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west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, May 9, 2022  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC  
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for BURNSIDE 1214 S-4H  
47-041-05729-00-00

**Lateral Direction Revision**

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.

A blue ink signature of James A. Martin, Chief, is written over a circular stamp. The signature is stylized and cursive.

James A. Martin  
Chief

Operator's Well Number: BURNSIDE 1214 S-4H  
Farm Name: JOHN K BURNSIDE ET AL  
U.S. WELL NUMBER: 47-041-05729-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 5/9/2022

Promoting a healthy environment.

05/13/2022



**HG Energy, LLC**  
5260 Dupont Road  
Parkersburg, WV 26101  
(304) 420-1100 - Office  
(304) 863-3172 - Fax

4704105729

April 14, 2022

WV DEP  
Division of Oil & Gas  
Attn: Cragin Blevins  
601 57<sup>th</sup> Street  
Charleston, West Virginia 25304

RE: Burnside 1214 S-4H Drill Permit Revision Request – (47-041-05729)  
Freeman's Creek District, Lewis County  
West Virginia

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Office of Oil and Gas

APR 25 2022

WV Department of  
Environmental Protection

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic) and a check for expedited service for the 1214 S-4H well work permit revision request. We ask the permit be modified as the direction of the lateral has been modified. No additional leases were added.

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or [dwhite@hgeneryllc.com](mailto:dwhite@hgeneryllc.com).

Very truly yours,

*Diane White*

Diane C. White

Enclosures

CK# 030803  
Amt \$ 5000  
Date 4/13/22

cc: Sam Ward – WV DEP State Inspector

05/13/2022

4704105729

API NO. 47-041 - 05129  
OPERATOR WELL NO. Burnside 1214 S-4H  
Well Pad Name: Burnside 1214

WW-6B  
(04/15)

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

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

2) Operator's Well Number: Burnside 1214 S-4H Well Pad Name: Burnside 1214

3) Farm Name/Surface Owner: John K Burnside, et al Public Road Access: Mare Run Rd at CR 10/9

4) Elevation, current ground: 1160' Elevation, proposed post-construction: 1159.20'

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 6709/6805' and 96' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6212'

9) Formation at Total Vertical Depth: Marcellus

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10) Proposed Total Measured Depth: 26,955'

APR 25 2022

11) Proposed Horizontal Leg Length: 18,713'

WV Department of  
Environmental Protection

12) Approximate Fresh Water Strata Depths: 803', 950'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-00283, 0210,)

14) Approximate Saltwater Depths: None found

15) Approximate Coal Seam Depths: 510', 910', 915' (Surface casing is being extended to cover the coal)

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: \_\_\_\_\_

WW-6B  
(04/15)

**4704105729**  
 API NO. 47- 041-05729  
 OPERATOR WELL NO. Burnside 1214 S-4H  
 Well Pad Name: Burnside 1214

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' ✓	Drilled In
Fresh Water/Coal	20"	NEW	J-55	94	1100'	1100' ✓	CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2056'	2056' ✓	CTS
Intermediate 2	9 5/8"	NEW	J-55 BTC	40	4601'	4601' ✓	CTS
Production	5 1/2"	NEW	P-110 HP	23	26955'	26955' ✓	CTS
Tubing							
Liners							

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	48% excess yield w/ 1.25, CTS
Intermediate 1	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	48% excess yield, 1.25 excess
Intermediate 2	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	48% excess, 1.25 excess
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/Class A	48% excess yield w/ 1.25, 1.25 excess
Tubing							
Liners							

*SDW*  
4/29/2022

PACKERS

Kind:				
Sizes:				
Depths Set:				

WW-6B  
(10/14)

API NO. 47- 041 - 05729  
 OPERATOR WELL NO. Burnside 1214 S-4H  
 Well Pad Name: Burnside 1214

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 6212'. Drill horizontal leg to estimated 18,713' lateral length, 26,955' 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): 6.32 acres

22) Area to be disturbed for well pad only, less access road (acres): 4.12 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing.  
 Freshwater/Coal - centralized 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 - 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.

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

Conductor - N/A, Casing to be drilled in w/ Dual Rotary Rig.  
 Fresh Water/Coal - 15.8 ppg PNE-1 + 3% bwoc CaCl<sub>2</sub>, 40% Excess Yield = 1.20, CTS  
 Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub> zero% Excess, CTS  
 Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub>, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl<sub>2</sub> 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 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

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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.

