



NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NM 87410
(505) 334-6178 FAX: (505) 334-6170
<http://www.emnrd.state.nm.us/ocd/>

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test 4-19-22 Operator San Juan Resources API # 30-043-20671

Property Name Atencio #001 Location: Unit E Section 32 Township 23N Range 01W
(Well Name and Number)

Pressure (Shut-in or Producing) Tubing 27 Intermediate NA Casing 40 Bradenhead 38

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Time	Bradenhead			Intermediate			Bradenhead	Intermediate
	BH Blowdown	Casing Monitor	Intermediate Monitor	Intermediate Blowdown	Casing Monitor		Flowed	Flowed
5 minutes	<u>4</u>	<u>40</u>				Steady Flow	<u>X</u>	
10 minutes	<u>4</u>	<u>40</u>				Surges		
15 minutes	<u>4</u>	<u>40</u>				Down to Nothing		
20 minutes	<u>4</u>	<u>40</u>				No Flow		
25 minutes	<u>4</u>	<u>40</u>				Gas	<u>X</u>	
30 minutes	<u>4</u>	<u>40</u>				Gas and Water		
5 minute SI	<u>16</u>	<u>40</u>				Water		

If bradenhead flowed water, check all of the descriptions that apply below:

Clear Fresh Salty Sulfur Black

5 Minute Shut-in Bradenhead 16 Intermediate NA

REMARKS:

steady flow after 30 min. Took samples
bradenhead - #6321
Tubing - #6227
Casing - #4039 (B.H. blowing through 1/4" needle valve)

By Karen Schmitz Witness
Operator
(Position)

NMOCD Test Area: 1



Well Name: ATENCIO #1; BHD
 API #: 30-043-20671
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SA20220001
 Cust No: 70300-10060

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
 Well Name: ATENCIO #1; BHD
 County/State: SANDOVAL NM
 Location:
 Lease/PA/CA:
 Formation: PC
 Cust. Stn. No.: 30-043-20671

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 60 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 35 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/22/2022
 Sample Time: 10.30 AM
 Sampled By: LOREN SCHMITZ
 Sampled by (CO): WALSH

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7901	0.7657	0.0870	0.00	0.0076
CO2	0.0549	0.0532	0.0090	0.00	0.0008
Methane	83.5872	81.0027	14.2140	844.23	0.4630
Ethane	7.7136	7.4751	2.0690	136.51	0.0801
Propane	4.4922	4.3533	1.2410	113.03	0.0684
Iso-Butane	0.9641	0.9343	0.3160	31.35	0.0193
N-Butane	1.1382	1.1030	0.3600	37.13	0.0228
I-Pentane	0.4295	0.4162	0.1580	17.18	0.0107
N-Pentane	0.2849	0.2761	0.1040	11.42	0.0071
Hexane Plus	0.5453	0.5284	0.2440	28.74	0.0180
Total	100.0000	96.9080	18.8020	1219.60	0.6980

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1222.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1226.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1205.2
 DRY BTU @ 15.025: 1251.1
 REAL SPECIFIC GRAVITY: 0.7

CYLINDER #: 6231
 CYLINDER PRESSURE: 59 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 02:11:46 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: 05/20/2022

GC Method: C6+ Gas



SAN JUAN RESOURCES
WELL ANALYSIS COMPARISON

Lease: ATENCIO #1; BHD
 Stn. No.: 30-043-20671
 Mtr. No.:

BRADENHEAD
 PC

05/20/2022
 70300-10060

Smpl Date:	04/22/2022	05/24/2019	04/07/2016
Test Date:	05/03/2022	06/04/2019	04/07/2016
Run No:	SA20220001	SA190004	SA160001
Nitrogen:	0.7901	0.7975	0.8110
CO2:	0.0549	0.0239	0.0510
Methane:	83.5872	83.5751	84.5043
Ethane:	7.7136	7.7266	7.4149
Propane:	4.4922	4.4960	4.1719
I-Butane:	0.9641	0.9555	0.8660
N-Butane:	1.1382	1.1265	0.9810
I-Pentane:	0.4295	0.4188	0.3450
N-Pentane:	0.2849	0.2764	0.2230
Hexane+:	0.5453	0.6037	0.6320
BTU:	1226.5	1228.3	1212.6
GPM:	18.8020	18.8130	18.6930
SPG:	0.7000	0.7008	0.6913



Well Name: ATENCIO #1; CSG
 API #: 30-043-20671
 Source: CASING
 Sample Type: GAS
 Analysis No: SA20220002
 Cust No: 70300-10065

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
 Well Name: ATENCIO #1; CSG
 County/State: SANDOVAL NM
 Location:
 Lease/PA/CA:
 Formation: PC
 Cust. Stn. No.: 30-043-20671

Source: CASING
 Well Flowing: Y
 Pressure: 60 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 35 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/22/2022
 Sample Time: 11.00 AM
 Sampled By: LOREN SCHMITZ
 Sampled by (CO): WALSH

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7900	0.7655	0.0870	0.00	0.0076
CO2	0.0780	0.0756	0.0130	0.00	0.0012
Methane	83.5038	80.9100	14.2000	843.39	0.4625
Ethane	7.7116	7.4721	2.0690	136.47	0.0801
Propane	4.4905	4.3510	1.2410	112.99	0.0684
Iso-Butane	0.9646	0.9346	0.3170	31.37	0.0194
N-Butane	1.1418	1.1063	0.3610	37.25	0.0229
I-Pentane	0.4338	0.4203	0.1590	17.36	0.0108
N-Pentane	0.2908	0.2818	0.1060	11.66	0.0072
Hexane Plus	0.5951	0.5766	0.2660	31.37	0.0197
Total	100.0000	96.8938	18.8190	1221.84	0.6998

