



Well Name: LYBROOK 2308-24I

API #: 3004535548

Source: BRADENHEAD

Sample Type: GAS

Analysis No: DR20240180

Cust No: 21300-13655

Well/Lease Information

Customer Name: D.J.R.
 Well Name: LYBROOK 2308-24I #156H; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004535548

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 36 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 62 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/16/2024
 Sample Time: 2.40 PM
 Sampled By: J. HARTER
 Sampled by (CO): COTTONWOOD

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.6966	4.7189	0.5190	0.00	0.0454
CO2	0.1049	0.1054	0.0180	0.00	0.0016
Methane	68.5766	68.9028	11.6760	692.62	0.3798
Ethane	12.4261	12.4852	3.3380	219.90	0.1290
Propane	7.3311	7.3660	2.0280	184.46	0.1116
Iso-Butane	1.1937	1.1994	0.3920	38.82	0.0240
N-Butane	3.0365	3.0509	0.9610	99.06	0.0609
I-Pentane	0.7827	0.7864	0.2870	31.32	0.0195
N-Pentane	0.6640	0.6672	0.2420	26.62	0.0165
Hexane Plus	1.1878	1.1935	0.5320	62.61	0.0393
Total	100.0000	100.4757	19.9930	1355.41	0.8277

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0046
 BTU/CU.FT IDEAL: 1358.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1364.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1341.0
 DRY BTU @ 15.025: 1392.0
 REAL SPECIFIC GRAVITY: 0.8311

CYLINDER #: 4232
 CYLINDER PRESSURE: 33 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 02:31:00 PM
 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: 10/28/2024

GC Method: C6+ Gas



D.J.R.

WELL ANALYSIS COMPARISON

Lease:	LYBROOK 2308-24I #156H; BHD	BRADENHEAD	10/28/2024
Stn. No.:	3004535548		21300-13655
Mtr. No.:			

Smpl Date:	10/16/2024
Test Date:	10/24/2024
Run No:	DR20240180
Nitrogen:	4.6966
CO2:	0.1049
Methane:	68.5766
Ethane:	12.4261
Propane:	7.3311
I-Butane:	1.1937
N-Butane:	3.0365
I-Pentane:	0.7827
N-Pentane:	0.6640
Hexane+:	1.1878
BTU:	1364.7
GPM:	19.9930
SPG:	0.8311



Well Name: LYBROOK 2308-24I

API #: 3004535548

Source: CASING

Sample Type: GAS

Analysis No: DR20240181

Cust No: 21300-13660

Well/Lease Information

Customer Name: D.J.R.
 Well Name: LYBROOK 2308-24I #156H; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004535548

Source: CASING
 Well Flowing: Y
 Pressure: 32 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 62 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/16/2024
 Sample Time: 2.50 PM
 Sampled By: J. HARTER
 Sampled by (CO): COTTONWOOD

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.2925	4.3225	0.4750	0.00	0.0415
CO2	0.1664	0.1676	0.0290	0.00	0.0025
Methane	65.0291	65.4842	11.0790	656.79	0.3602
Ethane	13.9077	14.0050	3.7380	246.12	0.1444
Propane	7.8497	7.9046	2.1730	197.51	0.1195
Iso-Butane	1.4195	1.4294	0.4670	46.16	0.0285
N-Butane	3.8124	3.8391	1.2080	124.37	0.0765
I-Pentane	1.0692	1.0767	0.3930	42.78	0.0266
N-Pentane	0.9718	0.9786	0.3540	38.96	0.0242
Hexane Plus	1.4817	1.4921	0.6640	78.10	0.0490
Total	100.0000	100.6998	20.5800	1430.79	0.8730

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0052
 BTU/CU.FT IDEAL: 1434.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1441.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1416.5
 DRY BTU @ 15.025: 1470.5
 REAL SPECIFIC GRAVITY: 0.8772

CYLINDER #: 6167
 CYLINDER PRESSURE: 29 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 02:23:00 PM
 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: 10/28/2024

GC Method: C6+ Gas



D.J.R.

WELL ANALYSIS COMPARISON

Lease:	LYBROOK 2308-24I #156H; CSG	CASING	10/28/2024
Stn. No.:	3004535548		21300-13660
Mtr. No.:			

Smpl Date:	10/16/2024
Test Date:	10/24/2024
Run No:	DR20240181
Nitrogen:	4.2925
CO2:	0.1664
Methane:	65.0291
Ethane:	13.9077
Propane:	7.8497
I-Butane:	1.4195
N-Butane:	3.8124
I-Pentane:	1.0692
N-Pentane:	0.9718
Hexane+:	1.4817
BTU:	1441.6
GPM:	20.5800
SPG:	0.8772



Well Name: LYBROOK 2308-24I

API #: 3004535548

Source: TUBING

Sample Type: GAS

Analysis No: DR20240182

Cust No: 21300-13665

Well/Lease Information

Customer Name: D.J.R.
 Well Name: LYBROOK 2308-24I #156H; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004535548

Source: TUBING
 Well Flowing: Y
 Pressure: 16 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 62 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/16/2024
 Sample Time: 3.00 PM
 Sampled By: J. HARTER
 Sampled by (CO): COTTONWOOD

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	34.2266	8.9102	3.7720	0.00	0.3310
CO2	0.2962	0.0771	0.0510	0.00	0.0045
Methane	56.9541	14.8269	9.6710	575.24	0.3155
Ethane	4.2834	1.1151	1.1470	75.80	0.0445
Propane	2.2218	0.5784	0.6130	55.90	0.0338
Iso-Butane	0.2328	0.0606	0.0760	7.57	0.0047
N-Butane	0.6196	0.1613	0.1960	20.21	0.0124
I-Pentane	0.1763	0.0459	0.0650	7.05	0.0044
N-Pentane	0.0880	0.0229	0.0320	3.53	0.0022
Hexane Plus	0.9012	0.2346	0.4030	47.50	0.0298
Total	100.0000	26.0330	16.0260	792.81	0.7828

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
 BTU/CU.FT IDEAL: 794.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 796.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 782.3
 DRY BTU @ 15.025: 812.1
 REAL SPECIFIC GRAVITY: 0.784

CYLINDER #: 6243
 CYLINDER PRESSURE: PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 02:43:00 PM
 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: 10/28/2024

GC Method: C6+ Gas



D.J.R.

WELL ANALYSIS COMPARISON

Lease:	LYBROOK 2308-24I #156H; TBG	TUBING	10/28/2024
Stn. No.:	3004535548		21300-13665
Mtr. No.:			

Smpl Date:	10/16/2024
Test Date:	10/24/2024
Run No:	DR20240182
Nitrogen:	34.2266
CO2:	0.2962
Methane:	56.9541
Ethane:	4.2834
Propane:	2.2218
I-Butane:	0.2328
N-Butane:	0.6196
I-Pentane:	0.1763
N-Pentane:	0.0880
Hexane+:	0.9012
BTU:	796.2
GPM:	16.0260
SPG:	0.7840

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General Information
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Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 398637

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 398637
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Same gas production casing and bradenhead	11/27/2024