WV Department of  
 Environmental Protection

\*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)  
 B180A - 0.15% BWOB Dispersant / B547 - 0.35% BWOB GasBLCK\* / D013 - 0.3% BWOB Retarder / D047 - 0.02 gal / sack Anti Foam / D901 - 0.03 gal / sack Retarder - 0% Excess



1214 S-4H  
 Marcellus Shale Horizontal  
 Lewis County, WV

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 APR 25 2022

WV Department of Environmental Protection

			1214 S-4H SHL				14206317.94N 1775721.6E							
Ground Elevation			1159'				1214 S-4H LP				14205095.34N 1773604.89E			
Azm			160.539°				1214 S-4H BHL				14187466.22N 1779834.36E			

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	200, 550, 800	AIR	15.6 ppg Class A Neat 94#/sk 40% Excess Yield=1.18 / 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	910	915										
			Fresh Water Protection	0	1100										
	17.5"	13-3/8" 68# J-55 BTC	Little Lime	1501	1517	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 <i>*will also be running ACP for isolating storage zone*</i>	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	1543	1604										
			Injun / Gantz (Storage)	1608 / 1881	1712 / 1941										
			Intermediate 1	0	2056										
	12.25"	9-5/8" 40# N-80 BTC	Fifty / Thirty Foot	1997 / 2096	2017 / 2111	AIR / 9.0ppg SOB M	15.6 ppg Class A 94#/sk 1% Calcium BWOC - 40% Excess Yield=1.2 / 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					
			Carbon Stray / Gordon	2126 / 2161	2163 / 2241										
			5th Sand	2381	2426										
			Bayard / Warren	2461 / 2756	2491 / 2791										
			Intermediate 2	0	TVD: 4601' MD: 4755' Inc: 35 deg.	0					0	AIR / 9.0ppg SOB M			
													Speechley	3092	3107
													Balltown	3205	3265
Bradford													3868		
8.5" Curve	5-1/2" 23# P-110 HP CDC HTQ	Rhinestreet	6009	6279	11.5ppg-12.5ppg SOB M	Class A 14.8 ppg Yield 1.34 D255 - 0.4% BWOB Fluid Loss D198 - 0.55% BWOB Retarder D047 - 0.02 gal / sack Anti Foam D208 - 0.05% BWOB Viscosifier 10% Excess	Run 1 spiral centralizer every 3 joints from the 1st 5.6" 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	6279	6379											
		Middlesex	6379	6411											
		West River	6411	6432											
		Burkett	6482	6492											
		Tully Limestone	6492	8600											
		Hamilton	6600	6709											
8.5" Lateral	TMD / LP TVD (Production)	26955	6800	11.5ppg-12.5ppg SOB M											
	Onondaga	6805	6805												

LP @ 6800' TVD / 8242' MD

8.5" Hole - Cemented Long String  
 5-1/2" 23# P-110 HP CDC HTQ

+/-18713' ft Lateral

TD @ +/-8212' TVD  
 +/-26955' MD

X=centralizers

2,547' to Bottom Hole

6,556' to Top Hole

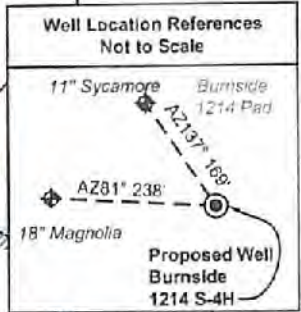
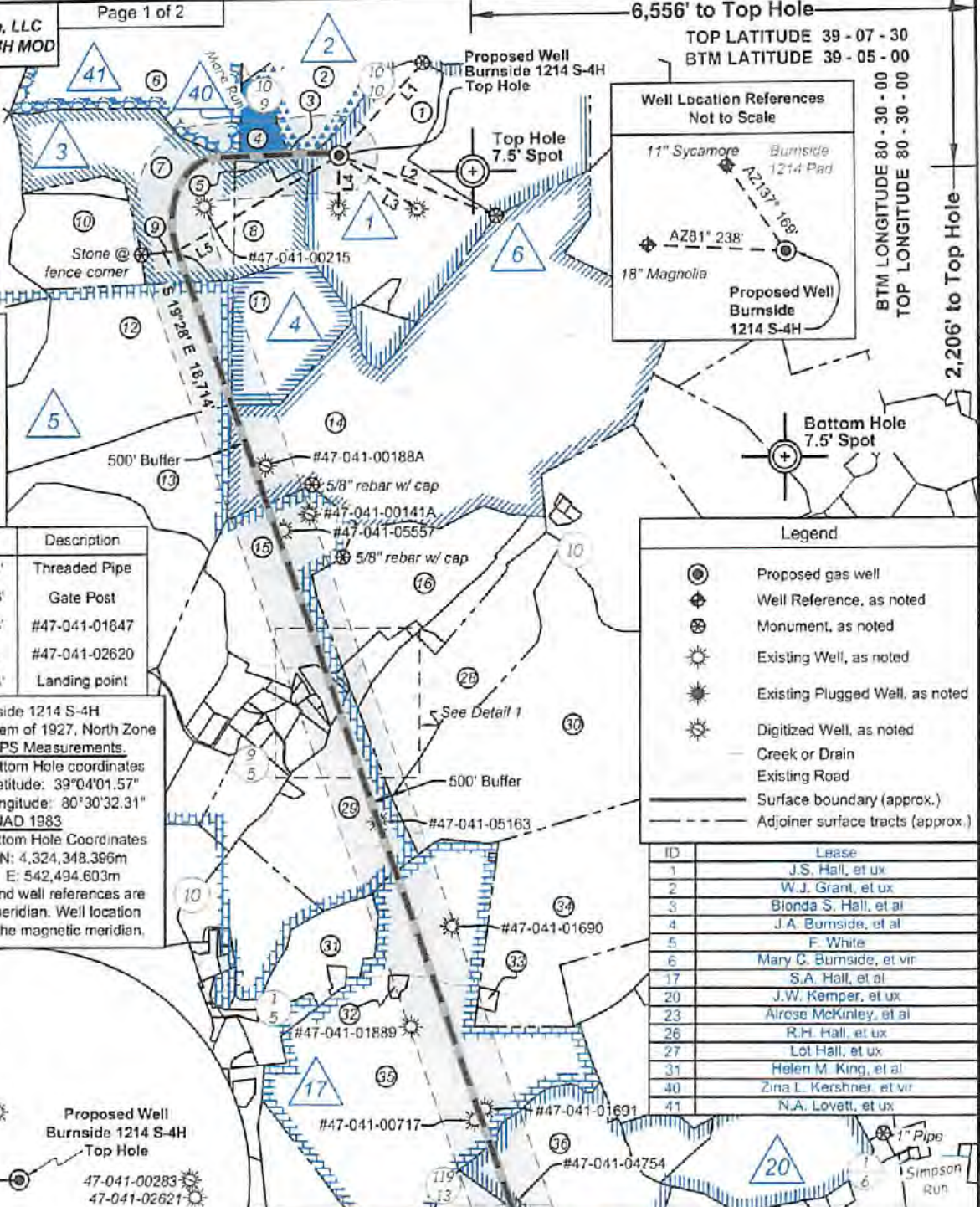
BTM LONGITUDE 80 - 30 - 00  
TOP LONGITUDE 80 - 30 - 00

