



Well Name: FEDERAL I #1; TBG

API #:

Source: TUBING

Sample Type: GAS

Analysis No: PH2021003

Cust No: 62300-10075

Well/Lease Information

Customer Name: PHOENIX HYDROCARBONS

Well Name: FEDERAL I #1; TBG

County/State:

Location:

Lease/PA/CA:

Formation:

Cust. Stn. No.:

Source: TUBING

Well Flowing:

Pressure: 89 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method:

Sample Date: 06/11/2021

Sample Time: 9.11 AM

Sampled By: CODY PARIS

Sampled by (CO): WALSH

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4831	0.4852	0.0530	0.00	0.0047
CO2	0.5311	0.5334	0.0910	0.00	0.0081
Methane	72.5447	72.8631	12.3490	732.70	0.4018
Ethane	13.9523	14.0135	3.7470	246.91	0.1449
Propane	7.3856	7.4180	2.0430	185.83	0.1124
Iso-Butane	1.2548	1.2603	0.4120	40.80	0.0252
N-Butane	1.8948	1.9031	0.6000	61.81	0.0380
I-Pentane	0.6145	0.6172	0.2260	24.59	0.0153
N-Pentane	0.4410	0.4429	0.1610	17.68	0.0110
Hexane Plus	0.8981	0.9020	0.4020	47.34	0.0297
Total	100.0000	100.4387	20.0840	1357.67	0.7911

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0044
 BTU/CU.FT IDEAL: 1360.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1366.8
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1343.0
 DRY BTU @ 15.025: 1394.2
 REAL SPECIFIC GRAVITY: 0.7943

CYLINDER #: 4171
 CYLINDER PRESSURE: 89 PSIG
 ANALYSIS DATE: 06/17/2021
 ANALYSIS TIME: 11:35:16 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: 06/17/2022

GC Method: C6+ Gas



PHOENIX HYDROCARBONS
WELL ANALYSIS COMPARISON

Lease: FEDERAL I #1; TBG
Stn. No.:
Mtr. No.:

TUBING

06/17/2022
62300-10075

Smpl Date: 06/11/2021
Test Date: 06/17/2021
Run No: PH2021003
Nitrogen: 0.4831
CO2: 0.5311
Methane: 72.5447
Ethane: 13.9523
Propane: 7.3856
I-Butane: 1.2548
N-Butane: 1.8948
I-Pentane: 0.6145
N-Pentane: 0.4410
Hexane+: 0.8981
BTU: 1366.8
GPM: 20.0840
SPG: 0.7943



Well Name: FEDERAL I #1; CSG

API #:

Source: CASING

Sample Type: GAS

Analysis No: PH2021002

Cust No: 62300-10070

Well/Lease Information

Customer Name: PHOENIX HYDROCARBONS

Well Name: FEDERAL I #1; CSG

County/State:

Location:

Lease/PA/CA:

Formation:

Cust. Str. No.:

Source: CASING

Well Flowing:

Pressure: 77 PSIG

Flow Temp: DEG. F

Ambient Temp: DEG. F

Flow Rate: MCF/D

Sample Method:

Sample Date: 06/11/2021

Sample Time: 9.16 AM

Sampled By: CODY PARIS

Sampled by (CO): WALSH

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4423	0.4383	0.0490	0.00	0.0043
CO2	0.5479	0.5430	0.0940	0.00	0.0083
Methane	71.5906	70.9443	12.1900	723.07	0.3965
Ethane	14.0093	13.8829	3.7630	247.92	0.1454
Propane	8.0205	7.9481	2.2190	201.80	0.1221
Iso-Butane	1.2871	1.2755	0.4230	41.86	0.0258
N-Butane	2.0548	2.0363	0.6510	67.03	0.0412
I-Pentane	0.5976	0.5922	0.2200	23.91	0.0149
N-Pentane	0.4504	0.4463	0.1640	18.06	0.0112
Hexane Plus	0.9995	0.9905	0.4480	52.68	0.0331
Total	100.0000	99.0974	20.2210	1376.33	0.8030

