



Well Name: JIC H 3; CSG

API #:

Source: CASING

Sample Type: GAS

Analysis No: MS2021201

Cust No: 53400-11740

Well/Lease Information

Customer Name: MORNINGSTAR
 Well Name: JIC H 3; CSG
 County/State: RIO ARRIBA NM
 Location:
 Lease/PA/CA:
 Formation: PC
 Cust. Stn. No.:

Source: CASING
 Well Flowing: N
 Pressure: 107 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 06/10/2021
 Sample Time: 12.30 PM
 Sampled By: PAT SLUSSER
 Sampled by (CO): MORNINGSTAR

Heat Trace: N

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.6476	1.6456	0.1820	0.00	0.0159
CO2	0.0488	0.0487	0.0080	0.00	0.0007
Methane	82.1218	82.0225	13.9660	829.43	0.4549
Ethane	7.6716	7.6623	2.0580	135.76	0.0796
Propane	4.9517	4.9457	1.3680	124.59	0.0754
Iso-Butane	1.1988	1.1974	0.3940	38.98	0.0241
N-Butane	1.2236	1.2221	0.3870	39.92	0.0246
I-Pentane	0.4418	0.4413	0.1620	17.68	0.0110
N-Pentane	0.2407	0.2404	0.0880	9.65	0.0060
Hexane Plus	0.4536	0.4531	0.2030	23.91	0.0150
Total	100.0000	99.8791	18.8160	1219.92	0.7072

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT IDEAL: 1222.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1226.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1205.5
 DRY BTU @ 15.025: 1251.4
 REAL SPECIFIC GRAVITY: 0.7093

CYLINDER #: 4062
 CYLINDER PRESSURE: 104 PSIG
 ANALYSIS DATE: 06/17/2021
 ANALYSIS TIME: 09:14:29 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: 06/21/2021

GC Method: C6+ Gas



MORNINGSTAR
WELL ANALYSIS COMPARISON

Lease:	JIC H 3; CSG	CASING	06/21/2021
Stn. No.:		PC	53400-11740
Mtr. No.:			

Smpl Date: 06/10/2021
Test Date: 06/17/2021
Run No: MS2021201

Nitrogen: 1.6476
CO2: 0.0488
Methane: 82.1218
Ethane: 7.6716
Propane: 4.9517
I-Butane: 1.1988
N-Butane: 1.2236
I-Pentane: 0.4418
N-Pentane: 0.2407
Hexane+: 0.4536

BTU: 1226.8
GPM: 18.8160
SPG: 0.7093

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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 34294

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 34294
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	only gas analysis on production casing	8/3/2021