



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, June 27, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for VANECK 1215 S-11H
47-041-05741-00-00

Lateral revisions

HG ENERGY II APPALACHIA, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: VANECK 1215 S-11H
Farm Name: HG ENERGY II, APPALACHIA, LLC, ET AL
U.S. WELL NUMBER: 47-041-05741-00-00
Horizontal 6A New Drill
Date Modification Issued: 6/27/2023

Promoting a healthy environment.

06/30/2023

*Expedited
Mod*

*CK # 036128
Date: 6/1/23
\$ 5,000.00*

API NO. 47- _____ - _____
OPERATOR WELL NO. Vaneck 1215 S-11H
Well Pad Name: Vaneck 1215

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: HG Energy II Appalachia, LLC 494519932 Lewis Freeman Camden 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Vaneck 1215 S-11H Well Pad Name: Vaneck 1215

3) Farm Name/Surface Owner: HG Energy II Appalachia, LLC Public Road Access: Mare Run Rd at CR 10 / 9

4) Elevation, current ground: 1259' Elevation, proposed post-construction: 1254.8'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 7015'/7088' and 73' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 7,043'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 31,949'

11) Proposed Horizontal Leg Length: 23,821'

12) Approximate Fresh Water Strata Depths: 60', 214', 600', 861'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-02173, 0693, 0236, 2308, 0578)

14) Approximate Saltwater Depths: 1605'

15) Approximate Coal Seam Depths: 272', 700', 1040', 1150' (Surface casing is being extended to cover the coal in the DTI Field)

16) Approximate Depth to Possible Void (coal mine, karst, other): None

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	New	LS	157.5	120'	120'	CTS
Fresh Water/Coal	20"	NEW	J-55	94	1200'	1200'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2250'	2250'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N-80 BTC	40	6045'	6045'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	31949'	31949'	20% Excess Tail, CTS
Tubing							
Liners							

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds, email = Kenneth.Greynolds@wv.gov, c = AD, o = WVCEP/OU = Oil and Gas
 Date: 2023.05.31 08:36:03 -0400

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				Drilled In
Fresh Water/Coal	20"	26"	.438	2110	1200	Type 1, Class A	40 % excess yield = 1.20, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	Lead 40% excess, Tail 0% excess
Intermediate 2	9 5/8"	12 1/4"	.395	5750		Type 1/Class A	Lead 40% excess, Tail 0% Excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	20% excess yield = 1.19, tail yield 1.24
Tubing							
Liners							

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Kind:				
Sizes:				
Depths Set:				

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 7043'. Drill horizontal leg to estimated 23,821' lateral length, 31,949' TMD. Hydraulically fracture, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface. We plan to run an ACP above the Gantz/Dominion Storage interval to aid in sealing off and isolating the storage interval.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.55 acres

22) Area to be disturbed for well pad only, less access road (acres): 8.70 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing
Freshwater/Coal - centralizers every 3 joints to surface
Intermediate 1 - Bow Spring on every joint, will also be running ACP for isolating storage zone
Intermediate 2 - Bow Spring on first 2 joints then every third joint to 100' from surface
Production - Vertical - Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Curve - Run 1 spiral centralizer every 3 joints from the 1st 5-5' long joint to the top of the curve

24) Describe all cement additives associated with each cement type:

Conductor - IVA. Casing to be drilled in w/ Dual Rotary Rig.
Fresh Water/Coal - 15.8 ppg PNE-1 + 3% bwoc CaClO₄ Excess Yield=1.20 / CTS
Intermediate 1 - *** Storage Slring *** CTS *** 15.4 ppg Lead - Yield 1.24 - DB9E Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB Dispersant / D085 1.5 lb per BBL CemNET - 80% Excess 15.9 ppg Tail - Yield 1.17 - DB9E Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements) B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBlock / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / DB01 - 0.03 gal / sack Retarder - 0% Excess
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaClO₄ Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS
Production - Lead: 14.5 ppg POZ/PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170Tat - 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASG-1 + 0.5% bwoc MPA170Tat + 0.02 gal/sk MPA17020% Excess Lead Yield=1.19 Tail Yield=1.94 CTS

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25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD
Fresh Water/Coal - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Intermediate 1 - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate 2 - Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.
Production - Once on bottom/TD with casing, Circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement

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*Note: Attach additional sheets as needed.

*** Storage String *** CTS ***

15.4 ppg Lead - Yield 1.24 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B348 - 0.5% BWOB Fluid Loss / D013 - 0.75% BWOB Retarder / D47 - 0.02 gal / sack VBWOB Anti Foam / D202 - 0.15% BWOB
 Dispersant / D095 1.5 lb per BBL CemNET* - 60% Excess
 15.9 ppg Tail - Yield 1.17 - D896 Surface Set 100 lb / sack (Mix of Class A and Gypsum to meet Dominion Requirements)
 B160A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLOK* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam /
 D801 - 0.03 gal / sack Retarder - 0% Excess

