



Well Name: EUL CANYON SWD #1;
API #:
Source: BRADENHEAD
Sample Type: GAS
Analysis No: SR200164
Cust No: 72550-10035

Well/Lease Information

Customer Name: SOUTHLAND ROYALTY
Well Name: EUL CANYON SWD #1; BHD
County/State: RIO ARRIBA NM
Location:
Lease/PA/CA: FEE
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: N
Pressure: 219.9 PSIG
Flow Temp: 40 DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 04/16/2020
Sample Time: 8.30 AM
Sampled By: KYLE HAWKINS
Sampled by (CO): SOUTHLAND

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2465	0.2337	0.0270	0.00	0.0024
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	99.4720	94.3188	16.8930	1004.67	0.5510
Ethane	0.2665	0.2527	0.0710	4.72	0.0028
Propane	0.0118	0.0112	0.0030	0.30	0.0002
Iso-Butane	0.0018	0.0017	0.0010	0.06	0.0000
N-Butane	0.0014	0.0013	0.0000	0.05	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	94.8194	16.9950	1009.78	0.5564

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
BTU/CU.FT IDEAL: 1012.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1014.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 996.5
DRY BTU @ 15.025: 1034.4
REAL SPECIFIC GRAVITY: 0.5573

CYLINDER #: 4066
CYLINDER PRESSURE: 195 PSIG
ANALYSIS DATE: 04/20/2020
ANALYSIS TIME: 04:33:13 PM
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

GC Method: C6+ Gas

Last Cal/Verify: 04/23/2020



SOUTHLAND ROYALTY
WELL ANALYSIS COMPARISON

Lease: EUL CANYON SWD #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

04/23/2020
72550-10035

Smpl Date:	04/16/2020	09/27/2019	08/19/2016	08/19/2016	07/13/2015
Test Date:	04/20/2020	09/30/2019	08/19/2016	08/19/2016	07/13/2015
Run No:	SR200164	SR190388	SR160233	SR160234	SR150008
Nitrogen:	0.2465	0.2295	0.2310	0.2370	0.1770
CO2:	0.0000	0.0022	0.0120	0.0130	0.0110
Methane:	99.4720	99.4802	99.4440	99.4370	99.5050
Ethane:	0.2665	0.2720	0.2750	0.2800	0.2790
Propane:	0.0118	0.0126	0.0140	0.0160	0.0130
I-Butane:	0.0018	0.0018	0.0040	0.0040	0.0020
N-Butane:	0.0014	0.0017	0.0050	0.0050	0.0020
I-Pentane:	0.0000	0.0000	0.0070	0.0040	0.0000
N-Pentane:	0.0000	0.0000	0.0050	0.0000	0.0000
Hexane+:	0.0000	0.0000	0.0030	0.0040	0.0110
BTU:	1014.1	1014.4	1014.9	1014.7	1015.3
GPM:	16.9950	16.9970	17.0020	17.0000	17.0070
SPG:	0.5573	0.5573	0.5578	0.5577	0.5575



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BTU:	1014.1	1014.4	1014.9	1014.7	1015.3
GPM:	16.9950	16.9970	17.0020	17.0000	17.0070
SPG:	0.5573	0.5573	0.5578	0.5577	0.5575