



Well Name: HART CANYON 26 #1S;
 API #: 3004532617
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: MS20230083
 Cust No: 53400-11940

Well/Lease Information

Customer Name: MORNINGSTAR
 Well Name: HART CANYON 26 #1S; BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA: USA NM-0606
 Formation: FC
 Cust. Stn. No.: 3004532617

Source: BRADENHEAD
 Well Flowing: Y
 Pressure: 41 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/25/2023
 Sample Time: 2.00 PM
 Sampled By: ERIC THOMAS
 Sampled by (CO): MORNINGSTAR

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5639	0.5566	0.0620	0.00	0.0055
CO2	0.0093	0.0092	0.0020	0.00	0.0001
Methane	90.1228	88.9526	15.3140	910.24	0.4992
Ethane	5.6901	5.6162	1.5250	100.70	0.0591
Propane	2.1825	2.1542	0.6030	54.91	0.0332
Iso-Butane	0.3716	0.3668	0.1220	12.08	0.0075
N-Butane	0.5303	0.5234	0.1680	17.30	0.0106
I-Pentane	0.1801	0.1778	0.0660	7.21	0.0045
N-Pentane	0.1235	0.1219	0.0450	4.95	0.0031
Hexane Plus	0.2259	0.2230	0.1010	11.91	0.0075
Total	100.0000	98.7017	18.0080	1119.30	0.6302

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 1121.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1124.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1105.2
 DRY BTU @ 15.025: 1147.3
 REAL SPECIFIC GRAVITY: 0.6316

CYLINDER #: 4179
 CYLINDER PRESSURE: 37 PSIG
 ANALYSIS DATE: 05/01/2023
 ANALYSIS TIME: 12:46:31 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: 05/04/2023

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease: HART CANYON 26 #1S; BHD
Stn. No.: 3004532617
Mtr. No.:

BRADENHEAD
FC

05/04/2023
53400-11940

Smpl Date: 04/25/2023
Test Date: 05/01/2023
Run No: MS20230083

Nitrogen: 0.5639
CO2: 0.0093
Methane: 90.1228
Ethane: 5.6901
Propane: 2.1825
I-Butane: 0.3716
N-Butane: 0.5303
I-Pentane: 0.1801
N-Pentane: 0.1235
Hexane+: 0.2259

BTU: 1124.8
GPM: 18.0080
SPG: 0.6316



Well Name: HART CANYON 26 #1S;
 API #: 3004532617
 Source: CASING
 Sample Type: GAS
 Analysis No: MS20230084
 Cust No: 53400-10075

Well/Lease Information

Customer Name: MORNINGSTAR	Source: CASING
Well Name: HART CANYON 26 #1S; CSG	Well Flowing:
County/State: SAN JUAN NM	Pressure: 6 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA: NM0606	Ambient Temp: DEG. F
Formation: FC	Flow Rate: 80 MCF/D
Cust. Stn. No.: 3004532617	Sample Method: Purge & Fill
85871	Sample Date: 04/25/2023
	Sample Time: 2.00 PM
	Sampled By: ERIC THOMAS
	Sampled by (CO): MORNINGSTAR

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1718	0.0758	0.0190	0.00	0.0017
CO2	1.1232	0.4955	0.1920	0.00	0.0171
Methane	87.9300	38.7899	14.9450	888.09	0.4870
Ethane	6.1334	2.7057	1.6440	108.54	0.0637
Propane	3.2302	1.4250	0.8920	81.28	0.0492
Iso-Butane	0.5794	0.2556	0.1900	18.84	0.0116
N-Butane	0.4117	0.1816	0.1300	13.43	0.0083
I-Pentane	0.1426	0.0629	0.0520	5.71	0.0036
N-Pentane	0.0755	0.0333	0.0270	3.03	0.0019
Hexane Plus	0.2022	0.0892	0.0900	10.66	0.0067
Total	100.0000	44.1145	18.1810	1129.57	0.6506

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	4213
BTU/CU.FT IDEAL:	1132.2	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1135.4	ANALYSIS DATE:	05/01/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1115.6	ANALYSIS TIME:	11:13:18 AM
DRY BTU @ 15.025:	1158.1	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6522		

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: 05/04/2023

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease: HART CANYON 26 #1S; CSG
Stn. No.: 3004532617
Mtr. No.: 85871

CASING
FC

05/04/2023
53400-10075

Smpl Date:	04/25/2023	06/25/2020
Test Date:	05/01/2023	06/30/2020
Run No:	MS20230084	MS200016
Nitrogen:	0.1718	0.1710
CO2:	1.1232	1.1701
Methane:	87.9300	87.8502
Ethane:	6.1334	6.1570
Propane:	3.2302	3.1938
I-Butane:	0.5794	0.5670
N-Butane:	0.4117	0.4367
I-Pentane:	0.1426	0.1393
N-Pentane:	0.0755	0.0778
Hexane+:	0.2022	0.2371
BTU:	1135.4	1136.3
GPM:	18.1810	18.1920
SPG:	0.6522	0.6535

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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 225652

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 225652
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only	6/9/2023