1215 S-11H
 Marcellus Shale Horizontal
 Lewis County, WV

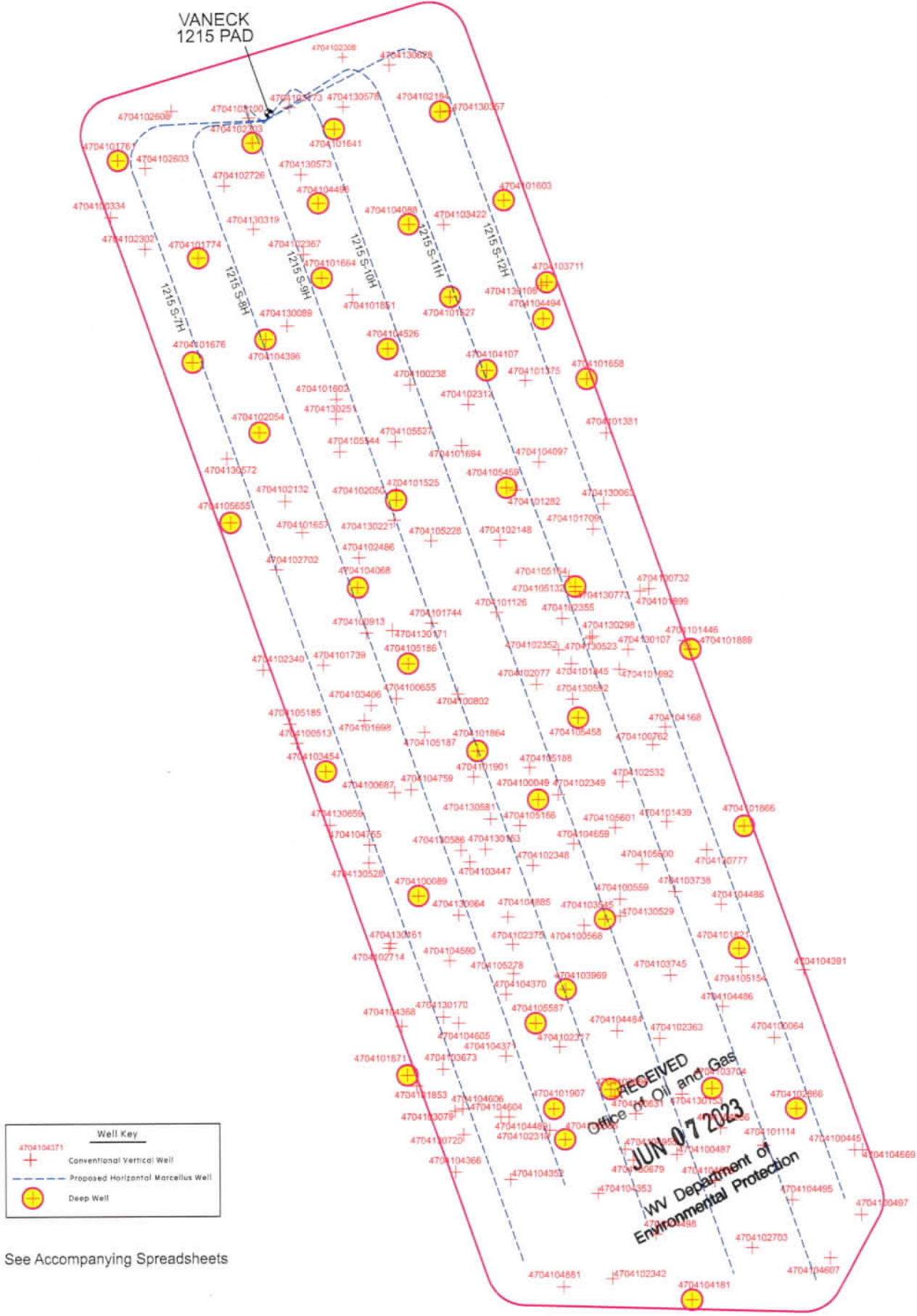


Ground Elevation		1215 S-11H SHL					14205329.15N 1768481.71E				
Azm		1215 S-11H LP					14205324.15N 1770866.63E				
WELLBORE DIAGRAM		1215 S-11H BHL					14182951.84N 1778997.28E				
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	30"	30" 157.5# LS	Conductor	0	120	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wall thickness	
	26"	20" 94# J-55	Fresh Water	0	214,600,861	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wall thickness Burst=2110 psi	
			Kittanning Coal	900	905						
			Fresh Water Protection	0	1200						
	17.5"	13-3/8" 68# J-55 BTC	Little Lime	1694	1714	AIR / KCL Salt Polymer	See above (LEFT) for Storage String Cement Blend to Meet DTI Requirements for Gas Storage Field Isolation	Bow Spring on every joint *will also be running ACP for isolating storage zone*	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi	
			Big Lime	1741	1818						
			Injun / Giantz (Storage)	1818 / 2073	1904 / 2125						
			Intermediate 1	0	2250						
	12.25"	9-5/8" 40# N-80 BTC	Thirty Foot	2274	2286	AIR / KCL Salt Polymer	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395" wall thickness Burst=5750 psi	
			Gordon Stray / Gordon	2320 / 2346	2336 / 2446						
			5th Sand	2590	2612						
			Bayard	2660	2675						
			Speechley	3287	3301						
			Benson	4599	4615						
			Alexander / Elk	4930 / 5540	5100 / 5600						
Intermediate 2	0	TVD: 5650' MD: 6045' Inc: 36 deg.									
8.5" Lateral	8.5" Curve	5-1/2" 23# P-110 HP CDC HTQ	Rhinestreet	6203	6444	11.5ppg-12.5ppg SOBMB	Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface. Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions	
			Cashaqua	6444	6650						
			Middlesex	6650	6734						
			West River	6734	6831						
			Burkett	6831	6864						
			Tully Limestone	6864	6950						
			Hamilton	6950	6753						
			Marcellus	7015	7088						
			TMD / TVD (Production)	31949	7043						
			Onondaga	7088							

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LP @ 7043' TVD / 8128' MD 8.5" Hole - Cemented Long String +/-23821' ft Lateral TD @ +/-7043' TVD +/-31949' MD

X=Centralizers



DATA SOURCES
WVGES Data Set - 2020; WVDEP Website

Area of Review for:
VANECK 1215 SOUTH UNIT

Proposed 1215 S-7H Proposed 1215 S-8H Proposed 1215 S-9H
Proposed 1215 S-10H Proposed 1215 S-11H Proposed 1215 S-12H

Freeman's Creek District, Lewis County, W.Va.

HG ENERGY, II APPALACHIA, LLC
5260 DuPont Road, Parkersburg, WV 26101



06/30/2023

EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:

VANECK 1215 SOUTH UNIT AND PROPOSED WELLS S-7H, S-8H, S-9H, S-10H, S-11H & S-12H

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100049	Lewis	Alfred Woofter	Dominion Energy Transmission, Inc.	Helderberg	Gas	7325	PLUGGED	39.080348	-80.530425
2	4704100064	Lewis	R H Hall	Diversified Resources, Inc.	Fifth	Gas	2316	ACTIVE	39.067649	-80.514534
3	4704100089	Lewis	J L J Bailey	Diversified Production LLC	Helderberg	Gas	7022	ACTIVE	39.075324	-80.538664
4	4704100238	Lewis	G W Jordan	Dominion Energy Transmission, Inc.	Fifth	Gas	2471	PLUGGED	39.102380	-80.538855
5	4704100334	Lewis	Alice Burnside	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2478	ACTIVE	39.111415	-80.559086
6	4704100445	Lewis	Uriah Rexroad	Lone Pine Operating Co., Inc.	Up Devonian	Gas	2037	ACTIVE	39.061673	-80.509115
7	4704100487	Lewis	A E Wright	Deran Resources, Inc.	Up Devonian	Gas w/ Oil Show	2304	ACTIVE	39.061528	-80.521206
8	4704100497	Lewis	L N Wilfong	Diversified Production LLC	Price Fm & equivs	Gas	1812	ACTIVE	39.058256	-80.508699
9	4704100513	Lewis	J A White	Clem Energy, LLC	Price Fm & equivs	Gas	1410	ACTIVE	39.083465	-80.546827
10	4704100559	Lewis	Florence Wagner et al	Deran Resources, Inc.	Conemaugh Group	Gas	685	ACTIVE	39.075044	-80.524939
11	4704100568	Lewis	Florence Waggoner	Deran Resources, Inc.	Price Fm & equivs	Gas	1623	ACTIVE	39.073670	-80.527386
12	4704100631	Lewis	C M Hall	UNKNOWN	Price Fm & equivs	Dry w/ Gas Show	1666	PLUGGED	39.063703	-80.523997
13	4704100655	Lewis	John White	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas w/ Oil Show	1698	ABANDONED	39.085791	-80.540008
14	4704100687	Lewis	Sarah A Kemper	Consol Gas Co.	Big Injun (Grnbr)	Gas w/ Oil Show	1658	PLUGGED	39.080815	-80.540191
15	4704100732	Lewis	John W Kemper	UNKNOWN	Hampshire Grp	Gas	2370	NEVER DRILLED	39.091447	-80.522704
16	4704100762	Lewis	S A Hall	Clem Energy, LLC	Squaw	Gas w/ Oil Show	1507	ACTIVE	39.083184	-80.522572
17	4704100802	Lewis	Edward Carrell	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1801	ACTIVE	39.085990	-80.535815
18	4704100913	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Gas	1577	ACTIVE	39.089277	-80.542014
19	4704101114	Lewis	Gerald R Wright	Diversified Production LLC	Price Fm & equivs	Gas	1684	ACTIVE	39.061943	80.515336
20	4704101126	Lewis	Bruce/J Carrell/M Bailey	Alliance Petroleum Co. LLC	Price Fm & equivs	Gas	1473	ACTIVE	39.090285	-80.533119
21	4704101282	Lewis	F White	Dominion Energy Transmission, Inc.	Undf PRICE blw INJN	Gas w/ Oil Show	1716	ACTIVE	39.096724	-80.531754
22	4704101375	Lewis	F White	Dominion Energy Transmission, Inc.	Undf PRICE blw INJN	Gas	1649	ACTIVE	39.102532	-80.531000
23	4704101381	Lewis	F White	Eastern Gas Transmission & Storage, Inc.	Price Fm & equivs	Gas	1533	ACTIVE	39.099706	-80.525513
24	4704101439	Lewis	Odie Bailey et al	UNKNOWN	not available	not available	-	PLUGGED	39.079115	-80.521697
25	4704101446	Lewis	S & C Hall	Allegheny Land and Mineral Co.	Undf PRICE blw INJN	Dry w/ Oil Show	1661	PLUGGED	39.088695	-80.520315
26	4704101525	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Gas w/ Oil Show	1942	ACTIVE	39.096753	-80.539858
27	4704101527	Lewis	Edward E Garrell	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4718	ACTIVE	39.106969	-80.536030
28	4704101602	Lewis	F White	Dominion Energy Transmission, Inc.	Benson	Gas	4414	ACTIVE	39.101644	-80.543897
29	4704101603	Lewis	J Kent Burnside	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4670	ACTIVE	39.112060	-80.532288
30	4704101641	Lewis	F White	Dominion Energy Transmission, Inc.	Benson	Gas	4703	ACTIVE	39.115940	-80.543809
31	4704101657	Lewis	Helen H Garrell	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4450	ACTIVE	39.094622	-80.546304
32	4704101658	Lewis	James S Hall	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4532	ACTIVE	39.102559	-80.526798
33	4704101664	Lewis	T T Taylor	Eastern Gas Transmission & Storage, Inc.	Brallier	Gas	4571	ACTIVE	39.108066	-80.544783
34	4704101676	Lewis	Bruce Garrett	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4600	ACTIVE	39.103695	-80.553642
35	4704101692	Lewis	S A & C M Hall	Diversified Production LLC	Benson	Gas	4475	ACTIVE	39.087211	-80.524793
36	4704101694	Lewis	Clark White	Alliance Petroleum Co. LLC	Benson	Gas	4455	ACTIVE	39.099133	-80.535363

