



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

Analysis No: GW170036
Cust No: 33050-10240

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 2A BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.:

Source: METER RUN
Well Flowing: Y
Pressure: 39 PSIG
Flow Temp: DEG. F
Ambient Temp: 63 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/23/2017
Sample Time: 12.00 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	0.9741	0.9515	0.1070	0.00	0.0094
CO2	0.7882	0.7699	0.1350	0.00	0.0120
Methane	87.4559	85.4297	14.8640	883.30	0.4844
Ethane	6.3550	6.2078	1.7040	112.46	0.0660
Propane	2.4524	2.3956	0.6770	61.70	0.0373
Iso-Butane	0.4739	0.4629	0.1550	15.41	0.0095
N-Butane	0.6025	0.5885	0.1900	19.66	0.0121
I-Pentane	0.2167	0.2117	0.0790	8.67	0.0054
N-Pentane	0.1576	0.1539	0.0570	6.32	0.0039
Hexane Plus	0.5237	0.5116	0.2340	27.60	0.0173
Total	100.0000	97.6831	18.2020	1135.13	0.6574

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT IDEAL: 1137.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1141.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1121.1
DRY BTU @ 15.025: 1163.9
REAL SPECIFIC GRAVITY: 0.659

CYLINDER #: 4155
CYLINDER PRESSURE: 39 PSIG
DATE RUN: 10/30/17 12:00 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
Farmington, NM 87401
(505) 325-6622

Analysis No: GW170048
Cust No: 33050-10385

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 2A; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-23085

Source: TUBING
Well Flowing: Y
Pressure: 130 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: 10.25 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	0.1061	0.1047	0.0120	0.00	0.0010
CO2	1.5595	1.5391	0.2670	0.00	0.0237
Methane	85.6357	84.5162	14.5590	864.92	0.4743
Ethane	7.2963	7.2009	1.9570	129.12	0.0758
Propane	2.9063	2.8683	0.8030	73.13	0.0442
Iso-Butane	0.5875	0.5798	0.1930	19.10	0.0118
N-Butane	0.7537	0.7438	0.2380	24.59	0.0151
I-Pentane	0.2801	0.2764	0.1030	11.21	0.0070
N-Pentane	0.2122	0.2094	0.0770	8.51	0.0053
Hexane Plus	0.6626	0.6539	0.2960	34.93	0.0219
Total	100.0000	98.6925	18.5050	1165.50	0.6802

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1168.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1171.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1151.4
DRY BTU @ 15.025: 1195.3
REAL SPECIFIC GRAVITY: 0.682

CYLINDER #: 6141
CYLINDER PRESSURE: 139 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: GW170047
Cust No: 33050-10370

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 2A; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-23085

Source: CASING
Well Flowing: Y
Pressure: 130 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: 10.15 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	0.1132	0.1114	0.0120	0.00	0.0011
CO2	1.4260	1.4032	0.2440	0.00	0.0217
Methane	85.5171	84.1485	14.5390	863.72	0.4737
Ethane	7.4949	7.3750	2.0100	132.64	0.0778
Propane	2.9601	2.9127	0.8180	74.48	0.0451
Iso-Butane	0.5852	0.5758	0.1920	19.03	0.0117
N-Butane	0.7508	0.7388	0.2370	24.49	0.0151
I-Pentane	0.2798	0.2753	0.1030	11.19	0.0070
N-Pentane	0.2102	0.2068	0.0760	8.43	0.0052
Hexane Plus	0.6627	0.6521	0.2960	34.93	0.0219
Total	100.0000	98.3996	18.5270	1168.91	0.6803

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1171.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1175.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1154.8
DRY BTU @ 15.025: 1198.8
REAL SPECIFIC GRAVITY: 0.6821

CYLINDER #: 6246
CYLINDER PRESSURE: 140 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