



Well Name: UPTEGROVE GC 1A ; CSG

API #: API # 300452214200

Source: CASING

Sample Type: GAS

Analysis No: SO200226

Cust No: 15950-12490

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT

Well Name: UPTEGROVE GC 1A ; CSG

County/State: SAN JUAN NM

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.: API # 300452214200
89915

Source: CASING

Well Flowing: Y

Pressure: 19 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: 4.42 PM

Sampled By: ERIK SHAW

Sampled by (CO): ABC

Heat Trace: N

Remarks: PRESSURED WITH HELIUM TO 30LBS. CO-MINGLE CSG / TBG

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1928	0.1166	0.0210	0.00	0.0019
CO2	2.0127	1.2175	0.3450	0.00	0.0306
Methane	82.7578	50.0610	14.0740	835.85	0.4584
Ethane	8.2642	4.9991	2.2170	146.25	0.0858
Propane	3.4040	2.0591	0.9410	85.65	0.0518
Iso-Butane	0.6227	0.3767	0.2040	20.25	0.0125
N-Butane	0.9838	0.5951	0.3110	32.09	0.0197
I-Pentane	0.3845	0.2326	0.1410	15.38	0.0096
N-Pentane	0.2977	0.1801	0.1080	11.93	0.0074
Hexane Plus	1.0798	0.6532	0.4830	56.92	0.0357
Total	100.0000	60.4910	18.8450	1204.33	0.7134

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1207.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1211.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1190.1
 DRY BTU @ 15.025: 1235.5
 REAL SPECIFIC GRAVITY: 0.7156

CYLINDER #: BLANK
 CYLINDER PRESSURE: 10 PSIG
 ANALYSIS DATE: 10/05/2020
 ANALYSIS TIME: 10:08:20 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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: UPTEGROVE GC 1A ; CSG
Stn. No.: API #
Mtr. No.: 89915

CASING

10/08/2020
15950-12490

Smpl Date: 09/24/2020
Test Date: 10/05/2020
Run No: SO200226

Nitrogen: 0.1928
CO2: 2.0127
Methane: 82.7578
Ethane: 8.2642
Propane: 3.4040
I-Butane: 0.6227
N-Butane: 0.9838
I-Pentane: 0.3845
N-Pentane: 0.2977
Hexane+: 1.0798

BTU: 1211.2
GPM: 18.8450
SPG: 0.7156



OCD Received 10/28/2020

Well Name: UPTEGROVE GC 1A ; BHD

API #: API # 300452214200

Source: BRADENHEAD

Sample Type: GAS

Analysis No: SO200227

Cust No: 15950-12495

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: UPTEGROVE GC 1A ; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 300452214200
89915

Source: BRADENHEAD
Well Flowing: Y
Pressure: 37 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: 4.45 PM
Sampled By: ERIK SHAW
Sampled by (CO): ABC

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	72.2956	2.4240	7.9610	0.00	0.6992
CO2	0.3818	0.0128	0.0650	0.00	0.0058
Methane	23.4334	0.7857	3.9760	236.68	0.1298
Ethane	0.2058	0.0069	0.0550	3.64	0.0021
Propane	0.6412	0.0215	0.1770	16.13	0.0098
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0537	0.0018	0.0170	1.75	0.0011
I-Pentane	0.0656	0.0022	0.0240	2.62	0.0016
N-Pentane	0.0537	0.0018	0.0190	2.15	0.0013
Hexane Plus	2.8692	0.0962	1.2810	151.24	0.0950
Total	100.0000	3.3529	13.5750	414.22	0.9457

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0012
BTU/CU.FT IDEAL: 415.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 415.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 408.5
DRY BTU @ 15.025: 424.0
REAL SPECIFIC GRAVITY: 0.9465

CYLINDER #: 1036
CYLINDER PRESSURE: 26 PSIG
ANALYSIS DATE: 10/05/2020
ANALYSIS TIME: 09:33:58 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: UPTEGROVE GC 1A ; BHD
Stn. No.: API #
Mtr. No.: 89915

BRADENHEAD

10/08/2020
15950-12495

Smpl Date: 09/24/2020
Test Date: 10/05/2020
Run No: SO200227

Nitrogen: 72.2956
CO2: 0.3818
Methane: 23.4334
Ethane: 0.2058
Propane: 0.6412
I-Butane: 0.0000
N-Butane: 0.0537
I-Pentane: 0.0656
N-Pentane: 0.0537
Hexane+: 2.8692

BTU: 415.7
GPM: 13.5750
SPG: 0.9465