2,206' to Top Hole  
5,909' to Bottom Hole

HG Energy II Appalachia, LLC  
Well No. Burnside 1214 S-4H MOD

Page 1 of 2

Notes:  
Well No. Burnside 1214 S-4H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,206,317.94'  
E: 1,775,721.61'  
Landing Point Coordinates  
N: 14,205,095.34'  
E: 1,773,604.89'  
Bottom Hole Coordinates  
N: 14,187,466.22'  
E: 1,779,834.36'



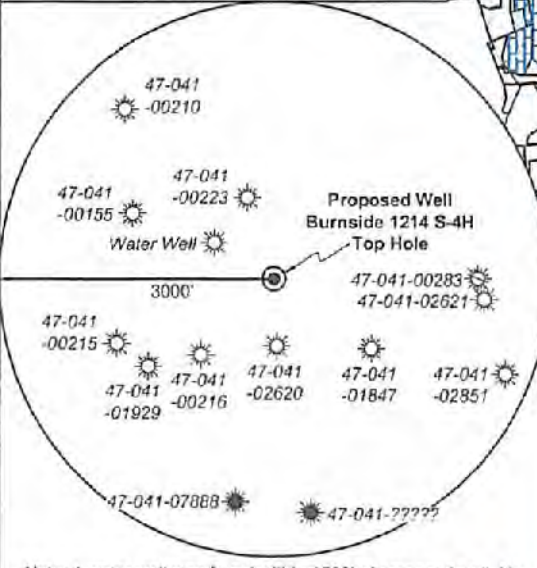
Tag	Bearing	Dist.	Description
L1	S 42°51' W	1,615.4'	Threaded Pipe
L2	N 88°52' W	2,183.3'	Gate Post
L3	N 55°02' W	1,232.3'	#47-041-01847
L4	N 01°22' E	682.3'	#47-041-02620
L5	S 59°59' W	2,444.4'	Landing point

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.)
- Adjoinder surface tracts (approx.)

Notes: Well No. Burnside 1214 S-4H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°07'08.19" Latitude: 39°04'01.57"  
Longitude: 80°31'23.21" Longitude: 80°30'32.31"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,330,094.412m N: 4,324,348.396m  
E: 541,241.033m E: 542,494.603m  
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

ID	Lease
1	J.S. Hall, et ux
2	W.J. Grant, et ux
3	Blonda S. Hall, et al
4	J.A. Burnside, et al
5	F. White
6	Mary C. Burnside, et vir
17	S.A. Hall, et al
20	J.W. Kemper, et ux
23	Aloise McKinley, et al
26	R.H. Hall, et ux
27	Lot Hall, et ux
31	Helen M. King, et al
40	Zina L. Kershner, et vir
41	N.A. Lovett, et ux



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.

