



Well Name: EUL CANYON SWD #1;
 API #: 3003926214
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: MS20230030
 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: N
 Pressure: 211 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: 0 MCF/D
 Sample Method: Purge & Fill
 Sample Date: 04/12/2023
 Sample Time: 1.00 PM
 Sampled By: KYLE HAWKINS
 Sampled by (CO): MORNINGSTAR

Heat Trace: N
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3672	0.3436	0.0400	0.00	0.0036
CO2	0.0029	0.0027	0.0000	0.00	0.0000
Methane	99.3326	92.9608	16.8690	1003.26	0.5502
Ethane	0.2609	0.2442	0.0700	4.62	0.0027
Propane	0.0180	0.0168	0.0050	0.45	0.0003
Iso-Butane	0.0029	0.0027	0.0010	0.09	0.0001
N-Butane	0.0046	0.0043	0.0010	0.15	0.0001
I-Pentane	0.0016	0.0015	0.0010	0.06	0.0000
N-Pentane	0.0018	0.0017	0.0010	0.07	0.0000
Hexane Plus	0.0075	0.0070	0.0030	0.40	0.0002
Total	100.0000	93.5853	16.9910	1009.11	0.5573

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
 BTU/CU.FT IDEAL: 1011.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1013.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 995.9
 DRY BTU @ 15.025: 1033.8
 REAL SPECIFIC GRAVITY: 0.5582

CYLINDER #: 7048
 CYLINDER PRESSURE: 58 PSIG
 ANALYSIS DATE: 04/19/2023
 ANALYSIS TIME: 08:37:00 AM
 ANALYSIS RUN BY: KERRA GONZALEZ

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: 04/20/2023

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease:	EUL CANYON SWD #1; BHD	BRADENHEAD	04/20/2023
Stn. No.:	3003926214		53400-11910
Mtr. No.:			

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

District I
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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 225637

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 225637
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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