



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

Analysis No: GW170034
Cust No: 33050-10175

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J. E. DECKER #2; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: BLANCO MV
Cust. Str. No.: 70797

Source: BRADENHEAD
Well Flowing: Y
Pressure: 43 PSIG
Flow Temp: DEG. F
Ambient Temp: 64 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/23/2017
Sample Time: 12.20 PM
Sampled By: CULLAN
Sampled by (CO): GWDC

OIL CONS. DIV DIST. 3
NOV 07 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6755	0.6613	0.0740	0.00	0.0065
CO2	0.0079	0.0077	0.0010	0.00	0.0001
Methane	91.2076	89.2936	15.4990	921.20	0.5052
Ethane	4.0744	3.9889	1.0920	72.10	0.0423
Propane	2.2953	2.2471	0.6340	57.75	0.0349
Iso-Butane	0.5140	0.5032	0.1690	16.71	0.0103
N-Butane	0.5527	0.5411	0.1750	18.03	0.0111
I-Pentane	0.2189	0.2143	0.0800	8.76	0.0055
N-Pentane	0.1436	0.1406	0.0520	5.76	0.0036
Hexane Plus	0.3101	0.3036	0.1390	16.35	0.0103
Total	100.0000	97.9014	17.9150	1116.66	0.6298

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT IDEAL: 1119.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1122.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1102.7
DRY BTU @ 15.025: 1144.7
REAL SPECIFIC GRAVITY: 0.6312

CYLINDER #: 7053
CYLINDER PRESSURE: 46 PSIG
DATE RUN: 10/30/17 12:20 PM
ANALYSIS RUN BY: RICHARD WILSON

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: 10/30/2017

GC Method: C6+ Gas



2030 Afton Place
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Analysis No: GW170046
Cust No: 33050-10355

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 2; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-11490

Source: TUBING
Well Flowing: Y
Pressure: 156 PSIG
Flow Temp: DEG. F
Ambient Temp: 57 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/25/2017
Sample Time: 10.10 AM
Sampled By: CULLAN
Sampled by (CO): GWDC

OIL CONS. DIV DIST. 3
NOV 07 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1480	0.1463	0.0160	0.00	0.0014
CO2	1.2897	1.2750	0.2210	0.00	0.0196
Methane	84.0729	83.1122	14.2950	849.14	0.4657
Ethane	8.4481	8.3516	2.2660	149.51	0.0877
Propane	3.4303	3.3911	0.9480	86.31	0.0522
Iso-Butane	0.6261	0.6189	0.2050	20.36	0.0126
N-Butane	0.8854	0.8753	0.2800	28.88	0.0178
I-Pentane	0.3077	0.3042	0.1130	12.31	0.0077
N-Pentane	0.2316	0.2290	0.0840	9.28	0.0058
Hexane Plus	0.5602	0.5538	0.2510	29.53	0.0185
Total	100.0000	98.8574	18.6790	1185.32	0.6890

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
BTU/CU.FT IDEAL: 1188.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1191.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1171.2
DRY BTU @ 15.025: 1215.8
REAL SPECIFIC GRAVITY: 0.6909

CYLINDER #: 4110
CYLINDER PRESSURE: 164 PSIG
DATE RUN: 10/31/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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: 11/01/2017

GC Method: C6+ Gas



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

Analysis No: GW170045
Cust No: 33050-10350

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 2; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Str. No.: API 30-045-11490

Source: CASING
Well Flowing: Y
Pressure: 240 PSIG
Flow Temp: DEG. F
Ambient Temp: 57 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/25/2017
Sample Time: 10.00 AM
Sampled By: CULLAN
Sampled by (CO): GWDC

OIL CONS. DIV DIST. 3

NOV 07 2017

Remarks: PRESSURED WITH HELIUM TO 30 LBS. CYLINDER WAS PRESSURE TESTED, NO LEAKS FOUND.

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	99.2376	3.9572	10.9180	0.00	0.9598
CO2	0.2733	0.0109	0.0470	0.00	0.0042
Methane	0.4565	0.0182	0.0770	4.61	0.0025
Ethane	0.0326	0.0013	0.0090	0.58	0.0003
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	3.9876	11.0510	5.19	0.9668

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0003
BTU/CU.FT IDEAL: 5.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 5.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 5.1
DRY BTU @ 15.025: 5.3
REAL SPECIFIC GRAVITY: 0.9667

CYLINDER #: 4009
CYLINDER PRESSURE: 7 PSIG
DATE RUN: 10/31/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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: 11/01/2017

GC Method: C6+ Gas



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

Analysis No: GW170035
Cust No: 33050-10345

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 2; INT
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-11490

Source: METER RUN
Well Flowing: Y
Pressure: 216 PSIG
Flow Temp: DEG. F
Ambient Temp: 64 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/23/2017
Sample Time: 12.30 PM
Sampled By: CULLEN
Sampled by (CO): GWDC

OIL CONS. DIV DIST. 3
NOV 07 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2166	0.2145	0.0240	0.00	0.0021
CO2	1.1817	1.1700	0.2020	0.00	0.0180
Methane	79.5872	78.8019	13.5390	803.83	0.4408
Ethane	10.4006	10.2980	2.7910	184.06	0.1080
Propane	4.6289	4.5832	1.2800	116.47	0.0705
Iso-Butane	0.7929	0.7851	0.2600	25.78	0.0159
N-Butane	1.3615	1.3481	0.4310	44.42	0.0273
I-Pentane	0.4928	0.4879	0.1810	19.72	0.0123
N-Pentane	0.4084	0.4044	0.1490	16.37	0.0102
Hexane Plus	0.9294	0.9202	0.4160	48.99	0.0308
Total	100.0000	99.0133	19.2730	1259.64	0.7358

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT IDEAL: 1262.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1267.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1245.2
DRY BTU @ 15.025: 1292.6
REAL SPECIFIC GRAVITY: 0.7382

CYLINDER #: 6148
CYLINDER PRESSURE: 182 PSIG
DATE RUN: 10/30/17 12:30 PM
ANALYSIS RUN BY: RICHARD WILSON

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: 10/30/2017

GC Method: C6+ Gas