



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

30-045-23618

Analysis No: EN150029
Cust No: 25400-11385

Well/Lease Information

Customer Name: ENERVEST
Well Name: O'SHEA #1-M; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: DAKOTA
Cust. Str. No.:

Source: BRADENHEAD
Pressure: 28 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 01/12/2015
Sampled By: L. MARTINEZ
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.243	0.0270	0.00	0.0024
CO2	0.034	0.0060	0.00	0.0005
Methane	89.177	15.1570	900.69	0.4940
Ethane	5.869	1.5740	103.86	0.0609
Propane	2.467	0.6810	62.07	0.0376
Iso-Butane	0.550	0.1800	17.89	0.0110
N-Butane	0.750	0.2370	24.47	0.0151
I-Pentane	0.289	0.1060	11.56	0.0072
N-Pentane	0.211	0.0770	8.46	0.0053
Hexane Plus	0.410	0.1830	21.61	0.0136
Total	100.000	18.2280	1150.61	0.6474

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1156.5

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1136.4

REAL SPECIFIC GRAVITY: 0.649

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

DRY BTU @ 14.650: 1150.2

CYLINDER #: #101

DRY BTU @ 14.696: 1153.8

CYLINDER PRESSURE: 32 PSIG

DRY BTU @ 14.730: 1156.5

DATE RUN: 1/23/15 8:45 AM

DRY BTU @ 15.025: 1179.7

ANALYSIS RUN BY: JENNIFER DEAN

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ENERVEST
WELL ANALYSIS COMPARISON

Lease: O'SHEA #1-M; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
DAKOTA

01/26/2015
25400-11385

Smpl Date: 01/12/2015
Test Date: 01/23/2015
Run No: EN150029

Nitrogen: 0.243
CO2: 0.034
Methane: 89.177
Ethane: 5.869
Propane: 2.467
I-Butane: 0.550
N-Butane: 0.750
I-Pentane: 0.289
N-Pentane: 0.211
Hexane+: 0.410

BTU: 1156.5
GPM: 18.2280
SPG: 0.6490



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

Analysis No: EN150030
Cust No: 25400-11390

30-045-23618

Well/Lease Information

Customer Name: ENERVEST
Well Name: O'SHEA #1-M; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: DAKOTA
Cust. Stn. No.:

Source: CASING
Pressure: 175 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 01/12/2015
Sampled By: L. MARTINEZ
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.188	0.0210	0.00	0.0018
CO2	0.728	0.1250	0.00	0.0111
Methane	82.806	14.0820	836.34	0.4587
Ethane	8.878	2.3820	157.12	0.0922
Propane	3.976	1.0990	100.04	0.0605
Iso-Butane	0.770	0.2530	25.04	0.0155
N-Butane	1.120	0.3540	36.54	0.0225
I-Pentane	0.427	0.1570	17.08	0.0106
N-Pentane	0.319	0.1160	12.79	0.0079
Hexane Plus	0.788	0.3530	41.54	0.0261
Total	100.000	18.9420	1226.48	0.7068

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1233.5

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1212.0

REAL SPECIFIC GRAVITY: 0.709

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

DRY BTU @ 14.650: 1226.8

DRY BTU @ 14.696: 1230.7

DRY BTU @ 14.730: 1233.5

DRY BTU @ 15.025: 1258.2

CYLINDER #: #102

CYLINDER PRESSURE: 175 PSIG

DATE RUN: 1/23/15 8:46 AM

ANALYSIS RUN BY: JENNIFER DEAN



ENERVEST
WELL ANALYSIS COMPARISON

Lease: O'SHEA #1-M; CSG
Stn. No.:
Mtr. No.:

CASING
DAKOTA

01/26/2015
25400-11390

Smpl Date: 01/12/2015
Test Date: 01/23/2015
Run No: EN150030

Nitrogen: 0.188
CO2: 0.728
Methane: 82.806
Ethane: 8.878
Propane: 3.976
I-Butane: 0.770
N-Butane: 1.120
I-Pentane: 0.427
N-Pentane: 0.319
Hexane+: 0.788

BTU: 1233.5
GPM: 18.9420
SPG: 0.7090