Kevin S. James, P.S. 2305



FILE NO: 236-36-12-19  
DRAWING NO: Burnside 1214 S-4H 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

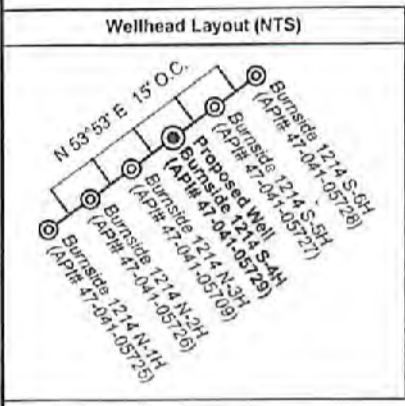
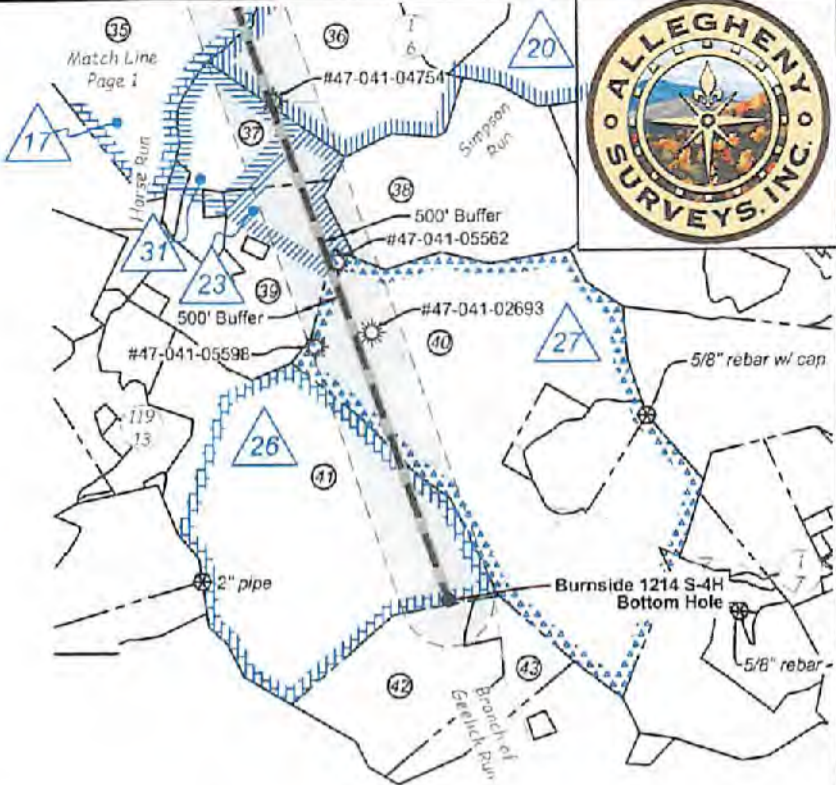
DATE: April 11 2022  
OPERATOR'S WELL NO. Burnside 1214 S-4H  
API WELL NO MOD  
47 - 041 - 05729  
STATE COUNTY PERMIT

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

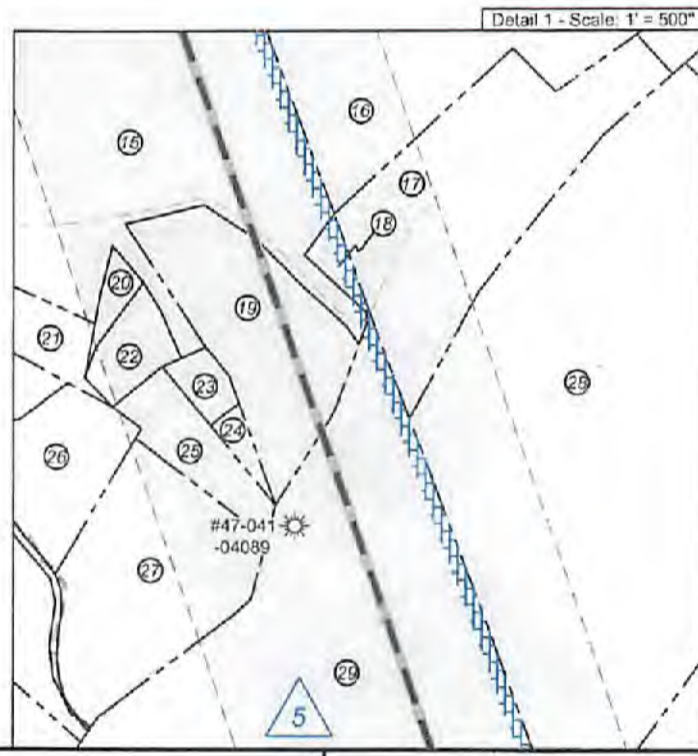
LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden  
DISTRICT: Freemans Creek COUNTY: Lewis  
SURFACE OWNER: John K. Burnside, et al ACREAGE: 115.05/13/2022  
ROYALTY OWNER: J.S. Hall, et ux, et al LEASE NO: ACREAGE: 214.08

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Curve, TVD, MD - MOD 6.212' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,956' 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



