



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, January 28, 2019
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

Re: Permit Modification Approval for STICKEL 1210 S-1H
47-033-05925-00-00

Modified Lateral for Extension for a TMD of 22,004' and Casing Modification

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, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: STICKEL 1210 S-1H
Farm Name: DANNY & ALICIA STICKEL
U.S. WELL NUMBER: 47-033-05925-00-00
Horizontal 6A New Drill
Date Modification Issued: January 28, 2019

Promoting a healthy environment.

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

1) Well Operator: HG Energy II Appalachia, Inc. 494519932 Harrison Union West Milford 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Stickel 1210 S-1H Well Pad Name: Stickel 1210

3) Farm Name/Surface Owner: Danny & Alicia Stickel Public Road Access: Kincheloe Run Rd/SLS 35

4) Elevation, current ground: 989' Elevation, proposed post-construction: 994'

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 6863'/6914' and 51' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6900'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22,004'

11) Proposed Horizontal Leg Length: 13,724'

12) Approximate Fresh Water Strata Depths: 135', 500'

13) Method to Determine Fresh Water Depths: Nearest offset well data

14) Approximate Saltwater Depths: None noted in offsets

15) Approximate Coal Seam Depths: 660' to 665'

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: _____

SDEW
11/26/2018

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WW-6B
(04/15)

4703505925 MOD
 API NO. 47-5925 MOD
 OPERATOR WELL NO. Stickle 1210 S-1H
 Well Pad Name: Stickle 1210

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	100'	100'	Drilled In
Fresh Water	20"	NEW	J-55	94	600'	600'	CTS 30% excess yield = 1.20, CTS
Coal	13 3/8"	NEW	J-55	54.5	1635'	1635'	40% excess yield = 1.20, CTS
Intermediate	9 5/8"	NEW	J-55	40	2500'	2500'	40% excess yield Lead/ 0% Excess Tail
Production	5 1/2"	NEW	P-110	23	22004'	22004'	20% excess yield = 1.10, tail yield = 1.00
Tubing							
Liners							

*S Dew
11/26/2018*

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				CTS
Fresh Water	20"	24"	.438	2110	1200	Type 1, Class A	30 % excess yield = 1.20, CTS
Coal	13 3/8"	17 1/2"	.380	2730		Type 1/Class A	40% excess yield = 1.20, CTS
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	40% excess yield = 0% Excess Lead
Production	5 1/2"	8 1/2"	.415	14520	12500	Type 1/Class A	20% excess yield = 1.10, tail yield = 1.00
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

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 6900 feet. Drill horizontal leg to estimated 13724 TMD, 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.

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): 3.456 acres

22) Area to be disturbed for well pad only, less access road (acres): 3.0 acres

23) Describe centralizer placement for each casing string:

No centralizers will be used with conductor casing. Freshwater every 3 joints to surface. Coal - Bow Spring on first 2 joints then every third joint to 100' from surface. Intermediate - 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 - 15.6 ppg PNE-1 + 3% bwoc CaCl₂, 40% Excess Yield = 1.20/ CTS*
Coal - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess, CTS*
Intermediate - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂ 40% 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 MPA170, Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA17020% Excess/Lead Yield=1.19/Tail Yield=1.94/CTS*

25) Proposed borehole conditioning procedures:

Conductor - Ensure the hole is clean at TD.
Fresh Water - Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.
Coal - Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.
Intermediate - 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.