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37	4704101698	Lewis	John A White	UNKNOWN	Benson	Dry	4450	PLUGGED	39.084633	-80.542210
38	4704101709	Lewis	James H Hall	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4345	ACTIVE	39.094637	-80.526492
39	4704101739	Lewis	Gerald Hull	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4176	ACTIVE	39.087605	-80.544982
40	4704101744	Lewis	Israel Simmons	Dominion Energy Transmission, Inc.	Misc Sands-BNSN/BRLR	Gas	4375	ACTIVE	39.089762	-80.537573
41	4704101761	Lewis	William Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4760	ACTIVE	39.114437	-80.558559
42	4704101774	Lewis	E W & R M Waggoner	Eastern Gas Transmission & Storage, Inc.	Benson	Gas	4765	ACTIVE	39.109214	-80.553177
43	4704101821	Lewis	R H Hall	Greylock Conventional, LLC	Benson	Gas	4541	ACTIVE	39.072366	-80.516863
44	4704101845	Lewis	J A Kemper	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	2062	ACTIVE	39.087540	-80.528065
45	4704101851	Lewis	T T Taylor	Dominion Energy Transmission, Inc.	Up Devonian	Gas	2548	ACTIVE	39.107144	-80.542702
46	4704101853	Lewis	M L Butcher	UNKNOWN	not available	not available	-	NEVER DRILLED	39.065298	-80.538880
47	4704101864	Lewis	Albert Woofter	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7045	ACTIVE	39.082958	-80.534527
48	4704101866	Lewis	F M McKinley	Clem Energy, LLC	Helderberg	Gas	7325	ACTIVE	39.078844	-80.516421
49	4704101871	Lewis	M L Butcher	Mountain V, LLC	Helderberg	Gas	7104	ACTIVE	39.065841	-80.539537
50	4704101889	Lewis	S A & C M Hall	Mountain V, LLC	Helderberg	Gas w/ Oil Show	7140	ACTIVE	39.088230	-80.519941
51	4704101899	Lewis	Charles Kemper	Clem Energy, LLC	Benson	Gas	4443	ACTIVE	39.091320	-80.523335
52	4704101901	Lewis	Alfred Woofter	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1650	ACTIVE	39.081599	-80.534810
53	4704101907	Lewis	Harvey Hall	Eastern Gas Transmission & Storage, Inc.	Helderberg	Gas w/ Oil Show	7206	PLUGGED	39.063990	-80.529565
54	4704102050	Lewis	Israel Simmons	Alliance Petroleum Co. LLC	Benson	Gas	4775	ACTIVE	39.096272	-80.539878
55	4704102054	Lewis	Israel Simmons	Diversified Production LLC	Benson	Gas	4670	ABANDONED	39.099940	-80.549132
56	4704102077	Lewis	A T Simmons	Ross & Wharton Gas Co., Inc.	Benson	Gas	4324	ACTIVE	39.086449	-80.530455
57	4704102132	Lewis	A C Simmons	Mike Ross, Inc.	Bayard	Gas	2575	ACTIVE	39.096272	-80.547464
58	4704102148	Lewis	J B Snyder	Alliance Petroleum Co. LLC	Benson	Gas	4420	ACTIVE	39.094083	-80.532822
59	4704102184	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	Benson	Gas	4848	ACTIVE	39.116787	-80.536540
60	4704102302	Lewis	M Halterman	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Gas	2420	ACTIVE	39.109733	-80.556808
61	4704102303	Lewis	Orpha D Waggoner	Dominion Energy Transmission, Inc.	Benson	Oil and Gas	4777	ACTIVE	39.115272	-80.549369
62	4704102308	Lewis	F Riley	Eastern Gas Transmission & Storage, Inc.	Gordon	Gas	2393	ACTIVE	39.119733	-80.543167
63	4704102312	Lewis	C White	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.101284	-80.534893
64	4704102317	Lewis	C Flesher	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2243	ACTIVE	39.067267	-80.529123
65	4704102318	Lewis	C Flesher	Diversified Production LLC	Hampshire Grp	Gas	2261	ACTIVE	39.062863	-80.529881
66	4704102340	Lewis	I Simmons	Eastern Gas Transmission & Storage, Inc.	not available	Gas	-	ACTIVE	39.087382	-80.549064
67	4704102342	Lewis	W Waggy	Diversified Production LLC	not available	not available	-	ACTIVE	39.055002	-80.525668
68	4704102348	Lewis	A Woofter	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.076895	-80.530846
69	4704102349	Lewis	A Woofter	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.080604	-80.529038
70	4704102352	Lewis	E Hall	Diversified Production LLC	not available	not available	-	ABANDONED	39.088272	-80.528906
71	4704102355	Lewis	C Robinson	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.089927	-80.528642
72	4704102363	Lewis	M Losh	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.067651	-80.522328
73	4704102367	Lewis	T T Taylor	Dominion Energy Transmission, Inc.	Gordon	Gas	2322	ACTIVE	39.109335	-80.546012
74	4704102375	Lewis	J Bailey	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2434	ACTIVE	39.072712	-80.532273
75	4704102486	Lewis	Helen Garrett	Dominion Energy Transmission, Inc.	Balltown	Gas	3535	ACTIVE	39.093256	-80.542467
76	4704102532	Lewis	M Fultinear	Alliance Petroleum Co. LLC	Benson	Gas	4496	ACTIVE	39.081256	-80.524657

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77	4704102603	Lewis	W Burnside	Eastern Gas Transmission & Storage, Inc.	not available	Storage	-	ACTIVE	39.114018	-80.556711
78	4704102608	Lewis	G W Waggoner	Eastern Gas Transmission & Storage, Inc.	Hampshire Grp	Storage	2296	ACTIVE	39.117018	-80.554880
79	4704102702	Lewis	Israel Simmons	UNKNOWN	Gantz	Gas	2265	ABANDONED	39.092671	-80.548089
80	4704102703	Lewis	M M Peterson	Diversified Production LLC	Big Injun (Grnbr)	Gas	1950	ACTIVE	39.056581	-80.516147
81	4704102714	Lewis	W J Bailey	Diversified Production LLC	Gordon	Gas	2305	ACTIVE	39.072570	-80.540695
82	4704102726	Lewis	E W Wagonner	Consolidated Gas Supply Corp.	Hampshire Grp	Gas	2435	PLUGGED	39.113030	-80.551358
83	4704102866	Lewis	Uriah Rexroad	Petroleum Service Partners, Inc.	Greenland Gap Fm	Oil and Gas	4648	ACTIVE	39.063878	-80.513079
84	4704103079	Lewis	M L Butcher	Red Gas Co.	not available	Gas	-	ACTIVE	39.063922	-80.536298
85	4704103100	Lewis	Marjorie Hyatt	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Oil w/ Gas Show	2075	ACTIVE	39.116597	-80.549618
86	4704103173	Lewis	Orpha Waggoner	Consolidated Gas Supply Corp.	Big Injun (Grnbr)	Dry	2089	PLUGGED	39.117125	-80.546833
87	4704103406	Lewis	R Hall/D Fisher	Mountain V, LLC	Benson	Gas	4431	ACTIVE	39.085428	-80.541750
88	4704103422	Lewis	J Kent Burside	Dominion Energy Transmission, Inc.	Hampshire Grp	Oil and Gas	2930	ACTIVE	39.110813	-80.536431
89	4704103447	Lewis	Nellie B Rohr	Mineral Resource Management, LLC	Benson	Gas	4326	ACTIVE	39.077104	-80.535130
90	4704103454	Lewis	Fisher et al	Mountain V, LLC	Benson	Gas	4602	ACTIVE	39.081958	-80.544873
91	4704103545	Lewis	R & V Cunningham	American Energy Holdings, LLC	Brallier	Gas	5975	ABANDONED	39.073986	-80.525964
92	4704103673	Lewis	James M Sheared	Red Gas Company	Salt Sands (undiff)	Gas	605	ACTIVE	39.066161	-80.537114
93	4704103698	Lewis	Frances/A Marple	Alliance Petroleum Co. LLC	Brallier	Gas	6104	ACTIVE	39.064619	-80.525432
94	4704103704	Lewis	Frances J/Allen Marple	Alliance Petroleum Co. LLC	Brallier	Gas	6225	ACTIVE	39.065008	-80.518789
95	4704103711	Lewis	John L Burnside	Eastern Gas Transmission & Storage, Inc.	Benson	Oil and Gas	4621	ACTIVE	39.107689	-80.529411
96	4704103738	Lewis	Johathon R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3444	ACTIVE	39.075411	-80.521187
97	4704103745	Lewis	Jonathon R Dodson	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3626	ACTIVE	39.070988	-80.521548
98	4704103969	Lewis	Ronald L Cunningham et al	Diversified Resources, Inc.	Alexander	Gas	4912	ABANDONED	39.070294	-80.528681
99	4704104068	Lewis	Helen H Garrett	Enervest Operating, LLC	Greenland Gap Fm	Gas	4605	ACTIVE	39.091674	-80.542559
100	4704104088	Lewis	Margaret Waggoner Hrs	Enervest Operating, LLC	Greenland Gap Fm	Gas	4855	ACTIVE	39.110853	-80.538807
101	4704104097	Lewis	Carroll Gum	Enervest Operating, LLC	Greenland Gap Fm	Gas	4426	ACTIVE	39.098206	-80.530123
102	4704104107	Lewis	Edward E Garrett	Enervest Operating, LLC	Greenland Gap Fm	Gas	4625	ACTIVE	39.103087	-80.533609
103	4704104168	Lewis	Robert D Hall et al	Enervest Operating, LLC	Greenland Gap Fm	Gas	4431	ACTIVE	39.084109	-80.521710
104	4704104181	Lewis	Robert Shearer	Res. Wharton Gas Co., Inc.	Brallier	Gas	5775	ACTIVE	39.053841	-80.520274
105	4704104352	Lewis	Elmer C Cox	Diversified Production LLC	Greenland Gap Fm	Gas	2422	ACTIVE	39.060255	-80.532574
106	4704104353	Lewis	Patrick Boyle	Diversified Production LLC	Greenland Gap Fm	Gas	2636	ACTIVE	39.059497	-80.526600
107	4704104366	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2510	ACTIVE	-80.536308	-1.000000
108	4704104368	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2013	ACTIVE	-80.539887	-1.000000
109	4704104370	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2157	ACTIVE	39.070084	-80.532743
110	4704104371	Lewis	Jay T Shearer	Red Gas Co.	Price Fm & equivs	Gas	2204	ACTIVE	39.066806	-80.532805
111	4704104391	Lewis	Johahan R Dodson	Diversified Production LLC	Greenland Gap Fm	Gas	3475	ACTIVE	39.071205	-80.512484
112	4704104396	Lewis	Kenneth H Heckert	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4604	ACTIVE	39.104854	-80.548657
113	4704104484	Lewis	Simeon A Hall/D Hall hrs	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3655	ACTIVE	39.068072	-80.525221
114	4704104486	Lewis	Jonathan R Dodson	Diversified Production LLC	Greenland Gap Fm	Gas	3568	ACTIVE	39.069314	-80.518032
115	4704104489	Lewis	Elmer Cox Est	Diversified Production LLC	Greenland Gap Fm	Gas	3595	ACTIVE	39.063584	-80.532636
116	4704104494	Lewis	J K Burnside/W Brunside	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	4906	ACTIVE	39.105763	-80.529710

