



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

Thursday, November 18, 2021
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC
5260 DUPONT ROAD

PARKERSBURG, WV 26101

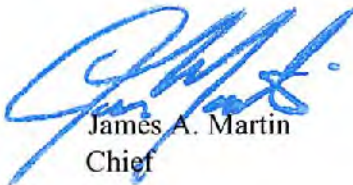
Re: Permit Modification Approval for EVANS 1213 S-5H
47-041-05721-00-00

Extended lateral length

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: EVANS 1213 S-5H
Farm Name: JAMES M. & SUZANNE L. EVANS, III
U.S. WELL NUMBER: 47-041-05721-00-00
Horizontal 6A New Drill
Date Modification Issued: 11/18/2021

Promoting a healthy environment.

11/19/2021

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.

<u>494519932</u>	<u>Lewis</u>	<u>Freeman</u>	<u>Camden 7.5'</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Evans 1213 S-5H Well Pad Name: Evans 1213

3) Farm Name/Surface Owner: James & Suzanne Evans Public Road Access: Mare Run Rd at CR 10/9

4) Elevation, current ground: 1233' Elevation, proposed post-construction: 1227'

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

(b) If Gas Shallow Deep _____
Horizontal _____

SPW
10/22/2021

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus at 6709'/6791' and 82' in thickness. Anticipated pressure at 4314#.

8) Proposed Total Vertical Depth: 6760'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 26,155'

11) Proposed Horizontal Leg Length: 18,789'

12) Approximate Fresh Water Strata Depths: 60', 136', 151', 200'

13) Method to Determine Fresh Water Depths: Nearest offset well data, (47-041-01847, 1786, 1233)

14) Approximate Saltwater Depths: None found

15) Approximate Coal Seam Depths: 220', 445', 650', 800', 805' (Surface casing is being extended to cover the coal in the DTI Storage 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

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

WV Department of
Environmental Protection

WW-6B
(04/15)

API NO. 47- _____
 OPERATOR WELL NO. Evans 1213 S-5H
 Well Pad Name: Evans 1213

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'	40% Excess, CTS
Intermediate 1	13 3/8"	NEW	J-55 BTC	68	2100'	2100'	40% Excess, CTS
Intermediate 2	9 5/8"	NEW	N-80 BTC	40	4700'	4700'	40% Excess Tail, CTS
Production	5 1/2"	NEW	P-110 HP	23	26155'	26155'	20% Excess, Tail, CTS
Tubing							
Liners							

*SDW
10/22/2021*

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 = 1.10, tail yield 1.50
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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 6760 feet. Drill horizontal leg to estimated 18,789' lateral length, 26,155' 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): 14.36 acres

22) Area to be disturbed for well pad only, less access road (acres): 6.26 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 - 15.6 ppg PNE-1 + 3% bwoc CaCl₂, 40% Excess Yield = 1.20, CTS
Intermediate 1 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂, 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂ zero% Excess, CTS
Intermediate 2 - Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl₂, 40% Excess, Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl₂, zero% Excess, CTS
Production - Lead: 14.5 ppg POZ-PNE-1 + 0.3% bwoc RC + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170, Tail: 14.8 ppg PNE-1 + 0.35% bwoc RC + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc MPA170 20% 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/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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West Virginia Department of
Environmental Protection

*Note: Attach additional sheets as needed.



1213 S-5H
Marcellus Shale Horizontal
Lewis County, WV

1213 S-5H SHL 14205067.28N 1777976.97E

Ground Elevation 1227.6' 1213 S-5H LP 14204540.1N 1777824.13E

Azim 160.67° 1213 S-5H BHL 14186817.24N 1784040.92E

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	214,600,951	AIR	15.9 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	800	805					
			Fresh Water Protection	0	1100					
	17.5"	13-3/8" 66# J-55 BTC	Little Lime	1474	1494	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 <i>"will also be running ACP for isolating storage zone"</i>	Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480" wall thickness Burst=3450 psi
			Big Lime	1524	1594					
			Injun / Gantz (Storage)	1594 / 1856	1692 / 1926					
			Intermediate 1	0	2100					
	12.25"	9-5/8" 40# N-80 BTC	Fifty / Thirty Foot	1978 / 2075	1998 / 2102	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	2120 / 2156	2154 / 2232					
			5th Sand	2369	2409					
			Bayard / Warren	2449 / 2771	2479 / 2796					
			Speechley	3076	3096					
			Balltown	3286	3346					
			Benson	4386	4411					
Intermediate 2	0	TVD: 4600 MD: 4700 Inc. 7 deg.								
8.75"	5-1/2" 23# P-110 HP CDC HTQ				AIR / 9.0ppg SOB	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=1.84 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=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions	
8.5" Curve		Rhinesfreet	6009	6279	11.5ppg-12.5ppg SOB					
		Cashaqua	6279	6379						
		Middlesex	6379	6411						
		West River	6411	6482						
		Burkett	6482	6492						
		Tully limestone	6492	6600						
		Hamilton	6600	6753						
		Marcellus	6709	6791						
8.5" Lateral		TMD / TVD (Production)	26155	6760	11.5ppg-12.5ppg SOB					
	Onondaga	8791								

LP @ 6760' TVD / 7366' MD

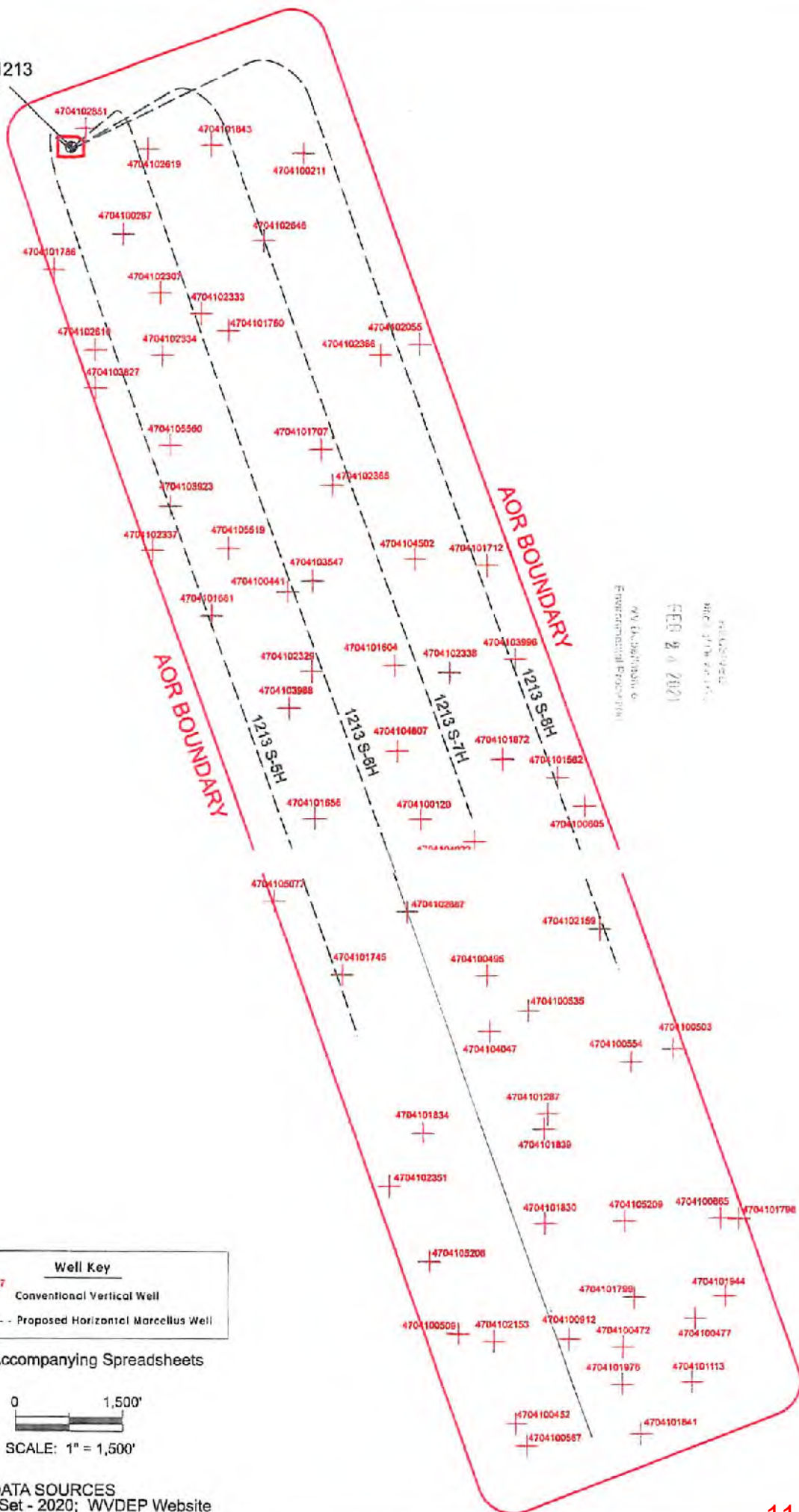
8.5" Hole - Cemented Long String
5 1/2" 23# P-110 HP CDC HTQ