No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 3.2	John K. Burnside, et al	666 / 44	115.00
2	5C / 34	Karina K. Rowe	572 / 209	42.00
3	5C / 41.1	Mike Ross, Inc. and Waco Oil & Gas	676 / 133	2.09
4	5C / 35	Robert S. Giolfelty	339 / 241	14.77
5	5C / 36	Phillip E. Burnside	766 / 831	0.71
6	5C / 32	Robert S. Giolfelty	399 / 241	94.40
7	5C / 37	Phillip E. Burnside	766 / 831	83.75
8	5C / 41	Phillip E. Burnside	766 / 831	23.90
9	5C / 40	Phillip E. Burnside, et al	666 / 503	6.50
10	5C / 39	Phillip E. Burnside, et al	666 / 503	47.00
11	5C / 44	John K. & Reta L. Burnside	631 / 778	51.00
12	5C / 45	Phillip E. Burnside	666 / 503	121.42
13	5C / 46	Phillip E. Burnside	666 / 503	60.00
14	6C / 4	James M. Evans III, et al	657 / 228	294.00
15	5D / 60	William R. Fullineer, et al	627 / 496	74.71
16	6C / 6	Equitable Gas	216 / 185	65.55
17	5D / 63	Donald R. & Pamela J. Spinks	574 / 573	8.00
18	5D / 62	Donald R. & Pamela J. Spinks	574 / 573	0.34
19	5D / 80.10	William & Dixie Fullineer	591 / 48	5.02
20	5D / 80.17	Jason & Mandy Starcher	677 / 696	0.38
21	5D / 80.18	Edward Brightbill & Vicki A. Harper	750 / 120	1.23
22	5D / 80.16	Jason & Mandy Starcher	677 / 696	1.00
23	5D / 81.1	Randal & Agnes Starcher	440 / 500	0.52
24	5D / 60.8	Marie L. Sprouse	W9 / 190	0.31
25	5D / 61	Lillie M. Sprouse	W9 / 190	1.66
26	5D / 60.15	Jeremy Bruffey	715 / 454	2.86
27	5D / 60.14	Jeremy Bruffey	715 / 454	5.86
28	6D / 2	Robert L. & Lindsey R. Rittenhouse	691 / 794	74.75
29	5D / 59	James H. Hall Trust	199 / 488	73.25
30	6D / 3	James H. Hall Trust	WB H / 147	194.50
31	5D / 57	John Thomas Garrett, et al	728 / 296	28.70
32	5D / 68	Sue Ellen Hall	W34 / 597	1.33
33	6D / 5.1	Brooks D. & Mary L. Hall	361 / 739	1.51
34	6D / 5	David B. & Wendall S. Hall	W29 / 176	196.50
35	6D / 10	Sue E. Hall & Alice J. Fisher	W34 / 597	252.44
36	6D / 12	Bradford & Michelle Taylor	762 / 891	77.00
37	6E / 1	Bruce S. Kimmel	721 / 678	42.70
38	6E / 12	James E. Gray, et al	735 / 51	90.50
39	6E / 1.7	Patricia A. & Joel S. Harris	721 / 670	61.20
40	6E / 11.1	Heartwood Forestland Fund VII	666 / 124	235.87
41	6E / 4	Heartwood Forestland Fund VII	666 / 124	171.06
42	6E / 10	Heartwood Forestland Fund VII	666 / 124	51.75
43	6E / 9	Heartwood Forestland Fund VII	666 / 124	28.00



FILE NO: 236-36-12-19  
DRAWING NO: Burnside 1214 S-4H 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: April 11 2022  
OPERATOR'S WELL NO. Burnside 1214 S-4H  
API WELL NO. MOD  
47 - 041 - 05729  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: John K. Burnside, et al  
ROYALTY OWNER: J.S. Hall, et ux, et al LEASE NO: \_\_\_\_\_ ACREAGE: 214.08

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Curve, TVD, MD - MOD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,212' TVD 26,956' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5280 Dupont Road ADDRESS: 5280 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101

05/13/2022



2,547' to Bottom Hole

6,556' to Top Hole

5,909' to Bottom Hole

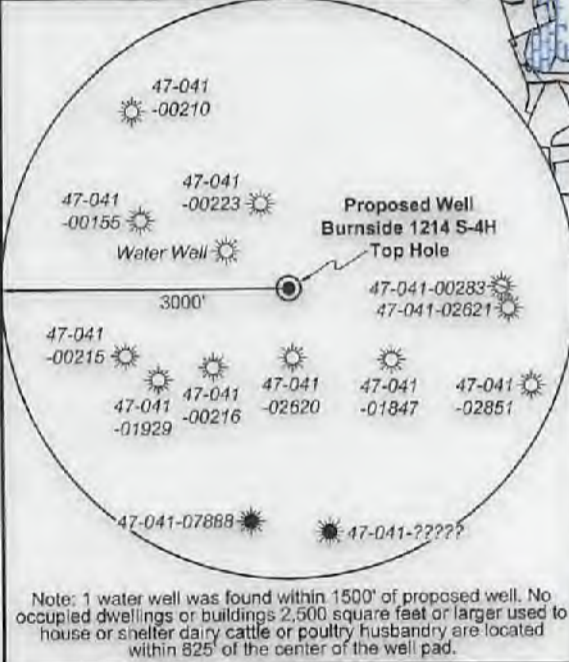
Page 1 of 2  
HG Energy II Appalachia, LLC  
Well No. Burnside 1214 S-4H MOD

