



Well Name: NEW MEXICO STATE DY-1;

API #:

Source: BRADENHEAD

Sample Type: GAS

Analysis No: ED20230474

Cust No: 25250-13065

Well/Lease Information

Customer Name: ENDURING RESOURCES
 Well Name: NEW MEXICO STATE DY-1; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004529402

Source: BRADENHEAD
 Well Flowing:
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/02/2023
 Sample Time: 12.15 PM
 Sampled By: CHAD SNELL
 Sampled by (CO): ENDURING

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3713	0.3661	0.0410	0.00	0.0036
CO2	0.0234	0.0231	0.0040	0.00	0.0004
Methane	91.8628	90.5704	15.6100	927.81	0.5088
Ethane	4.6781	4.6123	1.2540	82.79	0.0486
Propane	1.5962	1.5737	0.4410	40.16	0.0243
Iso-Butane	0.4537	0.4473	0.1490	14.75	0.0091
N-Butane	0.4387	0.4325	0.1390	14.31	0.0088
I-Pentane	0.2248	0.2216	0.0820	8.99	0.0056
N-Pentane	0.0640	0.0631	0.0230	2.57	0.0016
Hexane Plus	0.2870	0.2830	0.1280	15.13	0.0095
Total	100.0000	98.5931	17.8710	1106.52	0.6202

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1109.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1112.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1092.7
 DRY BTU @ 15.025: 1134.3
 REAL SPECIFIC GRAVITY: 0.6216

CYLINDER #: 2034
 CYLINDER PRESSURE: 17 PSIG
 ANALYSIS DATE: 06/05/2023
 ANALYSIS TIME: 12:20:35 AM
 ANALYSIS RUN BY: KERRA GONZALEZ

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: 06/07/2023

GC Method: C6+ Gas



ENDURING RESOURCES
WELL ANALYSIS COMPARISON

Lease:	NEW MEXICO STATE DY-1; BHD	BRADENHEAD	06/07/2023
Stn. No.:			25250-13065
Mtr. No.:	3004529402		

Smpl Date: 06/02/2023
Test Date: 06/05/2023
Run No: ED20230474

Nitrogen: 0.3713
CO2: 0.0234
Methane: 91.8628
Ethane: 4.6781
Propane: 1.5962
I-Butane: 0.4537
N-Butane: 0.4387
I-Pentane: 0.2248
N-Pentane: 0.0640
Hexane+: 0.2870

BTU: 1112.0
GPM: 17.8710
SPG: 0.6216



Well Name: NEW MEXICO STATE COM

API #:

Source: CASING

Sample Type: GAS

Analysis No: ED20230475

Cust No: 25250-13070

Well/Lease Information

Customer Name: ENDURING RESOURCES
 Well Name: NEW MEXICO STATE COM DY-1; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004529402

Source: CASING
 Well Flowing: Y
 Pressure: 41 PSIG
 Flow Temp: 74 DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/02/2023
 Sample Time: 12.00 PM
 Sampled By: CHAD SNELL
 Sampled by (CO): ENDURING

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2307	0.2313	0.0250	0.00	0.0022
CO2	0.1527	0.1531	0.0260	0.00	0.0023
Methane	76.2809	76.4671	12.9860	770.44	0.4225
Ethane	10.7191	10.7453	2.8790	189.70	0.1113
Propane	6.6245	6.6407	1.8330	166.68	0.1009
Iso-Butane	1.4684	1.4720	0.4830	47.75	0.0295
N-Butane	1.8390	1.8435	0.5820	59.99	0.0369
I-Pentane	0.7368	0.7386	0.2710	29.48	0.0184
N-Pentane	0.6104	0.6119	0.2220	24.47	0.0152
Hexane Plus	1.3375	1.3408	0.5990	70.50	0.0443
Total	100.0000	100.2443	19.9060	1359.00	0.7834

