

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NFO Permit

Form C-129
Revised August 1, 2011

Submit one copy to appropriate
District Office

No. _____
(For Division Use Only)

APPLICATION FOR EXCEPTION TO NO-FLARE RULE 19.15.18.12

(See Rule 19.15.18.12 NMAC and Rule 19.15.7.37 NMAC)

A. Applicant: **WPX Energy Production, LLC**

whose address is: **P.O. Box 640, Aztec, NM 87410,**

hereby requests an exception to Rule 19.15.18.12 until **1/7/18**, for the following described tank battery (or LACT):

Name of Lease: **W Lybrook Unit 752H** API: **30-045-35805** Name of Pool: **Lybrook Mancos W**

Location of Battery: Unit Letter **F** Section **13** Township **23N** Range **9W**

Number of wells producing into battery **6**

B. Based upon oil production of **353** barrels per day, the estimated volume of gas to be flared is **254 MCF/D**; Value: **\$775** per day.

C. Name and location of nearest gas gathering facility:

Williams Field Service, H-28, Sec 33 T24N, R8W

D. Distance **BUILT** Estimated cost of connection

E. This exception is requested for the following reasons: **Flare extension continued**

The Frac activity on W. Lybrook Unit 716H - 718H- 719H- 753H-754H- 755H caused High Nitrogen and CO2 content level on **W. Lybrook Unit 752H**.

WPX Energy request to continue flaring for an additional 30 days from the current expiration date of **12/7/2017**, due to the results above Williams pipeline standards, per the attached gas analysis.

OIL CONS. DIV DIST. 3
DEC 04 2017

OPERATOR

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature Marie E Florez

Printed Name & Title: **Marie E Florez** Permit Tech

E-mail Address: **marie.jaramillo@wpxenergy.com**

Date: **11/30/17** Telephone No. **(505) 333-1808**

OIL CONSERVATION DIVISION

Approved Until **1-7-2018**

By Chad Ben

Title **SUPERVISOR DISTRICT #3**

Date **12-4-17**

* Gas-Oil ratio test may be required to verify estimated gas volume. **Ar**



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: WP170221
Cust No: 85500-13305

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: 716H WLU #716H;MTR
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: METER RUN
Well Flowing: Y
Pressure: 132 PSIG
Flow Temp: 80 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 571 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/27/2017
Sample Time: 3.10 PM
Sampled By: JAMES MILLER
Sampled by (CO): IDEAL COMPLETIONS

Remarks: RAN 11/28/2017

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	32.6329	33.0607	3.6000	0.00	0.3156
CO2	0.2506	0.2539	0.0430	0.00	0.0038
Methane	45.6644	46.2631	7.7620	461.21	0.2529
Ethane	8.5619	8.6742	2.2960	151.52	0.0889
Propane	8.4230	8.5334	2.3270	211.93	0.1282
Iso-Butane	0.9363	0.9486	0.3070	30.45	0.0188
N-Butane	2.3346	2.3652	0.7380	76.16	0.0469
I-Pentane	0.4122	0.4176	0.1510	16.49	0.0103
N-Pentane	0.3818	0.3868	0.1390	15.31	0.0095
Hexane Plus	0.4023	0.4076	0.1800	21.21	0.0133
Total	100.0000	101.3111	17.5430	984.27	0.8882

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 986.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 989.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 972.2
DRY BTU @ 15.025: 1009.2
REAL SPECIFIC GRAVITY: 0.8905

CYLINDER #: 18
CYLINDER PRESSURE: 134 PSIG
DATE RUN: 11/27/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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: 11/28/2017

GC Method: C6+ Gas



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: WP170222
Cust No: 85500-13310

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: 718H WLU #716H;MTR
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: METER RUN
Well Flowing:
Pressure: 171 PSIG
Flow Temp: 98 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 2145 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/27/2017
Sample Time: 3.17 PM
Sampled By: JAMES MILLER
Sampled by (CO): IDEAL COMPLETIONS

