



NMOC D

JUL 18 2018

DISTRICT III

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

Analysis No: RB180001
Cust No: 68050-10000

Well/Lease Information

Customer Name: RELIABLE PRODUCTION
Well Name: SANGRE DE CRISTO #1; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: 02922-01

NMOC D

JUL 18 2018

DISTRICT III

Source: BRADENHEAD
Well Flowing: Y
Pressure: 36 PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 06/15/2018
Sample Time: 10.00 AM
Sampled By: ADRIAN
Sampled by (CO): RELIABLE PRODUCTION

Heat Trace:
Remarks:

API 30-045-09055

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2269	0.2274	0.0250	0.00	0.0022
CO2	0.2567	0.2573	0.0440	0.00	0.0039
Methane	86.7008	86.9089	14.7400	875.68	0.4802
Ethane	7.3105	7.3280	1.9610	129.37	0.0759
Propane	3.0278	3.0351	0.8370	76.18	0.0461
Iso-Butane	0.5385	0.5398	0.1770	17.51	0.0108
N-Butane	0.8247	0.8267	0.2610	26.90	0.0166
I-Pentane	0.2537	0.2543	0.0930	10.15	0.0063
N-Pentane	0.1727	0.1731	0.0630	6.92	0.0043
Hexane Plus	0.6877	0.6894	0.3080	36.25	0.0228
Total	100.0000	100.2400	18.5090	1178.97	0.6691

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1181.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1185.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1164.8
DRY BTU @ 15.025: 1209.1
REAL SPECIFIC GRAVITY: 0.6709

CYLINDER #: 4184
CYLINDER PRESSURE: 34 PSIG
ANALYSIS DATE: 06/19/2018
ANALYSIS TIME: 10:24:37 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: 06/19/2018

GC Method: C6+ Gas

4



RELIABLE PRODUCTION
WELL ANALYSIS COMPARISON

Lease: SANGRE DE CRISTO #1; BHD
Stn. No.: 02922-01
Mtr. No.:

BRADENHEAD

06/19/2018
68050-10000

Smpl Date: 06/15/2018
Test Date: 06/19/2018
Run No: RB180001

Nitrogen: 0.2269
CO2: 0.2567
Methane: 86.7008
Ethane: 7.3105
Propane: 3.0278
I-Butane: 0.5385
N-Butane: 0.8247
I-Pentane: 0.2537
N-Pentane: 0.1727
Hexane+: 0.6877

BTU: 1185.4
GPM: 18.5090
SPG: 0.6709



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

Analysis No: RB180002
Cust No: 68050-10005

Well/Lease Information

Customer Name: RELIABLE PRODUCTION
Well Name: SANGRE DE CRISTO #1; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.: 02922-01

Source: CASING
Well Flowing: Y
Pressure: 84 PSIG
Flow Temp: 60 DEG. F
Ambient Temp: DEG. F
Flow Rate: 7 MCF/D
Sample Method:
Sample Date: 06/15/2018
Sample Time: 9.50 AM
Sampled By: ADRIAN
Sampled by (CO): RELIABLE PRODUCTION

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2131	0.2104	0.0240	0.00	0.0021
CO2	0.2029	0.2003	0.0350	0.00	0.0031
Methane	85.3057	84.2166	14.5040	861.59	0.4725
Ethane	7.7894	7.6899	2.0890	137.85	0.0809
Propane	3.5735	3.5279	0.9870	89.91	0.0544
Iso-Butane	0.6547	0.6463	0.2150	21.29	0.0131
N-Butane	1.0018	0.9890	0.3170	32.68	0.0201
I-Pentane	0.3509	0.3464	0.1290	14.04	0.0087
N-Pentane	0.2610	0.2577	0.0950	10.46	0.0065
Hexane Plus	0.6470	0.6387	0.2890	34.10	0.0214
Total	100.0000	98.7232	18.6840	1201.93	0.6828

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
BTU/CU.FT IDEAL: 1204.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1208.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1187.6
DRY BTU @ 15.025: 1232.8
REAL SPECIFIC GRAVITY: 0.6847

CYLINDER #: 5027
CYLINDER PRESSURE: 74 PSIG
ANALYSIS DATE: 06/19/2018
ANALYSIS TIME: 10:24:18 AM
ANALYSIS RUN BY: PATRICIA KING

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: 06/19/2018

GC Method: C6+ Gas



RELIABLE PRODUCTION
WELL ANALYSIS COMPARISON

Lease: SANGRE DE CRISTO #1; CSG
Stn. No.: 02922-01
Mtr. No.:

CASING

06/19/2018
68050-10005

Smpl Date: 06/15/2018
Test Date: 06/19/2018
Run No: RB180002

Nitrogen: 0.2131
CO2: 0.2029
Methane: 85.3057
Ethane: 7.7894
Propane: 3.5735
I-Butane: 0.6547
N-Butane: 1.0018
I-Pentane: 0.3509
N-Pentane: 0.2610
Hexane+: 0.6470

BTU: 1208.6
GPM: 18.6840
SPG: 0.6847