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117	4704104495	Lewis	Kevin Mullooly	Diversified Production LLC	Greenland Gap Fm	Gas	3475	ACTIVE	39.059062	-80.513393
118	4704104496	Lewis	Joseph C Waggoner Sr	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4529	ACTIVE	39.112039	-80.544948
119	4704104498	Lewis	Patrick D Boyle	Diversified Production LLC	Greenland Gap Fm	Gas	3535	ACTIVE	39.057322	-80.522693
120	4704104526	Lewis	Melvin L Davis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4718	ACTIVE	39.104278	-80.540345
121	4704104590	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2651	ACTIVE	39.071881	-80.536584
122	4704104604	Lewis	Jay T Shearer	Red Gas Co.	Hampshire Grp	Gas	2015	ACTIVE	39.063589	-80.533182
123	4704104605	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2560	ACTIVE	39.068574	-80.535996
124	4704104606	Lewis	Jay T Shearer	Red Gas Co.	Greenland Gap Fm	Gas	2440	ACTIVE	39.064041	-80.535779
125	4704104607	Lewis	John & Rita Lydon	Diversified Production LLC	Greenland Gap Fm	Gas	2760	ACTIVE	39.056004	-80.510851
126	4704104650	Lewis	Gerald R Wright	Diversified Production LLC	Greenland Gap Fm	Gas	3497	ACTIVE	39.060098	-80.518680
127	4704104659	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3576	ACTIVE	39.078007	-80.528041
128	4704104669	Lewis	Dodson	Lone Pine Operating Co., Inc.	Greenland Gap Fm	Gas	3814	ACTIVE	39.061673	-80.508557
129	4704104755	Lewis	Helen Garrett et al	Dominion Exploration & Production	Greenland Gap Fm	Gas	2693	ACTIVE	39.078060	-80.541952
130	4704104759	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas w/ Oil Show	2665	ACTIVE	39.080960	-80.539075
131	4704104881	Lewis	Madeline Moody	Diversified Production LLC	Hampshire Grp	Gas	2803	ACTIVE	39.054566	-80.529016
132	4704104885	Lewis	Charles R Kemper	Alliance Petroleum Co. LLC	Misc Sands-RILY/BNSN	Gas	3440	ACTIVE	39.074161	-80.532587
133	4704104955	Lewis	Kenneth/S Fox	Horizon Energy Corp.	Greenland Gap Fm	Gas	3807	ACTIVE	39.061818	-80.524741
134	4704104956	Lewis	Violet I Wright	Horizon Energy Corp.	Misc Sands-RILY/BNSN	Gas	3465	ACTIVE	39.062891	-80.518252
135	4704105132	Lewis	Hal A Brown	Ross & Wharton Gas Co., Inc.	Greenland Gap Fm	Gas	5257	ACTIVE	39.091592	-80.527729
136	4704105154	Lewis	Dodson Farm LLC	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3370	ACTIVE	39.071389	-80.516706
137	4704105164	Lewis	Richard Billanti	Dominion Energy Transmission, Inc.	Benson	Gas	4430	ACTIVE	39.092141	-80.528155
138	4704105166	Lewis	Robert B Burnside	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2450	ACTIVE	39.078997	-80.531699
139	4704105185	Lewis	Gerald Hull	Eastern Gas Transmission & Storage, Inc.	Greenland Gap Fm	Gas	3440	ACTIVE	39.084491	-80.547275
140	4704105186	Lewis	Gerald Hull	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39.087632	-80.539191
141	4704105187	Lewis	Edward E Garrett	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2690	ACTIVE	39.083963	-80.538115
142	4704105188	Lewis	Edward E Garrett	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	2450	ACTIVE	39.082051	-80.530995
143	4704105228	Lewis	Paul J Heater Jr	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4490	ACTIVE	39.094107	-80.537552
144	4704105278	Lewis	Ronald Lee Cunningham	Diversified Resources, Inc.	Greenland Gap Fm	Gas	3900	ACTIVE	39.071152	-80.532234
145	4704105458	Lewis	Michael R Morris	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4538	ACTIVE	39.084647	-80.527630
146	4704105459	Lewis	Clifford B Messenger	Dominion Energy Transmission, Inc.	Benson	Gas	4561	ACTIVE	39.096861	-80.532349
147	4704105527	Lewis	Melvin L Davis	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4430	ACTIVE	39.099365	-80.539908
148	4704105544	Lewis	Melvin L Davis	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	3375	ACTIVE	39.098875	-80.543700
149	4704105586	Lewis	Nancy E Smith/R C Smith Jr	Diversified Production LLC	Harrell Sh	Gas	5894	ACTIVE	39.062354	-80.528819
150	4704105587	Lewis	Nancy E & Ronald C Jr Smith	Diversified Production LLC	Harrell Sh	Gas	6125	ACTIVE	39.068525	-80.530749
151	4704105600	Lewis	Michael Meixner	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3542	ACTIVE	39.076892	-80.523411
152	4704105601	Lewis	Michael Meixner	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3640	ACTIVE	39.078825	-80.525202
153	4704105655	Lewis	Helen H Garrett	Eastern Gas Transmission & Storage, Inc.	Brallier	Gas	4747	ACTIVE	39.095193	-80.551189
154	4704130063	Lewis	Harvey & Blondie Hall	Reserve Gas Co.	Fifth	Gas	2135	PLUGGED	39.095952	-80.525746
155	4704130064	Lewis	J L J Bailey	Reserve Gas Co.	Hampshire Grp	Gas	2378	PLUGGED	39.074289	-80.535908
156	4704130089	Lewis	Mrs Ova Lester	Reserve Gas Co.	Hampshire Grp	Gas w/ Oil Show	2389	PLUGGED	39.105563	-80.547186

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157	4704130107	Lewis	S A Hall	Reserve Gas Co.	Hampshire Grp	Gas	2265	PLUGGED	39.088256	-80.524192
158	4704130108	Lewis	James Burnside	Reserve Gas Co.	Hampshire Grp	Gas	2440	PLUGGED	39.107544	-80.529783
159	4704130153	Lewis	Joseph Losh	Reserve Gas Co.	not available	not available	-	PLUGGED	39.064718	-80.520835
160	4704130161	Lewis	D B Bailey	Reserve Gas Co.	Hampshire Grp	Gas	2325	PLUGGED	39.072839	-80.540558
161	4704130163	Lewis	Nell Rohr	Reserve Gas Co.	Hampshire Grp	Gas	2183	PLUGGED	39.077770	-80.534049
162	4704130170	Lewis	M L Butcher	Reserve Gas Co.	Hampshire Grp	Gas	2304	PLUGGED	39.068923	-80.537022
163	4704130171	Lewis	Israel Simmons	Reserve Gas Co.	Hampshire Grp	Gas	2183	PLUGGED	39.089396	-80.540232
164	4704130221	Lewis	Israel Simmons	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2449	PLUGGED	39.095217	-80.540013
165	4704130251	Lewis	F White	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2362	PLUGGED	39.100628	-80.543925
166	4704130298	Lewis	Hannah Kemper	Hope Natural Gas Company	Hampshire Grp	Gas	2186	PLUGGED	39.088981	-80.526611
167	4704130319	Lewis	E W & R M Waggoner	Hope Natural Gas Company	Hampshire Grp	Gas	2443	PLUGGED	39.110702	-80.549391
168	4704130357	Lewis	Mary C Burnside	Hope Natural Gas Company	not available	not available	-	PLUGGED	39.116825	-80.535930
169	4704130523	Lewis	J T Lovett	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2244	PLUGGED	39.088876	-80.526763
170	4704130528	Lewis	Cora B Bailey	Hope Natural Gas Company	Hampshire Grp	Gas	2409	PLUGGED	39.077107	-80.542004
171	4704130529	Lewis	James R Bailey	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2250	PLUGGED	39.074144	-80.524931
172	4704130572	Lewis	Israel Simmons	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2397	PLUGGED	39.098598	-80.551368
173	4704130573	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2611	PLUGGED	39.113567	-80.546105
174	4704130578	Lewis	Fortunatus White	Hope Natural Gas Company	Hampshire Grp	Gas	2602	PLUGGED	39.117115	-80.543159
175	4704130581	Lewis	Alfred Woofter	Hope Natural Gas Company	Hampshire Grp	Gas w/ Oil Show	2242	PLUGGED	39.079365	-80.533678
176	4704130586	Lewis	Sarah A Kemper	Hope Natural Gas Company	Hampshire Grp	Gas	2241	PLUGGED	39.077727	-80.535725
177	4704130592	Lewis	White Hall	Hope Natural Gas Company	Fifth	Gas	2250	PLUGGED	39.087966	-80.528286
178	4704130628	Lewis	Fortunatus White	Hope Natural Gas Company	not available	not available	2702	UNKNOWN	39.119287	-80.539976
179	4704130659	Lewis	G L White	Hope Natural Gas Company	Hampshire Grp	Gas	2399	PLUGGED	39.079108	-80.544659
180	4704130679	Lewis	Pleasant Alford	Hope Natural Gas Company	Hampshire Grp	Gas	2534	PLUGGED	39.061237	-80.524182
181	4704130720	Lewis	M L Butcher	Hope Natural Gas Company	Hampshire Grp	Oil and Gas	2206	PLUGGED	39.062687	-80.535716
182	4704130773	Lewis	Clark White	Consolidated Gas Supply Corp.	Hampshire Grp	Gas	2346	UNKNOWN	39.091347	-80.527729
183	4704130777	Lewis	Jas McKinley Hrs	Consolidated Gas Supply Corp.	not available	not available	-	PLUGGED	39.077625	-80.518979

