



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONS. DIV DIST. 3

DEC 06 2017

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>

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 12-1-17 Operator: Enervest Operating, LLC API #30-039-06224

Property Name: Jicarilla Cont. 155 Well No. 18 Location: Unit: P Section: 31 Township: 26N Range: 5W

Well Status (Shut-In or Producing) Initial PSI: Tubing 162 Intermediate NA Casing 4 Bradenhead 4

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE					FLOW CHARACTERISTICS	
	Bradenhead			INTERM		BRADENHEAD	INTERMEDIATE
	BH	Int	Csg	Int	Csg		
TIME							
5 min	0		2			Steady Flow ☒	
10 min	0		1			Surges	
15 min	0		1			Down to Nothing	
20 min	0		1			Nothing	
25 min	0		1			Gas ☒	
30 min	0		1			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 2.5 INTERMEDIATE _____

REMARKS:

Medium ~~Blow~~ Blow after 5 min, Mild Blow Thru $\frac{1}{4}$ " after 10 min, Mild Blow after 15 min,
Mild Blow after 20 min, Mild Blow after 25 min, Mild Blow after 30 min Thru $\frac{1}{4}$ "

By Roy Greene

Witness

Monica Kuehling
Affected

Foreman
(Position)

E-mail address rgreene@enervest.net



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

Analysis No: EN170244
Cust No: 25400-11845

Well/Lease Information

Customer Name: ENERVEST
Well Name: JICARILLA CONT. 155 #18; CSG
County/State: RIO ARRIBA NM
Location: 31-26N-05W
Field:
Formation:
Cust. Stn. No.: API 300390622400

Source: CASING
Well Flowing: Y
Pressure: 4 PSIG
Flow Temp: DEG. F
Ambient Temp: 44 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/22/2017
Sample Time: 10.10 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4074	0.1771	0.0450	0.00	0.0039
CO2	0.3062	0.1331	0.0520	0.00	0.0047
Methane	86.1928	37.4654	14.6540	870.55	0.4774
Ethane	7.1470	3.1066	1.9170	126.48	0.0742
Propane	3.3966	1.4764	0.9380	85.46	0.0517
Iso-Butane	0.4790	0.2082	0.1570	15.58	0.0096
N-Butane	0.8793	0.3822	0.2780	28.69	0.0176
I-Pentane	0.2643	0.1149	0.0970	10.57	0.0066
N-Pentane	0.2163	0.0940	0.0790	8.67	0.0054
Hexane Plus	0.7111	0.3091	0.3180	37.48	0.0235
Total	100.0000	43.4670	18.5350	1183.48	0.6747

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1186.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1189.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1169.2
DRY BTU @ 15.025: 1213.7
REAL SPECIFIC GRAVITY: 0.6765

CYLINDER #: 102
CYLINDER PRESSURE: PSIG
DATE RUN: 11/27/17 10:10 AM
ANALYSIS RUN BY: RICHARD WILSON

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 11/28/2017

GC Method: C6+ Gas



ENERVEST
WELL ANALYSIS COMPARISON

Lease:	JICARILLA CONT. 155 #18; CSG	CASING	11/28/2017
Stn. No.:	API 300390622400		25400-11845
Mtr. No.:			

Smpl Date:	11/22/2017
Test Date:	11/27/2017
Run No:	EN170244

Nitrogen:	0.4074
CO2:	0.3062
Methane:	86.1928
Ethane:	7.1470
Propane:	3.3966
I-Butane:	0.4790
N-Butane:	0.8793
I-Pentane:	0.2643
N-Pentane:	0.2163
Hexane+:	0.7111

BTU:	1189.9
GPM:	18.5350
SPG:	0.6765



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

Analysis No: EN170243
Cust No: 25400-11840

Well/Lease Information

Customer Name: ENERVEST
Well Name: JICARILLA CONT. 155 #18; BHD
County/State: RIO ARRIBA NM
Location: 31-26N-05W
Field:
Formation:
Cust. Stn. No.: API 300390622400

Source: BRADENHEAD
Well Flowing: Y
Pressure: 3 PSIG
Flow Temp: DEG. F
Ambient Temp: 44 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/22/2017
Sample Time: 10.20 AM
Sampled By: LEROY MARTINEZ
Sampled by (CO): ENERVEST

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3823	0.1501	0.0420	0.00	0.0037
CO2	0.2162	0.0849	0.0370	0.00	0.0033
Methane	86.7941	34.0784	14.7550	876.62	0.4808
Ethane	7.0623	2.7729	1.8940	124.98	0.0733
Propane	3.2870	1.2906	0.9080	82.70	0.0500
Iso-Butane	0.4577	0.1797	0.1500	14.88	0.0092
N-Butane	0.8234	0.3233	0.2600	26.86	0.0165
I-Pentane	0.2432	0.0955	0.0890	9.73	0.0061
N-Pentane	0.1933	0.0759	0.0700	7.75	0.0048
Hexane Plus	0.5405	0.2122	0.2420	28.49	0.0179
Total	100.0000	39.2635	18.4470	1172.02	0.6656

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1174.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1178.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1157.8
DRY BTU @ 15.025: 1201.9
REAL SPECIFIC GRAVITY: 0.6673

CYLINDER #: 104
CYLINDER PRESSURE: PSIG
DATE RUN: 11/27/17 10:20 AM
ANALYSIS RUN BY: RICHARD WILSON

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 11/28/2017

GC Method: C6+ Gas



ENERVEST
WELL ANALYSIS COMPARISON

Lease: JICARILLA CONT. 155 #18; BHD
Stn. No.: API 300390622400
Mtr. No.:

BRADENHEAD

11/28/2017
25400-11840

Smpl Date: 11/22/2017
Test Date: 11/27/2017
Run No: EN170243
Nitrogen: 0.3823
CO2: 0.2162
Methane: 86.7941
Ethane: 7.0623
Propane: 3.2870
I-Butane: 0.4577
N-Butane: 0.8234
I-Pentane: 0.2432
N-Pentane: 0.1933
Hexane+: 0.5405
BTU: 1178.3
GPM: 18.4470
SPG: 0.6673