



Well Name: MUDGE LS 7A ; BHD
 API #: API # 300452306400
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SO200214
 Cust No: 15950-12430

Well/Lease Information

Customer Name: BP - SOUTH BHD PROJECT
 Well Name: MUDGE LS 7A ; BHD
 County/State: NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: API # 300452306400
 90358

Source: BRADENHEAD
 Well Flowing:
 Pressure: 39 PSIG
 Flow Temp: DEG. F
 Ambient Temp: 86 DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 09/25/2020
 Sample Time: 6.45 AM
 Sampled By: SEAN CASAUS
 Sampled by (CO): ABC

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4279	0.3847	0.0470	0.00	0.0041
CO2	2.4009	2.1585	0.4110	0.00	0.0365
Methane	77.0043	69.2311	13.1060	777.74	0.4265
Ethane	9.6760	8.6992	2.5980	171.24	0.1005
Propane	5.1977	4.6730	1.4380	130.78	0.0791
Iso-Butane	1.1586	1.0416	0.3810	37.68	0.0233
N-Butane	1.5020	1.3504	0.4750	49.00	0.0301
I-Pentane	0.5832	0.5243	0.2140	23.33	0.0145
N-Pentane	0.4706	0.4231	0.1710	18.86	0.0117
Hexane Plus	1.5788	1.4194	0.7070	83.22	0.0523
Total	100.0000	89.9053	19.5480	1291.85	0.7786

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0042
 BTU/CU.FT IDEAL: 1294.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1300.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1277.6
 DRY BTU @ 15.025: 1326.2
 REAL SPECIFIC GRAVITY: 0.7815

CYLINDER #: 1072
 CYLINDER PRESSURE: 38 PSIG
 ANALYSIS DATE: 10/01/2020
 ANALYSIS TIME: 09:39:19 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: 10/08/2020

GC Method: C6+ Gas



BP - SOUTH BHD PROJECT
WELL ANALYSIS COMPARISON

Lease:	MUDGE LS 7A ; BHD	BRADENHEAD	10/08/2020
Stn. No.:	API #		15950-12430
Mtr. No.:	90358		

Smpl Date: 09/25/2020
Test Date: 10/01/2020
Run No: SO200214

Nitrogen: 0.4279
CO2: 2.4009
Methane: 77.0043
Ethane: 9.6760
Propane: 5.1977
I-Butane: 1.1586
N-Butane: 1.5020
I-Pentane: 0.5832
N-Pentane: 0.4706
Hexane+: 1.5788

BTU: 1300.2
GPM: 19.5480
SPG: 0.7815

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 17976

CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
SIMCOE LLC	1199 Main Ave., Suite 101	Durango, CO81301		329736	17976	GAS ANALYSIS
OCD Reviewer				Condition		
mkuehling				None		