GAS ANALYSIS SERVICE

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

30-045-32254

Analysis No: EN150025
Cust No: 25400-11365

Well/Lease Information

Customer Name:	ENERVEST	Source:	BRADENHEAD
Well Name:	FREEMAN #1B; BHD	Pressure:	17 PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	01/12/2015
Formation:	DAKOTA	Sampled By:	L. MARTINEZ
Cust. Stn. No.:		Foreman/Engr.:	

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.854	0.0940	0.00	0.0083
CO2	0.007	0.0010	0.00	0.0001
Methane	94.008	15.9680	949.48	0.5207
Ethane	4.314	1.1560	76.34	0.0448
Propane	0.697	0.1920	17.54	0.0106
Iso-Butane	0.036	0.0120	1.17	0.0007
N-Butane	0.058	0.0180	1.89	0.0012
I-Pentane	0.006	0.0020	0.24	0.0001
N-Pentane	0.004	0.0010	0.16	0.0001
Hexane Plus	0.016	0.0070	0.84	0.0005
Total	100.000	17.4510	1047.67	0.5871

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0022
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1052.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1034.1
REAL SPECIFIC GRAVITY:	0.5882

GPM, BTU, and SPG calculations as shown above are based on current GPA factors.

DRY BTU @ 14.650:	1046.7	CYLINDER #:	#8
DRY BTU @ 14.696:	1050.0	CYLINDER PRESSURE:	15 PSIG
DRY BTU @ 14.730:	1052.4	DATE RUN:	1/22/15 8:39 AM
DRY BTU @ 15.025:	1073.5	ANALYSIS RUN BY:	LOGAN CHENEY

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ENERVEST

WELL ANALYSIS COMPARISON

Lease:	FREEMAN #1B; BHD	BRADENHEAD	01/26/2015
Stn. No.:		DAKOTA	25400-11365
Mtr. No.:			

Smpl Date:	01/12/2015
Test Date:	01/22/2015
Run No:	EN150025
Nitrogen:	0.854
CO2:	0.007
Methane:	94.008
Ethane:	4.314
Propane:	0.697
I-Butane:	0.036
N-Butane:	0.058
I-Pentane:	0.006
N-Pentane:	0.004
Hexane+:	0.016
BTU:	1052.4
GPM:	17.4510
SPG:	0.5882

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30-045-32254

Analysis No: EN150026
Cust No: 25400-11370

Well/Lease Information

Customer Name:	ENERVEST	Source:	CASING
Well Name:	FREEMAN #1B; CSG	Pressure:	70 PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:		Well Flowing:	Y
Field:		Date Sampled:	01/12/2015
Formation:	DAKOTA	Sampled By:	L. MARTINEZ
Cust. Stn. No.:		Foreman/Engr.:	

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.305	0.0340	0.00	0.0029
CO2	0.782	0.1340	0.00	0.0119
Methane	82.731	14.0710	835.58	0.4582
Ethane	9.105	2.4430	161.13	0.0945
Propane	3.715	1.0270	93.47	0.0566
Iso-Butane	0.726	0.2380	23.61	0.0146
N-Butane	0.964	0.3050	31.45	0.0193
I-Pentane	0.413	0.1520	16.52	0.0103
N-Pentane	0.279	0.1010	11.18	0.0070
Hexane Plus	0.980	0.4380	51.66	0.0324
Total	100.000	18.9430	1224.61	0.7078

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z):	1.0035
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):		1231.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z):		1210.2
REAL SPECIFIC GRAVITY:		0.7099

GPM, BTU, and SPG calculations as shown above are based on current GPA factors.

DRY BTU @ 14.650:	1224.9	CYLINDER #:	#9
DRY BTU @ 14.696:	1228.8	CYLINDER PRESSURE:	67 PSIG
DRY BTU @ 14.730:	1231.6	DATE RUN:	1/23/15 8:41 AM
DRY BTU @ 15.025:	1256.3	ANALYSIS RUN BY:	LOGAN CHENEY

GAS ANALYSIS SERVICE

ENERVEST

WELL ANALYSIS COMPARISON

Lease:	FREEMAN #1B; CSG	CASING	01/26/2015
Stn. No.:		DAKOTA	25400-11370
Mtr. No.:			

Smpl Date:	01/12/2015
Test Date:	01/23/2015
Run No:	EN150026
Nitrogen:	0.305
CO2:	0.782
Methane:	82.731
Ethane:	9.105
Propane:	3.715
I-Butane:	0.726
N-Butane:	0.964
I-Pentane:	0.413
N-Pentane:	0.279
Hexane+:	0.980
BTU:	1231.6
GPM:	18.9430
SPG:	0.7099