



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>

OIL CONS. DIV DIST. 3

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

APR 17 2014

Date of Test 3-19-14 Operator Energizer Resources API #30-045-11434

Property Name San Juan 32-5 Well No. 18 Location: Unit B Section 16 Township 32N Range 6W

Well Status (Shut-In or Producing) Initial PSI: Tubing 45 Intermediate 0 Casing 47 Bradenhead 30 psi
After 8 purges bradenhead at 28.6 psi

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing	PRESSURE			INTERM	
	BH	Int	Csg	Int	Csg
TIME					
5 min	0	0	52	0	53
10 min	0	0	52	0	54
15 min	0	0	53	0	54
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
Steady Flow	
Surges	
Down to Nothing	✓
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 _____

REMARKS: Plunger Lift - Pressures are during shut in
6 seconds to 0 psi on Bradenhead. no water
Casing pressures building due to shut in (Plunger lift system)

By Jonathan Hardy
Senior Lease Operator
(Position)

Witness Steve Miller

E-mail address _____



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

Analysis No: EN140179
Cust No: 73500-14420

Well/Lease Information

Customer Name: ENERGEN RESOURCES CORP.
Well Name: SAN JUAN 32-5 UNIT #18 CSG
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Str. No.: 71721-01

Source: CASING
Pressure: 53 PSIA
Sample Temp: 50 DEG. F
Well Flowing: Y
Date Sampled: 03/19/2014
Sampled By: JON HARDY
Foreman/Engr.: SAM MOHLER

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.069	0.0080	0.00	0.0007
CO2	1.950	0.3330	0.00	0.0296
Methane	94.398	16.0360	953.42	0.5229
Ethane	2.913	0.7810	51.55	0.0302
Propane	0.342	0.0940	8.61	0.0052
Iso-Butane	0.050	0.0160	1.63	0.0010
N-Butane	0.032	0.0100	1.04	0.0006
I-Pentane	0.012	0.0040	0.48	0.0003
N-Pentane	0.005	0.0020	0.20	0.0001
Hexane Plus	0.229	0.1020	12.07	0.0076
Total	100.000	17.3860	1029.00	0.5983

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023

BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1033.8

BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1015.8

REAL SPECIFIC GRAVITY: 0.5994

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

DRY BTU @ 14.650: 1028.2

DRY BTU @ 14.696: 1031.4

DRY BTU @ 14.730: 1033.8

DRY BTU @ 15.025: 1054.5

CYLINDER #: 4225

CYLINDER PRESSURE: 58 PSIG

DATE RUN: 3/31/14 12:00 AM

ANALYSIS RUN BY: LOGAN CHENEY



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

Analysis No: EN140181
Cust No: 73500-14425

Well/Lease Information

Customer Name: ENERGEN RESOURCES CORP.
Well Name: SAN JUAN 32-5 UNIT #18 TBG
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.: 71721-01

Source: TUBING
Pressure: 37 PSIG
Sample Temp: 50 DEG. F
Well Flowing: Y
Date Sampled: 03/14/2014
Sampled By: JON HARDY
Foreman/Engr.: SAM MOHLER

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.071	0.0080	0.00	0.0007
CO2	2.388	0.4080	0.00	0.0363
Methane	94.699	16.0860	956.46	0.5245
Ethane	2.413	0.6470	42.70	0.0251
Propane	0.279	0.0770	7.02	0.0042
Iso-Butane	0.038	0.0120	1.24	0.0008
N-Butane	0.026	0.0080	0.85	0.0005
I-Pentane	0.009	0.0030	0.36	0.0002
N-Pentane	0.004	0.0010	0.16	0.0001
Hexane Plus	0.073	0.0330	3.85	0.0024
Total	100.000	17.2830	1012.63	0.5948

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1017.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 999.5
REAL SPECIFIC GRAVITY: 0.5959

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

DRY BTU @ 14.650: 1011.7
DRY BTU @ 14.696: 1014.9
DRY BTU @ 14.730: 1017.2
DRY BTU @ 15.025: 1037.6

CYLINDER #: 7018
CYLINDER PRESSURE: 39 PSIG
DATE RUN: 3/31/14 12:00 AM
ANALYSIS RUN BY: LOGAN CHENEY



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

Analysis No: EN140180
Cust No: 73500-14415

Well/Lease Information

Customer Name: ENERGEN RESOURCES CORP.
Well Name: SAN JUAN 32-5 UNIT #18 BHD
County/State: SAN JUAN
Location:
Field:
Formation: MESA VERDE
Cust. Stn. No.: 71721-01

Source: BRADENHEAD
Pressure: 29 PSIA
Sample Temp: 50 DEG. F
Well Flowing: Y
Date Sampled: 03/19/2014
Sampled By: JON HARDY
Foreman/Engr.: SAM MOHLER

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.368	0.0410	0.00	0.0036
CO2	0.126	0.0220	0.00	0.0019
Methane	92.535	15.7210	934.60	0.5126
Ethane	5.618	1.5060	99.42	0.0583
Propane	0.770	0.2130	19.37	0.0117
Iso-Butane	0.196	0.0640	6.37	0.0039
N-Butane	0.141	0.0450	4.60	0.0028
I-Pentane	0.081	0.0300	3.24	0.0020
N-Pentane	0.038	0.0140	1.52	0.0009
Hexane Plus	0.127	0.0570	6.69	0.0042
Total	100.000	17.7130	1075.83	0.6020

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1080.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1062.1
REAL SPECIFIC GRAVITY: 0.6032

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

DRY BTU @ 14.650: 1075.0
DRY BTU @ 14.696: 1078.4
DRY BTU @ 14.730: 1080.9
DRY BTU @ 15.025: 1102.5

CYLINDER #: 7031
CYLINDER PRESSURE: 33 PSIG
DATE RUN: 3/31/14 12:00 AM
ANALYSIS RUN BY: LOGAN CHENEY