



NMOC
DEC 20 2019
DISTRICT III

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

Analysis No: DR190028
Cust No: 21300-10425

Well/Lease Information

Customer Name: D.J.R.
Well Name: CHACON AMIGOS 4; TBG
County/State: SANDOVAL NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 30-043-20538

Source: TUBING
Well Flowing: Y
Pressure: 118 PSIG
Flow Temp: DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 12/13/2019
Sample Time: 11.00 AM
Sampled By: J. HARTER
Sampled by (CO): COTTONWOOD

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3189	1.3505	0.1460	0.00	0.0128
CO2	0.6342	0.6494	0.1090	0.00	0.0096
Methane	65.2813	66.8431	11.1160	659.34	0.3616
Ethane	19.2665	19.7274	5.1750	340.96	0.2000
Propane	9.4973	9.7245	2.6280	238.96	0.1446
Iso-Butane	0.9889	1.0126	0.3250	32.16	0.0198
N-Butane	1.7749	1.8174	0.5620	57.90	0.0356
I-Pentane	0.3089	0.3163	0.1130	12.36	0.0077
N-Pentane	0.2140	0.2191	0.0780	8.58	0.0053
Hexane Plus	0.7151	0.7322	0.3200	37.69	0.0237
Total	100.0000	102.3925	20.5720	1387.95	0.8208

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0047
BTU/CU.FT IDEAL: 1391.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1397.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1373.4
DRY BTU @ 15.025: 1425.7
REAL SPECIFIC GRAVITY: 0.8243

CYLINDER #: 4227
CYLINDER PRESSURE: 119 PSIG
ANALYSIS DATE: 12/17/2019
ANALYSIS TIME: 10:41:52 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 12/18/2019

GC Method: C6+ Gas



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

Analysis No: DR190027
Cust No: 21300-10420

Well/Lease Information

Customer Name: D.J.R.
Well Name: CHACON AMIGOS 4; CSG
County/State: SANDOVAL NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 30-043-20538

Source: CASING
Well Flowing: Y
Pressure: 158 PSIG
Flow Temp: DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 12/13/2019
Sample Time: 11.05 AM
Sampled By: J. HARTER
Sampled by (CO): COTTONWOOD

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3442	1.3582	0.1490	0.00	0.0130
CO2	0.5453	0.5510	0.0930	0.00	0.0083
Methane	64.5849	65.2576	10.9990	652.31	0.3577
Ethane	18.8229	19.0189	5.0570	333.11	0.1954
Propane	9.9463	10.0499	2.7530	250.26	0.1514
Iso-Butane	1.1974	1.2099	0.3940	38.94	0.0240
N-Butane	2.3348	2.3591	0.7390	76.17	0.0469
I-Pentane	0.5659	0.5718	0.2080	22.64	0.0141
N-Pentane	0.4440	0.4486	0.1620	17.80	0.0111
Hexane Plus	0.2143	0.2165	0.0960	11.30	0.0071
Total	100.0000	101.0415	20.6500	1402.52	0.8290

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0048
BTU/CU.FT IDEAL: 1405.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1412.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1387.9
DRY BTU @ 15.025: 1440.8
REAL SPECIFIC GRAVITY: 0.8327

CYLINDER #: 6200
CYLINDER PRESSURE: 160 PSIG
ANALYSIS DATE: 12/17/2019
ANALYSIS TIME: 10:56:06 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: 12/18/2019

GC Method: C6+ Gas



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

Analysis No: DR190026
Cust No: 21300-10415

Well/Lease Information

Customer Name: D.J.R.
Well Name: CHACON AMIGOS 4; BHD
County/State: SANDOVAL NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 30-043-20538

Source: BRADENHEAD
Well Flowing: Y
Pressure: 34 PSIG
Flow Temp: DEG. F
Ambient Temp: 40 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 12/13/2019
Sample Time: 11.10 AM
Sampled By: J. HARTER
Sampled by (CO): COTTONWOOD

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.3717	1.4021	0.1520	0.00	0.0133
CO2	0.4556	0.4657	0.0780	0.00	0.0069
Methane	64.2729	65.6997	10.9470	649.16	0.3560
Ethane	19.0303	19.4527	5.1130	336.78	0.1976
Propane	9.9754	10.1968	2.7610	250.99	0.1519
Iso-Butane	1.1695	1.1955	0.3840	38.03	0.0235
N-Butane	2.3134	2.3648	0.7330	75.47	0.0464
I-Pentane	0.5574	0.5698	0.2050	22.30	0.0139
N-Pentane	0.4474	0.4573	0.1630	17.93	0.0111
Hexane Plus	0.4064	0.4154	0.1820	21.42	0.0135
Total	100.0000	102.2198	20.7180	1412.09	0.8340

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0049
BTU/CU.FT IDEAL: 1415.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1422.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1397.6
DRY BTU @ 15.025: 1450.8
REAL SPECIFIC GRAVITY: 0.8378

CYLINDER #: 4232
CYLINDER PRESSURE: 33 PSIG
ANALYSIS DATE: 12/17/2019
ANALYSIS TIME: 10:59:20 AM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 12/18/2019

GC Method: C6+ Gas