



Well Name: 29-7 #525; BHD

API #: 3003924839

Source: BRADENHEAD

Sample Type: GAS

Analysis No: HS20230177

Cust No: 35825-15290

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: 29-7 #525; BHD

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: FC

Cust. Stn. No.: 3003924839

92-185-01

AREA 10 / RUN 1001

Heat Trace:

Remarks:

Source: BRADENHEAD

Well Flowing: Y

Pressure: 62 PSIG

Flow Temp: 88 DEG. F

Ambient Temp: 80 DEG. F

Flow Rate: MCF/D

Sample Method:

Sample Date: 07/24/2023

Sample Time: 9.30 AM

Sampled By: MAX PINON

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2191	0.2186	0.0240	0.00	0.0021
CO2	0.5159	0.5148	0.0880	0.00	0.0078
Methane	88.0031	87.8148	14.9590	888.83	0.4874
Ethane	6.2366	6.2232	1.6720	110.37	0.0647
Propane	3.3472	3.3400	0.9250	84.22	0.0510
Iso-Butane	0.5914	0.5901	0.1940	19.23	0.0119
N-Butane	0.5217	0.5206	0.1650	17.02	0.0105
I-Pentane	0.1403	0.1400	0.0510	5.61	0.0035
N-Pentane	0.0773	0.0771	0.0280	3.10	0.0019
Hexane Plus	0.3474	0.3467	0.1550	18.31	0.0115
Total	100.0000	99.7859	18.2610	1146.69	0.6524

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
 BTU/CU.FT IDEAL: 1149.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1152.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1132.5
 DRY BTU @ 15.025: 1175.7
 REAL SPECIFIC GRAVITY: 0.6539

CYLINDER #: 6041
 CYLINDER PRESSURE: 69 PSIG
 ANALYSIS DATE: 08/01/2023
 ANALYSIS TIME: 09:22:42 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 08/15/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	29-7 #525; BHD	BRADENHEAD	08/15/2023
Stn. No.:	3003924839	FC	35825-15290
Mtr. No.:	92-185-01		

Smpl Date: 07/24/2023
Test Date: 08/01/2023
Run No: HS20230177

Nitrogen: 0.2191
CO2: 0.5159
Methane: 88.0031
Ethane: 6.2366
Propane: 3.3472
I-Butane: 0.5914
N-Butane: 0.5217
I-Pentane: 0.1403
N-Pentane: 0.0773
Hexane+: 0.3474

BTU: 1152.6
GPM: 18.2610
SPG: 0.6539



Well Name: 29-7 #525; CSG
 API #: 3003924839
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20230178
 Cust No: 35825-15295

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: 29-7 #525; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: FC
 Cust. Stn. No.: 3003924839
 92-875-01

Source: CASING
 Well Flowing: Y
 Pressure: 68 PSIG
 Flow Temp: 88 DEG. F
 Ambient Temp: 88 DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 07/24/2023
 Sample Time: 9.30 AM
 Sampled By: MAX PINON
 Sampled by (CO): HILCORP

AREA 10 / RUN 1001

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2883	0.2818	0.0320	0.00	0.0028
CO2	0.4899	0.4788	0.0840	0.00	0.0074
Methane	86.6737	84.7177	14.7340	875.40	0.4801
Ethane	6.2889	6.1470	1.6870	111.29	0.0653
Propane	3.9730	3.8833	1.0980	99.96	0.0605
Iso-Butane	0.7669	0.7496	0.2520	24.94	0.0154
N-Butane	0.7670	0.7497	0.2420	25.02	0.0154
I-Pentane	0.2467	0.2411	0.0900	9.87	0.0061
N-Pentane	0.1525	0.1491	0.0550	6.11	0.0038
Hexane Plus	0.3531	0.3451	0.1580	18.61	0.0117
Total	100.0000	97.7432	18.4320	1171.22	0.6685

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
 BTU/CU.FT IDEAL: 1173.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1177.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1157.0
 DRY BTU @ 15.025: 1201.1
 REAL SPECIFIC GRAVITY: 0.6703

CYLINDER #: 6043
 CYLINDER PRESSURE: 71 PSIG
 ANALYSIS DATE: 08/01/2023
 ANALYSIS TIME: 09:49:04 AM
 ANALYSIS RUN BY: SARAH BALLARD

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: 08/15/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	29-7 #525; CSG	CASING	08/15/2023
Stn. No.:	3003924839	FC	35825-15295
Mtr. No.:	92-875-01		

Smpl Date: 07/24/2023
Test Date: 08/01/2023
Run No: HS20230178

Nitrogen: 0.2883
CO2: 0.4899
Methane: 86.6737
Ethane: 6.2889
Propane: 3.9730
I-Butane: 0.7669
N-Butane: 0.7670
I-Pentane: 0.2467
N-Pentane: 0.1525
Hexane+: 0.3531

BTU: 1177.5
GPM: 18.4320
SPG: 0.6703

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 252462

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 252462
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	same gas	9/18/2023