Stickel 1210 S-1H
Macellus Shale Horizontal
Harrison County, WV

Ground Elevation		1019'		Stickel 1210 S-1H SHL				235391.21N 1727669.46E			
Azm		161.492°		Stickel 1210 S-1H LP				233088.95N 1725483.5E			
WELLBORE DIAGRAM		161.492°		Stickel 1210 S-1H BHL				221143.51N 1729482.16E			
HOLE	CASING	GEOLOGY	TOP	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS		
30"	30" 157.5# LS	Conductor	0	100	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		
		Fresh Water	0	135	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		
17.5"	13-3/8" 54.5# J-55 BTC	Kittaning Coal	660	665	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 every joint	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.380" wall thickness Burst=2730 psi		
		Little/Big Lime	1126 / 1167	1151 / 1243							
		Injun / Gantz (Storage)	1243 / 1535	1349 / 1585							
		Intermediate 1 (Shoe 50' below storage)	0	1635							
12.25"	9-5/8" 40# J-55 BTC	Fifty / Thirty Foot	1650 / 1730	1697 / 1742	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=3950 psi		
		Gordon Stray / Gordon	1785 / 1850	1850 / 1940							
		5th Sand	2035	2070							
		Bayard Sand	2125	2160							
8.5" Vertical	5-1/2" 23# P-110 HC CDC HTQ	Speechley	2745	2763	9.0ppg SOBM	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.	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=14520 psi Note: Actual centralizer schedules may be changed due to hole conditions		
		Balltown	2965	3005							
		Benson	4050	4083							
		West Falls	4620	5865							
		Rhinestreet	5865	6140							
		Cashaqua	6140	6341							
		Middlesex	6341	6421							
		West River	6421	6514							
		Burkett	6514	6540							
		Tully Limestone	6540	6644							
Hamilton	6644	6863									
8.5" Curve	5-1/2" 23# P-110 HC CDC HTQ	Marcellus	6863	6914	11.5ppg-12.5ppg SOBM		Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.				
		TMD / TVD (Production)	22004	6900							
		Onondaga	6914								

LP @ 6900' TVD / 8280' MD

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

+/-13724' ft Lateral

TD @ +/-6900' TVD
+/-22004' MD

X=centralizers

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HG Energy II Appalachia, LLC
Revised Lease Chain - Stickel 1210 N-1H

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Legacy Lease Number	HG ENERGY II APALACHIA LEASE NUMBER	MPID	Original Lessor	Original Lessee	Agreement Type	Royalty	Book	Page
A) FK013939	Q100459000	HARRISON COUNTY: 20-444-19; 20-444-19.1; 20-444-19.2; 20-444-19.3; 20-444-19.4; 20-444-19.5; 20-444-19.6; 20-444-19.7; 20-444-19.8; 20-19.9; 20-444-19.10; 20-444-19.11; 20-444-19.12; 20-444-19.13	A.W. Rhodes and Mary Rhodes, his wife	Hope Natural Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 175	162
			Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 903	179
			Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment		DB 1136	250
			Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
			CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		WV SOS	
			Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 1522	33
			Dominion Transmission, Inc.	CNX Gas Company LLC	Farmout Amendment		DB 1524	491
			CNX Gas Company LLC	Noble Energy, Inc.	Limited Partial Assignment (50%)		DB 1543	1235
			Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy, Inc.	Partial Assignment (32%)		DB 1576	125
			CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 1584	942
			Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 1600	660
			Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 1600	692
			Dominion Energy Transmission, Inc. Dominion Energy Transmission, Inc.	Dominion Energy Transmission, Inc. HG Energy II Appalachia LLC	Merger/Name Change Farmout Amendment		WV SOS DB 1601	 581
B FK053278	Q100388000	LEWIS COUNTY: 03-007B-0023-0000; 03-007B-023-0001 AND 03-007B-0023-0002	W.E. Beeghley and Harriet Beeghley, his wife	Lloyd Beeghley and Lloyd Rinehart	Oil And Gas Lease	NOT LESS THAN 1/8	DB 65	404
			Lloyd Beeghley and Lloyd Rinehart	Lloyd Rinehart	Assignment		DB 66	578
			Lloyd Rinehart	Reserve Gas Company	Assignment		DB 66	576
			Reserve Gas Company	Hope Natural Gas Company	Merger/Name Change		DB 155	202
			Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
			Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment		DB 425	127
			Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
			CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
			Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
			CNX Gas Company LLC	Noble Energy, Inc.	Limited Partial Assignment (50%)		DB 684	57

