



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 III3district.htm](http://emnr.state.nm.us/ocd/District%20III3district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test 9/23/14 Operator Enervest API #30-0 45-10638

Property Name Southern Union Well No. 2 Location: Unit A Section 19 Township 31N Range 12W

Well Status (Shut-In or Producing) Initial PSI: Tubing 148 Intermediate NA Casing 148 Bradenhead 20

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE				
	Bradenhead			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0		148		
10 min	0		148		
15 min	0		148		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS
BRADENHEAD INTERMEDIATE

Steady Flow

Surges

Down to Nothing

Nothing

Gas

Gas & Water

Water

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NMOC
DIST

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 NA

REMARKS:

Slight puff

By Jaime Schmitt
Operator
(Position)

Witness _____

E-mail address _____

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NMOCD

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

Analysis No: EN150066
Cust No: 25400-11495

Well/Lease Information

Customer Name: ENERVEST
Well Name: SOUTHERN UNION #2; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: 62 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 02/12/2015
Sampled By: LEROY MARTINEZ
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.354	0.0390	0.00	0.0034
CO2	3.269	0.5600	0.00	0.0497
Methane	75.071	12.7800	758.21	0.4158
Ethane	10.039	2.6960	177.66	0.1042
Propane	4.985	1.3790	125.43	0.0759
Iso-Butane	1.016	0.3340	33.04	0.0204
N-Butane	1.939	0.6140	63.26	0.0389
I-Pentane	0.954	0.3500	38.17	0.0238
N-Pentane	0.826	0.3010	33.11	0.0206
Hexane Plus	1.547	0.6930	81.54	0.0512
Total	100.000	19.7460	1310.43	0.8039

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1319.3

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1296.3

REAL SPECIFIC GRAVITY: 0.8071

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

DRY BTU @ 14.650: 1312.1

DRY BTU @ 14.696: 1316.3

DRY BTU @ 14.730: 1319.3

DRY BTU @ 15.025: 1345.7

CYLINDER #: 2A

CYLINDER PRESSURE: 63 PSIG

DATE RUN: 2/24/15 10:55 AM

ANALYSIS RUN BY: DAWN BLASSINGAME



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NMOCD
DISTR2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: EN150065
Cust No: 25400-11490

Well/Lease Information

Customer Name: ENERVEST
Well Name: SOUTHERN UNION #2; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:Source: BRADENHEAD
Pressure: 5 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 02/12/2015
Sampled By: LEROY MARTINEZ
Foreman/Engr.:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.344	0.0380	0.00	0.0033
CO2	2.748	0.4710	0.00	0.0418
Methane	77.440	13.1800	782.14	0.4289
Ethane	9.604	2.5790	169.96	0.0997
Propane	4.431	1.2260	111.49	0.0675
Iso-Butane	0.833	0.2740	27.09	0.0167
N-Butane	1.534	0.4860	50.04	0.0308
I-Pentane	0.764	0.2810	30.57	0.0190
N-Pentane	0.670	0.2440	26.86	0.0167
Hexane Plus	1.632	0.7310	86.02	0.0540
Total	100.000	19.5100	1284.18	0.7784

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0042

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1292.4

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1269.9

REAL SPECIFIC GRAVITY: 0.7813

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

DRY BTU @ 14.650: 1285.4

DRY BTU @ 14.696: 1289.4

DRY BTU @ 14.730: 1292.4

DRY BTU @ 15.025: 1318.3

CYLINDER #: 6

CYLINDER PRESSURE: PSIG

DATE RUN: 2/24/15 10:48 AM

ANALYSIS RUN BY: PATRICIA KING