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

Analysis No: DR180057
Cust No: 21300-10275

Well/Lease Information

Customer Name:	D.J.R.	Source:	BRADENHEAD
Well Name:	WHEE WHITNEY #1; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	110 PSIG
Location:		Flow Temp:	DEG. F
Field:		Ambient Temp:	80 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 30-045-26462	Sample Method:	Purge & Fill
		Sample Date:	08/10/2018
		Sample Time:	9.30 AM
		Sampled By:	JACOB HARTER
Heat Trace:	N	Sampled by (CO):	COTTONWOOD
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.7234	4.7507	0.5210	0.00	0.0457
CO2	0.0054	0.0054	0.0010	0.00	0.0001
Methane	94.6934	95.2405	16.0800	956.40	0.5245
Ethane	0.4513	0.4539	0.1210	7.99	0.0047
Propane	0.0784	0.0789	0.0220	1.97	0.0012
Iso-Butane	0.0248	0.0249	0.0080	0.81	0.0005
N-Butane	0.0031	0.0031	0.0010	0.10	0.0001
I-Pentane	0.0023	0.0023	0.0010	0.09	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0179	0.0180	0.0080	0.94	0.0006
Total	100.0000	100.5777	16.7630	968.31	0.5774

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0019	CYLINDER #:	4185
BTU/CU.FT IDEAL:	970.5	CYLINDER PRESSURE:	99 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	972.4	ANALYIS DATE:	08/16/2018
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	955.5	ANALYIS TIME:	02:51:14 PM
DRY BTU @ 15.025:	991.9	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.5782		

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: 08/23/2018**
GC Method: C6+ Gas

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

Analysis No: DR180058
Cust No: 21300-10280

Well/Lease Information

Customer Name:	D.J.R.	Source:	CASING
Well Name:	WHEE WHITNEY #1; CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	0.3 PSIG
Location:		Flow Temp:	DEG. F
Field:		Ambient Temp:	80 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 30-045-26462	Sample Method:	Purge & Fill
		Sample Date:	08/10/2018
		Sample Time:	9.35 AM
		Sampled By:	JACOB HARTER
Heat Trace:	N	Sampled by (CO):	COTTONWOOD
Remarks:	PRESSURED WITH HELIUM TO 30LBS.		

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.9179	0.8072	0.3310	0.00	0.0282
CO2	0.4974	0.1376	0.0870	0.00	0.0076
Methane	2.7238	0.7535	0.4760	27.51	0.0151
Ethane	2.4968	0.6907	0.6880	44.19	0.0259
Propane	26.7500	7.4001	7.5930	673.06	0.4073
Iso-Butane	10.0788	2.7882	3.3980	327.75	0.2023
N-Butane	32.2106	8.9107	10.4630	1050.81	0.6464
I-Pentane	8.6488	2.3926	3.2590	346.03	0.2155
N-Pentane	8.0715	2.2329	3.0150	323.56	0.2011
Hexane Plus	5.6044	1.5504	2.5750	295.41	0.1855
Total	100.0000	27.6639	31.8850	3088.32	1.9347

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0306	CYLINDER #:	4096
BTU/CU.FT IDEAL:	3095.5	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	3190.2	ANALYIS DATE:	08/16/2018
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	3134.7	ANALYIS TIME:	03:05:15 AM
DRY BTU @ 15.025:	3254.1	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	1.9931		

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: 08/23/2018**
GC Method: C6+ Gas

GAS ANALYSIS SERVICE

2030 Afton Place
Farmington, NM 87401
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Analysis No: DR180059
Cust No: 21300-10285

Well/Lease Information

Customer Name:	D.J.R.	Source:	TUBING
Well Name:	WHEE WHITNEY #1; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	1 PSIG
Location:		Flow Temp:	DEG. F
Field:		Ambient Temp:	80 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	API # 30-045-26462	Sample Method:	Purge & Fill
		Sample Date:	08/10/2018
		Sample Time:	9.40 AM
		Sampled By:	JACOB HARTER
Heat Trace:	N	Sampled by (CO):	COTTONWOOD
Remarks:	PRESSURED WITH HELIUM TO 30LBS.		

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1170	0.3555	0.1250	0.00	0.0108
CO2	1.0957	0.3487	0.1900	0.00	0.0166
Methane	43.8763	13.9636	7.5460	443.15	0.2430
Ethane	9.8046	3.1203	2.6600	173.51	0.1018
Propane	12.4409	3.9593	3.4770	313.03	0.1894
Iso-Butane	2.9156	0.9279	0.9680	94.81	0.0585
N-Butane	10.8871	3.4648	3.4820	355.17	0.2185
I-Pentane	4.7513	1.5121	1.7630	190.09	0.1184
N-Pentane	5.4395	1.7311	2.0000	218.05	0.1355
Hexane Plus	7.6720	2.4416	3.4710	404.40	0.2539
Total	100.0000	31.8249	25.6820	2192.21	1.3465

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0147	CYLINDER #:	4174
BTU/CU.FT IDEAL:	2197.3	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	2229.6	ANALYIS DATE:	08/16/2018
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	2190.8	ANALYIS TIME:	02:52:06 PM
DRY BTU @ 15.025:	2274.3	ANALYSIS RUN BY:	SHYANN ELLEDGE
REAL SPECIFIC GRAVITY:	1.3657		

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: 08/23/2018**
GC Method: C6+ Gas