



Well Name: W. LYBROOK UNIT 753;
 API #: 3004535815
 Source: TUBING
 Sample Type: GAS
 Analysis No: DR20240185
 Cust No: 21300-13710

Well/Lease Information

Customer Name: D.J.R.	Source: TUBING
Well Name: W. LYBROOK UNIT 753; TBG	Well Flowing: Y
County/State: SAN JUAN NM	Pressure: 48 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: 67 DEG. F
Formation:	Flow Rate: MCF/D
Cust. Stn. No.: 3004535815	Sample Method: Purge & Fill
	Sample Date: 10/16/2024
	Sample Time: 4.00 PM
	Sampled By: J. HARTER
	Sampled by (CO): COTTONWOOD
Heat Trace: N	
Remarks:	

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.7473	4.7803	0.5240	0.00	0.0459
CO2	0.6121	0.6164	0.1050	0.00	0.0093
Methane	71.3829	71.8792	12.1510	720.97	0.3954
Ethane	8.5303	8.5896	2.2910	150.96	0.0886
Propane	8.8140	8.8753	2.4380	221.77	0.1342
Iso-Butane	1.1318	1.1397	0.3720	36.81	0.0227
N-Butane	2.7008	2.7196	0.8550	88.11	0.0542
I-Pentane	0.6390	0.6434	0.2350	25.57	0.0159
N-Pentane	0.5286	0.5323	0.1920	21.19	0.0132
Hexane Plus	0.9132	0.9196	0.4090	48.14	0.0302
Total	100.0000	100.6954	19.5720	1313.50	0.8096

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0043	CYLINDER #:	6000
BTU/CU.FT IDEAL:	1316.5	CYLINDER PRESSURE:	51 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1322.1	ANALYSIS DATE:	10/24/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1299.1	ANALYSIS TIME:	02:47:00 PM
DRY BTU @ 15.025:	1348.6	ANALYSIS RUN BY:	ALEXIS MITCHELL
REAL SPECIFIC GRAVITY:	0.8127		

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:	W. LYBROOK UNIT 753; TBG	TUBING	10/28/2024
Stn. No.:	3004535815		21300-13710
Mtr. No.:			

Smpl Date:	10/16/2024
Test Date:	10/24/2024
Run No:	DR20240185
Nitrogen:	4.7473
CO2:	0.6121
Methane:	71.3829
Ethane:	8.5303
Propane:	8.8140
I-Butane:	1.1318
N-Butane:	2.7008
I-Pentane:	0.6390
N-Pentane:	0.5286
Hexane+:	0.9132
BTU:	1322.1
GPM:	19.5720
SPG:	0.8127



Well Name: W. LYBROOK UNIT 753H;
 API #: 3004535815
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: DR20240183
 Cust No: 21300-13700

Well/Lease Information

Customer Name: D.J.R.
 Well Name: W. LYBROOK UNIT 753H; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004535815

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 26 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/16/2024
 Sample Time: 3.40 PM
 Sampled By: J. HARTE
 Sampled by (CO): COTTONWOOD

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	78.3888	1.3214	8.6310	0.00	0.7582
CO2	0.4924	0.0083	0.0840	0.00	0.0075
Methane	12.9087	0.2176	2.1900	130.38	0.0715
Ethane	4.4195	0.0745	1.1830	78.21	0.0459
Propane	0.9254	0.0156	0.2550	23.28	0.0141
Iso-Butane	0.2254	0.0038	0.0740	7.33	0.0045
N-Butane	0.4449	0.0075	0.1400	14.51	0.0089
I-Pentane	0.1898	0.0032	0.0690	7.59	0.0047
N-Pentane	0.0949	0.0016	0.0340	3.80	0.0024
Hexane Plus	1.9102	0.0322	0.8530	100.69	0.0632
Total	100.0000	1.6857	13.5130	365.80	0.9809

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0011
 BTU/CU.FT IDEAL: 366.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 367.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 360.7
 DRY BTU @ 15.025: 374.5
 REAL SPECIFIC GRAVITY: 0.9816

CYLINDER #: 5005
 CYLINDER PRESSURE: 42 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 03:03:00 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:	W. LYBROOK UNIT 753H; BHD	BRADENHEAD	10/28/2024
Stn. No.:	3004535815		21300-13700
Mtr. No.:			

Smpl Date:	10/16/2024
Test Date:	10/24/2024
Run No:	DR20240183
Nitrogen:	78.3888
CO2:	0.4924
Methane:	12.9087
Ethane:	4.4195
Propane:	0.9254
I-Butane:	0.2254
N-Butane:	0.4449
I-Pentane:	0.1898
N-Pentane:	0.0949
Hexane+:	1.9102
BTU:	367.1
GPM:	13.5130
SPG:	0.9816



Well Name: W. LYBROOK UNIT 753H;
 API #: 3004535815
 Source: CASING
 Sample Type: GAS
 Analysis No: DR20240184
 Cust No: 21300-13705

Well/Lease Information

Customer Name: D.J.R.
 Well Name: W. LYBROOK UNIT 753H; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004535815

Source: CASING
 Well Flowing: Y
 Pressure: 270 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 67 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 10/16/2024
 Sample Time: 3.50 PM
 Sampled By: J. HARTE
 Sampled by (CO): COTTONWOOD

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.5031	3.5316	0.3870	0.00	0.0339
CO2	0.5909	0.5957	0.1010	0.00	0.0090
Methane	70.8180	71.3941	12.0530	715.26	0.3923
Ethane	10.5501	10.6359	2.8330	186.71	0.1095
Propane	9.6281	9.7064	2.6630	242.25	0.1466
Iso-Butane	1.1037	1.1127	0.3630	35.89	0.0221
N-Butane	2.6311	2.6525	0.8330	85.83	0.0528
I-Pentane	0.4608	0.4645	0.1690	18.44	0.0115
N-Pentane	0.3273	0.3300	0.1190	13.12	0.0082
Hexane Plus	0.3869	0.3900	0.1730	20.39	0.0128
Total	100.0000	100.8134	19.6940	1317.90	0.7986

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0042
 BTU/CU.FT IDEAL: 1320.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1326.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1303.4
 DRY BTU @ 15.025: 1353.1
 REAL SPECIFIC GRAVITY: 0.8017

CYLINDER #: 4164
 CYLINDER PRESSURE: 261 PSIG
 ANALYSIS DATE: 10/24/2024
 ANALYSIS TIME: 03:11:00 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:	W. LYBROOK UNIT 753H; CSG	CASING	10/28/2024
Stn. No.:	3004535815		21300-13705
Mtr. No.:			

Smpl Date:	10/16/2024
Test Date:	10/24/2024
Run No:	DR20240184
Nitrogen:	3.5031
CO2:	0.5909
Methane:	70.8180
Ethane:	10.5501
Propane:	9.6281
I-Butane:	1.1037
N-Butane:	2.6311
I-Pentane:	0.4608
N-Pentane:	0.3273
Hexane+:	0.3869
BTU:	1326.5
GPM:	19.6940
SPG:	0.8017

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/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 398653

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 398653
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	bad sample on bh (does not appear to be enough volume) - vapor flow stopped 10 minutes into test - well cleared but need to watch in the future	11/27/2024