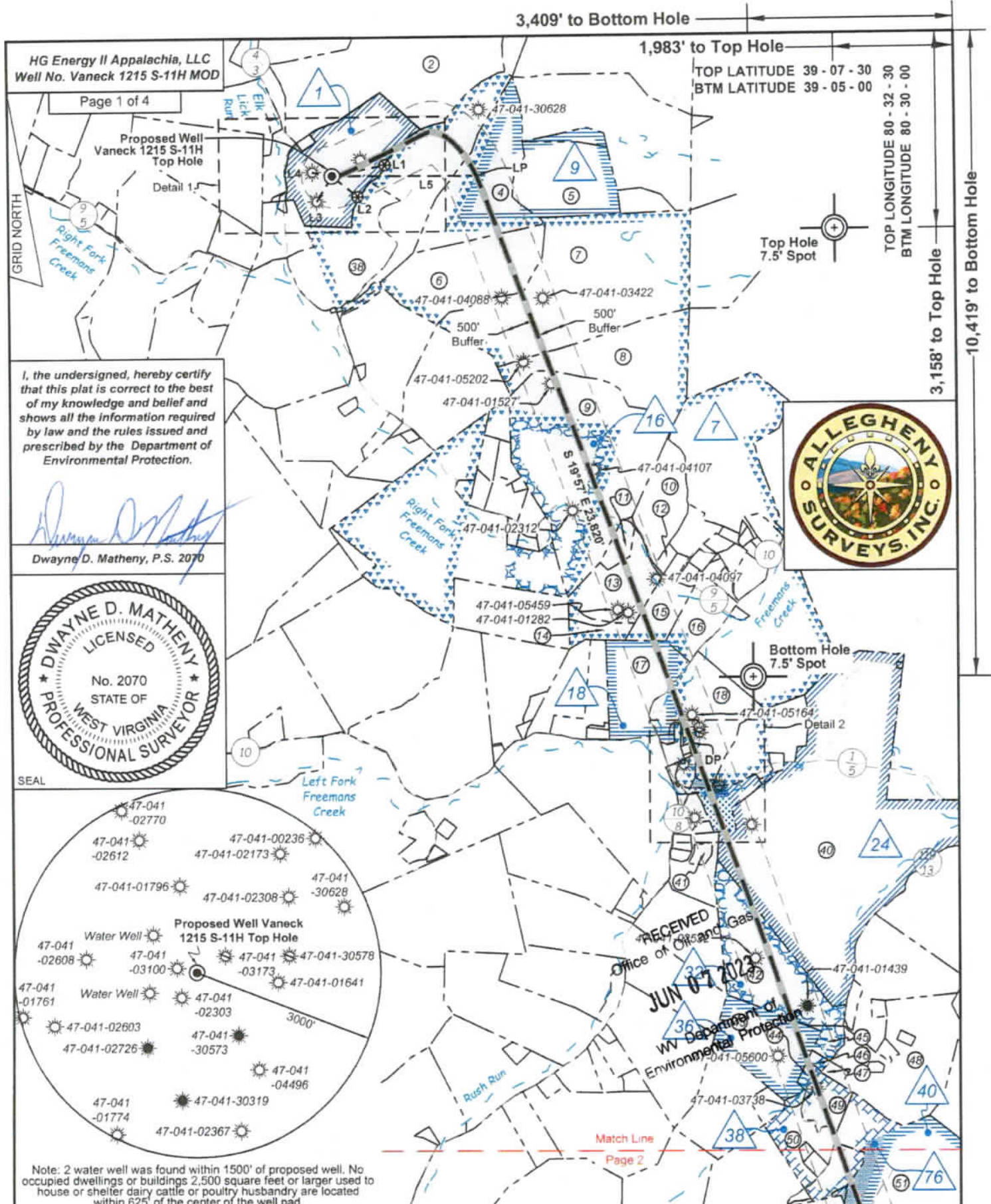
SOURCE: WVGES DATASET (2020) and WVDEP WEBSITE AND FIELD SURVEYS

YELLOW DENOTES WELL WITH TVD > 4,500'

DENOTES SURVEYED WELL COORDINATES

UPDATED 3/10/23

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WV Department of Environmental Protection

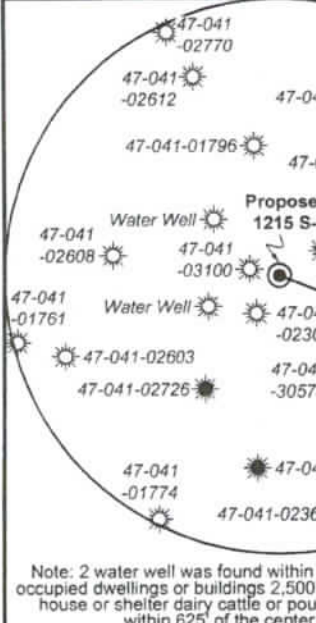


HG Energy II Appalachia, LLC
Well No. Vaneck 1215 S-11H MOD

Page 1 of 4

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070



RECEIVED
Office of Oil and Gas
JUN 07 2023
WV Department of Environmental Protection

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 31 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47 - 041 - 05741
STATE COUNTY PERMIT

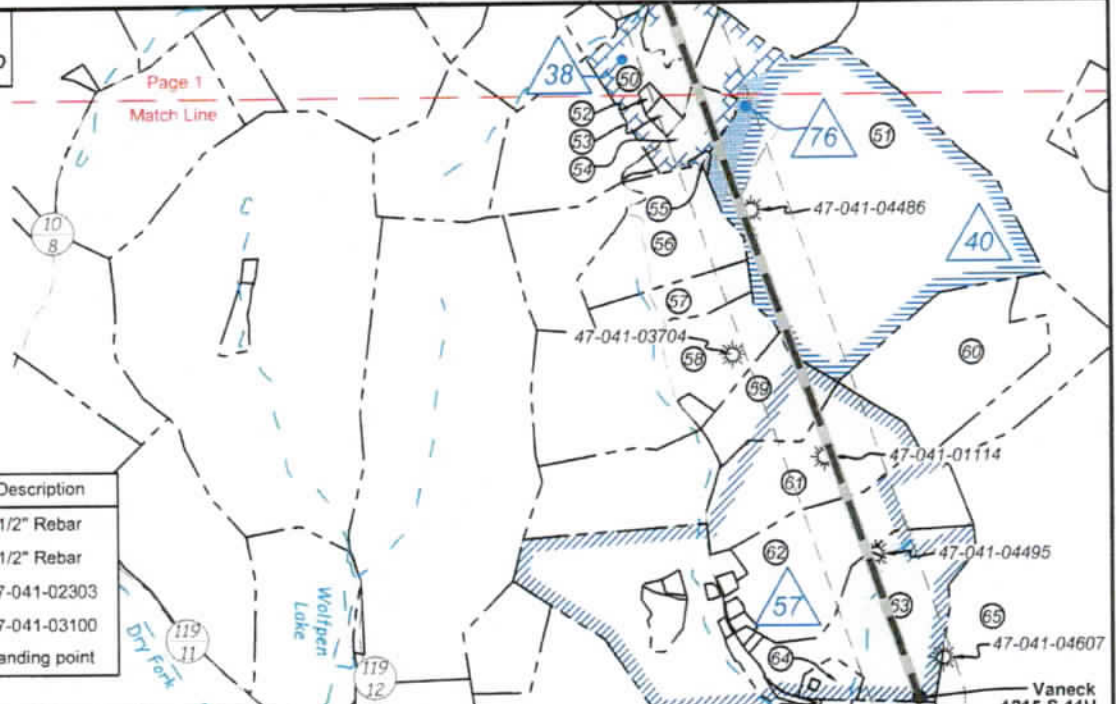
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 7,043' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 31,950' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