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Legacy Lease Number	HG ENERGY II APALACHIA LEASE NUMBER	MPID	Original Lessor	Original Lessee	Agreement Type	Royalty	Book	Page
			Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy, Inc.	Partial Assignment (32%)		DB 712	848
			CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
			Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
			Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
			Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
			Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
C ↓	FK053259	Q100674000	21-03-007B-0003-0000, 21-03-007B-0004-0000	WILLIAM E BEEGHLEY AND HARRIET BEEGHLEY	RESERVE GAS COMPANY	NOT LESS THAN 1/8	68	302
				RESERVE GAS COMPANY	HOPE NATURAL GAS COMPANY	FEE COVEYANCE	155	202
				HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPERATION	MERGER/NAME CHANGE	294	89
				CONSOLIDATED GAS SUPPLY CORPERATION	CORPERATION	ASSIGNMENT	425	127
				CONSOLIDATED GAS TRANSMISSION CORPERATION	CNG GAS TRANSMISSION CORPERATION	MERGER/NAME CHANGE	SEC. OF STATE WEBSITE	
				CNG GAS TRANSMISSION CORPERATION	DOMINION TRANSMISSION, INC	MERGER/NAME CHANGE	SEC. OF STATE WEBSITE	
				DOMINION TRANSMISSION, INC	CONSOL ENERGY HOLDINGS LLC	ASSIGNMENT	651	318
				DOMINION TRANSMISSION, INC	CNX GAS COMPANY, LLC	FARMOUT AGREEMENT	672	154
				CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	LIMITED PARTIAL ASSIGNMENT OF FARMOUT	684	57
				CNX GAS COMPANY, LLC	NOBLE ENERGY, INC	ASSIGNMENT	717	1
			NOBLE ENERGY, INC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT		722	170
			Arthur D. Beeghley and Etta M. Beehley, his wife	Hope Natural Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 219	490
			Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
			Consolidated Gas Supply Corporation	Corporation	Assignment		DB 425	127
			Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
			Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
			CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
			CNX Gas Company LLC	Noble Energy, Inc.	(50%)		DB 684	57

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	Legacy Lease Number	HG ENERGY II APALACHIA LEASE NUMBER	MPID	Original Lessor	Original Lessee	Agreement Type	Royalty	Book	Page
C/D	FK064208	Q100594000	LEWIS COUNTY: 03-0007B-0006-0000-0000	Dominion Transmission, Inc.	Energy Inc.	Partial Assignment (32%)		DB 712	848
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
				Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
D	FK064207	Q100296000	LEWIS COUNTY: 03-0007B-0007-0000-0000	Arthur D. Beeghley and Etta M. Beehley, his wife	Hope Natural Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 219	503
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
				CNX Gas Company LLC	Noble Energy, Inc.	(50%)		DB 684	57
				Dominion Transmission, Inc.	Energy Inc.	Partial Assignment (32%)		DB 712	848
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
				Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
				James M. Beeghley and Etta M. Beehley, his wife	Reserve Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 68	300
				Reserve Gas Company	Hope Natural Gas Company	Merger/Name Change		DB 155	202
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89

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E ✓	FK053257	Q101026000	LEWIS COUNTY: 03-0007B-0008-0000-0000	Consolidated Gas Supply Corporation	Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
				CNX Gas Company LLC	Noble Energy, Inc.	(50%)		DB 684	57
				Dominion Transmission, Inc.	Energy Inc.	Partial Assignment (32%)		DB 712	848
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				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Assignment		DB 723	527 ✓
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499 ✓
F ✓	FK053242 FK108141	Q100279000	LEWIS COUNTY: 03-007B-0021-0000; 03-007B-0021-0000; 03-007B-0022-0000 and p/o 03-007b-0010-0001	Geo M. Neely and M.G. Neely, his wife; and Nelson Reed and B.J. Reed, his wife	Reserve Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 68	235
				Reserve Gas Company	Hope Natural Gas Company	Merger/Name Change		DB 155	202
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
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				Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
				CNX Gas Company LLC	Noble Energy, Inc.	Limited Partial Assignment (50%)		DB 684	57
				Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy Inc.	Partial Assignment (32%)		DB 712	848
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
				Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
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				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
			Lloyd Beeghley and Hattie Beeghley	Hope Natural Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 209	416	

