



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 9/26/14 Operator Enervest API #30-0 45-31062

Property Name Duke Well No. 1B Location: Unit 0 Section 13 Township 31N Range 13W

Well Status (Shut-In or Producing) Initial PSI: Tubing 98 Intermediate 20 Casing 92 Bradenhead 58

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE				
	BH	Bradenhead Int	Csg	INTERM Int	Csg
5 min	0	20	92	0	92
10 min	0	20	92	0	92
15 min	0	20	92	0	92
20 min					
25 min					
30 min					

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow		
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 0

INTERMEDIATE 0

REMARKS:

Bradenhead lets out a big puff then nothing.

~~Bradenhead~~ Intermediate blows down in 4 min.

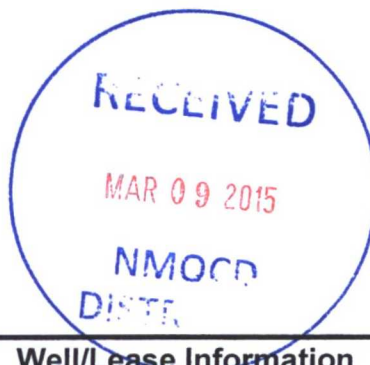
By

Jerry Schmit
Operator
(Position)

Witness

E-mail address





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

Analysis No: EN150056
Cust No: 25400-11445

Well/Lease Information

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

30-04531062

Source: CASING
Pressure: 69 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	0.359	0.0400	0.00	0.0035
CO2	0.382	0.0650	0.00	0.0058
Methane	79.477	13.5230	802.72	0.4402
Ethane	8.980	2.4100	158.92	0.0932
Propane	5.844	1.6160	147.04	0.0890
Iso-Butane	1.345	0.4420	43.74	0.0270
N-Butane	1.612	0.5100	52.59	0.0323
I-Pentane	0.660	0.2420	26.41	0.0164
N-Pentane	0.506	0.1840	20.28	0.0126
Hexane Plus	0.835	0.3740	44.01	0.0276
Total	100.000	19.4060	1295.71	0.7477

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1303.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1281.1

REAL SPECIFIC GRAVITY: 0.7504

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

DRY BTU @ 14.650: 1296.7

DRY BTU @ 14.696: 1300.8

DRY BTU @ 14.730: 1303.8

DRY BTU @ 15.025: 1329.9

CYLINDER #: 101

CYLINDER PRESSURE: 73 PSIG

DATE RUN: 2/20/15 10:38 AM

ANALYSIS RUN BY: JENNIFER DEAN



RECEIVED

MAR 09 2015

NMOCD
DIST.2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: EN150055
Cust No: 25400-11440

Well/Lease Information

Customer Name: ENERVEST
Well Name: DUKE #1B; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:Source: BRADENHEAD
Pressure: 55 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	0.233	0.0260	0.00	0.0023
CO2	0.045	0.0080	0.00	0.0007
Methane	92.994	15.8050	939.24	0.5151
Ethane	3.043	0.8160	53.85	0.0316
Propane	0.502	0.1390	12.63	0.0076
Iso-Butane	0.349	0.1140	11.35	0.0070
N-Butane	0.787	0.2490	25.67	0.0158
I-Pentane	0.597	0.2190	23.89	0.0149
N-Pentane	0.558	0.2030	22.37	0.0139
Hexane Plus	0.892	0.3990	47.02	0.0295
Total	100.000	17.9780	1136.02	0.6384

* @ 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): 1141.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1121.9

REAL SPECIFIC GRAVITY: 0.6399

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

DRY BTU @ 14.650: 1135.6

DRY BTU @ 14.696: 1139.2

DRY BTU @ 14.730: 1141.8

DRY BTU @ 15.025: 1164.7

CYLINDER #: 102

CYLINDER PRESSURE: PSIG

DATE RUN: 2/20/15 10:37 AM

ANALYSIS RUN BY: PATRICIA KING