



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

Analysis No: EN150005
Cust No: 25400-11345

30-045-25953

Well/Lease Information

Customer Name: ENERVEST
Well Name: PAYNE #3E
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Pressure: 90 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 12/29/2014
Sampled By: LEROY M.
Foreman/Engr.:

Remarks: BRADENHEAD SAMPLE

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.371	0.1510	0.00	0.0133
CO2	0.017	0.0030	0.00	0.0003
Methane	88.443	15.0320	893.27	0.4899
Ethane	4.980	1.3350	88.13	0.0517
Propane	3.105	0.8580	78.12	0.0473
Iso-Butane	0.837	0.2750	27.22	0.0168
N-Butane	0.707	0.2230	23.06	0.0142
I-Pentane	0.275	0.1010	11.00	0.0069
N-Pentane	0.128	0.0470	5.13	0.0032
Hexane Plus	0.137	0.0610	7.22	0.0045
Total	100.000	18.0860	1133.17	0.6479

* @ 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): 1138.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1119.1
REAL SPECIFIC GRAVITY: 0.6494

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

DRY BTU @ 14.650: 1132.7
DRY BTU @ 14.696: 1136.3
DRY BTU @ 14.730: 1138.9
DRY BTU @ 15.025: 1161.7

CYLINDER #: 12
CYLINDER PRESSURE: 92 PSIG
DATE RUN: 12/31/14 9:26 AM
ANALYSIS RUN BY: LOGAN CHENEY



ENERVEST
WELL ANALYSIS COMPARISON

Lease: PAYNE #3E
Stn. No.:
Mtr. No.:

BRADENHEAD

01/05/2015
25400-11345

Smpl Date: 12/29/2014
Test Date: 12/31/2014
Run No: EN150005

Nitrogen: 1.371
CO2: 0.017
Methane: 88.443
Ethane: 4.980
Propane: 3.105
I-Butane: 0.837
N-Butane: 0.707
I-Pentane: 0.275
N-Pentane: 0.128
Hexane+: 0.137

BTU: 1138.9
GPM: 18.0860
SPG: 0.6494



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

Analysis No: EN150006
Cust No: 25400-11350

Well/Lease Information

Customer Name: ENERVEST
Well Name: PAYNE #3E
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: 10 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 12/29/2014
Sampled By: LEROY M.
Foreman/Engr.:

Remarks: CASING SAMPLE

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.375	0.0410	0.00	0.0036
CO2	0.739	0.1270	0.00	0.0112
Methane	78.336	13.3270	791.19	0.4339
Ethane	11.694	3.1380	206.95	0.1214
Propane	5.110	1.4130	128.57	0.0778
Iso-Butane	0.545	0.1790	17.72	0.0109
N-Butane	1.536	0.4860	50.11	0.0308
I-Pentane	0.420	0.1540	16.80	0.0105
N-Pentane	0.437	0.1590	17.52	0.0109
Hexane Plus	0.808	0.3620	42.59	0.0267
Total	100.000	19.3860	1271.46	0.7378

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0038
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1279.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1257.0
REAL SPECIFIC GRAVITY: 0.7403

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

DRY BTU @ 14.650: 1272.4
DRY BTU @ 14.696: 1276.3
DRY BTU @ 14.730: 1279.3
DRY BTU @ 15.025: 1304.9

CYLINDER #: 101
CYLINDER PRESSURE: 113 PSIG
DATE RUN: 12/31/14 9:27 AM
ANALYSIS RUN BY: LOGAN CHENEY



ENERVEST
WELL ANALYSIS COMPARISON

Lease: PAYNE #3E
Stn. No.:
Mtr. No.:

CASING

01/05/2015
25400-11350

Smpl Date: 12/29/2014
Test Date: 12/31/2014
Run No: EN150006
Nitrogen: 0.375
CO2: 0.739
Methane: 78.336
Ethane: 11.694
Propane: 5.110
I-Butane: 0.545
N-Butane: 1.536
I-Pentane: 0.420
N-Pentane: 0.437
Hexane+: 0.808
BTU: 1279.3
GPM: 19.3860
SPG: 0.7403



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6178 FAX: (505) 334-6170
<http://emnr.state.nm.us/ocd/District/II/3district.htm>

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 12/29/2014 Operator Enervest API #30-0 45-25953

Property Name Payne Well No. 3E Location: Unit 2 Section 26 Township 31N Range 13W

Well Status(Shut-In or Producing) Initial PSI: Tubing 100 Intermediate Casing 110 Bradenhead 90

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0		110		
10 min	0		110		
15 min	0		110		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow <u>✓</u>	
Surges <u> </u>	
Down to Nothing <u> </u>	
Nothing <u> </u>	
Gas <u> </u>	
Gas & Water <u> </u>	
Water <u> </u>	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN PRESSURE

BRADENHEAD 50

INTERMEDIATE

REMARKS:

Slight Blow after 15 sec

By Alp Chan
Lease Operator
(Position)

Witness

E-mail address