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G ✓	FK061773	Q100498000	LEWIS COUNTY: 03-007B-0020-0000	Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
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				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
H ✓	FK 064783 M208276	Q100558000	LEWIS COUNTY: 03-007B-0017-0000; 03-007B-0018-0000; 03-007B-0019-0000; 03-007B-0032-0001; 03-007B-0031-0001; AND 03-007B-0035-0000	Maudie Barb, widow; James Barb, single; Francis W. Smith and Wavelene Smith, his wife; George H. Smith and Virginia L. Smith, his wife; Ida Musser Post, single; Lummie E. Nicholson, widow; Versie M. Kelly and O.W. Kelly, her husband; Lloyd Minter and Addie V. Minter, his wife; Bertha Brinkley and Allman Brinkley, her husband; Ann Patton, single; Geraldine Wolverton and Harold G. Wolverton, her husband; Fred C. Nicholson and Elizabeth Nicholson, his wife; Helen Ehase and Michael Ehase, her husband; Harold J. Plunkett, a married woman, living separate and apart from her husband; Mary Katherine Kearney and James J. Kearney, her husband; Orval L. Musser, single; Herbert H. Post and Nelly D. Post, his wife; W.G. Post and Effie Post, his wife; Bessie A. Horne and C.S. Horne, her husband; Lacy Barbe and Cusie Barbe, his wife; Myrtle Barbe, wife of Clarence Barbe; Mary R. Minter, single; Zella B. Barbe, single	Hope Natural Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 223	169
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
				Dominion Transmission, Inc.	CNX Gas Company LLC	Memo of Farmout		DB 672	154

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Legacy Lease Number	HG ENERGY II APALACHIA LEASE NUMBER	MPID	Original Lessor	Original Lessee	Agreement Type	Royalty	Book	Page
			CNX Gas Company LLC	Noble Energy, Inc.	Limited Partial Assignment (50%)		DB 684	57
			Dominion Transmission, Inc.	Energy, Inc.	Partial Assignment (32%)		DB 712	848
			CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
			CNX Gas Company LLC	Noble Energy, Inc.	Assignment		752	784
			Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
			Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
			Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
			Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
			John S. Barb and Minnie A. Barb, his wife	Reserve Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 71	538
			Reserve Gas Company	Hope Natural Gas Company	Merger/Name Change		DB 155	202
			Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
			Consolidated Gas Supply Corporation	Corporation	Assignment		DB 425	127
			Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
			CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
			Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
			CNX Gas Company LLC	Noble Energy, Inc.	(50%)		DB 684	57
			Dominion Transmission, Inc.	Energy, Inc.	Partial Assignment (32%)		DB 712	848
			CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
			Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
			Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
			Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527
			Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
			C.W. Smith and S.A. Smith, his wife	Reserve Gas Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 68	136