Notes:  
Well No. Burnside 1214 S-4H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,206,317.94'  
E: 1,775,721.61'  
Landing Point Coordinates  
N: 14,205,095.34'  
E: 1,773,604.89'  
Bottom Hole Coordinates  
N: 14,187,466.22'  
E: 1,779,834.38'



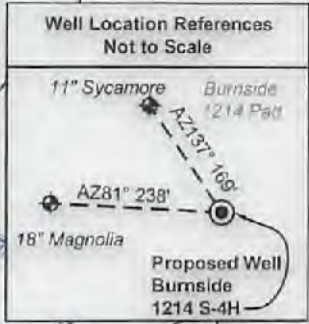
Tag	Bearing	Dist.	Description
L1	S 42°51' W	1,615.4'	Threaded Pipe
L2	N 68°52' W	2,183.3'	Gate Post
L3	N 55°02' W	1,232.3'	#47-041-01847
L4	N 01°22' E	682.3'	#47-041-02620
L5	S 59°59' W	2,444.4'	Landing point

Notes: Well No. Burnside 1214 S-4H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates    Bottom Hole coordinates  
Latitude: 39°07'08.19"    Latitude: 39°04'01.57"  
Longitude: 80°31'23.21"    Longitude: 80°30'32.31"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates    Bottom Hole Coordinates  
N: 4,330,094.412m    N: 4,324,348.396m  
E: 541,241.033m    E: 542,494.603m  
Plat orientation and corner and well references are  
based upon the grid north meridian. Well location  
references are based upon the magnetic meridian.



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.

*Kevin S. James*  
Kevin S. James, P.S. 2305



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.)
- Adjoiner surface tracts (approx.)

ID	Lease
1	J.S. Hall, et ux
2	W.J. Grant, et ux
3	Blonda S. Hall, et al
4	J.A. Burnside, et al
5	F. White
6	Mary C. Burnside, et vir
17	S.A. Hall, et al
20	J.W. Kemper, et ux
23	Arose McKinley, et al
26	R.H. Hall, et ux
27	Lot Hall, et ux
31	Helen M. King, et al
40	Zina L. Kershner, et vir
41	N.A. Lovett, et ux

FILE NO: 236-36-12-19  
DRAWING NO: Burnside 1214 S-4H 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

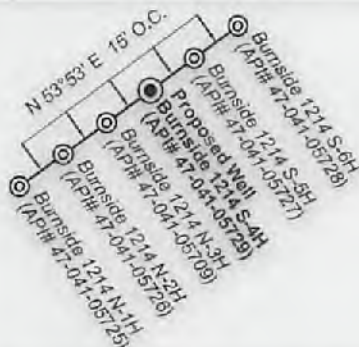
DATE: April 11 2022  
OPERATOR'S WELL NO. Burnside 1214 S-4H  
API WELL NO. ~~MD~~  
47 - 041 - 05729  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: John K. Burnside, et al  
ROYALTY OWNER: J.S. Hall, et ux, et al LEASE NO: ACREAGE: 214.08  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Curve, TVD, MD - MOD 6.212' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,956' 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



Wellhead Layout (NTS)



Lewis Co. - Freeman Creek Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 3.2	John K. Burnside, et al	666 / 44	115.00
2	5C / 34	Karina K. Rowe	572 / 209	42.00
3	5C / 41.1	Mike Ross, Inc. and Waco Oil & Gas	676 / 133	2.09
4	5C / 35	Robert S. Glofelty	339 / 241	14.77
5	5C / 36	Phillip E. Burnside	766 / 831	0.71
6	5C / 32	Robert S. Glofelty	399 / 241	94.40
7	5C / 37	Phillip E. Burnside	766 / 831	83.75
8	5C / 41	Phillip E. Burnside	766 / 831	23.90
9	5C / 40	Phillip E. Burnside, et al	666 / 503	6.50
10	5C / 39	Phillip E. Burnside, et al	666 / 503	47.00
11	5C / 44	John K. & Reta L. Burnside	631 / 778	51.00
12	5C / 45	Phillip E. Burnside	666 / 503	121.42
13	5C / 46	Phillip E. Burnside	666 / 503	60.00
14	6C / 4	James M. Evans III, et al	657 / 228	294.00
15	5D / 60	William R. Fullineer, et al	627 / 496	74.71
16	6C / 6	Equitable Gas	216 / 185	65.55
17	5D / 63	Donald R. & Pamela J. Spinks	574 / 573	8.00
18	5D / 62	Donald R. & Pamela J. Spinks	574 / 573	0.34
19	5D / 60.10	William & Dixie Fullineer	591 / 48	5.02
20	5D / 60.17	Jason & Mandy Starcher	677 / 696	0.38
21	5D / 60.18	Edward Brightbill & Vicki A. Harper	750 / 120	1.23
22	5D / 60.16	Jason & Mandy Starcher	677 / 696	1.00
23	5D / 61.1	Randall & Agnes Starcher	440 / 500	0.52
24	5D / 60.8	Marie L. Sprouse	W9 / 190	0.31
25	5D / 61	Lillie M. Sprouse	W9 / 190	1.66
26	5D / 60.15	Jeremy Bruffey	715 / 454	2.86
27	5D / 60.14	Jeremy Bruffey	715 / 454	5.86
28	6D / 2	Robert L. & Lindsey R. Rittenhouse	691 / 794	74.75
29	5D / 59	James H. Hall Trust	199 / 488	73.25
30	6D / 3	James H. Hall Trust	WB H / 147	194.50
31	5D / 57	John Thomas Garrett, et al	728 / 296	28.70
32	5D / 68	Sue Ellen Hall	W34 / 597	1.33
33	6D / 5.1	Brooks D. & Mary L. Hall	361 / 739	1.51
34	6D / 5	David B. & Wendall S. Hall	W29 / 176	196.50
35	6D / 10	Sue E. Hall & Alice J. Fisher	W34 / 597	252.44
36	6D / 12	Bradford & Michelle Taylor	762 / 891	77.00
37	6E / 1	Bruce S. Kimmel	721 / 676	42.70
38	6E / 12	James E. Gray, et al	735 / 51	90.50
39	6E / 1.7	Patricia A. & Joel S. Harris	721 / 670	61.20
40	6E / 11.1	Heartwood Forestland Fund VII	666 / 124	235.87
41	6E / 4	Heartwood Forestland Fund VII	666 / 124	171.06
42	6E / 10	Heartwood Forestland Fund VII	666 / 124	51.75
43	6E / 9	Heartwood Forestland Fund VII	666 / 124	28.00