06/30/2023

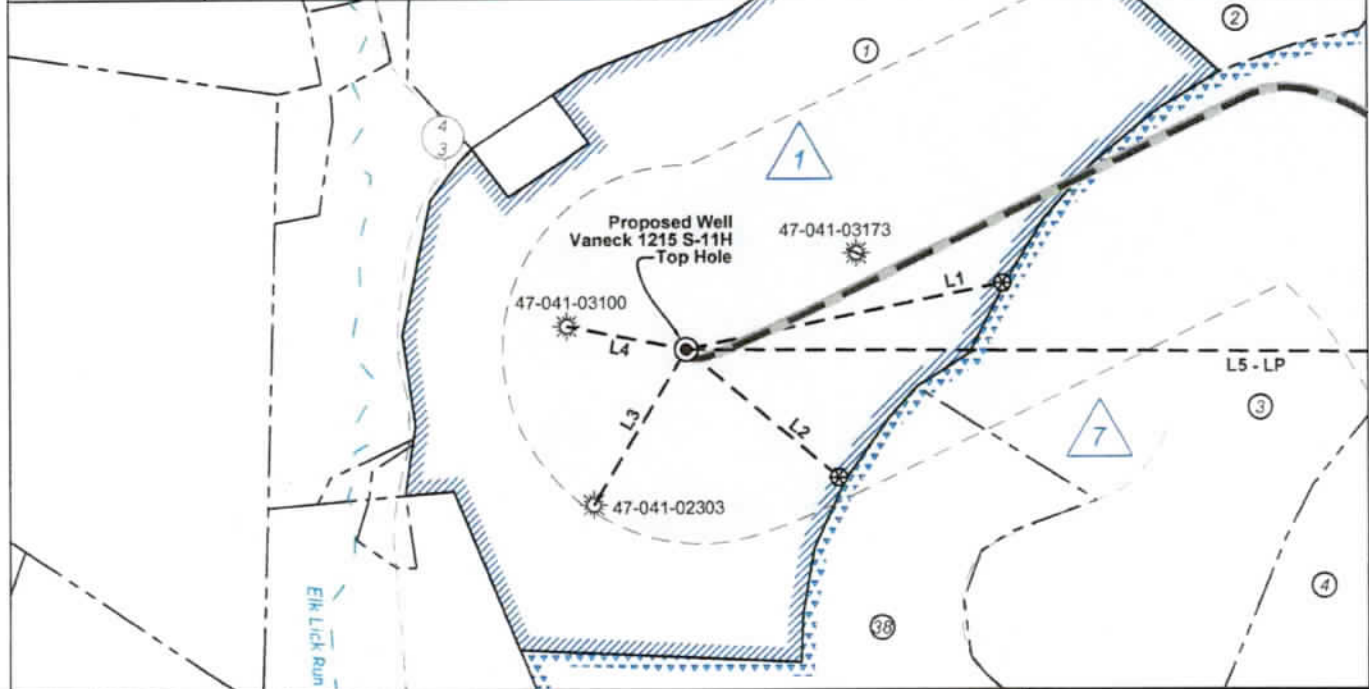


Tag	Bearing	Dist.	Description
L1	S 78°20' W	879.8'	1/2" Rebar
L2	N 50°07' W	539.9'	1/2" Rebar
L3	N 31°01' E	488.7'	47-041-02303
L4	S 79°00' E	330.6'	47-041-03100
L5	S 89°38' E	2,355.0'	Landing point

Notes: Well No. Vaneck 1215 S-11H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'58.78" Latitude: 39°03'16.98"
Longitude: 80°32'55.17" Longitude: 80°30'43.24"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,792.985m N: 4,322,972.367m
E: 539,034.303m E: 542,239.455m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.

Notes:
Well No. Vaneck 1215 S-11H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,329.15'
E: 1,768,481.71'
Landing Point Coordinates
N: 14,205,314.16'
E: 1,770,836.64'
Deflection Point Coordinates
N: 14,196,065.52'
E: 1,774,289.56'
Bottom Hole Coordinates
N: 14,182,951.84'
E: 1,778,997.28'

Detail 1 (1"=500')



FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

RECEIVED
Office of Oil and Gas
May 31 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47-041-05741
COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00

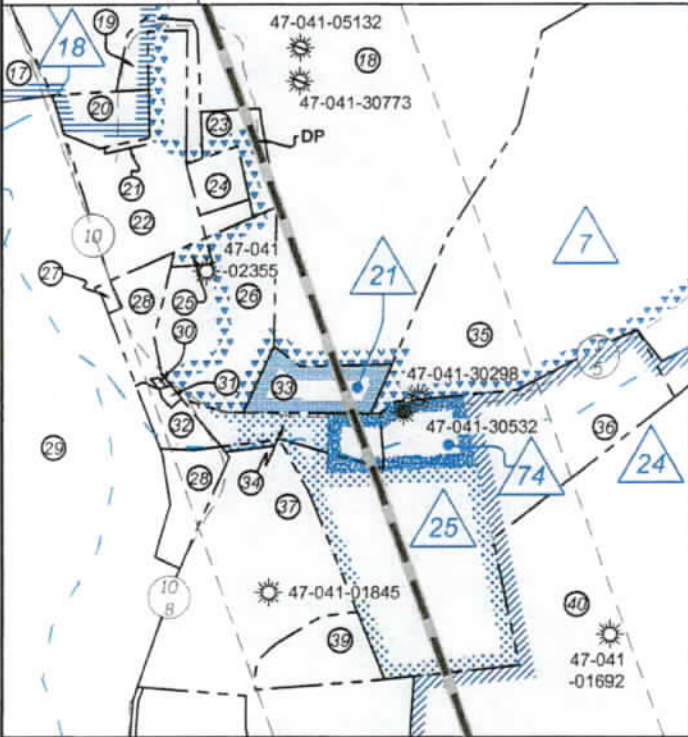
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 7,043' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 31,950' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

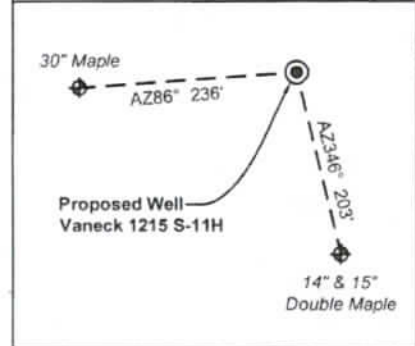
06/30/2023



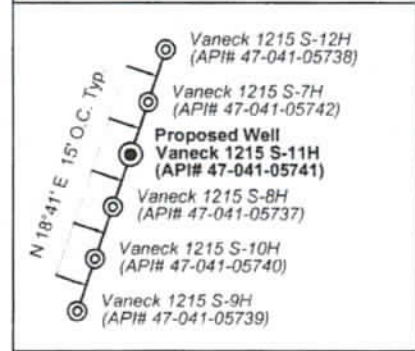
Detail 2 (1"=500')



Well Location References (NTS)



Wellhead Layout (NTS)



Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Existing Plugged Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Other surface tracts (approx.)

RECEIVED
Office of Oil and Gas
JUN 07 2023
WV Department of Environmental Protection

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 31 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47 - 041 - 05741
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.80
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 7,043' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 31,950' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

06/30/2023



Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	H.G. Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
3	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
4	5C / 22	Linda Lou Waggoner	W33 / 157	57.76
5	5C / 39	Phillip E. Burnside, et al	666 / 503	47.00
6	5C / 22.1	Janet L. & Joseph C. Waggoner, Sr.	705 / 183	57.53
7	5C / 45	Phillip E. Burnside, et al	666 / 503	121.42
8	5C / 46	John K. Burnside, et al	W1 / 393	60.00
9	5D / 35	Edward E. Garrett, et al	429 / 245	130.47
10	5D / 60.13	Richard B. & Erica S. Messenger	577 / 212	23.96
11	5D / 36.1	Clifford B. Messenger	625 / 166	5.00
12	5D / 60.1	Michael & Julie Lough	750 / 243	2.02
13	5D / 36.2	Clifford B. Messenger	625 / 166	27.32
14	5D / 36	Carroll G. Gum, et al	625 / 343	9.71
15	5D / 37	Michael & Melissa Lattea	F32 / 55	13.86
16	5D / 38	Marsha Boggs	W8 / 308	18.82
17	5D / 39.3	Janice W. Sundstrom	W41 / 517	35.09
18	5D / 39	John M. & Diana L. Garrett	701 / 658	41.92
19	5D / 40	United Brethern Church Cemetery	219 / 27	1.00
20	5D / 41	Freemansburg U.M. Church	20 / 104	0.90
21	5D / 42	Freemansburg U.M. Church	5 / 216	0.05
22	5D / 56	Freemans Creek Baptist Church	- / -	0.90
23	5D / 39.1	L.L. Kemper (Cemetery)	284 / 287	1.50
24	5D / 44	Freemans Creek Baptist Church	28 / 337	1.00
25	5D / 43	Perry & Grace Waggoner	616 / 250	0.75
26	5D / 45	Perry & Grace Waggoner	616 / 250	2.45
27	5D / 46	Edward E. Garrett, et al	429 / 245	0.07
28	5D / 49	Edward E. Garrett	WB R / 498	1.50
29	5D / 32	Burce Garrett, et al	577 / 351	100.60
30	5D / 55	Harvey A. Hall Estate	F31 / 109	0.02
31	5D / 66	Donald Smith & William Self, Sr.	760 / 898	0.06
32	5D / 47	John P. & Betty L. Rowan	640 / 15	0.50
33	5D / 39.2	Timothy R. & Alicia L. Beer	601 / 673	1.25
34	5D / 48	Edward E. Garrett	553 / 382	1.00
35	5D / 57	John T. Garrett, et al	728 / 296	28.70
36	5D / 54	Edward E. Garrett	W7 / 578	10.50
37	5D / 51	Michael & Glodell Morris	621 / 412	13.55
38	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
39	5D / 51.3	Amanda & William Rowan	726 / 69	1.11
40	6D / 10	Sue E. Hall & Alice J. Fisher	583 / 439	252.44
41	5D / 51.2	Samuel T. & Julia A. Grant	723 / 600	2.28
42	5E / 43	KAIA	721 / 683	58.22
43	5E / 40	Paul J. & Sheila K. Slater	783 / 560	38.00
44	5E / 44	Jacob E. Cogar	745 / 775	1.89
45	6E / 1.8	Patricia A. & Joel S. Harris	721 / 670	4.95
46	5E / 42	Bruce S. Kimmel, et al	778 / 516	1.62
47	6E / 1.5	Diane Mosey	714 / 772	2.00
48	6E / 1.7	Patricia A. & Joel S. Harris	721 / 670	61.20
49	6E / 2	Sand Hill Land Ventures, LP	777 / 873	8.12
50	5E / 37	James E. & Edith A. Browning	486 / 387	17.88
51	6E / 4	Sand Hill Land Ventures, LP	777 / 873	171.06
52	5E / 36	Carolyn Jeffries, et al	753 / 917	1.00
53	5E / 35	Carolyn Jeffries, et al	753 / 917	2.00
54	6E / 3	Sand Hill Land Ventures, LP	777 / 873	9.36
55	6E / 3.1	Sand Hill Land Ventures, LP	777 / 873	0.64
56	6E / 5	Sandra Dodd & William Collins	438 / 339	30.91
57	6E / 5.1	Allen D. Marple	W10 / 258	15.34
58	5E / 32	Allen D. Marple	W47 / 451	67.55
59	6E / 43	Gary L. Wnght	767 / 622	22.82
60	6E / 10	Sand Hill Land Ventures, LP	777 / 873	51.75
61	6E / 7	Gerald R. Wright	388 / 322	50.67
62	6F / 1.2	Roger L. & LaDonna F. Sprouse	323 / 649	53.86
63	6F / 34	Kevin & Janet Mullooly	551 / 36	52.27
64	6F / 5.1	Chasidy D. & William D. Murray	729 / 828	4.81
65	6F / 35	Roger D. Clem, Jr.	577 / 558	63.90
66	6F / 33.4	Bobby L. Jones	713 / 59	11.48