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044
 BTU/CU.FT IDEAL: 1362.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1368.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1344.4
 DRY BTU @ 15.025: 1395.6
 REAL SPECIFIC GRAVITY: 0.7866

CYLINDER #: 1894
 CYLINDER PRESSURE: 52 PSIG
 ANALYSIS DATE: 06/05/2023
 ANALYSIS TIME: 12:17:22 AM
 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: 06/07/2023

GC Method: C6+ Gas



ENDURING RESOURCES
WELL ANALYSIS COMPARISON

Lease: NEW MEXICO STATE COM DY-1; CSG CASING
Stn. No.:
Mtr. No.: 3004529402

06/07/2023
25250-13070

Smpl Date: 06/02/2023
Test Date: 06/05/2023
Run No: ED20230475

Nitrogen: 0.2307
CO2: 0.1527
Methane: 76.2809
Ethane: 10.7191
Propane: 6.6245
I-Butane: 1.4684
N-Butane: 1.8390
I-Pentane: 0.7368
N-Pentane: 0.6104
Hexane+: 1.3375

BTU: 1368.2
GPM: 19.9060
SPG: 0.7866



Well Name: NEW MEXICO STATE COM

API #:

Source: TUBING

Sample Type: GAS

Analysis No: ED20230476

Cust No: 25250-13060

Well/Lease Information

Customer Name: ENDURING RESOURCES
 Well Name: NEW MEXICO STATE COM DY-1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004529402

Source: TUBING
 Well Flowing: Y
 Pressure: 41 PSIG
 Flow Temp: 74 DEG. F
 Ambient Temp: 73 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/02/2023
 Sample Time: 11.50 AM
 Sampled By: CHAD SNELL
 Sampled by (CO): ENDURING

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3436	0.3430	0.0380	0.00	0.0033
CO2	0.6963	0.6950	0.1190	0.00	0.0106
Methane	79.6956	79.5504	13.5590	804.93	0.4414
Ethane	10.0218	10.0035	2.6900	177.36	0.1040
Propane	5.0279	5.0187	1.3900	126.51	0.0765
Iso-Butane	0.8335	0.8320	0.2740	27.10	0.0167
N-Butane	1.4712	1.4685	0.4650	47.99	0.0295
I-Pentane	0.4780	0.4771	0.1750	19.12	0.0119
N-Pentane	0.4020	0.4013	0.1460	16.11	0.0100
Hexane Plus	1.0301	1.0282	0.4610	54.30	0.0341
Total	100.0000	99.8177	19.3170	1273.42	0.7382

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
 BTU/CU.FT IDEAL: 1276.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1281.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1258.9
 DRY BTU @ 15.025: 1306.9
 REAL SPECIFIC GRAVITY: 0.7407

CYLINDER #: 60
 CYLINDER PRESSURE: 42 PSIG
 ANALYSIS DATE: 06/05/2023
 ANALYSIS TIME: 12:28:40 AM
 ANALYSIS RUN BY: KERRA GONZALEZ

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: 06/07/2023

GC Method: C6+ Gas



ENDURING RESOURCES
WELL ANALYSIS COMPARISON

Lease: NEW MEXICO STATE COM DY-1; TBG TUBING
Stn. No.:
Mtr. No.: 3004529402

06/07/2023
25250-13060

Smpl Date: 06/02/2023
Test Date: 06/05/2023
Run No: ED20230476

Nitrogen: 0.3436
CO2: 0.6963
Methane: 79.6956
Ethane: 10.0218
Propane: 5.0279
I-Butane: 0.8335
N-Butane: 1.4712
I-Pentane: 0.4780
N-Pentane: 0.4020
Hexane+: 1.0301

BTU: 1281.2
GPM: 19.3170
SPG: 0.7407

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 227738

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way, Suite 525 Centennial, CO 80111	OGRID: 372286
	Action Number: 227738
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Wellbore schematic has been deleted from this form - please submit wellbore schematic under UF-WBS Wellbore schematic - bradenhead gas is different from production gas	10/6/2023