



Well Name: KRAUSE WN FEDERAL #2E;  
 API #: 3004524122  
 Source: BRADENHEAD  
 Sample Type: GAS  
 Analysis No: EP20240085  
 Cust No: 77000-10405

**Well/Lease Information**

Customer Name: EPIC ENERGY	Source: BRADENHEAD
Well Name: KRAUSE WN FEDERAL #2E; BHD	Well Flowing:
County/State: SAN JUAN NM	Pressure: 76 PSIG
Location:	Flow Temp: 40 DEG. F
Lease/PA/CA: SF078863	Ambient Temp: 42 DEG. F
Formation:	Flow Rate: MCF/D
Cust. Stn. No.: 3004524122	Sample Method: Purge & Fill
	Sample Date: 05/07/2024
	Sample Time: 7.44 AM
	Sampled By: J.W.
Heat Trace:	Sampled by (CO): EPIC ENERGY
Remarks:	

**Analysis**

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9671	0.9842	0.1070	0.00	0.0094
CO2	0.0016	0.0016	0.0000	0.00	0.0000
Methane	86.1570	87.6776	14.6460	870.19	0.4772
Ethane	6.9883	7.1116	1.8740	123.67	0.0726
Propane	3.4762	3.5376	0.9600	87.46	0.0529
Iso-Butane	0.7947	0.8087	0.2610	25.84	0.0159
N-Butane	0.9695	0.9866	0.3060	31.63	0.0195
I-Pentane	0.2710	0.2758	0.0990	10.84	0.0068
N-Pentane	0.1875	0.1908	0.0680	7.52	0.0047
Hexane Plus	0.1871	0.1904	0.0840	9.86	0.0062
<b>Total</b>	<b>100.0000</b>	<b>101.7649</b>	<b>18.4050</b>	<b>1167.01</b>	<b>0.6651</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	1902
BTU/CU.FT IDEAL:	1169.7	CYLINDER PRESSURE:	86 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1173.1	ANALYSIS DATE:	05/14/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1152.7	ANALYSIS TIME:	10:31:01 AM
DRY BTU @ 15.025:	1196.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.6668		

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: 05/17/2024

GC Method: C6+ Gas



EPIC ENERGY  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	KRAUSE WN FEDERAL #2E; BHD	BRADENHEAD	05/17/2024
<b>Stn. No.:</b>	3004524122		77000-10405
<b>Mtr. No.:</b>			

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<b>Smpl Date:</b>	05/07/2024	04/21/2021	08/24/2016
<b>Test Date:</b>	05/14/2024	04/27/2021	08/24/2016
<b>Run No:</b>	EP20240085	EP2021145	TH160013
<b>Nitrogen:</b>	0.9671	1.0749	1.0030
<b>CO2:</b>	0.0016	0.0357	0.0080
<b>Methane:</b>	86.1570	86.3101	86.4077
<b>Ethane:</b>	6.9883	6.9476	6.8881
<b>Propane:</b>	3.4762	3.4299	3.4711
<b>I-Butane:</b>	0.7947	0.7357	0.7390
<b>N-Butane:</b>	0.9695	0.8721	0.8590
<b>I-Pentane:</b>	0.2710	0.2584	0.2570
<b>N-Pentane:</b>	0.1875	0.1775	0.1760
<b>Hexane+:</b>	0.1871	0.1581	0.1910
<b>BTU:</b>	1173.1	1165.2	1167.5
<b>GPM:</b>	18.4050	18.3540	18.3620
<b>SPG:</b>	0.6668	0.6634	0.6636



Well Name: KRAUSE WN FEDERAL #2E;  
 API #: 3004524122  
 Source: CASING  
 Sample Type: GAS  
 Analysis No: EP20240086  
 Cust No: 77000-10410

**Well/Lease Information**

Customer Name: EPIC ENERGY	Source: CASING
Well Name: KRAUSE WN FEDERAL #2E; CSG	Well Flowing: N
County/State: SAN JUAN NM	Pressure: PSIG
Location:	Flow Temp: 50 DEG. F
Lease/PA/CA: SF078863	Ambient Temp: 42 DEG. F
Formation:	Flow Rate: MCF/D
Cust. Str. No.: 3004524122	Sample Method: Purge & Fill
	Sample Date: 05/07/2024
	Sample Time: 8.30 AM
	Sampled By: J.W.
Heat Trace:	Sampled by (CO): EPIC ENERGY
Remarks:	

**Analysis**

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4513	0.4531	0.0500	0.00	0.0044
CO2	1.4235	1.4292	0.2440	0.00	0.0216
Methane	79.5906	79.9095	13.5420	803.87	0.4409
Ethane	9.8438	9.8832	2.6420	174.21	0.1022
Propane	4.0282	4.0443	1.1140	101.35	0.0613
Iso-Butane	0.7303	0.7332	0.2400	23.75	0.0147
N-Butane	1.3417	1.3471	0.4250	43.77	0.0269
I-Pentane	0.5534	0.5556	0.2030	22.14	0.0138
N-Pentane	0.4632	0.4651	0.1690	18.57	0.0115
Hexane Plus	1.5740	1.5803	0.7050	82.97	0.0521
<b>Total</b>	<b>100.0000</b>	<b>100.4006</b>	<b>19.3340</b>	<b>1270.62</b>	<b>0.7494</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0039	CYLINDER #:	4199
BTU/CU.FT IDEAL:	1273.6	CYLINDER PRESSURE:	11 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1278.5	ANALYSIS DATE:	05/14/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1256.3	ANALYSIS TIME:	10:44:32 AM
DRY BTU @ 15.025:	1304.1	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.752		