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ID	Lease
1	George W. Waggoner, et ux
7	F. White
9	J.A. Burnside, et ux
16	Clark White, et ux
18	J. Belle Snyder, et al
21	Elaine Lovett Cox
24	S.A. Hall, et ux, et al
25	Al B. Miller
32	Madge Fultiner, et al
36	H.G. Energy II Appalachia, LLC
38	Simeon A. Hall, Jr., et ux
40	R.H. Hall, et ux
57	M.M. Peterson, et ux
74	Donald R. Reynolds
76	Franklin Maxwell Heirs Limited Partnership I

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-11H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: May 31 2023
OPERATOR'S WELL NO. Vaneck 1215 S-11H
API WELL NO
47 - 041 - 05741
STATE COUNTY PERMIT

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 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 7,043' TVD
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ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

06/30/2023

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

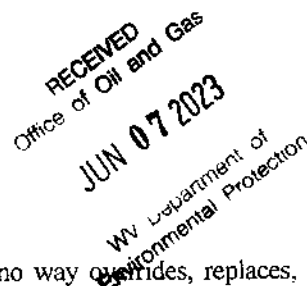
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Attached Sheets

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator



The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: HG Energy II Appalachia, LLC
 By: Diane White *Diane White*
 Its: Accountant

HG Energy II Appalachia, LLC - Vaneck 1215 S-11H Lease Chains

1215S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE				
1	FK051509		Q100665000	GEO. W. WAGGONER AND ROSA M. WAGGONER, HIS WIFE	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	NOT LESS THAN 1/8	73	383				
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	85	141				
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379				
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	PITTSBURG AND WEST VIRGINIA GAS COMPANY	DEED	125	371				
				PITTSBURG AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	ASSIGNMENT	216	185				
				EQUITABLE GAS COMPANY AND PHILADELPHIA OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	246	192				
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89				
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127				
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
				7	FK053097	p/o 03-005C-0020-0000 p/o 03-005C-0022-0000 03-005C-0022-0001 03-005C-0023-0000 p/o 03-005C-0025-0000 03-005C-0027-0000 03-005C-0027-0002 03-005C-0045-0000 03-005C-0046-0000 p/o 03-005D-0019-0000 03-005D-0020-0000 p/o 03-005D-0035-0000 03-005D-0036-0000 03-005D-0036-0001 p/o 03-005D-0036-0002 03-005D-0037-0000 p/o 03-005D-0038-0000 p/o 03-005D-0039-0000 03-005D-0039-0001 p/o 03-005D-0039-0003 p/o 03-005D-0040-0000 p/o 03-005D-0045-0000 p/o 03-005D-0057-0000 03-005D-0059-0000 03-005D-0060-0000 03-005D-0060-0001 THRU 03-005D-0060-0018 03-005D-0061-0000 03-005D-0061-0001 03-005D-0062-0000	Q100333000	F. WHITE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	62
T. N.BARNSDALL, SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85					106				
RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155					202				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS									
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672					154				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684					57				
DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712					848				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170				
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723					499				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734					558				
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					220				
								J. A. BURNSIDE AND ELLA BLANCHE BURNSIDE, HIS WIFE, EACH IN THEIR OWN RIGHT	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	209	429
								HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
								CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
								CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					

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9	FK061775	03-005C-0038-0000 03-005C-0039-0000 p/o 03-005C-0022-0000	Q100785000	DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC	MEMORANDUM OF FARMOUT AGREEMENT	672	154				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	684	57				
				DOMINION TRANSMISSION, INC.	CNX GAS COMPANY LLC AND NOBLE ENERGY, INC.	PARTIAL ASSIGNMENT (32%)	712	848				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				
				DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	SECOND AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	723	499				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	THIRD AMENDMENT TO MEMORANDUM OF FARMOUT AGREEMENT	734	558				
				DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736	220				
				16	FK053098	p/o 03-005D-0019-0000 p/o 03-005D-0035-0000	CNX053098	CLARK WHITE AND KATE E. WHITE, HIS WIFE	SOUTHERN OIL COMPANY	NOT LESS THAN 1/8	40	60
T. N. BARNSDALL, SOUTHERN OIL COMPANY, FRED S. RICH AND W. S. MORRIS	RESERVE GAS COMPANY	ASSIGNMENT	85					106				
RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	155					202				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127				
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS									
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651					318				
CONSOL ENERGY HOLDINGS LLC XVI AND CONSOL GAS COMPANY	CNX GAS COMPANY	MERGER/NAME CHANGE	9					471				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659					521				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170				
DOMINON TRANSMISSION, INC.	DOMINION ENERGY TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS									
DOMINION ENERGY TRANSMISSION, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT (68%)	736					220				
18	CNX079187	p/o 03-005D-0038-0000 p/o 03-005D-0039-0000 p/o 03-005D-0039-0003 p/o 03-005D-0040-0000 p/o 03-005D-0041-0000 p/o 03-005D-0056-0000						J. BELLE SNYDER, WIDOW; UNION NATIONAL BANK - TRUSTEE FOR S. A. SMITH AND C. BURKE MORRIS; JOHN R. MORRIS, IN HIS OWN RIGHT AND AS ATTORNEY-IN-FACT FOR WILLIAM Y. MORRIS AND VIRGINIA MORRIS, HIS WIFE; ROBERT H. MORRIS	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	314	625
								CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS					
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS					
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	313				
				CONSOL ENERGY HOLDING LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS					
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS					
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	521				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				
				Blaine Lovett Cox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	766	432				
				Henry Rawn	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	444				
				Roger Lovett	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	444				
				Mirka Edwin Mathews	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	453				
Carol Lovett Owens Winingham fka Carol Lovett Owens	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	756								
Andrew B. Rawn, III	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	784	747								
Melissa Altizer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	784	952								
Jacqueline Roecker, a/k/a, Jacqueline Renee Roecker	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	789	582								
Linda L. Leonard, a/k/a, Linda Lou Leonard	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	233								
Christopher L. Fehring, a/k/a, Christopher Leonard Fehring	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	297								
Walter Richard Roecker, a/k/a, Richard Roecker	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	664								
Gary L. Leonard, a/k/a, Gary Lee Leonard	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	791	242								
Rhonda Jean Frost	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	89								
Lynn A. Fox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	93								
Claudia J. Leonard	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	431								
Ellen Marie Freck	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	435								
Stephen Beryl Clark	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	437								
Pamela R. Reynolds	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	441								
21	HGII02194 et al	p/o 03-005D-0039-0002	HGII02194 et al									

