



Well Name: NEWBERRY FEDERAL 1E;
 API #: 3004534532
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: PE20230001
 Cust No: 62600-10015

Well/Lease Information

Customer Name: PINELAND ENERGY	Source: BRADENHEAD
Well Name: NEWBERRY FEDERAL 1E; BHD	Well Flowing:
County/State: SAN JUAN NM	Pressure: 64 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 70 DEG. F
Formation: DAKOTA	Flow Rate: 0 MCF/D
Cust. Stn. No.: 3004534532	Sample Method: Purge & Fill
	Sample Date: 10/13/2023
	Sample Time: 2.00 PM
	Sampled By: JACOB/CULLAN
	Sampled by (CO): PINELAND ENERGY
Heat Trace:	
Remarks: PRESSURED WITH HELIUM TO 30 LBS.	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5988	0.1129	0.0660	0.00	0.0058
CO2	0.0260	0.0049	0.0040	0.00	0.0004
Methane	77.9172	14.6905	13.2610	786.96	0.4316
Ethane	8.0726	1.5220	2.1670	142.86	0.0838
Propane	6.0486	1.1404	1.6730	152.19	0.0921
Iso-Butane	2.1364	0.4028	0.7020	69.47	0.0429
N-Butane	3.1521	0.5943	0.9980	102.83	0.0633
I-Pentane	0.9658	0.1821	0.3550	38.64	0.0241
N-Pentane	0.5850	0.1103	0.2130	23.45	0.0146
Hexane Plus	0.4975	0.0938	0.2230	26.22	0.0165
Total	100.0000	18.8540	19.6620	1342.63	0.7749

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0042	CYLINDER #:	6028
BTU/CU.FT IDEAL:	1345.7	CYLINDER PRESSURE:	5 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1351.4	ANALYSIS DATE:	10/18/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1327.9	ANALYSIS TIME:	11:20:32 AM
DRY BTU @ 15.025:	1378.5	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7779		

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:	NEWBERRY FEDERAL 1E; BHD	BRADENHEAD	10/25/2023
Stn. No.:	3004534532	DAKOTA	62600-10015
Mtr. No.:			

Smpl Date:	10/13/2023
Test Date:	10/18/2023
Run No:	PE20230001
Nitrogen:	0.5988
CO2:	0.0260
Methane:	77.9172
Ethane:	8.0726
Propane:	6.0486
I-Butane:	2.1364
N-Butane:	3.1521
I-Pentane:	0.9658
N-Pentane:	0.5850
Hexane+:	0.4975
BTU:	1351.4
GPM:	19.6620
SPG:	0.7779



Well Name: NEWBERRY FEDERAL 1E;
 API #: 3004534532
 Source: CASING
 Sample Type: GAS
 Analysis No: PE20230002
 Cust No: 62600-10010

Well/Lease Information

Customer Name: PINELAND ENERGY
 Well Name: NEWBERRY FEDERAL 1E; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DAKOTA
 Cust. Stn. No.: 3004534532

Source: CASING
 Well Flowing:
 Pressure: 122 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: 2.00 PM
 Sampled By: JACOB/CULLAN
 Sampled by (CO): PINELAND ENERGY

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2981	0.2959	0.0330	0.00	0.0029
CO2	1.8491	1.8352	0.3170	0.00	0.0281
Methane	73.5639	73.0127	12.5300	743.00	0.4075
Ethane	10.4701	10.3916	2.8130	185.29	0.1087
Propane	5.9709	5.9261	1.6530	150.23	0.0909
Iso-Butane	1.3325	1.3225	0.4380	43.33	0.0267
N-Butane	2.2900	2.2728	0.7250	74.71	0.0460
I-Pentane	1.0298	1.0221	0.3780	41.20	0.0257
N-Pentane	0.8655	0.8590	0.3150	34.70	0.0216
Hexane Plus	2.3301	2.3126	1.0440	122.82	0.0771
Total	100.0000	99.2505	20.2460	1395.27	0.8351

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.005	CYLINDER #:	4152
BTU/CU.FT IDEAL:	1398.5	CYLINDER PRESSURE:	51 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1405.5	ANALYSIS DATE:	10/18/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1381.0	ANALYSIS TIME:	11:29:06 AM
DRY BTU @ 15.025:	1433.6	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.8389		

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: NEWBERRY FEDERAL 1E; CSG CASING 10/25/2023
Stn. No.: 3004534532 DAKOTA 62600-10010
Mtr. No.:

Smpl Date: 10/13/2023
Test Date: 10/18/2023
Run No: PE20230002
Nitrogen: 0.2981
CO2: 1.8491
Methane: 73.5639
Ethane: 10.4701
Propane: 5.9709
I-Butane: 1.3325
N-Butane: 2.2900
I-Pentane: 1.0298
N-Pentane: 0.8655
Hexane+: 2.3301
BTU: 1405.5
GPM: 20.2460
SPG: 0.8389