+/-16789' ft Lateral

TD @ +/-6760' TVD
+/-26165' MD

X=centralizers

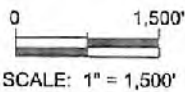
EVANS 1213
PAD



REVISED
DATE: 11/19/2021
BY: Environmental Protection
EPA # 2021

Well Key	
	Conventional Vertical Well
	Proposed Horizontal Marcellus Well

See Accompanying Spreadsheets



DATA SOURCES
WVGES Data Set - 2020; WVDEP Website

11/19/2021

Area of Review for:

EVANS 1213 SOUTH UNIT
 Proposed 1213 S-5H Proposed 1213 S-6H
 Proposed 1212 S-7H Proposed 1213 S-8H

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



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

1/26/2021

**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

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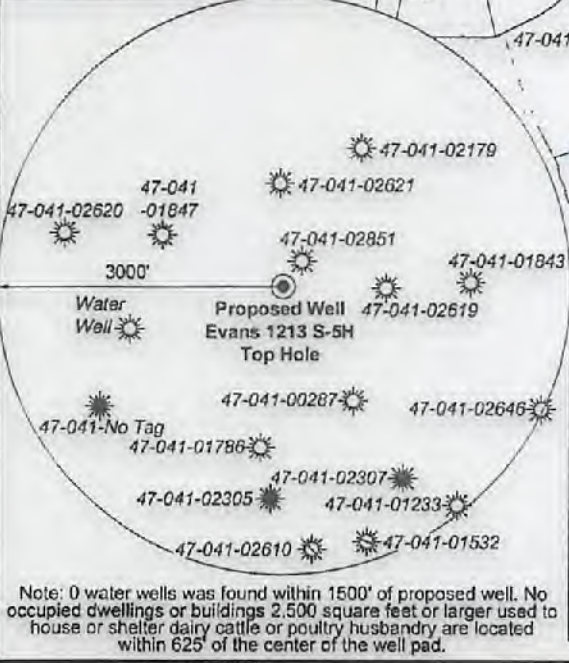
The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity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

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



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



10,172' to Bottom Hole

4,308' to Top Hole

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 05 - 00

TOP LONGITUDE 80 - 30 - 00
BTM LONGITUDE 80 - 27 - 30

3,469' to Top Hole
6,581' to Bottom Hole



Tag	Bearing	Dist.	Description
L1	N 89°56' W	1,089.3'	#47-041-02619
L2	S 66°23' E	1,359.3'	#47-041-01847
L3	S 25°18' E	512.4'	Gate Post
L4	S 10°52' E	2,486.8'	5/8" Rebar w/cap
L5	S 16°10' W	548.9'	Landing point

FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 S-5H 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

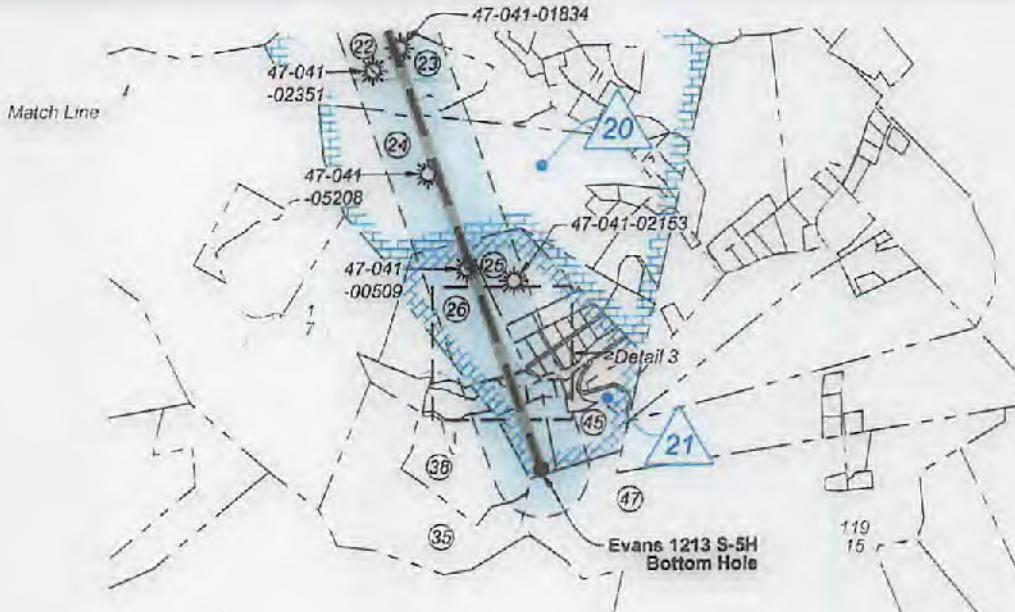
DATE: October 7 2021
OPERATOR'S WELL NO. Evans 1213 S-5H
API WELL NO
47 - 041 - 05721
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: Suzanne L. & James M. Evans, III
ROYALTY OWNER: Mary C. Burnside, et al, et al LEASE NO: ACREAGE: 294.00

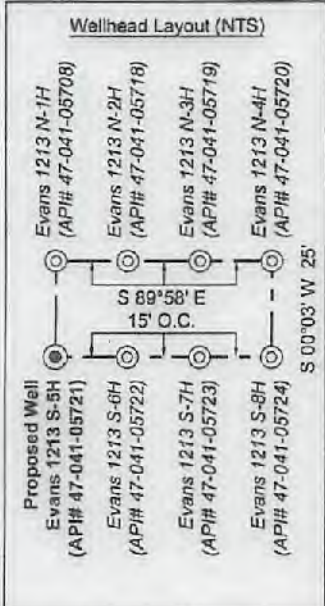
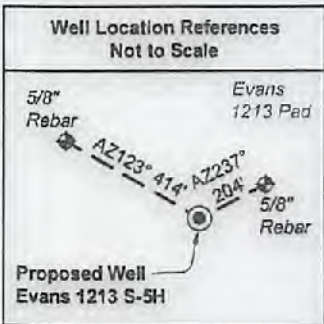
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,155' TMD

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



Notes:
Well No. Evans 1213 S-5H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,067.28'
E: 1,777,976.97'
Landing Point Coordinates
N: 14,204,540.10'
E: 1,777,824.13'
Bottom Hole Coordinates
N: 14,186,817.24'
E: 1,784,040.92'

Notes: Well No. Evans 1213 S-5H
West: Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'55.71" Latitude: 39°03'54.93"
Longitude: 80°30'54.67" Longitude: 80°29'39.00"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,713.166m N: 4,324,150.543m
E: 541,928.465m E: 543,776.760m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.