Remarks: RAN 11/28/2017

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	77.9320	76.6238	8.5800	0.00	0.7538
CO2	0.1359	0.1336	0.0230	0.00	0.0021
Methane	14.3172	14.0769	2.4290	144.60	0.0793
Ethane	2.4150	2.3745	0.6460	42.74	0.0251
Propane	2.6793	2.6343	0.7390	67.41	0.0408
Iso-Butane	0.3570	0.3510	0.1170	11.61	0.0072
N-Butane	1.1266	1.1077	0.3550	36.75	0.0226
I-Pentane	0.2821	0.2774	0.1030	11.29	0.0070
N-Pentane	0.2986	0.2936	0.1080	11.97	0.0074
Hexane Plus	0.4563	0.4486	0.2040	24.05	0.0151
Total	100.0000	98.3214	13.3040	350.43	0.9603

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.001
BTU/CU.FT IDEAL: 351.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 351.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 345.5
DRY BTU @ 15.025: 358.6
REAL SPECIFIC GRAVITY: 0.9609

CYLINDER #: 5
CYLINDER PRESSURE: 162 PSIG
DATE RUN: 11/27/17 3:17 PM
ANALYSIS RUN BY: PATRICIA KING

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: 11/28/2017

GC Method: C6+ Gas



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: WP170223
Cust No: 85500-13315

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: 719H WLU # 716H;MTR
County/State: SAN JAUN NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: METER RUN
Well Flowing: Y
Pressure: 126 PSIG
Flow Temp: 84 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 756 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/27/2017
Sample Time: 3.07 PM
Sampled By: JAMES MILLER
Sampled by (CO): IDEAL COMPLETIONS

Remarks: RAN 11/28/2017. SAMPLE CONTAINED SMALL AMOUNT OF CONDENSATE

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	30.8606	31.2967	3.4050	0.00	0.2985
CO2	0.2994	0.3036	0.0510	0.00	0.0045
Methane	47.3781	48.0478	8.0540	478.52	0.2624
Ethane	8.1816	8.2972	2.1940	144.79	0.0849
Propane	8.5000	8.6201	2.3480	213.87	0.1294
Iso-Butane	0.9992	1.0133	0.3280	32.49	0.0201
N-Butane	2.4774	2.5124	0.7830	80.82	0.0497
I-Pentane	0.4415	0.4477	0.1620	17.66	0.0110
N-Pentane	0.4054	0.4111	0.1470	16.25	0.0101
Hexane Plus	0.4568	0.4633	0.2040	24.08	0.0151
Total	100.0000	101.4132	17.6760	1008.48	0.8858

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1010.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1013.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 996.3
DRY BTU @ 15.025: 1034.2
REAL SPECIFIC GRAVITY: 0.8881

CYLINDER #: 17
CYLINDER PRESSURE: 126 PSIG
DATE RUN: 11/27/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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: 11/28/2017

GC Method: C6+ Gas



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: WP170224
Cust No: 85500-13320

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: 753H WLU #716H;MTR
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Str. No.:

Source: METER RUN
Well Flowing: Y
Pressure: 140 PSIG
Flow Temp: 88 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 1201 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/27/2017
Sample Time: 2.55 PM
Sampled By: JAMES MILLER
Sampled by (CO): IDEAL COMPLETION

Remarks: RAN 11/28/2017

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	36.8783	37.3011	4.0680	0.00	0.3567
CO2	0.2958	0.2992	0.0510	0.00	0.0045
Methane	41.8332	42.3129	7.1110	422.52	0.2317
Ethane	6.8800	6.9589	1.8450	121.76	0.0714
Propane	8.1432	8.2366	2.2500	204.89	0.1240
Iso-Butane	1.1115	1.1242	0.3650	36.14	0.0223
N-Butane	2.6912	2.7221	0.8510	87.80	0.0540
I-Pentane	0.5887	0.5954	0.2160	23.55	0.0147
N-Pentane	0.5688	0.5753	0.2070	22.80	0.0142
Hexane Plus	1.0093	1.0209	0.4510	53.20	0.0334
Total	100.0000	101.1466	17.4150	972.66	0.9269