Detail 1 - Scale: 1" = 500'



FILE NO: 236-36-12-19  
DRAWING NO: Burnside 1214 S-4H 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: April 11, 2022  
OPERATOR'S WELL NO. Burnside 1214 S-4H  
API WELL NO. MoD  
47 - 041 - 05729  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek

QUADRANGLE: Camden

DISTRICT: Freemans Creek

COUNTY: Logan

SURFACE OWNER: John K. Burnside, et al

ACREAGE: 115.00

ROYALTY OWNER: J.S. Hall, et ux, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 214.08

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Curve, TVD, MD - MOD

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,956' MD

WELL OPERATOR: HG Energy II Appalachia, LLC  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

HG Energy II Appalachia, LLC - Burnside 1214 S-4H

1214S Tract	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE				
/ 1	FK053143	03-006C-0003-0000 03-006C-0003-0001 03-005C-0042-0000	Q101021000	J. S. HALL AND CORA A. HALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	94				
				SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127				
				HOPE NATURAL GAS COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	79	370				
				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				
				/ 2	FK061776	03-005C-0034-0000	Q100936000	W. J. GRANT AND ADDIE J. GRANT, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	209	438
								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				
/ 3	FK064784	03-005C-0037-0000 03-005C-0040-0000 03-005C-0041-0000	Q101057000	BLONDA S. HALL AND LUCY S. HALL, HIS WIFE; JAMES H. HALL AND PATRICIA HALL, HIS WIFE; MABEL HALL, WIDOW; MARJORIE HALL COSBY AND ROBERT S. COSBY, JR., HER HUSBAND; ROBERTA HALL STEPHENS AND CHARLES H. STEPHENS, HER HUSBAND; MABEL JANE HALL GIBBS; AND, HERBERT F. GIBBS, JR., HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	222	449				
				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
				DOMINION 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
5	FK053097	p/o 03-005C-0022-0000 p/o 03-005C-0022-0001 p/o 03-005C-0025-0000 p/o 03-005C-0027-0002 03-005C-0045-0000 03-005C-0046-0000 03-005D-0020-0000 p/o 03-005D-0035-0000 p/o 03-005D-0036-0000 03-005D-0036-0001 03-005D-0036-0002 03-005D-0037-0000 03-005D-0038-0000 03-005D-0060-0000 03-005D-0060-0001 THRU 03-005D-0060-0015 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
				DOMINION 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
4	FK064266	03-005C-0044-0000	Q100978000	J. A. BURNSIDE AND BLANCHE BURNSIDE, HIS WIFE; J. S. HALL, WIDOWER; AND CLAYTON HALL AND NADINE HALL, HIS WIFE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	220	307
				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
				DOMINION 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
				MARY C. BURNSIDE AND JOHN L. BURNSIDE, HER HUSBAND	A. W. WOODFORD AND GEO. E. MCGUIRE	NOT LESS THAN 1/8	33	431
				A. W. WOODFORD	J. M. GUFFEY AND J. H. GALEY	ASSIGNMENT	33	515
				J. M. GUFFEY AND J. H. GALEY	THE PHILADELPHIA COMPANY OF WEST VIRGINIA	ASSIGNMENT	44	583
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	ASSIGNMENT	125	379
				THE PHILADELPHIA COMPANY OF WEST VIRGINIA	THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	DEED	125	371
				THE PITTSBURGH AND WEST VIRGINIA GAS COMPANY	EQUITABLE GAS COMPANY	DEED	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	
6	FK052229	03-005C-0043-0000 03-006C-0004-0000	Q100759000	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
				DOMINION 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
17	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
20		03-006D-0011-0000 03-006D-0012-0000 03-006D-0017-0000 03-006D-0017-0001		J. W. KEMPER SR. AND H. S. KEMPER, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	268
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	MERGER/NAME CHANGE	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.	DOMINION EXPLORATION & PRODUCTION INC.	CONFIRMATORY ASSIGNMENT	620	139
				DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
				DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION, INC.	ASSIGNMENT OF HYDROCARBON LEASES	651	225
				DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				CONSOL ENERGY HOLDINGS LLC XVI	CONSOL GAS COMPANY	MERGER/NAME CHANGE	9	471
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
31	111970000	p/o 03-006E-0001-0000 p/o 03-006E-0001-0006 p/o 03-006E-0001-0009	CNX111970000	HELEN M. KING ET AL	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	314	34
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	432	633
				CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPA+C122:F130NY	MERGER/NAME CHANGE	WVSOS	
				CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58	366
				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	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
23	112544000	p/o 03-006E-0001-0000 03-006E-0001-0001 03-006E-0001-0006 03-006E-0001-0007	CNX112544000	ALROSE MCKINLEY, DIVORCED; MARIAN MCKINLEY CHALFANT AND B. Y. CHALFANT, HER HUSBAND; LORRAINE MCKINLEY BLACKWOOD, WIDOW	CONSOLIDATED GAS SUPPLY CORPORATION	NOT LESS THAN 1/8	329	29
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	432	633
				CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS	
				CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	58	366
				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	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
				R. H. HALL, ET UX	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	278

