Butane: 0.6483
N-Butane: 0.9689
I-Pentane: 0.3825
N-Pentane: 0.2901
Hexane+: 0.9013

BTU: 1207.7
GPM: 18.8340
SPG: 0.7113

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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 233718

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 233718
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	not similar	9/22/2023