



OCD Received 10/28/2020

Well Name: RIDENHOUR GC 1M ; TBG

API #: API # 300453119500

Source: TUBING

Sample Type: GAS

Analysis No: SO200218

Cust No: 15950-12450

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: RIDENHOUR GC 1M ; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453119500
98735

Source: TUBING
Well Flowing:
Pressure: 24 PSIG
Flow Temp: DEG. F
Ambient Temp: 85 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/24/2020
Sample Time: 5.44 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace:

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1542	0.1537	0.0170	0.00	0.0015
CO2	1.3136	1.3093	0.2250	0.00	0.0200
Methane	86.9240	86.6366	14.7770	877.93	0.4815
Ethane	6.5803	6.5585	1.7650	116.45	0.0683
Propane	2.5937	2.5851	0.7170	65.26	0.0395
Iso-Butane	0.5478	0.5460	0.1800	17.81	0.0110
N-Butane	0.7217	0.7193	0.2280	23.54	0.0145
I-Pentane	0.2902	0.2892	0.1060	11.61	0.0072
N-Pentane	0.2048	0.2041	0.0740	8.21	0.0051
Hexane Plus	0.6697	0.6675	0.2990	35.30	0.0222
Total	100.0000	99.6693	18.3880	1156.12	0.6707

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1158.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1162.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1142.1
DRY BTU @ 15.025: 1185.6
REAL SPECIFIC GRAVITY: 0.6724

CYLINDER #: 1087
CYLINDER PRESSURE: 18 PSIG
ANALYSIS DATE: 10/05/2020
ANALYSIS TIME: 11:05:45 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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: RIDENHOUR GC 1M ; TBG
Stn. No.: API #
Mtr. No.: 98735

TUBING

10/08/2020
15950-12450

Smpl Date: 09/24/2020
Test Date: 10/05/2020
Run No: SO200218

Nitrogen: 0.1542
CO2: 1.3136
Methane: 86.9240
Ethane: 6.5803
Propane: 2.5937
I-Butane: 0.5478
N-Butane: 0.7217
I-Pentane: 0.2902
N-Pentane: 0.2048
Hexane+: 0.6697

BTU: 1162.3
GPM: 18.3880
SPG: 0.6724



OCD Received 10/28/2020

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

Analysis No: SO200219
Cust No: 15950-12455

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: RIDENHOUR GC 1M ; INT
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300453119500
98735

Source: INTERMEDIATE
Well Flowing:
Pressure: 226 PSIG
Flow Temp: DEG. F
Ambient Temp: 84 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 09/24/2020
Sample Time: 5.50 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7712	0.7587	0.0850	0.00	0.0075
CO2	0.0041	0.0040	0.0010	0.00	0.0001
Methane	90.4195	88.9549	15.3660	913.24	0.5008
Ethane	3.8828	3.8199	1.0410	68.71	0.0403
Propane	3.0643	3.0147	0.8460	77.10	0.0467
Iso-Butane	0.7812	0.7685	0.2560	25.40	0.0157
N-Butane	0.6394	0.6290	0.2020	20.86	0.0128
I-Pentane	0.2131	0.2096	0.0780	8.53	0.0053
N-Pentane	0.0990	0.0974	0.0360	3.97	0.0025
Hexane Plus	0.1254	0.1234	0.0560	6.61	0.0042
Total	100.0000	98.3801	17.9670	1124.42	0.6358

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
BTU/CU.FT IDEAL: 1127.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1130.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1110.4
DRY BTU @ 15.025: 1152.7
REAL SPECIFIC GRAVITY: 0.6372

CYLINDER #: 1060
CYLINDER PRESSURE: 188 PSIG
ANALYSIS DATE: 10/05/2020
ANALYSIS TIME: 10:34:40 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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: RIDENHOUR GC 1M ; INT
Stn. No.: API #
Mtr. No.: 98735

INTERMEDIATE

10/08/2020
15950-12455

Smpl Date: 09/24/2020
Test Date: 10/05/2020
Run No: SO200219

Nitrogen: 0.7712
CO2: 0.0041
Methane: 90.4195
Ethane: 3.8828
Propane: 3.0643
I-Butane: 0.7812
N-Butane: 0.6394
I-Pentane: 0.2131
N-Pentane: 0.0990
Hexane+: 0.1254

BTU: 1130.1
GPM: 17.9670
SPG: 0.6372



OCD Received 10/28/2020

Well Name: RIDENHOUR GC 1M ; CSG

API #: API # 300453119500

Source: CASING

Sample Type: GAS

Analysis No: SO200217

Cust No: 15950-12445

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT

Well Name: RIDENHOUR GC 1M ; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: API # 300453119500
98735

Source: CASING

Well Flowing: Y

Pressure: 50 PSIG

Flow Temp: DEG. F

Ambient Temp: 85 DEG. F

Flow Rate: MCF/D

Sample Method: Purge & Fill

Sample Date: 09/24/2020

Sample Time: 5.41 PM

Sampled By: ERIK SHAW

Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1654	0.1575	0.0180	0.00	0.0016
CO2	0.5382	0.5124	0.0920	0.00	0.0082
Methane	82.6744	78.7149	14.0640	835.01	0.4579
Ethane	8.4030	8.0005	2.2550	148.71	0.0872
Propane	4.0059	3.8140	1.1070	100.79	0.0610
Iso-Butane	0.7563	0.7201	0.2480	24.59	0.0152
N-Butane	1.1851	1.1283	0.3750	38.66	0.0238
I-Pentane	0.4394	0.4184	0.1610	17.58	0.0109
N-Pentane	0.3665	0.3489	0.1330	14.69	0.0091
Hexane Plus	1.4658	1.3956	0.6560	77.26	0.0485
Total	100.0000	95.2106	19.1090	1257.30	0.7235

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0037
BTU/CU.FT IDEAL:	1260.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1264.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1242.9
DRY BTU @ 15.025:	1290.2
REAL SPECIFIC GRAVITY:	0.7259

CYLINDER #:	1270
CYLINDER PRESSURE:	35 PSIG
ANALYSIS DATE:	10/05/2020
ANALYSIS TIME:	01:35:43 PM
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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: RIDENHOUR GC 1M ; CSG
Stn. No.: API #
Mtr. No.: 98735

CASING

10/08/2020
15950-12445

Smpl Date: 09/24/2020
Test Date: 10/05/2020
Run No: SO200217

Nitrogen: 0.1654
CO2: 0.5382
Methane: 82.6744
Ethane: 8.4030
Propane: 4.0059
I-Butane: 0.7563
N-Butane: 1.1851
I-Pentane: 0.4394
N-Pentane: 0.3665
Hexane+: 1.4658

BTU: 1264.9
GPM: 19.1090
SPG: 0.7259