



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

Analysis No: EN170198
Cust No: 25400-11795

Well/Lease Information

Customer Name: ENERVEST
Well Name: WILLIAMS #1C; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: API 300453107

OIL CONS. DIV DIST. 3

OCT 30 2017

Source: CASING
Well Flowing: Y
Pressure: 60 PSIG
Flow Temp: DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/24/2017
Sample Time: 8.45 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2784	0.2773	0.0310	0.00	0.0027
CO2	0.0103	0.0103	0.0020	0.00	0.0002
Methane	81.7573	81.4315	13.9070	825.75	0.4529
Ethane	10.0602	10.0201	2.6990	178.04	0.1044
Propane	4.2662	4.2492	1.1790	107.34	0.0650
Iso-Butane	0.7387	0.7358	0.2430	24.02	0.0148
N-Butane	1.1201	1.1156	0.3540	36.54	0.0225
I-Pentane	0.4275	0.4258	0.1570	17.10	0.0106
N-Pentane	0.3269	0.3256	0.1190	13.10	0.0081
Hexane Plus	1.0144	1.0104	0.4540	53.47	0.0336
Total	100.0000	99.6016	19.1450	1255.37	0.7148

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
BTU/CU.FT IDEAL: 1258.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1262.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1240.8
DRY BTU @ 15.025: 1288.1
REAL SPECIFIC GRAVITY: 0.7171

CYLINDER #: 3
CYLINDER PRESSURE: 64 PSIG
DATE RUN: 10/25/17 8:45 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: 10/25/2017

GC Method: C6+ Gas



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

Analysis No: EN170199
Cust No: 25400-11800

Well/Lease Information

Customer Name: ENERVEST
Well Name: WILLIAMS #1C; INT
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: API 300453107

Source: INTERMEDIATE
Well Flowing: Y
Pressure: 26 PSIG
Flow Temp: DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/24/2017
Sample Time: 8.50 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

OIL CONS. DIV DIST. 3
OCT 30 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	2.4663	2.4519	0.2720	0.00	0.0239
CO2	0.0440	0.0437	0.0080	0.00	0.0007
Methane	93.6288	93.0836	15.9020	945.65	0.5186
Ethane	3.1083	3.0902	0.8330	55.01	0.0323
Propane	0.4865	0.4837	0.1340	12.24	0.0074
Iso-Butane	0.1749	0.1739	0.0570	5.69	0.0035
N-Butane	0.0208	0.0207	0.0070	0.68	0.0004
I-Pentane	0.0178	0.0177	0.0070	0.71	0.0004
N-Pentane	0.0124	0.0123	0.0050	0.50	0.0003
Hexane Plus	0.0402	0.0400	0.0180	2.12	0.0013
Total	100.0000	99.4177	17.2430	1022.59	0.5888

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0021
BTU/CU.FT IDEAL: 1025.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1027.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1009.2
DRY BTU @ 15.025: 1047.7
REAL SPECIFIC GRAVITY: 0.5898

CYLINDER #: 2
CYLINDER PRESSURE: 11 PSIG
DATE RUN: 10/25/17 8:50 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: 10/25/2017

GC Method: C6+ Gas