26	53244	03-006E-0011-0000 03-006E-0011-0001 03-006E-0011-0002	CNX053244 AGREEMENT 131356000	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 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	MERGER/NAME CHANGE	WVSOS	
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS	
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170
27	53107	03-006E-0004-0000	CNX053107 AGREEMENT 131324000	LOT HALL AND BIRD HALL, HISWIFE	EASTERN OIL COMPANY	NOT LESS THAN 1/8	40	151
				EASTERN OIL COMPANY	BUCKHANNON GAS COMPANY	ASSIGNMENT	40	578
				BUCKHANNON GAS COMPANY	J.S. GLENN	ASSIGNMENT	85	98
				J.S. GLENN	SOUTHERN OIL COMPANY	ASSIGNMENT	85	98
				SOUTHERN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	85	106
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	158	575
				HOPE NATURAL GAS COMPANY	LURAY LAND INC.	ASSIGNMENT	260	232
				LURAY LAND INC.	CONSOLIDATED GAS SUPPLY CORPORATION	ASSIGNMENT	294	434
				CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	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 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	MERGER/NAME CHANGE	WVSOS					
CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471				
CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS					
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				
40	FK064311	03-005C-0035-0000	Q100856000	ZINA L. KERSHNER AND F. H. KERSHNER, HER HUSBAND	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	221	97
				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
				DOMINION 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
N. A. LOVETT AND S. E. A. LOVETT, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	109				
SOUTH PENN OIL COMPANY	HOPE NATURAL GAS COMPANY	ASSIGNMENT	85	127				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294	89				
CONSOLIDATED GAS SUPPLY CORPORATION	CONSOLIDATED GAS TRANSMISSION CORPORATION	ASSIGNMENT	425	127				

41	FK053161	03-005C-0032-0000 03-005C-0033-0000	Q100334000	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
				DOMINION 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



Stansberry, Wade A <wade.a.stansberry@wv.gov>

**Modifications H6A Horizontal Well Work Permit (API: 47-041-05709, 05725, 05726, 05727, 05728, 05729)**

1 message

**Stansberry, Wade A** <wade.a.stansberry@wv.gov>

Mon, May 9, 2022 at 12:24 PM

To: Diane White <dwhite@hgenergyllc.com>, John Breen <jbreen@assessor.state.wv.us>, "Ward, Samuel D" <samuel.d.ward@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

- 47-041-05709 - BURNSIDE 1214 N-3H
- 47-041-05725 - BURNSIDE 1214 N-1H
- 47-041-05726 - BURNSIDE 1214 N-2H
- 47-041-05727 - BURNSIDE 1214 S-5H
- 47-041-05728 - BURNSIDE 1214 S-6H
- 47-041-05729 - BURNSIDE 1214 S-4H

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

**Wade A. Stansberry**

**Environmental Resource Specialist 3**

**West Virginia Department of Environmental Protection**

**Office of Oil & Gas**

**601 57th St. SE**







**Charleston, WV 25304**

**(304) 926-0499 ext. 41115**

**(304) 926-0452 fax**

**[Wade.A.Stansberry@wv.gov](mailto:Wade.A.Stansberry@wv.gov)**

**6 attachments**

-  **47-041-05709 - mod.pdf**  
1697K
-  **47-041-05726 - mod.pdf**  
2104K
-  **47-041-05727 - mod.pdf**  
1686K
-  **47-041-05728 - mod.pdf**  
1709K
-  **47-041-05729 - mod.pdf**  
1644K
-  **47-041-05725 - mod.pdf**  
1884K

05/13/2022