



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://emnrd.state.nm.us/ocd/District III/3district.htm](http://emnrd.state.nm.us/ocd/District%20III/3district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9/25/14 Operator Enervest API #30-0 45-31029

Property Name Arnstein Well No. 1B Location: Unit 1 Section 18 Township 9N Range 12W

Well Status (Shut-In or Producing) Initial PSI: Tubing 90 Intermediate 60 Casing 90 Bradenhead 40

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	BH	Bradenhead		INTERM	
		Int	Csg	Int	Csg
TIME					
5 min	0	60	90	0	90
10 min	0	60	90	0	91
15 min	0	60	90	0	91
20 min					
25 min					
30 min					

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow		X
Surges		
Down to Nothing	X	X
Nothing		
Gas		
Gas & Water		
Water		

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

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 10 INTERMEDIATE 0

REMARKS:

Braden puffs down in less than 1 second
Intermediate has steady blow down to nothing audible, can
see vapors. Gurgles a little from int.

By Jamy Schmidt
Operator
(Position)

Witness _____

E-mail address _____





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MAR 09 2015

NMOCD
DIST.

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

Analysis No: EN150052
Cust No: 25400-11425

Well/Lease Information

Customer Name: ENERVEST
Well Name: ARNSTEIN #1B; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

30-045-31029

Source: BRADENHEAD
Pressure: 14 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 02/13/2015
Sampled By: LEROY MARTINEZ
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.288	0.0320	0.00	0.0028
CO2	0.016	0.0030	0.00	0.0002
Methane	86.932	14.7850	878.01	0.4815
Ethane	4.916	1.3190	87.00	0.0510
Propane	1.744	0.4820	43.88	0.0266
Iso-Butane	0.860	0.2820	27.97	0.0173
N-Butane	1.786	0.5650	58.27	0.0358
I-Pentane	1.291	0.4740	51.65	0.0322
N-Pentane	1.078	0.3920	43.21	0.0269
Hexane Plus	1.089	0.4870	57.40	0.0360
Total	100.000	18.8210	1247.39	0.7103

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1254.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1232.9
REAL SPECIFIC GRAVITY: 0.7125

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

DRY BTU @ 14.650: 1247.9
DRY BTU @ 14.696: 1251.8
DRY BTU @ 14.730: 1254.7
DRY BTU @ 15.025: 1279.8

CYLINDER #: 7
CYLINDER PRESSURE: 24 PSIG
DATE RUN: 2/20/15 10:32 AM
ANALYSIS RUN BY: PATRICIA KING



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MAR 09 2015

NMOCD
DISTR2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: EN150053
Cust No: 25400-11430**Well/Lease Information**Customer Name: ENERVEST
Well Name: ARNSTEIN #1B; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:Source: CASING
Pressure: 72 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 02/13/2015
Sampled By: LEROY MARTINEZ
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.284	0.0310	0.00	0.0027
CO2	0.005	0.0010	0.00	0.0001
Methane	81.338	13.8350	821.52	0.4505
Ethane	9.903	2.6570	175.25	0.1028
Propane	4.594	1.2700	115.59	0.0699
Iso-Butane	0.860	0.2820	27.97	0.0173
N-Butane	1.295	0.4100	42.25	0.0260
I-Pentane	0.498	0.1830	19.92	0.0124
N-Pentane	0.380	0.1380	15.23	0.0095
Hexane Plus	0.843	0.3770	44.43	0.0279
Total	100.000	19.1840	1262.16	0.7191

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1269.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1247.6
REAL SPECIFIC GRAVITY: 0.7214GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.DRY BTU @ 14.650: 1262.8
DRY BTU @ 14.696: 1266.8
DRY BTU @ 14.730: 1269.7
DRY BTU @ 15.025: 1295.1CYLINDER #: 8
CYLINDER PRESSURE: 82 PSIG
DATE RUN: 2/20/15 10:34 AM
ANALYSIS RUN BY: JENNIFER DEAN