



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

Analysis No: GW170030
Cust No: 33050-10340

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 3-B; INT
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-30320

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 7 PSIG
Flow Temp: DEG. F
Ambient Temp: 63 DEG. F
Flow Rate: 68 MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/19/2017
Sample Time: 10.50 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	0.4735	0.4577	0.0520	0.00	0.0046
CO2	0.0599	0.0579	0.0100	0.00	0.0009
Methane	84.3047	81.4894	14.3360	851.48	0.4670
Ethane	8.1399	7.8681	2.1840	144.05	0.0845
Propane	4.2587	4.1165	1.1770	107.15	0.0648
Iso-Butane	0.4903	0.4739	0.1610	15.94	0.0098
N-Butane	0.9624	0.9303	0.3040	31.40	0.0193
I-Pentane	0.2565	0.2479	0.0940	10.26	0.0064
N-Pentane	0.2309	0.2232	0.0840	9.26	0.0058
Hexane Plus	0.8232	0.7957	0.3680	43.39	0.0272
Total	100.0000	96.6606	18.7700	1212.93	0.6903

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1215.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1219.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1198.6
DRY BTU @ 15.025: 1244.2
REAL SPECIFIC GRAVITY: 0.6923

CYLINDER #: 7037
CYLINDER PRESSURE: 10 PSIG
DATE RUN: 10/26/17 12:00 AM
ANALYSIS RUN BY: CAMERON MANGAN

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: GW170029
Cust No: 33050-10335

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 3-B; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-30320

Source: TUBING
Well Flowing: Y
Pressure: 121 PSIG
Flow Temp: DEG. F
Ambient Temp: 63 DEG. F
Flow Rate: 68 MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/19/2017
Sample Time: 10.30 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	0.1341	0.1318	0.0150	0.00	0.0013
CO2	1.7937	1.7631	0.3070	0.00	0.0273
Methane	83.5250	82.0980	14.2030	843.60	0.4626
Ethane	8.4084	8.2648	2.2560	148.80	0.0873
Propane	3.3231	3.2663	0.9180	83.61	0.0506
Iso-Butane	0.6359	0.6250	0.2090	20.68	0.0128
N-Butane	0.8660	0.8512	0.2740	28.25	0.0174
I-Pentane	0.3302	0.3246	0.1210	13.21	0.0082
N-Pentane	0.2464	0.2422	0.0900	9.88	0.0061
Hexane Plus	0.7372	0.7246	0.3300	38.86	0.0244
Total	100.0000	98.2916	18.7230	1186.90	0.6980

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1189.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1193.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1172.8
DRY BTU @ 15.025: 1217.5
REAL SPECIFIC GRAVITY: 0.7

CYLINDER #: 4040
CYLINDER PRESSURE: 124 PSIG
DATE RUN: 10/26/17 10:30 AM
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

GC Method: C6+ Gas

Last Cal/Verify: 10/30/2017



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

Analysis No: GW170028
Cust No: 33050-10330

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 3-B; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-30320

Source: CASING
Well Flowing: Y
Pressure: 130 PSIG
Flow Temp: DEG. F
Ambient Temp: 63 DEG. F
Flow Rate: 68 MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/19/2017
Sample Time: 10.40 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	0.1528	0.1500	0.0170	0.00	0.0015
CO2	1.7512	1.7188	0.3000	0.00	0.0266
Methane	83.5360	81.9900	14.2050	843.71	0.4627
Ethane	8.3965	8.2411	2.2520	148.59	0.0872
Propane	3.3236	3.2621	0.9180	83.63	0.0506
Iso-Butane	0.6347	0.6230	0.2080	20.64	0.0127
N-Butane	0.9034	0.8867	0.2860	29.47	0.0181
I-Pentane	0.3480	0.3416	0.1280	13.92	0.0087
N-Pentane	0.2593	0.2545	0.0940	10.39	0.0065
Hexane Plus	0.6945	0.6816	0.3110	36.61	0.0230
Total	100.0000	98.1494	18.7190	1186.97	0.6975

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1189.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1193.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1172.9
DRY BTU @ 15.025: 1217.6
REAL SPECIFIC GRAVITY: 0.6996

CYLINDER #: 4172
CYLINDER PRESSURE: 114 PSIG
DATE RUN: 10/26/17 10:40 AM
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