GAS ANALYSIS SERVICE

Well Name: MCCORD 7E BHD
API #: 9392001
Source: BRADENHEAD
Sample Type: GAS

Analysis No: CM2021007
Cust No: 18200-10945

Well/Lease Information

Customer Name:	COLEMAN OIL AND GAS INC.	Source:	BRADENHEAD
Well Name:	MCCORD 7E BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	164 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	95 DEG. F
Formation:	SURFACE	Flow Rate:	MCF/D
Cust. Stn. No.:	9392001	Sample Method:	Purge & Fill
		Sample Date:	08/11/2021
		Sample Time:	3.58 PM
		Sampled By:	BRUCE TAYLOR
Heat Trace:	N	Sampled by (CO):	VERN ANDREWS
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5360	0.5367	0.0590	0.00	0.0052
CO2	1.4744	1.4763	0.2520	0.00	0.0224
Methane	79.9735	80.0793	13.6020	807.73	0.4430
Ethane	10.4867	10.5006	2.8140	185.58	0.1089
Propane	4.6206	4.6267	1.2770	116.26	0.0703
Iso-Butane	0.6753	0.6762	0.2220	21.96	0.0136
N-Butane	1.1550	1.1565	0.3650	37.68	0.0232
I-Pentane	0.3733	0.3738	0.1370	14.94	0.0093
N-Pentane	0.3248	0.3252	0.1180	13.02	0.0081
Hexane Plus	0.3804	0.3809	0.1700	20.05	0.0126
Total	100.0000	100.1322	19.0160	1217.22	0.7165

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0035	CYLINDER #:	6070
BTU/CU.FT IDEAL:	1220.0	CYLINDER PRESSURE:	151 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1224.2	ANALYIS DATE:	08/21/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1202.9	ANALYIS TIME:	09:46:08 AM
DRY BTU @ 15.025:	1248.7	ANALYSIS RUN BY:	SEAN CASAUS
REAL SPECIFIC GRAVITY:	0.7186		

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: 08/26/2021**
GC Method: C6+ Gas

Well Name: MCCORD 7E CSG
API #: 9392001
Source: CASING
Sample Type: GAS

Analysis No: CM2021008
Cust No: 18200-10950

Well/Lease Information

Customer Name:	COLEMAN OIL AND GAS INC.	Source:	CASING
Well Name:	MCCORD 7E CSG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	352 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	95 DEG. F
Formation:	BASIN DAKOTA	Flow Rate:	MCF/D
Cust. Stn. No.:	9392001	Sample Method:	Purge & Fill
		Sample Date:	08/11/2021
		Sample Time:	3.52 PM
		Sampled By:	BRUCE TAYLOR
Heat Trace:	N	Sampled by (CO):	COLEMAN
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5226	0.5229	0.0580	0.00	0.0051
CO2	1.4724	1.4732	0.2520	0.00	0.0224
Methane	79.9606	80.0018	13.6000	807.60	0.4429
Ethane	10.4757	10.4811	2.8110	185.39	0.1088
Propane	4.5989	4.6013	1.2710	115.71	0.0700
Iso-Butane	0.6783	0.6787	0.2230	22.06	0.0136
N-Butane	1.1650	1.1656	0.3680	38.01	0.0234
I-Pentane	0.3778	0.3780	0.1390	15.12	0.0094
N-Pentane	0.3297	0.3299	0.1200	13.22	0.0082
Hexane Plus	0.4190	0.4192	0.1870	22.09	0.0139
Total	100.0000	100.0517	19.0290	1219.18	0.7176

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0035	CYLINDER #:	7014
BTU/CU.FT IDEAL:	1222.0	CYLINDER PRESSURE:	334 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1226.3	ANALYIS DATE:	08/21/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1205.0	ANALYIS TIME:	09:27:37 AM
DRY BTU @ 15.025:	1250.9	ANALYSIS RUN BY:	SEAN CASAUS
REAL SPECIFIC GRAVITY:	0.7198		

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: 08/26/2021**
GC Method: C6+ Gas