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.)

FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 S-5H 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: October 7 2021
OPERATOR'S WELL NO. Evans 1213 S-5H
API WELL NO
47 - 041 - 05721
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
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PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 6,760' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,155' TMD

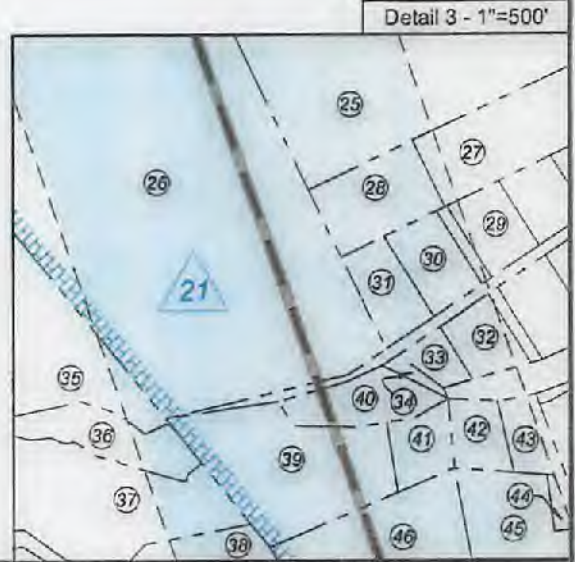
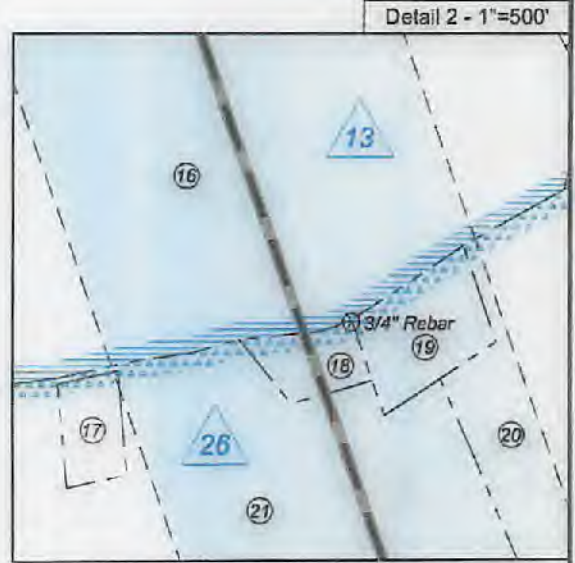
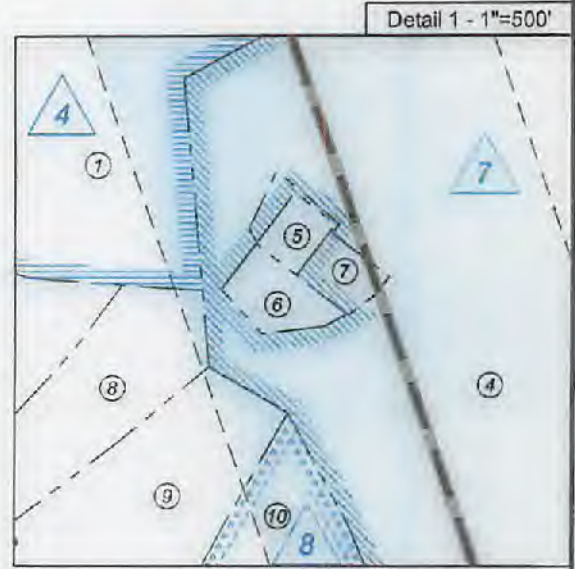
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

11/19/2021



ID	Lease
4	Mary C. Burnside, et al
7	L.E. Gall, et al
8	M.J. Hall, et ux
12	J.E. Norris, et ux
13	J.W. Kemper, et ux
20	T. Lee Hudkins, et ux
21	Cassie G. Stuart
24	Franklin McKinley, et ux
26	James B. Lovett, et ux

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 4	Suzanne L. & James M. Evans, III	657 / 228	294.00
2	6C / 3.2	John K. Burnside & Bertha F. Benedum	666 / 44	115.00
3	6C / 3	Phillip E. Burnside	666 / 38	87.20
4	6D / 103	Bradford A. & Michelle D. Taylor	762 / 891	73.27
5	6C / 8.1	Trustees of Mt. Morris Cemetery	12 / 363	0.50
6	6C / 8.2	Methodist Episcopal Church	6 / 10	0.50
7	6C / 8.3	Trustees of Mt. Morris Cemetery	599 / 407	0.86
8	6C / 7	Matthew S. & Tricia A. Jerden	627 / 197	12.00
9	6D / 2	Robert L. & Lindsey R. Rittenhouse	691 / 794	74.75
10	6D / 3	James H. Hall Trust	WB H / 147	194.50
11	6D / 102	Bradford Taylor	673 / 1	6.62
12	6D / 4	Bradford Taylor	556 / 165	48.00
13	6D / 5	David B. & Wendell S. Hall	W29 / 176	196.50
14	6D / 5.2	Wendell S. Hall	614 / 258	6.25
15	6D / 6	James R. & Mary Lou Myers (LE)	727 / 811	71.50
16	6D / 17	Raymond M. Peters	610 / 706	74.75
17	6E / 60	Jason D. Skidmore	591 / 681	1.00
18	6E / 62	Bernice M. Linger	747 / 395	1.01
19	6D / 14	Richard B. Toothman, Jr.	764 / 732	2.00
20	6D / 15	Thome E. & LaDonna J. Cayton	551 / 145	18.66
21	6E / 61	Carolyn Hamric, et al	750 / 255	30.81
22	6E / 13	Charles F. Sumpter	600 / 507	123.45
23	6E / 13.2	Joseph F. & Anita D. Karp	570 / 210	11.18
24	6E / 14	Linda Wright	F31 / 130	89.12
25	6E / 16.5	Granville & Kay Hosey	490 / 162	16.00
26	6E / 16.3	Ernest & Willadean Bennett	381 / 471	24.00
27	6E / 16.7	Pamela E. Carpenter	573 / 431	2.64
28	6E / 16.12	Steven & Regina Hudson	450 / 846	1.36
29	13 / 3	John A. Hefner	584 / 681	0.72
30	13 / 2	Edsel M. Ross	W22 / 698	0.81
31	13 / 1	Steven & Regina Hudson	594 / 569	0.90
32	13 / 11	Granville & Kay Hosey	701 / 505	0.66
33	13 / 12	William J. Wyatt (LE), et al	W34 / 627	0.40
34	13 / 13	William J. Wyatt, et al	W34 / 627	0.06
35	6E / 17	Heartwood Forestland Fund VII Limited Partnership	666 / 124	56.07
36	6E / 17.1	William H. & Jaime L. Wyckoff	722 / 635	1.10
37	6E / 17.2	William H. & Jaime L. Wyckoff	722 / 635	3.45
38	6E / 17.4	William H. & Jaime L. Wyckoff	722 / 635	26.54
39	6E / 16.8	Christopher Walker	746 / 513	3.26
40	6E / 16.9	Richard L. Finster	384 / 388	1.05
41	6E / 16.11	Randy P. Stewart	738 / 77	0.46
42	6E / 16.1	Robert & Debra Rush	W17 / 676	0.48
43	6E / 16.2	Tyler Metz	745 / 3	0.51
44	6E / 16.13	Jeffrey L. Fisher	620 / 105	1.47
45	6E / 16.6	Herbert W. Bleigh	526 / 181	10.27
46	6E / 16.4	Herbert W. Bleigh	526 / 181	7.23
47	6E / 21	William R. Pratt	W52 / 329	269.87



FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 S-5H 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: October 7 20 21
OPERATOR'S WELL NO. Evans 1213 S-5H
API WELL NO
47 - 041 - 05721
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek

DISTRICT: Freemans Creek

SURFACE OWNER: Suzanne L. & James M. Evans, III

ROYALTY OWNER: Mary C. Burnside, et al, et al

LEASE NO: _____ ACREAGE: 294.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ BH-MOD _____ 6,760' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,155' TMD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

Btm: Weston
QUADRANGLE: Top: Camden
COUNTY: Lewis
ACREAGE: 294.00

11/19/2021

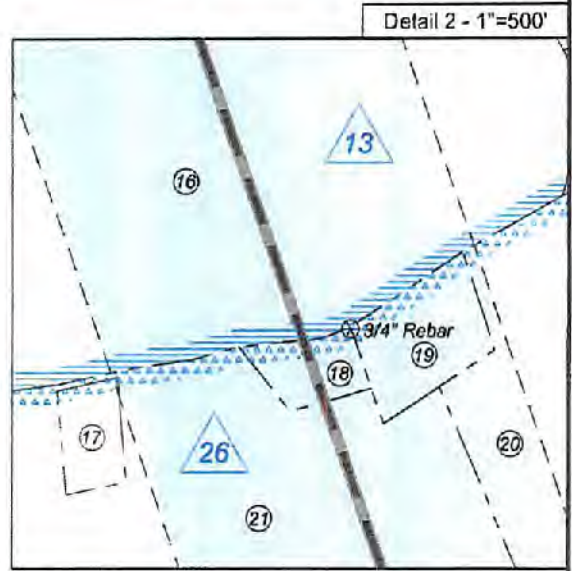
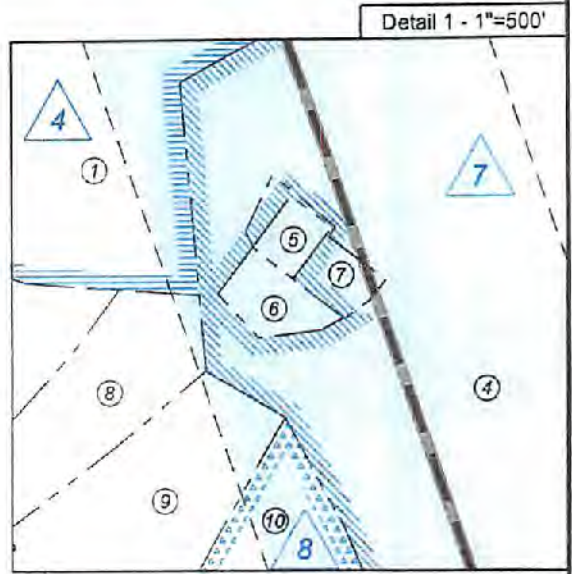
HG Energy II Appalachia, LLC
Well No. Evans 1213 S-5H MOD



ID	Lease
4	Mary C. Burnside, et al
7	L.E. Gall, et al
8	M.J. Hall, et ux
12	J.E. Norris, et ux
13	J.W. Kemper, et ux
20	T. Lee Hudkins, et ux
21	Cassie G. Stuart
24	Franklin McKinley, et ux
26	James B. Lovett, et ux

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 4	Suzanne L. & James M. Evans, III	657 / 228	294.00
2	6C / 3.2	John K. Burnside & Bertha F. Benedum	666 / 44	115.00
3	6C / 3	Phillip E. Burnside	666 / 38	87.20
4	6D / 103	Bradford A. & Michelle D. Taylor	762 / 891	73.27
5	6C / 8.1	Trustees of Mt. Morris Cemetery	12 / 363	0.50
6	6C / 8.2	Methodist Episcopal Church	6 / 10	0.50
7	6C / 8.3	Trustees of Mt. Morris Cemetery	599 / 407	0.86
8	6C / 7	Matthew S. & Tricia A. Jerden	627 / 197	12.00
9	6D / 2	Robert L. & Lindsey R. Rittenhouse	691 / 794	74.75
10	6D / 3	James H. Hall Trust	WB H / 147	194.50
11	6D / 102	Bradford Taylor	673 / 1	6.62
12	6D / 4	Bradford Taylor	556 / 165	48.00
13	6D / 5	David B. & Wendell S. Hall	W29 / 176	198.50
14	6D / 5.2	Wendell S. Hall	614 / 258	6.25
15	6D / 6	James R. & Mary Lou Myers (LE)	727 / 811	71.50
16	6D / 17	Raymond M. Peters	610 / 706	74.75
17	6E / 60	Jason D. Skidmore	581 / 681	1.00
18	6E / 62	Bernice M. Linger	747 / 395	1.01
19	6D / 14	Richard B. Toothman, Jr.	764 / 732	2.00
20	6D / 15	Thome E. & LaDonna J. Cayton	551 / 145	18.66
21	6E / 81	Carolyn Hamric, et al	750 / 255	30.81
22	6E / 13	Charles F. Sumpter	600 / 507	123.45
23	6E / 13.2	Joseph F. & Anita D. Karp	570 / 210	11.18
24	6E / 14	Linda Wright	F31 / 130	89.12
25	6E / 16.5	Granville & Kay Hosey	490 / 162	16.00
26	6E / 16.3	Ernest & Willadean Bennett	381 / 471	24.00
27	6E / 16.7	Pamela E. Carpenter	573 / 431	2.64
28	6E / 16.12	Steven & Regina Hudson	450 / 846	1.36
29	13 / 3	John A. Hefner	584 / 681	0.72
30	13 / 2	Edsel M. Ross	W22 / 688	0.81
31	13 / 1	Steven & Regina Hudson	594 / 569	0.90
32	13 / 11	Granville & Kay Hosey	701 / 505	0.66
33	13 / 12	William J. Wyatt (LE), et al	W34 / 627	0.40
34	13 / 13	William J. Wyatt, et al	W34 / 627	0.06
35	6E / 17	Heartwood Forestland Fund VII Limited Partnership	666 / 124	56.07
36	6E / 17.1	William H. & Jaime L. Wyckoff	722 / 635	1.10
37	6E / 17.2	William H. & Jaime L. Wyckoff	722 / 635	3.45
38	6E / 17.4	William H. & Jaime L. Wyckoff	722 / 635	26.54
39	6E / 16.8	Christopher Walker	746 / 513	3.26
40	6E / 16.9	Richard L. Finster	384 / 388	1.05
41	6E / 16.11	Randy P. Stewart	738 / 77	0.46
42	6E / 16.1	Robert & Debra Rush	W17 / 676	0.48
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44	6E / 16.13	Jeffrey L. Fisher	620 / 105	1.47
45	6E / 16.6	Herbert W. Bleigh	526 / 181	10.27
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47	6E / 21	William R. Pratt	W52 / 329	269.87