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J ✓

LEWIS COUNTY: 03-007C-0061-000; 030-007C-0062-000; and 03-007C-0062-0001

4703305925 MOD

	Legacy Lease Number	HG ENERGY II APALACHIA LEASE NUMBER	MPID	Original Lessor	Original Lessee	Agreement Type	Royalty	Book	Page
K ✓	FK053232	Q100900000	LEWIS COUNTY: 03-007C-0057-000; 03-0007C-0057-0001; 03-0007C-0057-0002 and p/o 03-0007C-0041-0000	Reserve Gas Company	Hope Natural Gas Company	Merger/Name Change		DB 155	202
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
				Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
				CNX Gas Company LLC	Noble Energy, Inc.	Limited Partial Assignment (50%)		DB 684	57
				Dominion Transmission, Inc.	CNX Gas Company LLC and Noble Energy Inc.	Partial Assignment (32%)		DB 712	848
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
				Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Assignment		DB 723	527
L ✓	FK065412	Q101062000	LEWIS COUNTY: 03-007C-0066-0000 and 03-007C-0066-0001	Dawson and N.B. Dawson, her husband; Effie M. Strother	Hope Natural Gas Company	Oil And Gas Lease	THAN 1/8	DB 230	20
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				Dominion Transmission, Inc.	CNX Gas Company LLC	Memorandum of Farmout		DB 672	154
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
				CNX Gas Company LLC	Noble Energy, Inc.	(50%)		DB 684	57
				Dominion Transmission, Inc.	Energy Inc.	Partial Assignment (32%)		DB 712	848
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1

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	Legacy Lease Number	HG ENERGY II APALACHIA LEASE NUMBER	MPID	Original Lessor	Original Lessee	Agreement Type	Royalty	Book	Page
				Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
				Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS	
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Assignment		DB 723	527
				Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499
M ✓	FK053192	Q101144000	LEWIS COUNTY: 03-7C-0068-0000; 03-7C-0068-0001; 03-7C-0068-0002; 03-7C-0068-0003; 03-7C-0068-0004; 03-7C-0069-0001; 03-7C-0070-0000; 03-7C-0070-0001; 03-7C-0070-0002; 03-7C-0070-0003; 03-7C-0071-0001; 03-7C-0071-0002; 03-7C-0072-0000; 03-7C-0072-0001; 03-7C-0072-0002 AND PART OF 03-01-0069-0000	N.L. Allman and L.M. Allman, her husband	South Penn Oil Company	Oil And Gas Lease	NOT LESS THAN 1/8	DB 42	20
				South Penn Oil Company	Hope Natural Gas Company	Assignment		DB 85	127
				Hope Natural Gas Company	Reserve Gas Company	Assignment		DB 79	370
				South Penn Oil Company	Reserve Gas Company	Assignment		DB 79	237
				Reserve Gas Company	Hope Natural Gas Company	Merger/Name Change		DB 155	202
				Hope Natural Gas Company	Consolidated Gas Supply Corporation	Merger/Name Change		DB 294	89
				Consolidated Gas Supply Corporation	Consolidated Gas Transmission Corporation	Assignment		DB 425	127
				Consolidated Gas Transmission Corporation	CNG Transmission Corporation	Merger/Name Change		WV SOS	
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		WV SOS	
				Dominion Transmission, Inc.	CNX Gas Company, LLC	Memorandum of Farmout		DB 672	154
				CNG Transmission Corporation	Dominion Transmission, Inc.	Merger/Name Change		CORP 9	628
				CNG Gas Company LLC	Noble Energy, Inc.	Limited Partial Assignment (50%)		DB 684	57
				Dominion Transmission, Inc.	CNX Gas Company, LLC and Noble Energy, Inc.	Partial Assignment (32%)		DB 712	848
				CNX Gas Company LLC	Noble Energy, Inc.	Assignment		DB 717	1
				CNX Gas Company LLC	Noble Energy, Inc.	Corrective Assignment		DB 725	784
				Noble Energy, Inc.	HG Energy II Appalachia LLC	Assignment		DB 722	139
Dominion Transmission, Inc.	Dominion Energy Transmission, Inc.	Merger/Name Change		WV SOS					
Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Second Amendment to Farmout		DB 723	499				
Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Amended and Restated Partial Assignment		DB 723	527				
N ✓	FK052975	DTI FEE		Dominion Energy Transmission, Inc.	HG Energy II Appalachia LLC	Memorandum of Lease	Not less than 1/8	723	506

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BHL is located on topo map 7,896 feet south of Latitude: 39° 07' 30"
 SHL is located on topo map 8,845 feet south of Latitude: 39° 10' 00"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

BHL is located on topo map 10,324 feet west of Longitude: 80° 25' 00"
 SHL is located on topo map 464 feet west of Longitude: 80° 27' 30"

