



Well Name: J.E. DECKER 2A; BHD
 API #: 3004523085
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: PE20230005
 Cust No: 62600-10020

Well/Lease Information

Customer Name: PINELAND ENERGY
 Well Name: J.E. DECKER 2A; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: MESA VERDE
 Cust. Stn. No.: 3004523085

Source: BRADENHEAD
 Well Flowing:
 Pressure: 65 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/13/2023
 Sample Time: 3.30 PM
 Sampled By: JACOB/CULLAN
 Sampled by (CO): PINELAND ENERGY

Heat Trace:
 Remarks:

Analysis

| Component: | Mole%: | Unnormalized %: | **GPM: | *BTU: | *SP Gravity: |
|--------------|-----------------|-----------------|----------------|----------------|---------------|
| Nitrogen | 0.1178 | 0.1182 | 0.0130 | 0.00 | 0.0011 |
| CO2 | 1.5210 | 1.5265 | 0.2600 | 0.00 | 0.0231 |
| Methane | 85.5580 | 85.8696 | 14.5460 | 864.14 | 0.4739 |
| Ethane | 7.5447 | 7.5722 | 2.0230 | 133.52 | 0.0783 |
| Propane | 2.9553 | 2.9661 | 0.8160 | 74.36 | 0.0450 |
| Iso-Butane | 0.5736 | 0.5757 | 0.1880 | 18.65 | 0.0115 |
| N-Butane | 0.7466 | 0.7493 | 0.2360 | 24.36 | 0.0150 |
| I-Pentane | 0.2684 | 0.2694 | 0.0980 | 10.74 | 0.0067 |
| N-Pentane | 0.2012 | 0.2019 | 0.0730 | 8.07 | 0.0050 |
| Hexane Plus | 0.5134 | 0.5153 | 0.2300 | 27.06 | 0.0170 |
| Total | 100.0000 | 100.3642 | 18.4830 | 1160.89 | 0.6767 |

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

| | | | |
|--------------------------------------|--------|--------------------|---------------|
| COMPRESSIBILITY FACTOR (1/Z): | 1.0031 | CYLINDER #: | 585 |
| BTU/CU.FT IDEAL: | 1163.6 | CYLINDER PRESSURE: | 58 PSIG |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1167.1 | ANALYSIS DATE: | 10/18/2023 |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1146.8 | ANALYSIS TIME: | 11:02:59 AM |
| DRY BTU @ 15.025: | 1190.5 | ANALYSIS RUN BY: | SARAH BALLARD |
| REAL SPECIFIC GRAVITY: | 0.6784 | | |

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: 10/25/2023

GC Method: C6+ Gas



PINELAND ENERGY
WELL ANALYSIS COMPARISON

| | | | |
|------------------|---------------------|------------|-------------|
| Lease: | J.E. DECKER 2A; BHD | BRADENHEAD | 10/25/2023 |
| Stn. No.: | 3004523085 | MESA VERDE | 62600-10020 |
| Mtr. No.: | | | |

| | |
|-------------------|------------|
| Smpl Date: | 10/13/2023 |
| Test Date: | 10/18/2023 |
| Run No: | PE20230005 |
| Nitrogen: | 0.1178 |
| CO2: | 1.5210 |
| Methane: | 85.5580 |
| Ethane: | 7.5447 |
| Propane: | 2.9553 |
| I-Butane: | 0.5736 |
| N-Butane: | 0.7466 |
| I-Pentane: | 0.2684 |
| N-Pentane: | 0.2012 |
| Hexane+: | 0.5134 |
| BTU: | 1167.1 |
| GPM: | 18.4830 |
| SPG: | 0.6784 |



Well Name: J.E. DECKER 2A; CSG
 API #: 3004523085
 Source: CASING
 Sample Type: GAS
 Analysis No: PE20230006
 Cust No: 62600-10025

Well/Lease Information

Customer Name: PINELAND ENERGY
 Well Name: J.E. DECKER 2A; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: MESA VERDE
 Cust. Stn. No.: 3004523085

Source: CASING
 Well Flowing:
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/13/2023
 Sample Time: 3.30 PM
 Sampled By: JACOB/CULAN
 Sampled by (CO): PINELAND ENERGY

Heat Trace:
 Remarks:

Analysis

| Component: | Mole%: | Unnormalized %: | **GPM: | *BTU: | *SP Gravity: |
|--------------|-----------------|-----------------|----------------|----------------|---------------|
| Nitrogen | 0.1282 | 0.1290 | 0.0140 | 0.00 | 0.0012 |
| CO2 | 1.5215 | 1.5307 | 0.2600 | 0.00 | 0.0231 |
| Methane | 85.3265 | 85.8426 | 14.5070 | 861.80 | 0.4726 |
| Ethane | 7.5356 | 7.5812 | 2.0210 | 133.36 | 0.0782 |
| Propane | 2.9651 | 2.9830 | 0.8190 | 74.60 | 0.0451 |
| Iso-Butane | 0.5816 | 0.5851 | 0.1910 | 18.91 | 0.0117 |
| N-Butane | 0.7632 | 0.7678 | 0.2410 | 24.90 | 0.0153 |
| I-Pentane | 0.2884 | 0.2901 | 0.1060 | 11.54 | 0.0072 |
| N-Pentane | 0.2214 | 0.2227 | 0.0800 | 8.88 | 0.0055 |
| Hexane Plus | 0.6685 | 0.6725 | 0.2990 | 35.24 | 0.0221 |
| Total | 100.0000 | 100.6047 | 18.5380 | 1169.22 | 0.6822 |

