



NMOCD REC'D
9/24/20

Well Name: JACKSON 2E; BHD
API #: API #3004524386
Source: BRADENHEAD
Sample Type: GAS
Analysis No: HS200141
Cust No: 35825-12670

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
Well Name: JACKSON 2E; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA: 021125
Formation: DK
Cust. Stn. No.: API #3004524386
34910308

Source: BRADENHEAD
Well Flowing: Y
Pressure: 98 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 08/04/2020
Sample Time: 10.00 AM
Sampled By: PETE JIM
Sampled by (CO): HILCORP

AREA 2 / RUN 203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1544	0.1520	0.0170	0.00	0.0015
CO2	0.4826	0.4751	0.0830	0.00	0.0073
Methane	91.1908	89.7719	15.4960	921.03	0.5051
Ethane	5.2801	5.1979	1.4150	93.44	0.0548
Propane	1.5651	1.5407	0.4320	39.38	0.0238
Iso-Butane	0.3439	0.3385	0.1130	11.18	0.0069
N-Butane	0.3918	0.3857	0.1240	12.78	0.0079
I-Pentane	0.1852	0.1823	0.0680	7.41	0.0046
N-Pentane	0.1221	0.1202	0.0440	4.89	0.0030
Hexane Plus	0.2840	0.2796	0.1270	14.97	0.0094
Total	100.0000	98.4439	17.9190	1105.09	0.6244

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT IDEAL: 1107.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1110.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1091.2
DRY BTU @ 15.025: 1132.7
REAL SPECIFIC GRAVITY: 0.6258

CYLINDER #: 4144
CYLINDER PRESSURE: 34 PSIG
ANALYSIS DATE: 08/06/2020
ANALYSIS TIME: 04:19:22 PM
ANALYSIS RUN BY: PATRICIA KING

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: 09/17/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: JACKSON 2E; BHD
Stn. No.: API #3004524386
Mtr. No.: 34910308

BRADENHEAD
DK

09/17/2020
35825-12670

Smpl Date: 08/04/2020
Test Date: 08/06/2020
Run No: HS200141

Nitrogen: 0.1544
CO2: 0.4826
Methane: 91.1908
Ethane: 5.2801
Propane: 1.5651
I-Butane: 0.3439
N-Butane: 0.3918
I-Pentane: 0.1852
N-Pentane: 0.1221
Hexane+: 0.2840

BTU: 1110.5
GPM: 17.9190
SPG: 0.6258



Well Name: JACKSON 2E; CSG
 API #: API #3004524386
 Source: CASING
 Sample Type: GAS
 Analysis No: HS200142
 Cust No: 35825-12675

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JACKSON 2E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 021125
 Formation: DK
 Cust. Stn. No.: API #3004524386
 34910308

Source: CASING
 Well Flowing: Y
 Pressure: 100 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 08/04/2020
 Sample Time: 10.00 AM
 Sampled By: PETE JIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 203

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3156	0.3108	0.0350	0.00	0.0031
CO2	2.3444	2.3085	0.4010	0.00	0.0356
Methane	79.1296	77.9182	13.4610	799.21	0.4383
Ethane	9.8471	9.6963	2.6430	174.26	0.1022
Propane	4.3209	4.2547	1.1950	108.72	0.0658
Iso-Butane	0.7800	0.7681	0.2560	25.36	0.0157
N-Butane	1.2970	1.2771	0.4100	42.31	0.0260
I-Pentane	0.5234	0.5154	0.1920	20.94	0.0130
N-Pentane	0.4411	0.4343	0.1600	17.68	0.0110
Hexane Plus	1.0009	0.9856	0.4480	52.76	0.0331
Total	100.0000	98.4690	19.2010	1241.25	0.7438

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
 BTU/CU.FT IDEAL: 1244.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1248.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1227.0
 DRY BTU @ 15.025: 1273.7
 REAL SPECIFIC GRAVITY: 0.7463

CYLINDER #: 6007
 CYLINDER PRESSURE: 98 PSIG
 ANALYSIS DATE: 08/06/2020
 ANALYSIS TIME: 04:07:32 PM
 ANALYSIS RUN BY: PATRICIA KING

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: 09/17/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: JACKSON 2E; CSG
Stn. No.: API #3004524386
Mtr. No.: 34910308

CASING
DK

09/17/2020
35825-12675

Smpl Date: 08/04/2020
Test Date: 08/06/2020
Run No: HS200142

Nitrogen: 0.3156
CO2: 2.3444
Methane: 79.1296
Ethane: 9.8471
Propane: 4.3209
I-Butane: 0.7800
N-Butane: 1.2970
I-Pentane: 0.5234
N-Pentane: 0.4411
Hexane+: 1.0009

BTU: 1248.7
GPM: 19.2010
SPG: 0.7463



Well Name: JACKSON 2E; TBG
 API #: API #3004524386
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS200143
 Cust No: 35825-12680

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: JACKSON 2E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: 021125
 Formation: DK
 Cust. Stn. No.: API #3004524386
 34910308

Source: TUBING
 Well Flowing: Y
 Pressure: 75 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 08/04/2020
 Sample Time: 10.00 AM
 Sampled By: PETE JIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 203

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3449	0.3390	0.0380	0.00	0.0033
CO2	2.4548	2.4128	0.4200	0.00	0.0373
Methane	79.6026	78.2398	13.5400	803.99	0.4409
Ethane	10.0255	9.8539	2.6900	177.42	0.1041
Propane	4.2396	4.1670	1.1720	106.67	0.0645
Iso-Butane	0.6937	0.6818	0.2280	22.56	0.0139
N-Butane	1.1222	1.1030	0.3550	36.61	0.0225
I-Pentane	0.3881	0.3815	0.1420	15.53	0.0097
N-Pentane	0.3091	0.3038	0.1120	12.39	0.0077
Hexane Plus	0.8195	0.8055	0.3670	43.20	0.0271
Total	100.0000	98.2881	19.0640	1218.36	0.7311

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
 BTU/CU.FT IDEAL: 1221.2
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1225.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1204.3
 DRY BTU @ 15.025: 1250.1
 REAL SPECIFIC GRAVITY: 0.7335

CYLINDER #: 6143
 CYLINDER PRESSURE: 77 PSIG
 ANALYSIS DATE: 08/06/2020
 ANALYSIS TIME: 04:16:06 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: 09/17/2020

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease: JACKSON 2E; TBG
Stn. No.: API #3004524386
Mtr. No.: 34910308

TUBING
DK

09/17/2020
35825-12680

Smpl Date: 08/04/2020
Test Date: 08/06/2020
Run No: HS200143

Nitrogen: 0.3449
CO2: 2.4548
Methane: 79.6026
Ethane: 10.0255
Propane: 4.2396
I-Butane: 0.6937
N-Butane: 1.1222
I-Pentane: 0.3881
N-Pentane: 0.3091
Hexane+: 0.8195

BTU: 1225.6
GPM: 19.0640
SPG: 0.7335