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FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 S-5H 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: October 7 2021
OPERATOR'S WELL NO. Evans 1213 S-5H
API WELL NO
47 - 041 - 05721
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: Suzanne L. & James M. Evans, III
ROYALTY OWNER: Mary C. Burnside, et al, et al LEASE NO: ACREAGE: 294.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 6,760' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 26,155' TMD

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

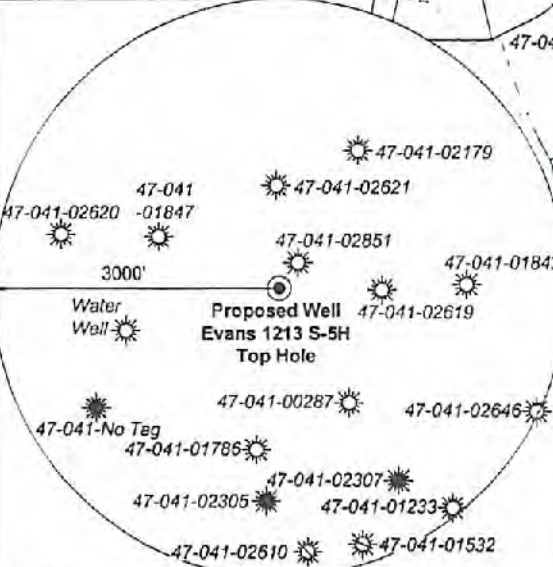
HG Energy II Appalachia, LLC
Well No. Evans 1213 S-5H MOD

Page 1 of 3

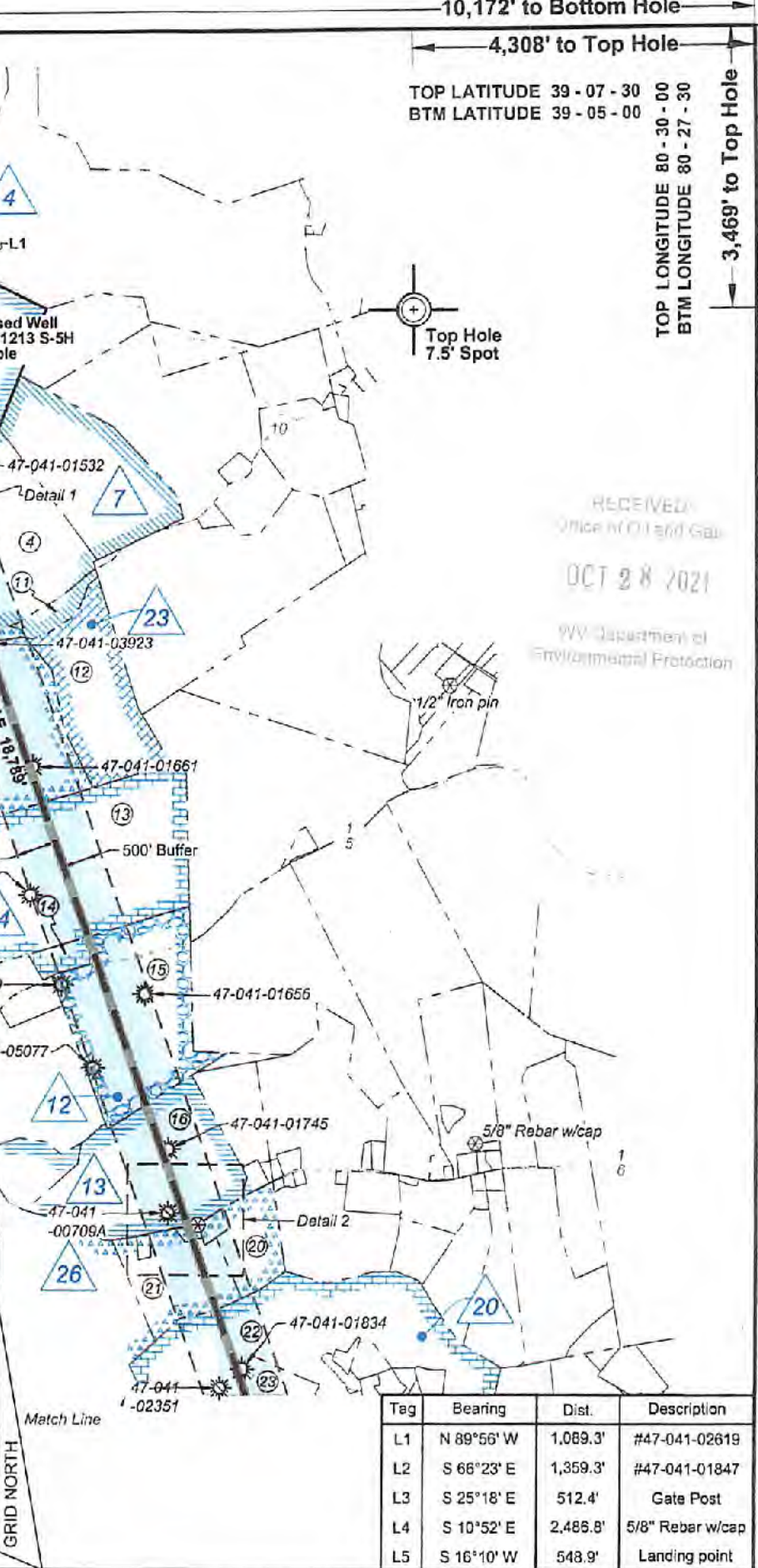


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



Note: 0 water wells was found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



10,172' to Bottom Hole
4,308' to Top Hole
TOP LATITUDE 39 - 07 - 30 00
BTM LATITUDE 39 - 05 - 00
TOP LONGITUDE 80 - 30 - 00
BTM LONGITUDE 80 - 27 - 30
3,469' to Top Hole
6,581' to Bottom Hole

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OCT 28 2021
WV Department of Environmental Protection

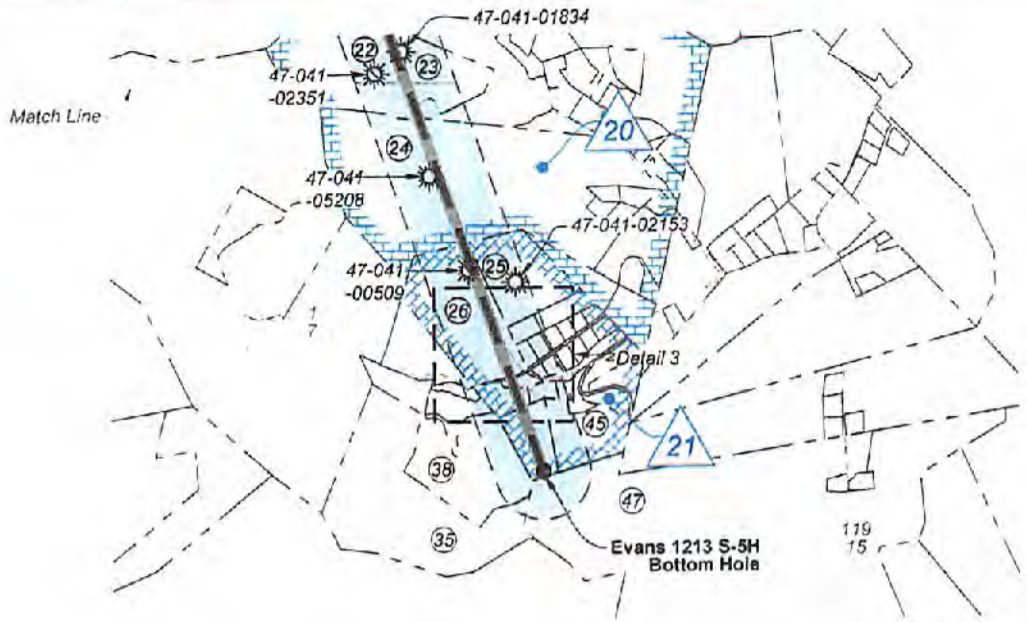
FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 S-5H Well Plat
SCALE: 1" = 2000'
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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