2030 Afton Place
 Farmington, NM 87401
 (505) 325-6622

Analysis No: PE20230004
 Cust No: 62600-10005

Well/Lease Information

Customer Name: PINELAND ENERGY	Source: INTERMEDIATE
Well Name: NEWBERRY FEDERAL 1 E; INT	Well Flowing:
County/State: SAN JUAN NM	Pressure: 150 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 70 DEG. F
Formation: DAKOTA	Flow Rate: 0 MCF/D
Cust. Stn. No.: 3004534532	Sample Method: Purge & Fill
	Sample Date: 10/13/2023
	Sample Time: 2.00 PM
	Sampled By: JACOB/CULLAN
Heat Trace:	Sampled by (CO): PINELAND ENERGY
Remarks:	

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6011	0.6080	0.0660	0.00	0.0058
CO2	0.0187	0.0189	0.0030	0.00	0.0003
Methane	75.6533	76.5256	12.8800	764.10	0.4190
Ethane	8.6963	8.7966	2.3360	153.90	0.0903
Propane	6.4938	6.5687	1.7970	163.39	0.0989
Iso-Butane	2.4350	2.4631	0.8000	79.18	0.0489
N-Butane	3.7198	3.7627	1.1780	121.35	0.0746
I-Pentane	1.2495	1.2639	0.4590	49.99	0.0311
N-Pentane	0.8440	0.8537	0.3070	33.83	0.0210
Hexane Plus	0.2885	0.2918	0.1290	15.21	0.0095
Total	100.0000	101.1530	19.9550	1380.95	0.7995

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0045	CYLINDER #:	7014
BTU/CU.FT IDEAL:	1384.1	CYLINDER PRESSURE:	136 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1390.4	ANALYSIS DATE:	10/18/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1366.2	ANALYSIS TIME:	11:37:48 AM
DRY BTU @ 15.025:	1418.2	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.8028		

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: NEWBERRY FEDERAL 1 E; INT INTERMEDIATE 10/25/2023
Stn. No.: 3004534532 DAKOTA 62600-10005
Mtr. No.:

Smpl Date: 10/13/2023
Test Date: 10/18/2023
Run No: PE20230004
Nitrogen: 0.6011
CO2: 0.0187
Methane: 75.6533
Ethane: 8.6963
Propane: 6.4938
I-Butane: 2.4350
N-Butane: 3.7198
I-Pentane: 1.2495
N-Pentane: 0.8440
Hexane+: 0.2885
BTU: 1390.4
GPM: 19.9550
SPG: 0.8028



Well Name: NEWBERRY FED #1E; TBG
 API #: 3004534532
 Source: TUBING
 Sample Type: GAS
 Analysis No: PE20230003
 Cust No: 62600-10000

Well/Lease Information

Customer Name: PINELAND ENERGY
 Well Name: NEWBERRY FED #1E; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DAKOTA
 Cust. Stn. No.: 3004534532

Source: TUBING
 Well Flowing:
 Pressure: 122 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: 2.00 PM
 Sampled By: JACOB/CULLAN
 Sampled by (CO): PINELAND ENERGY

Heat Trace:
 Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3119	0.3144	0.0340	0.00	0.0030
CO2	2.1085	2.1257	0.3610	0.00	0.0320
Methane	80.7515	81.4087	13.7340	815.59	0.4473
Ethane	9.7723	9.8518	2.6220	172.94	0.1015
Propane	3.9495	3.9816	1.0920	99.37	0.0601
Iso-Butane	0.6341	0.6393	0.2080	20.62	0.0127
N-Butane	0.9631	0.9709	0.3050	31.42	0.0193
I-Pentane	0.3534	0.3563	0.1300	14.14	0.0088
N-Pentane	0.2908	0.2932	0.1060	11.66	0.0072
Hexane Plus	0.8649	0.8719	0.3870	45.59	0.0286
Total	100.0000	100.8138	18.9790	1211.33	0.7206

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	6248
BTU/CU.FT IDEAL:	1214.1	CYLINDER PRESSURE:	112 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1218.4	ANALYSIS DATE:	10/18/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1197.2	ANALYSIS TIME:	11:47:01 AM
DRY BTU @ 15.025:	1242.8	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7229		

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:	NEWBERRY FED #1E; TBG	TUBING	10/25/2023
Stn. No.:	3004534532	DAKOTA	62600-10000
Mtr. No.:			

Smpl Date:	10/13/2023
Test Date:	10/18/2023
Run No:	PE20230003
Nitrogen:	0.3119
CO2:	2.1085
Methane:	80.7515
Ethane:	9.7723
Propane:	3.9495
I-Butane:	0.6341
N-Butane:	0.9631
I-Pentane:	0.3534
N-Pentane:	0.2908
Hexane+:	0.8649
BTU:	1218.4
GPM:	18.9790
SPG:	0.7229

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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 308340

CONDITIONS

Operator: Pineland Operating Company, LLC 6940 Truxton Drive Dallas, TX 75231	OGRID: 331963
	Action Number: 308340
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	high pressure intermediate	4/26/2024