



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

Analysis No: GW170032
Cust No: 33050-10220

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 1A B.H.D
County/State: SAN JUAN NM
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 124 PSIG
Flow Temp: DEG. F
Ambient Temp: 57 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/23/2017
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	0.1554	0.1537	0.0170	0.00	0.0015
CO2	1.7581	1.7384	0.3010	0.00	0.0267
Methane	83.6625	82.7231	14.2270	844.99	0.4634
Ethane	8.1439	8.0525	2.1850	144.12	0.0845
Propane	3.3283	3.2909	0.9200	83.74	0.0507
Iso-Butane	0.6700	0.6625	0.2200	21.79	0.0134
N-Butane	0.8740	0.8642	0.2760	28.51	0.0175
I-Pentane	0.3341	0.3303	0.1230	13.37	0.0083
N-Pentane	0.2503	0.2475	0.0910	10.03	0.0062
Hexane Plus	0.8234	0.8142	0.3680	43.40	0.0273
Total	100.0000	98.8773	18.7280	1189.96	0.6996

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1192.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1196.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1175.9
DRY BTU @ 15.025: 1220.7
REAL SPECIFIC GRAVITY: 0.7017

CYLINDER #: 6023
CYLINDER PRESSURE: 126 PSIG
DATE RUN: 10/30/17 10:50 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



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

Analysis No: GW170042
Cust No: 33050-10375

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 1A; TBG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-23080

Source: TUBING
Well Flowing: Y
Pressure: 120 PSIG
Flow Temp: DEG. F
Ambient Temp: 54 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/27/2017
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	0.1254	0.1237	0.0140	0.00	0.0012
CO2	1.8091	1.7848	0.3100	0.00	0.0275
Methane	83.5097	82.3886	14.2010	843.45	0.4626
Ethane	8.2268	8.1164	2.2070	145.59	0.0854
Propane	3.4142	3.3684	0.9430	85.90	0.0520
Iso-Butane	0.6860	0.6768	0.2250	22.31	0.0138
N-Butane	0.8919	0.8799	0.2820	29.10	0.0179
I-Pentane	0.3296	0.3252	0.1210	13.19	0.0082
N-Pentane	0.2471	0.2438	0.0900	9.91	0.0062
Hexane Plus	0.7602	0.7500	0.3400	40.07	0.0252
Total	100.0000	98.6576	18.7330	1189.51	0.6998

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1192.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1196.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1175.4
DRY BTU @ 15.025: 1220.2
REAL SPECIFIC GRAVITY: 0.7019

CYLINDER #: 7011
CYLINDER PRESSURE: 112 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: GW170041
Cust No: 33050-10380

Well/Lease Information

Customer Name: GREAT WESTERN DRILLING
Well Name: J.E. DECKER 1A; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: BMV
Cust. Stn. No.: API 30-045-23080

Source: CASING
Well Flowing: Y
Pressure: 120 PSIG
Flow Temp: DEG. F
Ambient Temp: 54 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/27/2017
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	0.1230	0.1215	0.0140	0.00	0.0012
CO2	1.7995	1.7776	0.3080	0.00	0.0273
Methane	83.7269	82.7088	14.2370	845.64	0.4638
Ethane	8.1810	8.0815	2.1950	144.78	0.0849
Propane	3.3569	3.3161	0.9280	84.46	0.0511
Iso-Butane	0.6774	0.6692	0.2220	22.03	0.0136
N-Butane	0.8833	0.8726	0.2790	28.82	0.0177
I-Pentane	0.3313	0.3273	0.1220	13.25	0.0083
N-Pentane	0.2461	0.2431	0.0890	9.87	0.0061
Hexane Plus	0.6746	0.6664	0.3020	35.56	0.0223
Total	100.0000	98.7841	18.6960	1184.41	0.6964

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
BTU/CU.FT IDEAL: 1187.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1191.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1170.3
DRY BTU @ 15.025: 1214.9
REAL SPECIFIC GRAVITY: 0.6983

CYLINDER #: 4162
CYLINDER PRESSURE: 126 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: Danalzyer Model 500

GC Method: C6+ Gas

Last Cal/Verify: 11/01/2017