



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

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9/23/11 Operator Enervest API #30-0 45-31211

Property Name Duke Well No. 1C Location: Unit B Section 13 Township 31N Range 13W

Well Status (Shut-In or Producing) Initial PSI: Tubing 71 Intermediate 210 Casing 88 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	BH	Int	Csg	Int	Csg
TIME					
5 min	0		88	0	88
10 min	0		88	0	88
15 min	0		88	0	88
20 min					
25 min					
30 min					

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow		X
Surges		
Down to Nothing		X
Nothing	X	
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 0 INTERMEDIATE 0

REMARKS: Quick burst out of intermediate then flow for
3 min. down to nothing

By Jay Smith
operator
(Position)

Witness _____

E-mail address _____





RECEIVED

MAR 09 2015

NMOCD

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

Analysis No: EN150058
Cust No: 25400-11455

Well/Lease Information

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

30-045-31211

Source: CASING
Pressure: 78 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 03/13/2015
Sampled By: LEROY MARTINEZ
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.877	0.0970	0.00	0.0085
CO2	0.220	0.0380	0.00	0.0033
Methane	82.104	13.9640	829.25	0.4548
Ethane	9.258	2.4840	163.84	0.0961
Propane	3.776	1.0440	95.01	0.0575
Iso-Butane	0.594	0.1950	19.32	0.0119
N-Butane	1.199	0.3790	39.11	0.0241
I-Pentane	0.494	0.1810	19.76	0.0123
N-Pentane	0.447	0.1630	17.92	0.0111
Hexane Plus	1.031	0.4610	54.34	0.0341
Total	100.000	19.0060	1238.56	0.7138

* @ 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): 1245.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1224.1

REAL SPECIFIC GRAVITY: 0.716

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

DRY BTU @ 14.650: 1239.0

DRY BTU @ 14.696: 1242.9

DRY BTU @ 14.730: 1245.8

DRY BTU @ 15.025: 1270.7

CYLINDER #: 12

CYLINDER PRESSURE: 78 PSIG

DATE RUN: 2/20/15 10:40 AM

ANALYSIS RUN BY: JENNIFER DEAN



RECEIVED

MAR 09 2015

NMOCD
DIST

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

Analysis No: EN150057
Cust No: 25400-11450

Well/Lease Information

Customer Name: ENERVEST
Well Name: DUKE #1C; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: BRADENHEAD
Pressure: 10 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 02/13/2015
Sampled By: LEROY MARTINEZ
Foreman/Engr.:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.603	0.0670	0.00	0.0058
CO2	0.009	0.0020	0.00	0.0001
Methane	90.107	15.3130	910.08	0.4991
Ethane	5.024	1.3470	88.91	0.0522
Propane	2.498	0.6900	62.85	0.0380
Iso-Butane	0.547	0.1790	17.79	0.0110
N-Butane	0.568	0.1800	18.53	0.0114
I-Pentane	0.224	0.0820	8.96	0.0056
N-Pentane	0.128	0.0470	5.13	0.0032
Hexane Plus	0.292	0.1310	15.39	0.0097
Total	100.000	18.0380	1127.65	0.6361

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1133.3

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1113.6

REAL SPECIFIC GRAVITY: 0.6375

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

DRY BTU @ 14.650: 1127.1

DRY BTU @ 14.696: 1130.7

DRY BTU @ 14.730: 1133.3

DRY BTU @ 15.025: 1156.0

CYLINDER #: 105

CYLINDER PRESSURE: PSIG

DATE RUN: 2/20/15 10:39 AM

ANALYSIS RUN BY: PATRICIA KING