Well Name: MCCORD 7E BHD
API #: 9392001
Source: BRADENHEAD
Sample Type: GAS

Analysis No: CM2021007
Cust No: 18200-10945

Well/Lease Information

Customer Name:	COLEMAN OIL AND GAS INC.	Source:	BRADENHEAD
Well Name:	MCCORD 7E BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	164 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	95 DEG. F
Formation:	SURFACE	Flow Rate:	MCF/D
Cust. Stn. No.:	9392001	Sample Method:	Purge & Fill
		Sample Date:	08/11/2021
		Sample Time:	3.58 PM
		Sampled By:	BRUCE TAYLOR
Heat Trace:	N	Sampled by (CO):	VERN ANDREWS
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5360	0.5367	0.0590	0.00	0.0052
CO2	1.4744	1.4763	0.2520	0.00	0.0224
Methane	79.9735	80.0793	13.6020	807.73	0.4430
Ethane	10.4867	10.5006	2.8140	185.58	0.1089
Propane	4.6206	4.6267	1.2770	116.26	0.0703
Iso-Butane	0.6753	0.6762	0.2220	21.96	0.0136
N-Butane	1.1550	1.1565	0.3650	37.68	0.0232
I-Pentane	0.3733	0.3738	0.1370	14.94	0.0093
N-Pentane	0.3248	0.3252	0.1180	13.02	0.0081
Hexane Plus	0.3804	0.3809	0.1700	20.05	0.0126
Total	100.0000	100.1322	19.0160	1217.22	0.7165

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0035	CYLINDER #:	6070
BTU/CU.FT IDEAL:	1220.0	CYLINDER PRESSURE:	151 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1224.2	ANALYIS DATE:	08/21/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1202.9	ANALYIS TIME:	09:46:08 AM
DRY BTU @ 15.025:	1248.7	ANALYSIS RUN BY:	SEAN CASAUS
REAL SPECIFIC GRAVITY:	0.7186		

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: 08/26/2021**
GC Method: C6+ Gas

Well Name: MCCORD #7E; TBG
API #:
Source: TUBING
Sample Type: GAS

Analysis No: CM2021009
Cust No: 18200-11060

Well/Lease Information

Customer Name:	COLEMAN OIL AND GAS INC.	Source:	TUBING
Well Name:	MCCORD #7E; TBG	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	352 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	95 DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:		Sample Method:	Purge & Fill
		Sample Date:	08/11/2021
		Sample Time:	4.03 PM
		Sampled By:	BRUCE TAYLOR
Heat Trace:	N	Sampled by (CO):	COLEMAN
Remarks:			

Analysis

Component::	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5575	0.5561	0.0620	0.00	0.0054
CO2	1.4644	1.4608	0.2510	0.00	0.0223
Methane	80.8746	80.6768	13.7520	816.83	0.4480
Ethane	10.4730	10.4474	2.8090	185.34	0.1087
Propane	4.3192	4.3086	1.1940	108.68	0.0658
Iso-Butane	0.5733	0.5719	0.1880	18.64	0.0115
N-Butane	0.9376	0.9353	0.2960	30.59	0.0188
I-Pentane	0.2362	0.2356	0.0870	9.45	0.0059
N-Pentane	0.1898	0.1893	0.0690	7.61	0.0047
Hexane Plus	0.3744	0.3735	0.1670	19.73	0.0124
Total	100.0000	99.7553	18.8750	1196.87	0.7034

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0033	CYLINDER #:	4187
BTU/CU.FT IDEAL:	1199.6	CYLINDER PRESSURE:	339 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1203.6	ANALYIS DATE:	08/21/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1182.7	ANALYIS TIME:	10:34:26 AM
DRY BTU @ 15.025:	1227.7	ANALYSIS RUN BY:	SEAN CASAUS
REAL SPECIFIC GRAVITY:	0.7055		

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: 08/26/2021**
GC Method: C6+ Gas

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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 66749

CONDITIONS

Operator: COLEMAN OIL & GAS INC P.O. Drawer 3337 Farmington, NM 87499	OGRID: 4838
	Action Number: 66749
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	12/20/2021