



Well Name: Davis 1
 API# 30 - 045 - 26798
 Casing Sampled: Bradenhead
 Sample Type: gas

Analysis No: SO190064
 Cust No: 15950-10230

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
 Well Name: DAVIS 1 BHD
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation: PC
 Cust. Stn. No.:
 API 3004526798

NMOC
 JUL 11 2019
 DISTRICT III

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 18 PSIA
 Flow Temp: DEG. F
 Ambient Temp: 88 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/14/2019
 Sample Time: 12.52 PM
 Sampled By: EUGENIA HAMILTON
 Sampled by (CO): PESCO

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.6252	3.5305	0.4000	0.00	0.0351
CO2	0.0333	0.0324	0.0060	0.00	0.0005
Methane	88.3714	86.0637	15.0150	892.55	0.4895
Ethane	4.9417	4.8126	1.3250	87.45	0.0513
Propane	1.7616	1.7156	0.4860	44.32	0.0268
Iso-Butane	0.4041	0.3935	0.1330	13.14	0.0081
N-Butane	0.3950	0.3847	0.1250	12.89	0.0079
I-Pentane	0.1504	0.1465	0.0550	6.02	0.0037
N-Pentane	0.0597	0.0581	0.0220	2.39	0.0015
Hexane Plus	0.2576	0.2509	0.1150	13.58	0.0085
Total	100.0000	97.3885	17.6820	1072.34	0.6330

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
 BTU/CU.FT IDEAL: 1074.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1077.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1058.8
 DRY BTU @ 15.025: 1099.1
 REAL SPECIFIC GRAVITY: 0.6343

CYLINDER #: 7008
 CYLINDER PRESSURE: 18 PSIG
 ANALYSIS DATE: 06/25/2019
 ANALYSIS TIME: 02:50:28 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: 06/28/2019

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: DAVIS 1 BHD
Stn. No.:
Mtr. No.: API 3004526798

BRADENHEAD
PC

06/28/2019
15950-10230

Smpl Date:	06/14/2019	07/14/2017
Test Date:	06/25/2019	07/14/2017
Run No:	SO190064	SO170047
Nitrogen:	3.6252	4.5036
CO2:	0.0333	0.0174
Methane:	88.3714	87.8197
Ethane:	4.9417	4.7720
Propane:	1.7616	1.7284
I-Butane:	0.4041	0.3853
N-Butane:	0.3950	0.3891
I-Pentane:	0.1504	0.1527
N-Pentane:	0.0597	0.0761
Hexane+:	0.2576	0.1557
BTU:	1077.5	1062.5
GPM:	17.6820	17.5790
SPG:	0.6343	0.6338



Well Name: Davis 1
API# 30 - D45 - 26798
Casing Sampled: Production
Sample Type: gas

Analysis No: SO190065
Cust No: 15950-10225

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: DAVIS 1 CSG
County/State: NM
Location:
Lease/PA/CA:
Formation: PC
Cust. Stn. No.:
API 3004526798

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Source: CASING
Well Flowing: Y
Pressure: 20 PSIA
Flow Temp: DEG. F
Ambient Temp: 88 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/14/2019
Sample Time: 12.55 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): PESCO

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	3.8943	1.1523	0.4300	0.00	0.0377
CO2	2.3856	0.7059	0.4080	0.00	0.0362
Methane	82.4245	24.3890	14.0120	832.49	0.4565
Ethane	6.2559	1.8511	1.6780	110.71	0.0649
Propane	2.5327	0.7494	0.7000	63.73	0.0386
Iso-Butane	0.4059	0.1201	0.1330	13.20	0.0081
N-Butane	0.6110	0.1808	0.1930	19.93	0.0123
I-Pentane	0.2156	0.0638	0.0790	8.63	0.0054
N-Pentane	0.1663	0.0492	0.0600	6.67	0.0041
Hexane Plus	1.1082	0.3279	0.4960	58.41	0.0367
Total	100.0000	29.5895	18.1890	1113.76	0.7006

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1116.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1119.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1100.2
DRY BTU @ 15.025: 1142.1
REAL SPECIFIC GRAVITY: 0.7024

CYLINDER #: 198
CYLINDER PRESSURE: 2 PSIG
ANALYSIS DATE: 06/25/2019
ANALYSIS TIME: 03:54:16 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: 06/28/2019

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: DAVIS 1 CSG
Stn. No.:
Mtr. No.: API 3004526798

CASING
PC

06/28/2019
15950-10225

Smpl Date:	06/14/2019	07/14/2017
Test Date:	06/25/2019	07/14/2017
Run No:	SO190065	SO170048
Nitrogen:	3.8943	0.2420
CO2:	2.3856	2.8500
Methane:	82.4245	84.0801
Ethane:	6.2559	7.5308
Propane:	2.5327	3.0655
I-Butane:	0.4059	0.4804
N-Butane:	0.6110	0.7350
I-Pentane:	0.2156	0.2416
N-Pentane:	0.1663	0.1623
Hexane+:	1.1082	0.6123
BTU:	1119.7	1153.9
GPM:	18.1890	18.4890
SPG:	0.7024	0.6928



Well Name: DAVIS 1
API# 30-045-26798
Casing Sampled: tubing
Sample Type: gas

Analysis No: SO190066
Cust No: 15950-11565

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: DAVIS 1; TBG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: API # 3004526798

Source: TUBING
Well Flowing: Y
Pressure: 9 PSIA
Flow Temp: DEG. F
Ambient Temp: 88 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 06/14/2019
Sample Time: 12.58 PM
Sampled By: EUGENIA HAMILTON
Sampled by (CO): PESCO

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1705	0.0905	0.0190	0.00	0.0016
CO2	2.8961	1.5372	0.4960	0.00	0.0440
Methane	84.3546	44.7736	14.3410	851.98	0.4672
Ethane	7.2982	3.8737	1.9570	129.16	0.0758
Propane	3.0039	1.5944	0.8300	75.58	0.0457
Iso-Butane	0.4817	0.2557	0.1580	15.66	0.0097
N-Butane	0.7080	0.3758	0.2240	23.10	0.0142
I-Pentane	0.2363	0.1254	0.0870	9.45	0.0059
N-Pentane	0.1773	0.0941	0.0640	7.11	0.0044
Hexane Plus	0.6734	0.3574	0.3010	35.50	0.0223
Total	100.0000	53.0778	18.4770	1147.54	0.6909

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
BTU/CU.FT IDEAL: 1150.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1153.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1133.7
DRY BTU @ 15.025: 1176.9
REAL SPECIFIC GRAVITY: 0.6927

CYLINDER #: 1013
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 06/26/2019
ANALYSIS TIME: 10:32:33 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: 06/28/2019

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: DAVIS 1; TBG
Stn. No.: API # 3004526798
Mtr. No.:

TUBING

06/28/2019
15950-11565

Smpl Date: 06/14/2019
Test Date: 06/26/2019
Run No: SO190066

Nitrogen: 0.1705
CO2: 2.8961
Methane: 84.3546
Ethane: 7.2982
Propane: 3.0039
I-Butane: 0.4817
N-Butane: 0.7080
I-Pentane: 0.2363
N-Pentane: 0.1773
Hexane+: 0.6734

BTU: 1153.8
GPM: 18.4770
SPG: 0.6927