



Well Name: EUL CANYON SWD #1;
 API #: 3003926214
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: MS20240144
 Cust No: 53400-11910

Well/Lease Information

Customer Name: MORNINGSTAR
 Well Name: EUL CANYON SWD #1; BHD
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA: FEE
 Formation:
 Cust. Stn. No.: 3003926214

Source: BRADENHEAD
 Well Flowing:
 Pressure: 216 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 06/06/2024
 Sample Time: 1.56 PM
 Sampled By: CHAD TAYLOR
 Sampled by (CO): MORNINGSTAR

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3603	0.3397	0.0400	0.00	0.0035
CO2	0.0032	0.0030	0.0010	0.00	0.0000
Methane	99.3622	93.6778	16.8740	1003.56	0.5504
Ethane	0.2581	0.2433	0.0690	4.57	0.0027
Propane	0.0124	0.0117	0.0030	0.31	0.0002
Iso-Butane	0.0019	0.0018	0.0010	0.06	0.0000
N-Butane	0.0019	0.0018	0.0010	0.06	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	94.2791	16.9890	1008.56	0.5568

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1010.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1012.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 995.3
 DRY BTU @ 15.025: 1033.2
 REAL SPECIFIC GRAVITY: 0.5577

CYLINDER #: 2174
 CYLINDER PRESSURE: 191 PSIG
 ANALYSIS DATE: 06/11/2024
 ANALYSIS TIME: 01:56:58 PM
 ANALYSIS RUN BY: SARAH BALLARD

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: 06/12/2024

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease:	EUL CANYON SWD #1; BHD	BRADENHEAD	06/12/2024
Stn. No.:	3003926214		53400-11910
Mtr. No.:			

Smpl Date:	06/06/2024	04/12/2023	05/04/2022
Test Date:	06/11/2024	04/19/2023	05/09/2022
Run No:	MS20240144	MS20230030	MS20220099
Nitrogen:	0.3603	0.3672	0.2749
CO2:	0.0032	0.0029	0.0065
Methane:	99.3622	99.3326	99.4487
Ethane:	0.2581	0.2609	0.2554
Propane:	0.0124	0.0180	0.0105
I-Butane:	0.0019	0.0029	0.0016
N-Butane:	0.0019	0.0046	0.0011
I-Pentane:	0.0000	0.0016	0.0013
N-Pentane:	0.0000	0.0018	0.0000
Hexane+:	0.0000	0.0075	0.0000
BTU:	1012.9	1013.5	1013.7
GPM:	16.9890	16.9910	16.9920
SPG:	0.5577	0.5582	0.5574

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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 127901

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 127901
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only	10/10/2024