



NMOCD REC'D
10/12/20

Well Name: JAQUEZ D 1; CSG
API #: API # 300450869900
Source: CASING
Sample Type: GAS
Analysis No: SO200073
Cust No: 15950-11580

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
Well Name: JAQUEZ D 1; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: FT
Cust. Stn. No.: API # 300450869900

Source: CASING
Well Flowing: N
Pressure: 187 PSIG
Flow Temp: DEG. F
Ambient Temp: 96 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 07/15/2020
Sample Time: 5.45 PM
Sampled By: SEAN C.
Sampled by (CO): ABC

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2034	0.1990	0.0220	0.00	0.0020
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	87.2138	85.3106	14.8260	880.86	0.4831
Ethane	7.0817	6.9272	1.8990	125.32	0.0735
Propane	3.1034	3.0357	0.8570	78.08	0.0472
Iso-Butane	0.6100	0.5967	0.2000	19.84	0.0122
N-Butane	0.7716	0.7548	0.2440	25.17	0.0155
I-Pentane	0.2914	0.2850	0.1070	11.66	0.0073
N-Pentane	0.1949	0.1906	0.0710	7.81	0.0049
Hexane Plus	0.5298	0.5182	0.2370	27.93	0.0175
Total	100.0000	97.8178	18.4630	1176.68	0.6632

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1179.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1182.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1162.3
DRY BTU @ 15.025: 1206.6
REAL SPECIFIC GRAVITY: 0.6649

CYLINDER #: 001
CYLINDER PRESSURE: 169 PSIG
ANALYSIS DATE: 07/20/2020
ANALYSIS TIME: 10:32:22 AM
ANALYSIS RUN BY: PATRICIA KING

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: 07/22/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease: JAQUEZ D 1; CSG
Stn. No.: API #
Mtr. No.:

CASING
FT

07/22/2020
15950-11580

Smpl Date:	07/15/2020	10/30/2019
Test Date:	07/20/2020	11/14/2019
Run No:	SO200073	SO190094
Nitrogen:	0.2034	0.2399
CO2:	0.0000	0.0092
Methane:	87.2138	87.8615
Ethane:	7.0817	7.0645
Propane:	3.1034	3.0889
I-Butane:	0.6100	0.5201
N-Butane:	0.7716	0.7105
I-Pentane:	0.2914	0.2086
N-Pentane:	0.1949	0.1374
Hexane+:	0.5298	0.1594
BTU:	1182.9	1158.4
GPM:	18.4630	18.3010
SPG:	0.6649	0.6496



NMOCD REC'D
10/12/20

Well Name: JAQUEZ D 1; INT
API #: API # 300450869900
Source: INTERMEDIATE CASING
Sample Type: GAS
Analysis No: SO200074
Cust No: 15950-11585

Well/Lease Information

Customer Name:	BP - SOUTH BHD PROJECT	Source:	INTERMEDIATE CASING
Well Name:	JAQUEZ D 1; INT	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	16.8 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	96 DEG. F
Formation:	FT	Flow Rate:	MCF/D
Cust. Stn. No.:	API # 300450869900	Sample Method:	Purge & Fill
		Sample Date:	07/15/2020
		Sample Time:	5.40 PM
		Sampled By:	SEAN C.
		Sampled by (CO):	ABC
Heat Trace:	N		
Remarks:			

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2850	0.2766	0.0310	0.00	0.0028
CO2	0.0028	0.0027	0.0000	0.00	0.0000
Methane	86.7403	84.1769	14.7470	876.08	0.4805
Ethane	6.9298	6.7250	1.8590	122.64	0.0719
Propane	3.3930	3.2927	0.9370	85.37	0.0517
Iso-Butane	0.4637	0.4500	0.1520	15.08	0.0093
N-Butane	0.8316	0.8070	0.2630	27.13	0.0167
I-Pentane	0.2471	0.2398	0.0910	9.89	0.0062
N-Pentane	0.1921	0.1864	0.0700	7.70	0.0048
Hexane Plus	0.9146	0.8876	0.4090	48.21	0.0303
Total	100.0000	97.0447	18.5590	1192.09	0.6741

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0031	CYLINDER #:	203
BTU/CU.FT IDEAL:	1194.8	CYLINDER PRESSURE:	15 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1198.6	ANALYSIS DATE:	07/20/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1177.7	ANALYSIS TIME:	10:25:47 AM
DRY BTU @ 15.025:	1222.6	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6759		

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: 07/22/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease:	JAQUEZ D 1; INT	INTERMEDIATE CASING	07/22/2020
Stn. No.:	API #	FT	15950-11585
Mtr. No.:			

Smpl Date:	07/15/2020	10/30/2019
Test Date:	07/20/2020	11/14/2019
Run No:	SO200074	SO190095
Nitrogen:	0.2850	0.2294
CO2:	0.0028	0.0075
Methane:	86.7403	88.4268
Ethane:	6.9298	6.8797
Propane:	3.3930	2.8272
I-Butane:	0.4637	0.4829
N-Butane:	0.8316	0.6350
I-Pentane:	0.2471	0.2046
N-Pentane:	0.1921	0.1284
Hexane+:	0.9146	0.1785
BTU:	1198.6	1151.0
GPM:	18.5590	18.2420
SPG:	0.6759	0.6448