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 974.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 977.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 960.8
DRY BTU @ 15.025: 997.4
REAL SPECIFIC GRAVITY: 0.9293

CYLINDER #: 30
CYLINDER PRESSURE: 77 PSIG
DATE RUN: 11/27/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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: 11/28/2017

GC Method: C6+ Gas



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: WP170225
Cust No: 85500-13325

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: 754H WLU #716H;MTR
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: METER RUN
Well Flowing: Y
Pressure: 125 PSIG
Flow Temp: 92 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 733 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/27/2017
Sample Time: 2.50 PM
Sampled By: WILLY JONES
Sampled by (CO): IDEAL CPMPLTION

Remarks: RAN 11/28/2017

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	57.3035	57.4908	6.3150	0.00	0.5542
CO2	0.2938	0.2948	0.0500	0.00	0.0045
Methane	27.5686	27.6587	4.6810	278.44	0.1527
Ethane	4.3707	4.3850	1.1710	77.35	0.0454
Propane	6.0132	6.0329	1.6590	151.30	0.0916
Iso-Butane	0.8669	0.8697	0.2840	28.19	0.0174
N-Butane	2.1179	2.1248	0.6690	69.09	0.0425
I-Pentane	0.4597	0.4612	0.1680	18.39	0.0115
N-Pentane	0.4257	0.4271	0.1550	17.07	0.0106
Hexane Plus	0.5800	0.5819	0.2590	30.57	0.0192
Total	100.0000	100.3269	15.4110	670.40	0.9495

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 672.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 673.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 661.5
DRY BTU @ 15.025: 686.7
REAL SPECIFIC GRAVITY: 0.9509

CYLINDER #: 16
CYLINDER PRESSURE: 121 PSIG
DATE RUN: 11/27/17 2:50 PM
ANALYSIS RUN BY: PATRICIA KING

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: 11/28/2017

GC Method: C6+ Gas



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: WP170226
Cust No: 85500-13330

Well/Lease Information

Customer Name: WPX ENERGY PRODUCTION, LLC
Well Name: 755H WLU #716H;MTR
County/State: SAN JUAN NM
Location:
Field:
Formation:
Cust. Stn. No.:

Source: METER RUN
Well Flowing: Y
Pressure: 140 PSIG
Flow Temp: 83 DEG. F
Ambient Temp: 65 DEG. F
Flow Rate: 386 MCF/D
Sample Method: Purge & Fill
Date Sampled: 11/27/2017
Sample Time: 2.49 PM
Sampled By: JAMES MILLER
Sampled by (CO):

Remarks: RAN 11/28/2017. SAMPLE CONTAINED A SMALL AMOUNT OF CONDENSATE,

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	22.3117	22.5449	2.4630	0.00	0.2158
CO2	0.3261	0.3295	0.0560	0.00	0.0050
Methane	54.2193	54.7860	9.2220	547.61	0.3003
Ethane	8.7012	8.7921	2.3350	153.99	0.0903
Propane	9.3301	9.4276	2.5790	234.75	0.1421
Iso-Butane	1.1306	1.1424	0.3710	36.77	0.0227
N-Butane	2.5244	2.5508	0.7980	82.35	0.0507
I-Pentane	0.4474	0.4521	0.1640	17.90	0.0111
N-Pentane	0.3987	0.4029	0.1450	15.98	0.0099
Hexane Plus	0.6105	0.6169	0.2730	32.18	0.0202
Total	100.0000	101.0452	18.4060	1121.54	0.8681

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0035
BTU/CU.FT IDEAL: 1124.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1128.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1108.5
DRY BTU @ 15.025: 1150.7
REAL SPECIFIC GRAVITY: 0.8708

CYLINDER #:
CYLINDER PRESSURE: 131 PSIG
DATE RUN: 11/27/17 12:00 AM
ANALYSIS RUN BY: PATRICIA KING

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: 11/28/2017

GC Method: C6+ Gas