



Roberts 2
30 045-31066
Bradenhead Sample

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

Analysis No: SO180087
Cust No: 15950-10865

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: ROBERTS 2; BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: PC
Cust. Stn. No.: API 3004531066

Source: BRADENHEAD
Well Flowing: Y
Pressure: 53 PSIA
Flow Temp: DEG. F
Ambient Temp: 67 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/10/2018
Sample Time: 7.30 AM
Sampled By: SCOTT WILLARD
Sampled by (CO): PESCO

Heat Trace: N
Remarks:

NMOC
FEB 13 2019
DISTRICT III

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	35.0969	0.5851	3.8760	0.00	0.3395
CO2	0.7798	0.0130	0.1340	0.00	0.0118
Methane	49.8769	0.8315	8.4880	503.76	0.2763
Ethane	2.7053	0.0451	0.7260	47.88	0.0281
Propane	1.6196	0.0270	0.4480	40.75	0.0247
Iso-Butane	0.3779	0.0063	0.1240	12.29	0.0076
N-Butane	0.9598	0.0160	0.3040	31.31	0.0193
I-Pentane	0.5279	0.0088	0.1940	21.12	0.0132
N-Pentane	0.6118	0.0102	0.2230	24.53	0.0152
Hexane Plus	7.4441	0.1241	3.3330	392.38	0.2464
Total	100.0000	1.6671	17.8500	1074.01	0.9819

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0041
BTU/CU.FT IDEAL: 1076.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1080.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1062.1
DRY BTU @ 15.025: 1102.5
REAL SPECIFIC GRAVITY: 0.9856

CYLINDER #: 7058
CYLINDER PRESSURE: 19 PSIG
ANALYSIS DATE: 07/17/2018
ANALYSIS TIME: 03:23:58 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

GC Method: C6+ Gas

Last Cal/Verify: 07/19/2018



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: HUTTON GC 1; BHD
Stn. No.: API 3004513268
Mtr. No.:

BRADENHEAD
PC

07/19/2018
15950-10850

Smpl Date: 07/10/2018
Test Date: 07/17/2018
Run No: SO180084

Nitrogen: 0.2411
CO2: 0.0052
Methane: 88.7035
Ethane: 7.0155
Propane: 2.5785
I-Butane: 0.4069
N-Butane: 0.5789
I-Pentane: 0.1685
N-Pentane: 0.1149
Hexane+: 0.1870

BTU: 1144.0
GPM: 18.2010
SPG: 0.6403