



Well Name: JICARILLA 17; BHD
 API #: API# 3003922427
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20220016
 Cust No: 35825-14300

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JICARILLA 17; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: API# 3003922427
 85331
 AREA 14/ RUN 1406
 120

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 121 PSIG
 Flow Temp: 77 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 42 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/21/2022
 Sample Time: 12.45 PM
 Sampled By: DAMIAN CASSADOR
 Sampled by (CO): HILCORP

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3321	0.3239	0.0370	0.00	0.0032
CO2	0.3405	0.3321	0.0580	0.00	0.0052
Methane	80.7316	78.7289	13.7310	815.39	0.4472
Ethane	11.6817	11.3919	3.1340	206.73	0.1213
Propane	3.8033	3.7090	1.0510	95.69	0.0579
Iso-Butane	0.7021	0.6847	0.2310	22.83	0.0141
N-Butane	0.9045	0.8821	0.2860	29.51	0.0182
I-Pentane	0.4446	0.4336	0.1630	17.79	0.0111
N-Pentane	0.3098	0.3021	0.1130	12.42	0.0077
Hexane Plus	0.7498	0.7312	0.3350	39.52	0.0248
Total	100.0000	97.5195	19.1390	1239.88	0.7106

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1242.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1247.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1225.4
 DRY BTU @ 15.025: 1272.1
 REAL SPECIFIC GRAVITY: 0.7128

CYLINDER #: 6107
 CYLINDER PRESSURE: 52 PSIG
 ANALYSIS DATE: 04/26/2022
 ANALYSIS TIME: 02:51:51 PM
 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: 04/29/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	JICARILLA 17; BHD	BRADENHEAD	04/29/2022
Stn. No.:	API# 3003922427	DK	35825-14300
Mtr. No.:	85331		

Smpl Date: 04/21/2022
Test Date: 04/26/2022
Run No: HS20220016

Nitrogen: 0.3321
CO2: 0.3405
Methane: 80.7316
Ethane: 11.6817
Propane: 3.8033
I-Butane: 0.7021
N-Butane: 0.9045
I-Pentane: 0.4446
N-Pentane: 0.3098
Hexane+: 0.7498

BTU: 1247.1
GPM: 19.1390
SPG: 0.7128



Well Name: JICARILLA 17; CSG

API #: API# 3003922427

Source: CASING

Sample Type: GAS

Analysis No: HS20220017

Cust No: 35825-14305

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)

Well Name: JICARILLA 17; CSG

County/State: RIO ARRIBA NM

Location:

Lease/PA/CA:

Formation: DK

Cust. Stn. No.: API# 3003922427

85331

AREA 14/ RUN 1406

120

Heat Trace: N

Remarks:

Source: CASING

Well Flowing: N

Pressure: 121 PSIG

Flow Temp: 77 DEG. F

Ambient Temp: DEG. F

Flow Rate: 42 MCF/D

Sample Method: Purge & Fill

Sample Date: 04/21/2022

Sample Time: 12.45 PM

Sampled By: DAMIEN CASSADOR

Sampled by (CO): HILCORP

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3328	0.3269	0.0370	0.00	0.0032
CO2	0.3573	0.3509	0.0610	0.00	0.0054
Methane	80.8397	79.3978	13.7490	816.48	0.4478
Ethane	11.7055	11.4967	3.1410	207.15	0.1215
Propane	3.8083	3.7404	1.0530	95.82	0.0580
Iso-Butane	0.6941	0.6817	0.2280	22.57	0.0139
N-Butane	0.8867	0.8709	0.2800	28.93	0.0178
I-Pentane	0.4196	0.4121	0.1540	16.79	0.0105
N-Pentane	0.2895	0.2843	0.1050	11.61	0.0072
Hexane Plus	0.6665	0.6546	0.2980	35.13	0.0221
Total	100.0000	98.2163	19.1060	1234.48	0.7074

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
 BTU/CU.FT IDEAL: 1237.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1241.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1220.1
 DRY BTU @ 15.025: 1266.6
 REAL SPECIFIC GRAVITY: 0.7096

CYLINDER #: 6064
 CYLINDER PRESSURE: 188 PSIG
 ANALYSIS DATE: 04/26/2022
 ANALYSIS TIME: 03:04:34 PM
 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: 04/29/2022

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: JICARILLA 17; CSG
Stn. No.: API# 3003922427
Mtr. No.: 85331

CASING
DK

04/29/2022
35825-14305

Smpl Date: 04/21/2022
Test Date: 04/26/2022
Run No: HS20220017

Nitrogen: 0.3328
CO2: 0.3573
Methane: 80.8397
Ethane: 11.7055
Propane: 3.8083
I-Butane: 0.6941
N-Butane: 0.8867
I-Pentane: 0.4196
N-Pentane: 0.2895
Hexane+: 0.6665

BTU: 1241.7
GPM: 19.1060
SPG: 0.7096

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 123803

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 123803
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Same gas bradenhead and production casing - bradenhead 121 psi at time of sampling	9/20/2022