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1224.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1228.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1207.3
 DRY BTU @ 15.025: 1253.3
 REAL SPECIFIC GRAVITY: 0.7018

CYLINDER #: 4039
 CYLINDER PRESSURE: 57 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 01:56:38 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: 05/20/2022

GC Method: C6+ Gas



SAN JUAN RESOURCES
WELL ANALYSIS COMPARISON

Lease:	ATENCIO #1; CSG	CASING	05/20/2022
Stn. No.:	30-043-20671	PC	70300-10065
Mtr. No.:			

Smpl Date:	04/22/2022	05/24/2019	04/07/2016
Test Date:	05/03/2022	06/04/2019	04/07/2016
Run No:	SA20220002	SA190005	SA160002
Nitrogen:	0.7900	0.8056	0.8160
CO2:	0.0780	0.0356	0.0330
Methane:	83.5038	83.3926	84.1040
Ethane:	7.7116	7.7029	7.5360
Propane:	4.4905	4.4864	4.2390
I-Butane:	0.9646	0.9546	0.8880
N-Butane:	1.1418	1.1272	1.0060
I-Pentane:	0.4338	0.4207	0.3620
N-Pentane:	0.2908	0.2773	0.2360
Hexane+:	0.5951	0.7971	0.7800
BTU:	1228.7	1236.3	1223.1
GPM:	18.8190	18.8650	18.7680
SPG:	0.7018	0.7062	0.6978



Well Name: ATENCIO #1; TBG
 API #: 30-043-20671
 Source: TUBING
 Sample Type: GAS
 Analysis No: SA20220003
 Cust No: 70300-10070

Well/Lease Information

Customer Name: SAN JUAN RESOURCES
 Well Name: ATENCIO #1; TBG
 County/State: SANDOVAL NM
 Location:
 Lease/PA/CA:
 Formation: PC
 Cust. Str. No.: 30-043-20671

Source: TUBING
 Well Flowing: Y
 Pressure: 54 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 35 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/22/2022
 Sample Time: 10.40 AM
 Sampled By: LOREN SCHMITZ
 Sampled by (CO): WALSH

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7876	0.7622	0.0870	0.00	0.0076
CO2	0.0861	0.0833	0.0150	0.00	0.0013
Methane	83.5336	80.8389	14.2050	843.69	0.4627
Ethane	7.7236	7.4744	2.0720	136.68	0.0802
Propane	4.4980	4.3529	1.2430	113.17	0.0685
Iso-Butane	0.9631	0.9320	0.3160	31.32	0.0193
N-Butane	1.1366	1.0999	0.3590	37.08	0.0228
I-Pentane	0.4263	0.4125	0.1560	17.06	0.0106
N-Pentane	0.2822	0.2731	0.1030	11.31	0.0070
Hexane Plus	0.5629	0.5447	0.2520	29.67	0.0186
Total	100.0000	96.7739	18.8080	1219.99	0.6987

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0033
 BTU/CU.FT IDEAL: 1222.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1226.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1205.6
 DRY BTU @ 15.025: 1251.5
 REAL SPECIFIC GRAVITY: 0.7007

CYLINDER #: 6227
 CYLINDER PRESSURE: 50 PSIG
 ANALYSIS DATE: 05/03/2022
 ANALYSIS TIME: 02:03:37 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: 05/20/2022

GC Method: C6+ Gas



SAN JUAN RESOURCES
WELL ANALYSIS COMPARISON

Lease: ATENCIO #1; TBG
 Stn. No.: 30-043-20671
 Mtr. No.:

TUBING
 PC

05/20/2022
 70300-10070

Smpl Date:	04/22/2022	05/24/2019	04/07/2016
Test Date:	05/03/2022	06/04/2019	04/07/2016
Run No:	SA20220003	SA190006	SA160003
Nitrogen:	0.7876	0.8569	0.7930
CO2:	0.0861	0.0296	0.0500
Methane:	83.5336	83.5784	84.0458
Ethane:	7.7236	7.7086	7.5201
Propane:	4.4980	4.4642	4.3030
I-Butane:	0.9631	0.9445	0.9280
N-Butane:	1.1366	1.1173	1.0790
I-Pentane:	0.4263	0.4120	0.4040
N-Pentane:	0.2822	0.2732	0.2680
Hexane+:	0.5629	0.6153	0.6090
BTU:	1226.9	1226.8	1221.4
GPM:	18.8080	18.8020	18.7580
SPG:	0.7007	0.7005	0.6967

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 109104

COMMENTS

Operator: SAN JUAN RESOURCES, INC. 1499 Blake St, #10C Denver, CO 80202	OGRID: 20208
	Action Number: 109104
	Action Type: [UF-BHT] Bradenhead Test (BRADENHEAD TEST)

COMMENTS

Created By	Comment	Comment Date
tvermersch	Accepted for record.	1/30/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 109104

CONDITIONS

Operator: SAN JUAN RESOURCES, INC. 1499 Blake St, #10C Denver, CO 80202	OGRID: 20208
	Action Number: 109104
	Action Type: [UF-BHT] Bradenhead Test (BRADENHEAD TEST)

CONDITIONS

Created By	Condition	Condition Date
tvermersch	None	1/30/2023