



Well Name: HART CANYON 26 #1S;
 API #:
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: SR200152
 Cust No: 72550-10860

Well/Lease Information

Customer Name: SOUTHLAND ROYALTY
 Well Name: HART CANYON 26 #1S; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: NM-0606
 Formation: BASIN FRUITLAND COAL
 Cust. Stn. No.:

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 82 PSIG
 Flow Temp: 71.9 DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 90.3 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/07/2020
 Sample Time: 11.20 AM
 Sampled By: JEFF GRAHAM
 Sampled by (CO): SOUTHLAND ROYALTY

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5481	0.5404	0.0600	0.00	0.0053
CO2	0.0051	0.0050	0.0010	0.00	0.0001
Methane	90.3187	89.0447	15.3480	912.22	0.5003
Ethane	5.6784	5.5983	1.5220	100.49	0.0590
Propane	2.1660	2.1354	0.5980	54.50	0.0330
Iso-Butane	0.3636	0.3585	0.1190	11.82	0.0073
N-Butane	0.5076	0.5004	0.1600	16.56	0.0102
I-Pentane	0.1588	0.1566	0.0580	6.35	0.0040
N-Pentane	0.1039	0.1024	0.0380	4.17	0.0026
Hexane Plus	0.1498	0.1477	0.0670	7.90	0.0050
Total	100.0000	98.5894	17.9710	1114.01	0.6266

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1116.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1119.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1100.0
 DRY BTU @ 15.025: 1141.9
 REAL SPECIFIC GRAVITY: 0.628

CYLINDER #: 4008
 CYLINDER PRESSURE: 86 PSIG
 ANALYSIS DATE: 04/13/2020
 ANALYSIS TIME: 11:13:37 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: 04/14/2020

GC Method: C6+ Gas



SOUTHLAND ROYALTY
WELL ANALYSIS COMPARISON

Lease: HART CANYON 26 #1S; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
BASIN FRUITLAND COAL

04/14/2020
72550-10860

Smpl Date:	04/07/2020	04/17/2017
Test Date:	04/13/2020	04/17/2017
Run No:	SR200152	SR170145
Nitrogen:	0.5481	0.6090
CO2:	0.0051	0.0060
Methane:	90.3187	90.8229
Ethane:	5.6784	5.5911
Propane:	2.1660	2.0050
I-Butane:	0.3636	0.3030
N-Butane:	0.5076	0.3940
I-Pentane:	0.1588	0.1010
N-Pentane:	0.1039	0.0610
Hexane+:	0.1498	0.1070
BTU:	1119.5	1106.9
GPM:	17.9710	17.8830
SPG:	0.6280	0.6205