	LESSOR	DIST-TM/PAR
A	A. W. RHODES ET UX	20-444/19.2
B	W. E. BEEGHLEY ET AL	3-7B/23
C	WILLIAM BEEGHLEY ET UX	
D	ARTHUR D. BEEGHLEY ET UX	
C/D	ARTHUR D. BEEGHLEY ET UX	
E	JAMES M. BEEGHLEY ET UX	
F	GEORGE W. NEELY ET AL	3-7B/22
		3-7B/21
G	LLOYD BEEGHLEY ET AL	3-7B/20
H	MAUDIE BARB ET AL	3-7B/17
		3-7B/18
J	JOHN S. BARB ET UX	3-7C/61
K	C. W. SMITH & ET AL	3-7C/57.4
		3-7C/57
L	E. C. STROTHER & ET AL	3-7C/66.1
M	N. L. ALLMAN ET VIR	3-1/69
N	DOMINION ENERGY TRANSMISSION, INC. TO HG ENERGY, LLC	3-1/37
		3-1/38
		3-1/64
		3-1/60
		3-1/63
		3-1/69
		3-1/71
		3-1/74

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
 N:4332716.044
 E:546668.470
 NAD27, WV NORTH
 N:235391.208
 E:1727669.464
 LAT/LON DATUM-NAD83
 LAT:39.142383
 LON:-80.459969

APPROX. LANDING POINT
UTM 17-NAD83
 N:4332327.330
 E:545899.780
 NAD27, WV NORTH
 N:234157.640
 E:1725125.760
 LAT/LON DATUM-NAD83
 LAT:39.138922
 LON:-80.468891

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
 N:4328384.670
 E:547292.970
 NAD27, WV NORTH
 N:221143.505
 E:1729482.161
 LAT/LON DATUM-NAD83
 LAT:39.103319
 LON:-80.453044



	SURFACE OWNER	DIST-TM/PAR
1	DANNY LEE & ALICIA A. STICKEL	20-444/19.2
2	ATLANTIC COAST PIPELINE, LLC	3-7B/23
3	CNX GAS COMPANY, LLC	3-7B/22
4	JOHN J. OLDAKER, JR.	3-7B/21
5	JOHN J. OLDAKER, JR.	3-7B/20
6	JOHN J. OLDAKER, JR.	3-7B/17
7	JOHN J. OLDAKER, JR.	3-7B/18
8	LYNWOOD L. & DONNA S. WOLFE	3-7C/61
9	*MARY JANE BAILEY	3-7C/35
10	LYNWOOD L. WOLFE	3-7C/57.2
11	LYNWOOD L. WOLFE	3-7C/57.1
12	LYNWOOD L. & DONNA S. WOLFE	3-7C/57.4
13	*WOLFE PAVING INCORPORATED	3-7C/57.3
14	JERRY L. WOLFE	3-7C/57
15	JOSHUA V. & MARSHA T. GARTON	3-7C/66.1
16	*JOHN RUSSELL & BLANCHE DARLENE MARSH	3-1/37
17	KEVIN S. ROSS	3-1/38
18	ROSE MARY JACKSON (LIFE)	3-1/64
19	ROSE MARY JACKSON	3-1/60
20	GALE BROWN (LIFE)	3-1/63
21	JEREMY & ANNIE J. BROWN	3-1/69
22	SHELBA JEAN SMITH	3-1/71
23	JOSHUA V. GARTON & MARSHA TAYLOR	3-1/74

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE



FILE #: _____ STICKEL 1H
 DRAWING #: _____ STICKEL 1H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: George D. Six
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: NOVEMBER 13, 2018
 OPERATOR'S WELL #: STICKEL 1H
 API WELL #: 47 33 05925 MOD
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE WEST FORK CREEK ELEVATION: 994'±

COUNTY/DISTRICT: HARRISON / UNION QUADRANGLE: WEST MILFORD, WV 7.5'