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

| | | | |
|--------------------------------------|--------|--------------------|---------------|
| COMPRESSIBILITY FACTOR (1/Z): | 1.0031 | CYLINDER #: | 101 |
| BTU/CU.FT IDEAL: | 1171.9 | CYLINDER PRESSURE: | 103 PSIG |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1175.6 | ANALYSIS DATE: | 10/18/2023 |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1155.1 | ANALYSIS TIME: | 10:54:36 AM |
| DRY BTU @ 15.025: | 1199.1 | ANALYSIS RUN BY: | SARAH BALLARD |
| REAL SPECIFIC GRAVITY: | 0.684 | | |

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: 10/25/2023

GC Method: C6+ Gas



PINELAND ENERGY
WELL ANALYSIS COMPARISON

Lease: J.E. DECKER 2A; CSG
Stn. No.: 3004523085
Mtr. No.:

CASING
MESA VERDE

10/25/2023
62600-10025

Smpl Date: 10/13/2023
Test Date: 10/18/2023
Run No: PE20230006
Nitrogen: 0.1282
CO2: 1.5215
Methane: 85.3265
Ethane: 7.5356
Propane: 2.9651
I-Butane: 0.5816
N-Butane: 0.7632
I-Pentane: 0.2884
N-Pentane: 0.2214
Hexane+: 0.6685
BTU: 1175.6
GPM: 18.5380
SPG: 0.6840



Well Name: J.E. DECKER 2A; TBG
 API #: 3004523085
 Source: TUBING
 Sample Type: GAS
 Analysis No: PE20230007
 Cust No: 62600-10035

Well/Lease Information

Customer Name: PINELAND ENERGY
 Well Name: J.E. DECKER 2A; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: MESA VERDE
 Cust. Stn. No.: 3004523085

Source: TUBING
 Well Flowing:
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: 70 DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/13/2023
 Sample Time: 3.30 PM
 Sampled By: JACOB/CULLAN
 Sampled by (CO): PINELAND ENERGY

Heat Trace:
 Remarks:

Analysis

| Component: | Mole%: | Unnormalized %: | **GPM: | *BTU: | *SP Gravity: |
|--------------|-----------------|-----------------|----------------|----------------|---------------|
| Nitrogen | 0.1094 | 0.1100 | 0.0120 | 0.00 | 0.0011 |
| CO2 | 1.5616 | 1.5704 | 0.2670 | 0.00 | 0.0237 |
| Methane | 85.4426 | 85.9223 | 14.5260 | 862.97 | 0.4733 |
| Ethane | 7.4531 | 7.4949 | 1.9990 | 131.90 | 0.0774 |
| Propane | 2.9216 | 2.9380 | 0.8070 | 73.51 | 0.0445 |
| Iso-Butane | 0.5726 | 0.5758 | 0.1880 | 18.62 | 0.0115 |
| N-Butane | 0.7573 | 0.7616 | 0.2390 | 24.71 | 0.0152 |
| I-Pentane | 0.2819 | 0.2835 | 0.1030 | 11.28 | 0.0070 |
| N-Pentane | 0.2202 | 0.2214 | 0.0800 | 8.83 | 0.0055 |
| Hexane Plus | 0.6797 | 0.6835 | 0.3040 | 35.83 | 0.0225 |
| Total | 100.0000 | 100.5614 | 18.5250 | 1167.64 | 0.6816 |

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

| | | | |
|--------------------------------------|--------|--------------------|---------------|
| COMPRESSIBILITY FACTOR (1/Z): | 1.0031 | CYLINDER #: | 1821 |
| BTU/CU.FT IDEAL: | 1170.3 | CYLINDER PRESSURE: | 95 PSIG |
| BTU/CU.FT (DRY) CORRECTED FOR (1/Z): | 1174.0 | ANALYSIS DATE: | 10/18/2023 |
| BTU/CU.FT (WET) CORRECTED FOR (1/Z): | 1153.6 | ANALYSIS TIME: | 11:11:14 AM |
| DRY BTU @ 15.025: | 1197.5 | ANALYSIS RUN BY: | SARAH BALLARD |
| REAL SPECIFIC GRAVITY: | 0.6835 | | |

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: 10/25/2023

GC Method: C6+ Gas



PINELAND ENERGY
WELL ANALYSIS COMPARISON

Lease: J.E. DECKER 2A; TBG
Stn. No.: 3004523085
Mtr. No.:

TUBING
MESA VERDE

10/25/2023
62600-10035

Smpl Date: 10/13/2023
Test Date: 10/18/2023
Run No: PE20230007
Nitrogen: 0.1094
CO2: 1.5616
Methane: 85.4426
Ethane: 7.4531
Propane: 2.9216
I-Butane: 0.5726
N-Butane: 0.7573
I-Pentane: 0.2819
N-Pentane: 0.2202
Hexane+: 0.6797
BTU: 1174.0
GPM: 18.5250
SPG: 0.6835

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 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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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 308337

CONDITIONS

| | |
|--|---|
| Operator: Pineland Operating Company, LLC 6940 Truxton Drive Dallas, TX 75231 | OGRID: 331963 |
| | Action Number: 308337 |
| | Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|----------------------|----------------|
| mkuehling | same gas all strings | 4/26/2024 |