



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 III/3district.htm](http://emnr.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 45-31069

Property Name Southern Union Well No. 1C Location: Unit 10 Section 19 Township 31N Range 12W

Well Status (Shut-In or Producing) Initial PSI: Tubing 120 Intermediate 150 Casing 130 Bradenhead 60

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0	150	131	0	140
10 min	0	150	132	0	140
15 min	0	150	133	0	140
20 min				0	140
25 min				0	140
30 min				0	140

	FLOW CHARACTERISTICS	
	BRADENHEAD	INTERMEDIATE
Steady Flow	X	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

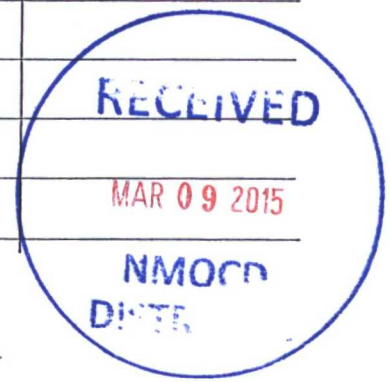
REMARKS: Braden lets out a good puff then nothing audible but
can see vapors

Int, blows pretty good for 4min. then slows to med. blow

By Jerry Bohm
Operator
(Position)

Witness _____

E-mail address _____





RECEIVED

MAR 09 2015

NMOCD
DIST2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: EN150064
Cust No: 25400-11485

Well/Lease Information

Customer Name: ENERVEST
Well Name: SOUTHERN UNION #1C; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:Source: CASING
Pressure: 88 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	0.347	0.0380	0.00	0.0034
CO2	0.483	0.0830	0.00	0.0073
Methane	80.826	13.7470	816.34	0.4477
Ethane	10.506	2.8190	185.92	0.1091
Propane	4.407	1.2180	110.88	0.0671
Iso-Butane	0.730	0.2400	23.74	0.0146
N-Butane	1.260	0.3990	41.10	0.0253
I-Pentane	0.478	0.1750	19.12	0.0119
N-Pentane	0.381	0.1390	15.27	0.0095
Hexane Plus	0.582	0.2600	30.68	0.0193
Total	100.000	19.1180	1243.07	0.7152

* @ 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): 1250.3

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1228.5

REAL SPECIFIC GRAVITY: 0.7174

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

DRY BTU @ 14.650: 1243.5

CYLINDER #: 002

DRY BTU @ 14.696: 1247.4

CYLINDER PRESSURE: 88 PSIG

DRY BTU @ 14.730: 1250.3

DATE RUN: 2/24/15 10:47 AM

DRY BTU @ 15.025: 1275.3

ANALYSIS RUN BY: F



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MAR 09 2015

NMOCD

DATE

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

Analysis No: EN150063
Cust No: 25400-11480

Well/Lease Information

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

Source: BRADENHEAD
Pressure: 40 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	0.756	0.0830	0.00	0.0073
CO2	0.004	0.0010	0.00	0.0001
Methane	79.356	13.4980	801.50	0.4396
Ethane	10.070	2.7020	178.21	0.1045
Propane	6.387	1.7650	160.70	0.0972
Iso-Butane	1.186	0.3890	38.57	0.0238
N-Butane	1.306	0.4130	42.61	0.0262
I-Pentane	0.370	0.1360	14.80	0.0092
N-Pentane	0.258	0.0940	10.34	0.0064
Hexane Plus	0.307	0.1370	16.18	0.0102
Total	100.000	19.2180	1262.91	0.7245

* @ 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): 1270.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.3
REAL SPECIFIC GRAVITY: 0.7269

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

DRY BTU @ 14.650: 1263.5
DRY BTU @ 14.696: 1267.5
DRY BTU @ 14.730: 1270.4
DRY BTU @ 15.025: 1295.8

CYLINDER #: 044A
CYLINDER PRESSURE: 38 PSIG
DATE RUN: 2/24/15 10:46 AM
ANALYSIS RUN BY: PATRICIA KING