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: 05/17/2024

GC Method: C6+ Gas



EPIC ENERGY  
WELL ANALYSIS COMPARISON

Lease: KRAUSE WN FEDERAL #2E; CSG CASING 05/17/2024  
 Stn. No.: 3004524122 77000-10410  
 Mtr. No.:

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Smpl Date:	05/07/2024	04/21/2021	08/24/2016
Test Date:	05/14/2024	04/27/2021	08/24/2016
Run No:	EP20240086	EP2021146	TH160014
Nitrogen:	0.4513	1.0849	1.2000
CO2:	1.4235	0.0081	0.0010
Methane:	79.5906	81.0932	83.8520
Ethane:	9.8438	7.9270	8.1030
Propane:	4.0282	5.3221	4.2920
I-Butane:	0.7303	1.6418	1.0380
N-Butane:	1.3417	1.4874	0.8110
I-Pentane:	0.5534	0.5552	0.2990
N-Pentane:	0.4632	0.3429	0.1740
Hexane+:	1.5740	0.5374	0.2300
BTU:	1278.5	1266.9	1196.0
GPM:	19.3340	19.0910	18.6200
SPG:	0.7520	0.7284	0.6839



Well Name: KRAUSE WN FEDERAL #2E;  
 API #: 3004524122  
 Source: TUBING  
 Sample Type: GAS  
 Analysis No: EP20240087  
 Cust No: 77000-11820

**Well/Lease Information**

Customer Name: EPIC ENERGY	Source: TUBING
Well Name: KRAUSE WN FEDERAL #2E; TBG	Well Flowing:
County/State: SAN JUAN NM	Pressure: 80 PSIG
Location:	Flow Temp: 50 DEG. F
Lease/PA/CA: SF078863	Ambient Temp: 42 DEG. F
Formation:	Flow Rate: MCF/D
Cust. Stn. No.: 3004524122	Sample Method: Purge & Fill
	Sample Date: 05/07/2024
	Sample Time: 8.03 AM
	Sampled By: JOE WILKINS
	Sampled by (CO): EPIC

Heat Trace:  
 Remarks:

**Analysis**

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4676	0.4597	0.0520	0.00	0.0045
CO2	1.3386	1.3160	0.2290	0.00	0.0203
Methane	80.2970	78.9384	13.6570	811.00	0.4448
Ethane	10.3017	10.1274	2.7640	182.31	0.1070
Propane	4.2655	4.1933	1.1790	107.32	0.0649
Iso-Butane	0.6853	0.6737	0.2250	22.29	0.0138
N-Butane	1.1459	1.1265	0.3620	37.38	0.0230
I-Pentane	0.4194	0.4123	0.1540	16.78	0.0104
N-Pentane	0.3123	0.3070	0.1140	12.52	0.0078
Hexane Plus	0.7667	0.7537	0.3430	40.41	0.0254
<b>Total</b>	<b>100.0000</b>	<b>98.3080</b>	<b>19.0790</b>	<b>1230.01</b>	<b>0.7219</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0035	CYLINDER #:	4154
BTU/CU.FT IDEAL:	1232.9	CYLINDER PRESSURE:	86 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1237.2	ANALYSIS DATE:	05/14/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1215.7	ANALYSIS TIME:	10:30:15 AM
DRY BTU @ 15.025:	1262.0	ANALYSIS RUN BY:	SARAH BALLARD
REAL SPECIFIC GRAVITY:	0.7241		

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: 05/17/2024

GC Method: C6+ Gas



EPIC ENERGY  
WELL ANALYSIS COMPARISON

<b>Lease:</b>	KRAUSE WN FEDERAL #2E; TBG	TUBING	05/17/2024
<b>Stn. No.:</b>	3004524122		77000-11820
<b>Mtr. No.:</b>			

<b>Smpl Date:</b>	05/07/2024	04/21/2021
<b>Test Date:</b>	05/14/2024	04/27/2021
<b>Run No:</b>	EP20240087	EP2021147
<b>Nitrogen:</b>	0.4676	0.4722
<b>CO2:</b>	1.3386	1.3258
<b>Methane:</b>	80.2970	79.6528
<b>Ethane:</b>	10.3017	10.7425
<b>Propane:</b>	4.2655	4.5989
<b>I-Butane:</b>	0.6853	0.6966
<b>N-Butane:</b>	1.1459	1.2086
<b>I-Pentane:</b>	0.4194	0.3633
<b>N-Pentane:</b>	0.3123	0.2695
<b>Hexane+:</b>	0.7667	0.6698
<b>BTU:</b>	1237.2	1240.2
<b>GPM:</b>	19.0790	19.1240
<b>SPG:</b>	0.7241	0.7259

**District I**  
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**District II**  
 811 S. First St., Artesia, NM 88210  
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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 348376

**CONDITIONS**

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 348376
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

**CONDITIONS**

Created By	Condition	Condition Date
mkuehling	BH = 76 at sampling - gas does not appear to be similar	8/27/2024
mkuehling	approved for record only	9/3/2024