SURFACE OWNER: DANNY LEE & ALICIA A. STICKEL ACREAGE: 35.00±

OIL & GAS ROYALTY OWNER: A. W. RHODES ET UX ACREAGE: 714.119±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,900'± TMD: 22,004'±

WELL OPERATOR HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT DIANE C. WHITE
 Address 5260 DUPONT ROAD Address 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

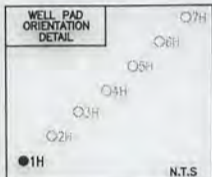
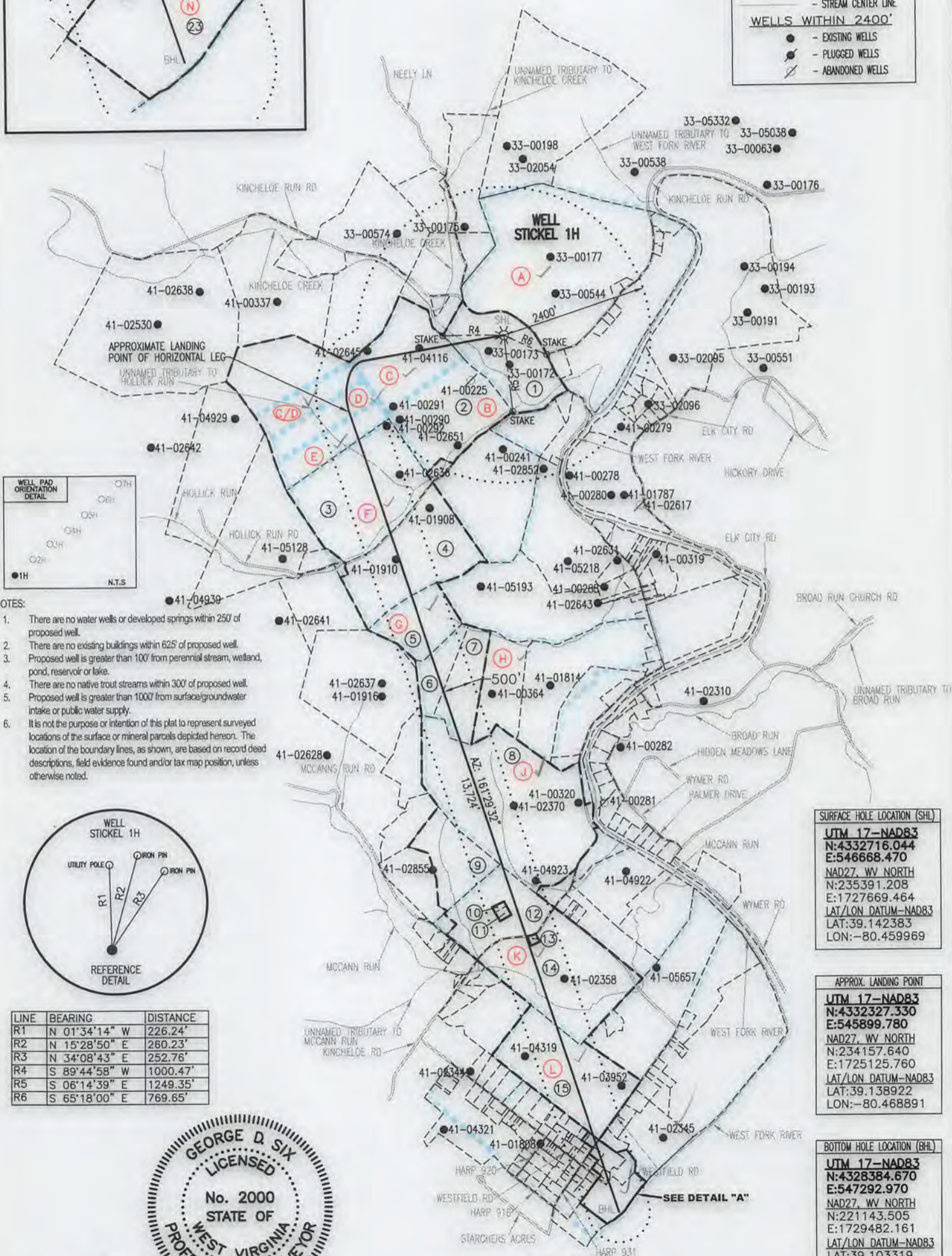
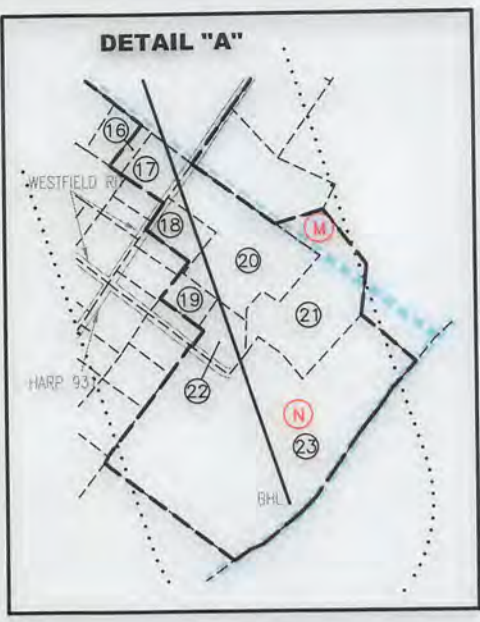
STICKEL 1H PAGE 2 OF 2