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API WELL NO
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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

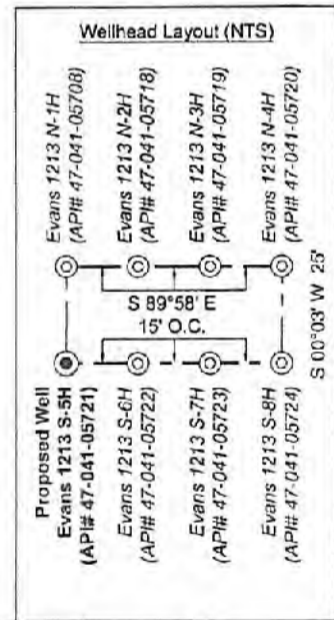
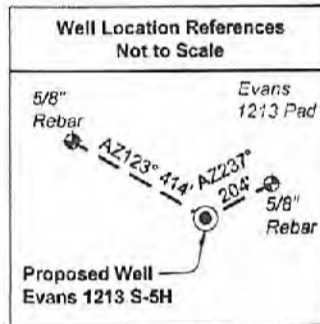


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OCT 28 2021

WV Department of
Environmental Protection

Notes:
Well No. Evans 1213 S-5H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,067.28'
E: 1,777,976.97'
Landing Point Coordinates
N: 14,204,540.10'
E: 1,777,824.13'
Bottom Hole Coordinates
N: 14,186,817.24'
E: 1,784,040.92'



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.)

Notes: Well No. Evans 1213 S-5H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'55.71" Latitude: 39°03'54.93"
Longitude: 80°30'54.87" Longitude: 80°29'39.00"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,713.166m N: 4,324,150.543m
E: 541,928.465m E: 543,776.760m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 S-5H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
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STATE OF WEST VIRGINIA
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OIL AND GAS DIVISION

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47 - 041 - 05721
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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

HG Energy II Appalachia, LLC - Evans 1213 S-5H LEASE CHAIN

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Office of Oil and Gas

OCT 28 2021

WV Department of
Environmental Protection

TRACT #1213S	LEGACY LEASE NUMBER	TAX MAP	LEASE NUMBER	GRANTOR/LESSOR	GRANTEE/LESSEE	ROYALTY	DEED BOOK	PAGE				
4	FK052229	03-005C-0043-0000 03-006C-0004-0000	Q100759000 053436 053307	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					
				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				
7	FK053159	03-006C-0008-0000 03-006C-0008-0003 03-005C-0009-0000	FK053159	L.E. GALL AND HENRIETTA GALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	77				
				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	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.	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				
				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	AMENDED AND RESTATED PARTIAL ASSIGNMENT (32%)	723	527				
				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				
								M. J. HALL AND M. J. HALL, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	42	92
								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	MERGER/NAME CHANGE	155					202				
HOPE NATURAL GAS COMPANY	CONSOLIDATED GAS SUPPLY CORPORATION	CONFIRMATORY DEED	294					89				

8	FK053168	03-006D-0003-0000	Q101141000	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.	ASSIGNMENT	641	533
				DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
				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				
24	131336000	p/o 03-006D-0005-0000 03-006D-0005-0002	CNX131336000	FRANKLIN MCKINLEY AND G. R. MCKINLEY, HIS WIFE	SOUTH PENN OIL COMPANY	NOT LESS THAN 1/8	39	371
				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
				CONSOLIDATED GAS TRANSMISSION CORPORATION	CNG DEVELOPMENT COMPANY	ASSIGNMENT	450	154
				CNG DEVELOPMENT COMPANY	CNG PRODUCING COMPANY	MERGER/NAME CHANGE	WVSOS	
				CNG PRODUCING COMPANY	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	WVSOS	
				DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651	137
				DOMINION APPALACHIAN DEVELOPMENT LLC	DOMINION TRANSMISSION	ASSIGNMENT	651	225
				DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	WVSOS	
				CNX GAS COMPANY LLC	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	766	352
				12		03-006D-0006-0000 03-006D-0007-0000 p/o 03-006D-0020-0000	CNX053102	J. E. NORRIS AND MARY T. NORRIS, HIS WIFE
T. N. BARNSDALL, THE SOUTHERN OIL COMPANY, AND FRED S. RICH	RESERVE GAS COMPANY	ASSIGNMENT	85					106
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.	ASSIGNMENT	620					139
DOMINION EXPLORATION & PRODUCTION INC	DOMINION TRANSMISSION, INC.	ASSIGNMENT	651					137
DOMINION TRANSMISSION, INC.	CONSOL ENERGY HOLDING LLC XVI	ASSIGNMENT	651					318
CONSOL ENERGY HOLDINGS LLC XVI	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				
13	131353000	03-006D-0011-0000 03-006D-0012-0000 03-006D-0017-0000 03-006D-0017-0001	CNX131353000	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	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
JAMES B. LOVETT AND B. E. LOVETT, HIS WIFE	EASTERN OIL COMPANY	NOT LESS THAN 1/8	40	157				