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				Alan D. Miller	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	455
				Michael T. Moss	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	459
				Richard A. Fehring, a/k/a, Richard Allen Fehring	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	463
				James H. Fox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	739
				Ai B. Miller	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	761
				Wilbur Wayne Leonard, Jr.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	779
				Keith Ryan Gaston	HG ENERGY II APPALACHIA LLC	DEED	783	673
				Ryan Gaston aka Keith Ryan Gaston	HG ENERGY II APPALACHIA LLC	DEED	783	673
				Larry E. Bellamy, a/k/a, Larry Eugene Bellamy	HG ENERGY II APPALACHIA LLC	DEED	790	59
				Peggy Ann Jarrell	HG ENERGY II APPALACHIA LLC	DEED	781	367
				Timothy H. Lovett	HG ENERGY II APPALACHIA LLC	DEED	782	687
				John Mark Kemper	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	83
				Paul E. Campbell	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	791	368
				Donald R. Reynolds	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	77
				John Mark Kemper	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	83
				Sheila Mahaffey	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	789	442
				James Dudley Griffin	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	788	55
				William Kenneth Weaver (by his POA, Stella Weaver)	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	787	863
				Patricia J. Fenton	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	788	572
				Charles Alan Kemper AKA Alan Kemper	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	787	183
				Connie Jane Scott FKA Connie Jane Lang	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	787	167
				Shirley V. Downs	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	787	769
				Sharon V. Dunham	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	787	187
				Mary K. Hutson FKA Mary K. Schwartz	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	786	805
				Patricia Priolette Johnson AKA Patricia Kay Johnson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	786	936
				Natalie Johnson Charles FKA Natalie Paige Johnson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	544
				Norman Grant Johnson AKA Grant Johnson	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	218
				Michael London Priolette II	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	787	163
74	HGII02471 et al	p/o 03-005D-0048-0000 p/o 03-005D-0054-0000	HGII02471 et al	Ai B. Miller	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	763
				Alan D. Miller	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	457
				Andrew B. Rawn, III	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	783	231
				Carol Lovett Owens Winingham fka Carol Lovett Owens	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	752
				Christopher L. Fehring, a/k/a, Christopher Leonard Fehring	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	300
				Claudia J. Leonard	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	429
				Elaine Cox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	783	882
				Ellen Marie Freck	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	433
				Gary L. Leonard, a/k/a, Gary Lee Leonard	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	791	244
				Gary O. Fox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	443
				Harvey Rawn	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	783	877
				James H. Fox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	741
				John C. Dixon	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	769
				Linda L. Leonard, a/k/a, Linda Lou Leonard	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	790	237
				Lynn A. Fox	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	91
				Melissa Altizer	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	784	954
				Michael T. Moss	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	461
				Minor Edwin Mathews	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	455
				Minor Edwin Mathews, MD	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	455
				Rhonda Jean Frost	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	87
				Richard A. Fehring, a/k/a, Richard Allen Fehring	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	465
				Roger Lovett	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	782	446
				Stacy L. Kelly, a/k/a, Stacy Lynn Kelly	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	427
				Stephen Beryl Clark	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	439
				Wilbur Wayne Leonard, Jr.	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	792	777
				Jacqueline Roecker, a/k/a, Jacqueline Renee Roecker	HG ENERGY II APPALACHIA LLC	NOT LESS THAN 1/8	789	584
				Keith Ryan Gaston	HG ENERGY II APPALACHIA LLC	DEED	783	673
				Larry E. Bellamy, a/k/a, Larry Eugene Bellamy	HG ENERGY II APPALACHIA LLC	DEED	790	59
				Peggy Ann Jarrell	HG ENERGY II APPALACHIA LLC	DEED	781	367
25	HGII02243 et al	P/O 03-005D-0054-0000 03-005D-0048-0000	HGII02243 et al					

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				Ryan Gaston aka Keith Ryan Gaston Timothy H. Lovett	HG ENERGY II APPALACHIA LLC HG ENERGY II APPALACHIA LLC	DEED DEED	783 782	673 687			
24	DAD41528	03-006D-0010-0000 03-005D-0068-0000 03-006D-0010-0002	DAD41528	S. A. HALL AND GEORGIA E. HALL, HIS WIFE; AND CLAUDE M. HALL AND NELLE HALL, HIS WIFE	ALLEGHENY LAND AND MINERAL COMPANY	NOT LESS THAN 1/8	258	541			
				ALLEGHENY LAND AND MINERAL COMPANY	ALLEGHENY LAND AND MINERAL COMPANY	CONFIRMATORY DEED	401	538			
				ALLEGHENY LAND AND MINERAL COMPANY	Alamco, Inc.	MERGER/NAME CHANGE	457	667			
				Alamco, Inc.	UMC Petroleum Corporation	ASSIGNMENT	519	24			
				UMC Petroleum Corporation	Ashland Exploration Holdings, Inc.	ASSIGNMENT	525	557			
				Ashland Exploration Holdings, Inc.	Eastern States Oil and Gas, Inc.	ASSIGNMENT	546	207			
				Eastern States Oil and Gas, Inc.	Blazer Energy Corp.	MERGER/NAME CHANGE		WVSOS			
				Blazer Energy Corp.	Equitable Production - Eastern States, Inc.	MERGER/NAME CHANGE		WVSOS			
				Equitable Production - Eastern States, Inc.	Equitable Production Company	MERGER/NAME CHANGE		WVSOS			
				Equitable Production Company	EQT Production Company	MERGER/NAME CHANGE		WVSOS			
				EQT PRODUCTION COMPANY	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	770	560			
32	CNX079130	p/o 033-006E-0001-00000		MADGE FULTINEER, SINGLE; INA B. SHALLENBERGER, WIDOW; JAMES L. BAILEY, A MARRIED MAN; A. F. THARP, SR., AND PEARL M. THARP, HIS WIFE; AVONELLE ROSS AND JAMES ROSS, HER HUSBAND; ANNA L. BAILEY, WIFE OF JAMES L. BAILEY; KATHRYN E. DOUGLAS AND GEORGE W. DOUGLAS, HER HUSBAND; AVANELLE HALL AND STANLEY E. HALL, HER HUSBAND; LINDEN BAILEY AND AGATHA BAILEY, HIS WIFE; GLADYS SAFFEL AND LEE SAFFEL, HER HUSBAND; S. T. THARP, SINGLE; DOROTHY ELLIS AND RAYMOND ELLIS, HER HUSBAND; ADA BAILEY, WIDOW; JULIA FAY CUNNINGHAM AND B. L. CUNNINGHAM, HER HUSBAND	CONSOLIDATED GAS SUPPLY COMPANY	NOT LESS THAN 1/8	314	508			
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127			
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE		WVSOS			
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE		WVSOS			
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318			
				CONSOL ENERGY HOLDING LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE		WVSOS			
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE		WVSOS			
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659	521			
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1			
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170			
36	DV011664 52959	03-005E-0040-0000	DV011664 52959	NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	DEED	722	293			
38	DAD38009001-9015	03-006E-0009-0000 03-006E-0003-0000 p/o 03-006E 0003-0001 p/o 03-006E-0004-0000 03-005E-0035-0000 03-005E-00036-0000 03-005E-00037-0000	DAD38009001-9015	SIMEON A. HALL, JR AND IRENE M. HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	517			
				LENA H. HALL, WIDOW	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	515			
				INEZ H. BROWN, WIDOW	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	519			
				FREDA H. KITTLE, WIDOW	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	521			
				TRUMAN L. WYANT AND GENEVA WYANT, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	523			
				NINA L. COTTRILL, WIDOW	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	674			
				RUHL R. HALL AND LUCILLE HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	525			
				JOHN H. HALL AND VIVIAN HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	447	663			
				RUTH I. BUTCHER AND FRED D. BUTCHER, HER HUSBAND	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	446	318			
				RUHL JUDSON BAILEY AND JOSEPHINE G. BAILEY, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	448	408			
				RICHARD H. HALL, III AND PEARL E. HALL, HIS WIFE	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	446	92			
				BETTIE S. BUSH AND LOVELL L. BUSH, HER HUSBAND	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	446	259			
				KATHRYN B. DOUGLAS AND GEORGE DOUGLAS, HER HUSBAND	STONEWALL GAS COMPANY	NOT LESS THAN 1/8	448	157			
							Harrison Co				
				STONEWALL GAS COMPANY	Dominion Appalachian Development, Inc.	MERGER/NAME CHANGE	59	1086			
				Dominion Appalachian Development, Inc.	Dominion Appalachian Development, LLC	MERGER/NAME CHANGE	10	38			
				Dominion Appalachian Development, LLC	Dominion Transmission, Inc.	ASSIGNMENT	651	225			
				Dominion Transmission, Inc.	Consol Energy Holdings LLC XVI	ASSIGNMENT	651	318			
				Consol Energy Holdings LLC XVI	Consol Gas Company	ASSIGNMENT		WVSOS			
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471			
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (50%)	659	521							
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1							
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170							

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76	HGII02811	p/o 03-006E-0003-0001 p/o 03-006E-0004-0000	HGII02811	Franklin Maxwell Heirs Limited Partnership No. 1	HG ENERGY II APPALACHIA, LLC	NOT LESS THAN 1/8	793	185
40	53244	p/o 03-006E-0004-0000	CNX053244 AGREEMENT 131356000	R. H. HALL, ET UX	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	278
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	WVSOS	
				CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	WVSOS	
				CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS	
				CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58	366
				DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION INC	ASSIGNMENT	651	137
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	WVSOS	
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT (50%)	659	521
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
				57	CNX053206	03-0E-0007-0000 p/o 03-06E-0043-0000 03-06F-0001-0001 03-06F-0001-0002 03-06F-0003-0001 03-06F-0003-0002 03-06F-0003-0003 03-06F-0005-0000 03-06F-0005-0001 p/o 03-06F-0034-0000 03-06F-0034-0001 03-06F-0034-0002 p/o 03-06F-0035-0000 03-0F-0004-0001 03-0F-0004-0003 03-0F-0008-0001 03-0F-0034-0003 03-5F-0056-0000 03-5F-0057-0000	CNXDV011658 FEE	M.M. PETERSON AND MARCELIA PETERSON, HIS WIFE
RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	CONFIRMATORY DEED	155					202
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425					127
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	DEED	438					379
CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG TRANSMISSION CORPORATION	MERGER/NAME CHANGE	51					795
CNG TRANSMISSION CORPORATION	DOMINION TRANSMISSION, INC.	MERGER/NAME CHANGE	9					628
DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651					318
CONSOL ENERGY HOLDINGS LLC XVI	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS					
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	LIMITED PARTIAL ASSIGNMENT (50%)	659					521
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170

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