LEGEND

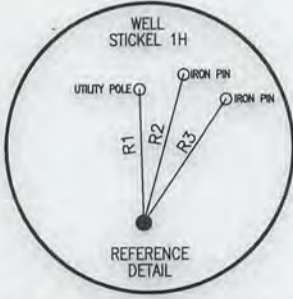
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- LESSORS
- SURFACE OWNERS
- PARCEL LINES
- LEASE BOUNDARY
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE

WELLS WITHIN 2400'

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS



- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.



LINE	BEARING	DISTANCE
R1	N 01°34'14" W	226.24'
R2	N 15°28'50" E	260.23'
R3	N 34°08'43" E	252.76'
R4	S 89°44'58" W	1000.47'
R5	S 06°14'39" E	1249.35'
R6	S 65°18'00" E	769.65'

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
N:4332716.044
E:546668.470
NAD27, WV NORTH
N:235391.208
E:1727669.464
LAT/LON DATUM-NAD83
LAT:39.142383
LOE:-80.459969

APPROX. LANDING POINT
UTM 17-NAD83
N:4332327.330
E:545899.780
NAD27, WV NORTH
N:234157.640
E:1725125.760
LAT/LON DATUM-NAD83
LAT:39.138922
LOE:-80.468891

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
N:4328384.670
E:547292.970
NAD27, WV NORTH
N:221143.505
E:1729482.161
LAT/LON DATUM-NAD83
LAT:39.103319
LOE:-80.453044



Blue Mountain
 11023 MASON DIXON HIGHWAY
 BURTON, WV 25562
 PHONE: (304) 662-6486

George D. Six API# 47-033-05925 MOD
NOVEMBER 13, 2018



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

4703305925 MOD

November 13, 2018

Ms. Laura Adkins
WVDEP
Division of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: Stickel 1210 S-1H Permit Revisions – Stickel 1210 S-1H (47-033-05925)
Union District, Harrison County
West Virginia

Dear Ms. Adkins:

Per our discussions, enclosed are revised forms (survey plats, mylars, WW-6B's, casing schematics and WW6A-1's) for the Stickel 1210 S-1H approved well work permit. The drilling/engineered plans were revised to allow for three additional acquired leases extending the lateral approximately 1200 feet further than permitted.

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

Very truly yours,

Diane White

Diane C. White

Enclosures

cc: Sam Ward – Inspector

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Office of Oil and Gas
NOV 29 2018
WV Department of
Environmental Protection