Block	Lease ID	Lease Range	Lease Type	Company	Company	Assignment	Count	Count				
26	FK053106 DV004937	03-006D-0014-0000 03-006D-0015-0000 03-006E-0012-0000 03-006E-0060-0000 03-006E-0061-0000 03-006E-0062-0000	1213S T26	EASTERN OIL COMPANY	BUCKHANNON GAS COMPANY	ASSIGNMENT	40	578				
				BUCKHANNON GAS COMPANY	J. S. GLENN	ASSIGNMENT	85	98				
				J. S. GLENN	SOUTHERN OIL CO	ASSIGNMENT	85	98				
				SOUTHERN OIL COMPANY	RESERVE GAS COMPANY	ASSIGNMENT	85	106				
				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	UMC PETROLEUM CORPORATION	ASSIGNMENT	505	20				
				UMC PETROLEUM CORPORATION	ASHLAND EXPLORATION INC	ASSIGNMENT	525	557				
				ASHLAND EXPLORATION INC	ASHLAND EXPLORATION HOLDINGS INC	MERGER/NAME CHANGE	WVSOS					
				ASHLAND EXPLORATION HOLDINGS INC	BLAZER ENERGY CORP.	ASSIGNMENT	546	207				
				BLAZER ENERGY CORP	EASTERN STATES OIL & GAS INC	MERGER/NAME CHANGE	8	424				
				EASTERN STATES OIL & GAS INC	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	9	245				
				EQT PRODUCTION COMPANY	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	770	560				
				20		03-006E-0013-0000 THRU 03-006E-0013-0017 03-006E-0014-0000 THRU 03-006E-0014-0008 03-006E-0015-0000 03-006E-0015-0001	CNX053209	T. LEE HUDKINS AND S. V. HUDKINS, HIS WIFE	RESERVE GAS COMPANY	NOT LESS THAN 1/8	58	469
								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	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	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	9					471				
DOMINION EXPLORATION & PRODUCTION INC	CONSOL GAS COMPANY	MERGER/NAME CHANGE	9					471				
CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9					471				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	659					521				
CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717					1				
NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722					170				
21		03-006E-0016-0001 THRU 03-006E-0016-0015 03-0013-0001-0000 THRU 03-0013-0014-0000	CNXDV014644	CASSIE G. STUART, SINGLE	HOPE NATURAL GAS COMPANY	NOT LESS THAN 1/8	275	344				
				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	9	628				
				DOMINION TRANSMISSION INC	CONSOL ENERGY HOLDINGS LLC XVI	ASSIGNMENT	651	318				
				CONSOL ENERGY HOLDINGS LLC XVI	DOMINION EXPLORATION & PRODUCTION INC.	MERGER/NAME CHANGE	9	471				
				DOMINION EXPLORATION & PRODUCTION INC	CONSOL GAS COMPANY	MERGER/NAME CHANGE	9	471				
				CONSOL GAS COMPANY	CNX GAS COMPANY LLC	MERGER/NAME CHANGE	9	471				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	659	521				
				CNX GAS COMPANY LLC	NOBLE ENERGY, INC.	ASSIGNMENT	717	1				
				NOBLE ENERGY, INC.	HG ENERGY II APPALACHIA, LLC	ASSIGNMENT	722	170				

RESERVE GAS
 Based on Oil and Gas
 OCT 28 2021
 WV Department of
 Environmental Protection

**EXISTING WELLS LOCATED WITHIN THE AREA OF REVIEW FOR:
EVANS 1213 SOUTH UNIT AND PROPOSED WELLS S-5H, S-6H, S-7H & S-8H**

CT	API	COUNTY	FARM	OPERATOR NAME	FORMATION NAME	WELL TYPE	TVD	STATUS	LATITUDE	LONGITUDE
1	4704100120	Lewis	J W Norris	Dominion Energy Transmission, Inc.	Big Injun (Grnbr)	Dry w/ Gas Show	1642	PLUGGED	39.089997	-80.498156
2	4704100211	Lewis	J S Morris	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2010	ACTIVE	39.115375	-80.503538
3	4704100287	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	Fifth	Storage	2322	ACTIVE	39.112338	-80.512384
4	4704100441	Lewis	Pearl Stalnaker 1	UNKNOWN	Up Devonian	Gas	2440	ABANDONED	39.098698	-80.504468
5	4704100452	Lewis	Lyle Randolph et al	Diversified Resources, Inc.	Hampshire Grp	Gas w/ Oil Show	1885	ACTIVE	39.067474	-80.493864
6	4704100472	Lewis	J L J Bailey Heirs 1	Deran Resources, Inc.	Price Fm & equivs	Gas	1413	ACTIVE	39.070419	-80.488579
7	4704100477	Lewis	Judson Bailey 1	Law, David W.	Big Injun (Grnbr)	not available		ABANDONED	39.071500	-80.485059
8	4704100495	Lewis	S H Bailey 1	David Bowyer	Price Fm & equivs	Gas w/ Oil Show	1456	ACTIVE	39.084700	-80.495140
9	4704100503	Lewis	J J Bailey 2	Geo Energy, LLC	Price Fm & equivs	Gas w/ Oil Show	1385	ACTIVE	39.081831	-80.486044
10	4704100509	Lewis	V Green	LuRay Land, Inc.	Hampshire Grp	Dry w/ Gas Show	2629	PLUGGED	39.070954	-80.496657
11	4704100535	Lewis	S H Bailey 2	David Bowyer	Price Fm & equivs	Gas	1427	ACTIVE	39.083337	-80.493134
12	4704100554	Lewis	Douglas Butcher Hrs 1	Lippizan Petroleum, Inc.	Price Fm & equivs	Gas	1477	ACTIVE	39.081324	-80.488106
13	4704100557	Lewis	V Green	LuRay Land, Inc.	Undf PRICE blw INJN	Gas	1554	PLUGGED	39.066604	-80.493306
14	4704100605	Lewis	L Reger	Bower, Hall and Wetzel	Price Fm & equivs	Gas	1781	PLUGGED	39.080446	-80.490179
15	4704100665	Lewis	J L J Bailey Heirs 2	Deran Resources, Inc.	Price Fm & equivs	Gas	1481	ACTIVE	39.075325	-80.483775
16	4704100912	Lewis	T Lee Hudkins	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1536	ACTIVE	39.070727	-80.491227
17	4704101113	Lewis	Lester Unger	Alliance Petroleum Co. LLC	Big Injun (Grnbr)	Gas	1585	ACTIVE	39.069055	-80.485195
18	4704101287	Lewis	T L Hudkins	Charity Gas, Inc.	Undf PRICE blw INJN	Gas	1686	ABANDONED	39.079366	-80.492196
19	4704101582	Lewis	James R/Mary L Myers	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4520	ACTIVE	39.091520	-80.491493
20	4704101604	Lewis	William J. Roff	Alliance Petroleum Co. LLC	Brattier	Gas	4300	ACTIVE	39.095839	-80.499322
21	4704101656	Lewis	James R. Myers	Alliance Petroleum Co. LLC	Benson	Gas	4226	ACTIVE	39.090780	-80.503268
22	4704101661	Lewis	James H Hall Trst	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4393	ACTIVE	39.097816	-80.508177
23	4704101707	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Benson	Gas	4230	ACTIVE	39.104124	-80.502768
24	4704101745	Lewis	J W Kemper	Alliance Petroleum Co. LLC	Benson	Gas	4511	ACTIVE	39.084753	-80.502277
25	4704101760	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Benson	Gas	4380	ACTIVE	39.108664	-80.507231
26	4704101786	Lewis	James Morrow Evans	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4450	ACTIVE	39.111007	-80.515806
27	4704101798	Lewis	J L Bailey Heirs	Ross & Wharton Gas Co., Inc.	Benson	Gas	4302	ACTIVE	39.075283	-80.482886
28	4704101799	Lewis	J L Bailey Heirs	James B. Lambert	Benson	Gas	4280	ABANDONED	39.072326	-80.488037
29	4704101830	Lewis	T Lee Hudkins 2	Greylock Conventional, LLC	Benson	Gas	4247	ACTIVE	39.075160	-80.492380
30	4704101834	Lewis	T Lee Hudkins 1	Greylock Conventional, LLC	Benson	Gas	4400	ACTIVE	39.078640	-80.498335
31	4704101839	Lewis	T Lee Hudkins 3	Greylock Conventional, LLC	Benson	Gas	4386	ACTIVE	39.078785	-80.492382
32	4704101841	Lewis	E L/M S Wolfe	Braxton Oil & Gas Corp.	Benson	Gas	4375	ACTIVE	39.067039	-80.487725
33	4704101843	Lewis	Thomas R Zinn et al	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4545	ACTIVE	39.115681	-80.508049