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0046
 BTU/CU.FT IDEAL: 1379.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1385.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1361.8
 DRY BTU @ 15.025: 1413.7
 REAL SPECIFIC GRAVITY: 0.8063

CYLINDER #: 6029
 CYLINDER PRESSURE: 76 PSIG
 ANALYSIS DATE: 06/17/2021
 ANALYSIS TIME: 11:42:17 AM
 ANALYSIS RUN BY: SHYANN GALLEGOS

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: 06/17/2022

GC Method: C6+ Gas



PHOENIX HYDROCARBONS
WELL ANALYSIS COMPARISON

Lease: FEDERAL I #1; CSG
Stn. No.:
Mtr. No.:

CASING

06/17/2022
62300-10070

Smpl Date: 06/11/2021
Test Date: 06/17/2021
Run No: PH2021002
Nitrogen: 0.4423
CO2: 0.5479
Methane: 71.5906
Ethane: 14.0093
Propane: 8.0205
I-Butane: 1.2871
N-Butane: 2.0548
I-Pentane: 0.5976
N-Pentane: 0.4504
Hexane+: 0.9995
BTU: 1385.9
GPM: 20.2210
SPG: 0.8063



Well Name: FEDERAL I #1; BHD
 API #:
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: PH2021001
 Cust No: 62300-10065

Well/Lease Information

Customer Name: PHOENIX HYDROCARBONS	Source: BRADENHEAD
Well Name: FEDERAL I #1; BHD	Well Flowing:
County/State:	Pressure: 481 PSIG
Location:	Flow Temp: DEG. F
Lease/PA/CA:	Ambient Temp: DEG. F
Formation:	Flow Rate: MCF/D
Cust. Str. No.:	Sample Method:
	Sample Date: 06/11/2021
	Sample Time: 9.23 AM
	Sampled By: CODY PARIS
	Sampled by (CO): WALSH

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.0760	1.0669	0.1190	0.00	0.0104
CO2	0.2677	0.2654	0.0460	0.00	0.0041
Methane	88.0851	87.3395	14.9710	889.66	0.4879
Ethane	6.0784	6.0269	1.6300	107.57	0.0631
Propane	2.7246	2.7015	0.7530	68.55	0.0415
Iso-Butane	0.3763	0.3731	0.1230	12.24	0.0076
N-Butane	0.7179	0.7118	0.2270	23.42	0.0144
I-Pentane	0.2374	0.2354	0.0870	9.50	0.0059
N-Pentane	0.1475	0.1463	0.0540	5.91	0.0037
Hexane Plus	0.2891	0.2867	0.1290	15.24	0.0096
Total	100.0000	99.1535	18.1390	1132.09	0.6481

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	4245
BTU/CU.FT IDEAL:	1134.7	CYLINDER PRESSURE:	441 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1137.9	ANALYSIS DATE:	06/17/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1118.1	ANALYSIS TIME:	11:22:38 AM
DRY BTU @ 15.025:	1160.7	ANALYSIS RUN BY:	RICHARD WILSON
REAL SPECIFIC GRAVITY:	0.6496		

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: 06/17/2022

GC Method: C6+ Gas



PHOENIX HYDROCARBONS
WELL ANALYSIS COMPARISON

Lease: FEDERAL I #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

06/17/2022
62300-10065

Smpl Date: 06/11/2021
Test Date: 06/17/2021
Run No: PH2021001

Nitrogen: 1.0760
CO2: 0.2677
Methane: 88.0851
Ethane: 6.0784
Propane: 2.7246
I-Butane: 0.3763
N-Butane: 0.7179
I-Pentane: 0.2374
N-Pentane: 0.1475
Hexane+: 0.2891

BTU: 1137.9
GPM: 18.1390
SPG: 0.6496

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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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 155153

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 155153
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	None	1/5/2023