34	4704101872	Lewis	J W Norris	Alliance Petroleum Co. LLC	Oriskany	Gas	7425	ACTIVE	39.092149	-80.494135
35	4704101944	Lewis	Judson Bailey 2	Clem Energy LLC	Benson	Gas	4292	ACTIVE	39.072344	-80.483562
36	4704101976	Lewis	Judson Bailey 3	Clem Energy LLC	Benson	Gas	4381	ACTIVE	39.058988	-80.488601
37	4704102055	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Benson	Gas	4125	ACTIVE	39.109099	-80.497903
38	4704102153	Lewis	Cassie G Smith 2	Alliance Petroleum Co. LLC	Benson	Gas	4403	ACTIVE	39.072344	-80.483562
39	4704102159	Lewis	W Reger	Greylock Conventional, LLC	Benson	Gas	4289	ACTIVE	39.070665	-80.494920
40	4704102307	Lewis	Suzanne Lynn Evans	Dominion Energy Transmission, Inc.	not available	Gas	-	PLUGGED	39.110100	-80.510566
41	4704102329	Lewis	Frank McKinley	Alliance Petroleum Co. LLC	Hampshire Grp	Gas	2153	ACTIVE	39.095553	-80.503351
42	4704102333	Lewis	L Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Storage	2355	ACTIVE	39.109317	-80.508566
43	4704102334	Lewis	L E Gall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2281	ACTIVE	39.107746	-80.510473
44	4704102337	Lewis	M Hall	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	2318	ACTIVE	39.100322	-80.511015
45	4704102338	Lewis	J Norris	Alliance Petroleum Co. LLC	not available	not available	-	ACTIVE	39.095558	-80.496642
46	4704102351	Lewis	T Hudkins	Alliance Petroleum Co. LLC	not available	Gas	-	ACTIVE	39.07561	-80.500001
47	4704102365	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	Hampshire Grp	Gas	1868	PLUGGED	39.102759	-80.502235
48	4704102366	Lewis	A Gaston	Dominion Energy Transmission, Inc.	not available	Gas	-	ACTIVE	39.107701	-80.499824
49	4704102610	Lewis	L H Evans	Consolidated Gas Supply Corp.	FRth	Dry w/ Gas Show	2270	ABANDONED	39.107979	-80.513775
50	4704102619	Lewis	J S Norris	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.115546	-80.511162
51	4704102645	Lewis	Abram Gaston	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.112062	-80.505490
52	4704102687	Lewis	J Peter Bailey 1	Alliance Petroleum Co. LLC	Benson	Gas	4550	ACTIVE	39.087123	-80.499056
53	4704102851	Lewis	M C Burnside	Dominion Energy Transmission, Inc.	not available	Storage	-	ACTIVE	39.116315	-80.514242
54	4704103547	Lewis	John Butcher 1	Schultz Run Gas Co.	Benson	Gas w/ Oil Show	4602	ACTIVE	39.112062	-80.505490
55	4704103827	Lewis	Bernard B Jerden	OWS Acquisition Co. LLC	Brallier	Gas	5884	ACTIVE	39.106529	-80.513775
56	4704103923	Lewis	Steve Hall	Enervest Operating, LLC	Benson	Gas	4267	ACTIVE	39.087123	-80.499056
57	4704103988	Lewis	Charles Hall	Enervest Operating, LLC	Greenland Gap Fm	Gas	4532	ACTIVE	39.094268	-80.504483
58	4704103996	Lewis	William Roff	Enervest Operating, LLC	Greenland Gap Fm	Gas	4182	ACTIVE	39.096044	-80.498438
59	4704104022	Lewis	Thorne E Cayton	Enervest Operating, LLC	Greenland Gap Fm	Gas	4585	ACTIVE	39.089146	-80.495542
60	4704104047	Lewis	Thorne Cayton	Enervest Operating, LLC	Greenland Gap Fm	Gas	4353	ACTIVE	39.082554	-80.495047
61	4704104502	Lewis	Scott A Carpenter	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4520	ACTIVE	39.099886	-80.498265
62	4704104807	Lewis	James R Myers	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	4278	ACTIVE	39.092589	-80.499236
63	4704105077	Lewis	James R Myers	Alliance Petroleum Co. LLC	Alexander	Gas	4411	ACTIVE	39.087557	-80.505577
64	4704105208	Lewis	David Stanley McNemar	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4460	ACTIVE	39.073723	-80.498048
65	4704105209	Lewis	Charles F Sumpter	Alliance Petroleum Co. LLC	Misc Sands-BNSN/BRLR	Gas	4450	ACTIVE	39.075239	-80.488492
66	4704105519	Lewis	James H Hall Trust	Dominion Energy Transmission, Inc.	Greenland Gap Fm	Gas	4410	ACTIVE	39.100372	-80.507310
67	4704105560	Lewis	National Timber Partners WV 2	Alliance Petroleum Co. LLC	Greenland Gap Fm	Gas	3518	ACTIVE	39.104323	-80.510122

YELLOW DENOTES WELL WITH TVD > 4,500'

GREEN DENOTES SURVEYED WELLS

UPDATED 1/26/2021

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

FEB 8 4 30 PM '21
 005

Permit Modification

Received date: 10/28/21

Well Name: S-5H

Operator: HE

API: 47-041-05721

Pad Name: Evans 1213

	MODIFIED PERMIT	ORIGINAL PERMIT MOD - 9-2-21
TVD	10760 ✓	10760
TMD	26,155 ✓	19430
HL	18,789 ✓	12228
FW	Same	60', 136', 151', 200'
SW	N/A	N/A
COAL	Same	220', 445', 650', 800', 805'
CONDUCTOR	120 ✓	120'
FRESHWATER	1100 ✓	1100
INTERMEDIATE 1	2100 ✓	2100
INTERMEDIATE 2	4700 ✓	4700
PRODUCTION	26155 ✓	19430

Notes: 4 Burnside ✓

7 Gall ✓

8 Hall ✓

23

24 McKinley ✓

12 Monio ✓

13 Kemper ✓

26 Lovett ✓

20 Hudkins ✓

21 Stuart ✓



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

October 18, 2021

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

RE: Evans 1213 S-5H Request for Permit Revision – (47-041-05721)
Freemans Creek District, Lewis County, West Virginia
Request for Modification Due to Acquiring Additional Leases

Check # 008674
10/15/2021
\$2,500.00

Dear Mr. Blevins -

Per our discussions, enclosed are revised forms (survey plat, mylar, WW-6B, casing schematic, and WW6A-1) for the requested 1213 S-5H well work permit revision. Also included is a check to cover the cost of requesting a modification for an existing permit. We ask the permit be modified to reflect additional leases acquired to lengthen the lateral.

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 – DEP State Inspector

RECEIVED
Office of Oil and Gas

OCT 28 2021

WV Department of
Environmental Protection

11/19/2021



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

Expedited Modification Horizontal H6A Well Work Permit Evans 1213 Pad

1 message

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

Fri, Nov 19, 2021 at 11:09 AM

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

I have attached a copy of the newly issued well [permit](#) numbers:

47-041-05721 - EVANS 1213 S-5H
47-041-05722 - EVANS 1213 S-6H
47-041-05723 - EVANS 1213 S-7H
47-041-05724 - EVANS 1213 S-8H

This will serve as your copy.

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

Thank you,

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

4 attachments

 **47-041-05724 - mod.pdf**
1744K

 **47-041-05723 - mod.pdf**
2087K

 **47-041-05721 - mod.pdf**
2015K

 **47-041-05722 - mod.pdf**
2245K

11/19/2021