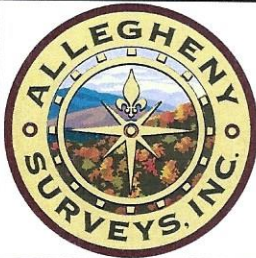


HG Energy II Appalachia, LLC
Well No. Vaneck 1215 N-3H MOD



Page 1 of 3

Notes:
Well No. Vaneck 1215 N-3H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,541.49'
E: 1,768,682.63'
Landing Point Coordinates
N: 14,205,782.77'
E: 1,768,058.48'
Bottom Hole Coordinates
N: 14,225,593.77'
E: 1,761,058.02'



SEAL

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

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

Notes: Well No. Vaneck 1215 N-3H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'00.87" Latitude: 39°10'19.51"
Longitude: 80°32'52.60" Longitude: 80°34'28.18"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,857.706m N: 4,335,969.653m
E: 539,095.544m E: 536,771.558m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

GRID NORTH

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-3H 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: February 28 2023

OPERATOR'S WELL NO. Vaneck 1215 N-3H

API WELL NO

47 - 041 - 05734
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek

Top - Camden
QUADRANGLE: Btm - Big Isaac

DISTRICT: Freemans Creek

COUNTY: Lewis
ACREAGE: 55.00
08/18/2023

SURFACE OWNER: HG Energy II, Appalachia, LLC, et al

ROYALTY OWNER: George W. Waggoner, et ux, et al

LEASE NO: ACREAGE: 56.00

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,075' TVD 28,725' MD

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

9,304' to Bottom Hole

1,781' to Top Hole

TOP LATITUDE 39 - 07 - 30

BTM LATITUDE 39 - 12 - 30

BTM LONGITUDE 80 - 32 - 30

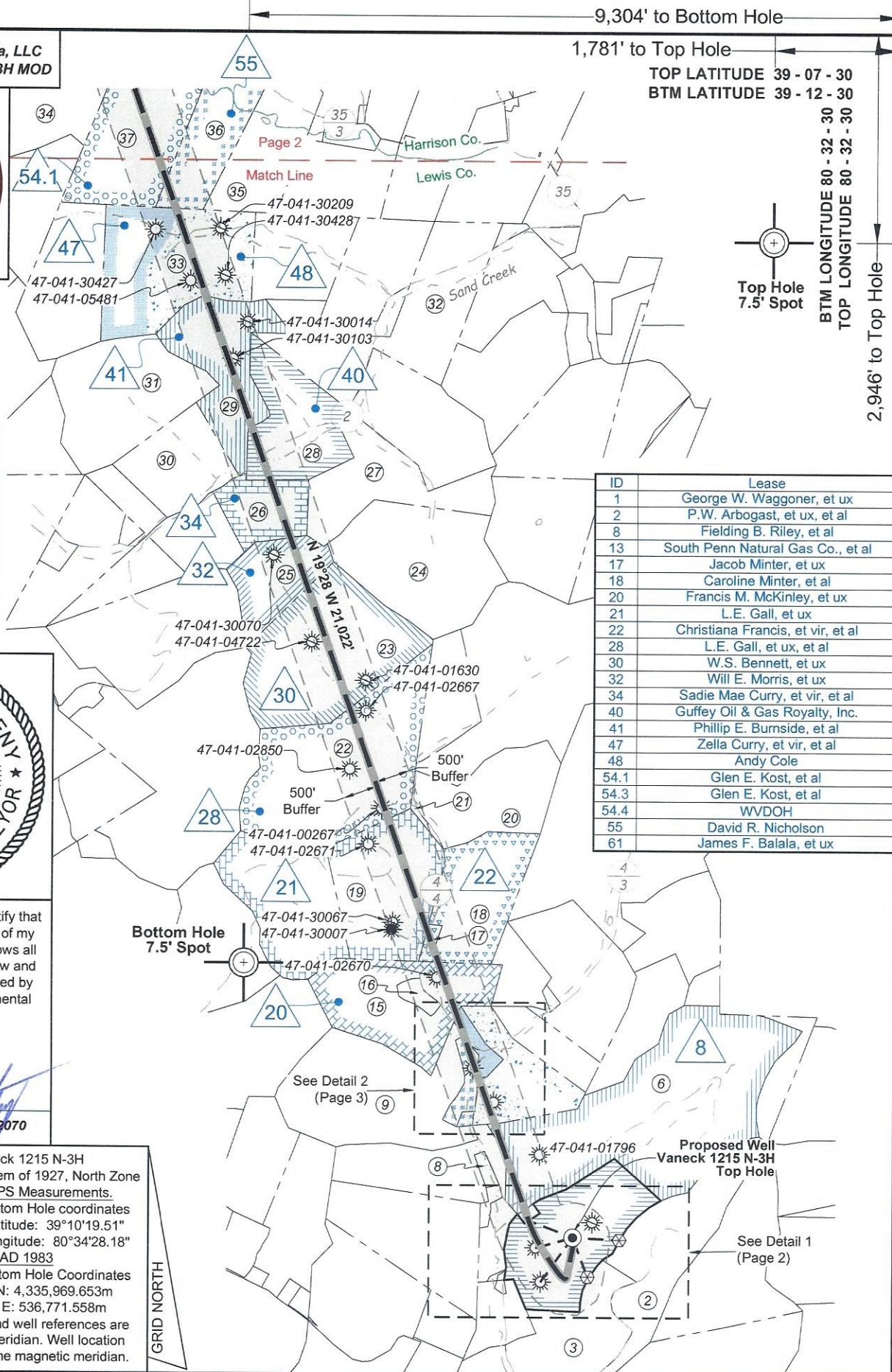
TOP LONGITUDE 80 - 32 - 30

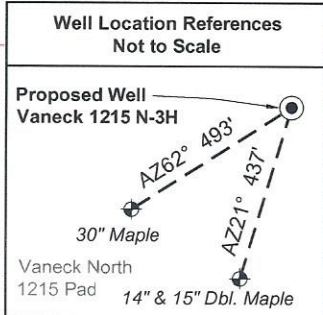
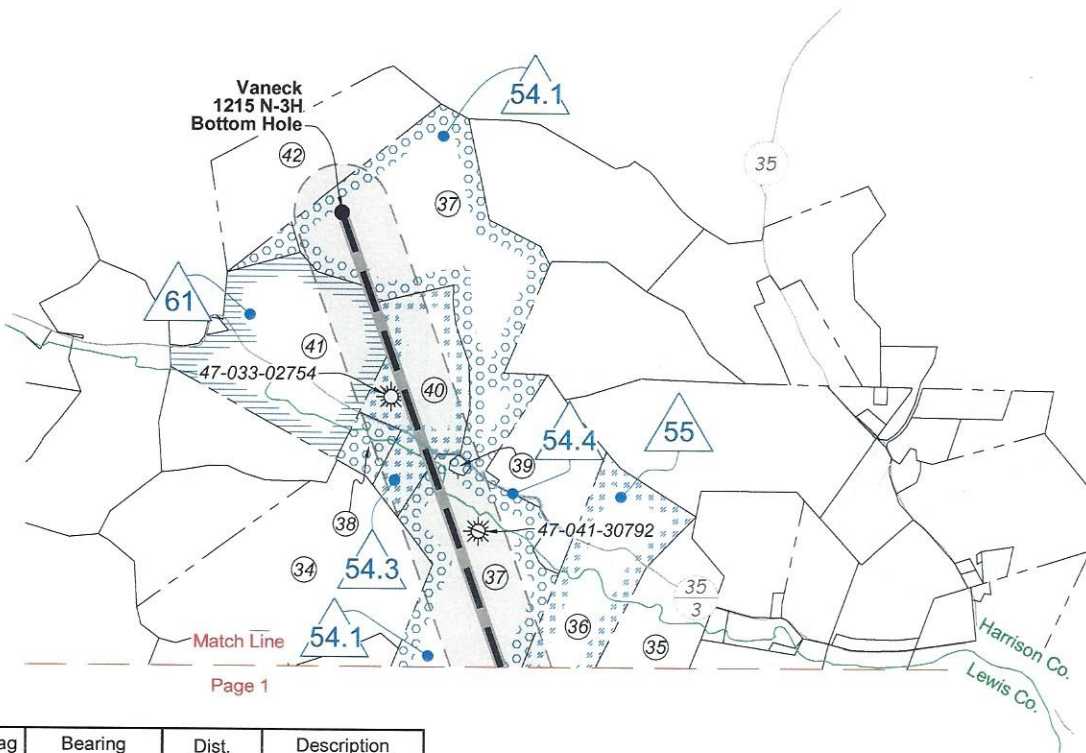
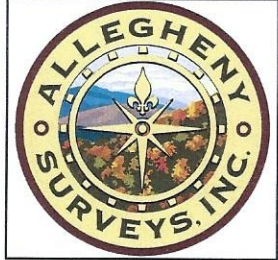
Top Hole
7.5' Spot

13,198' to Bottom Hole

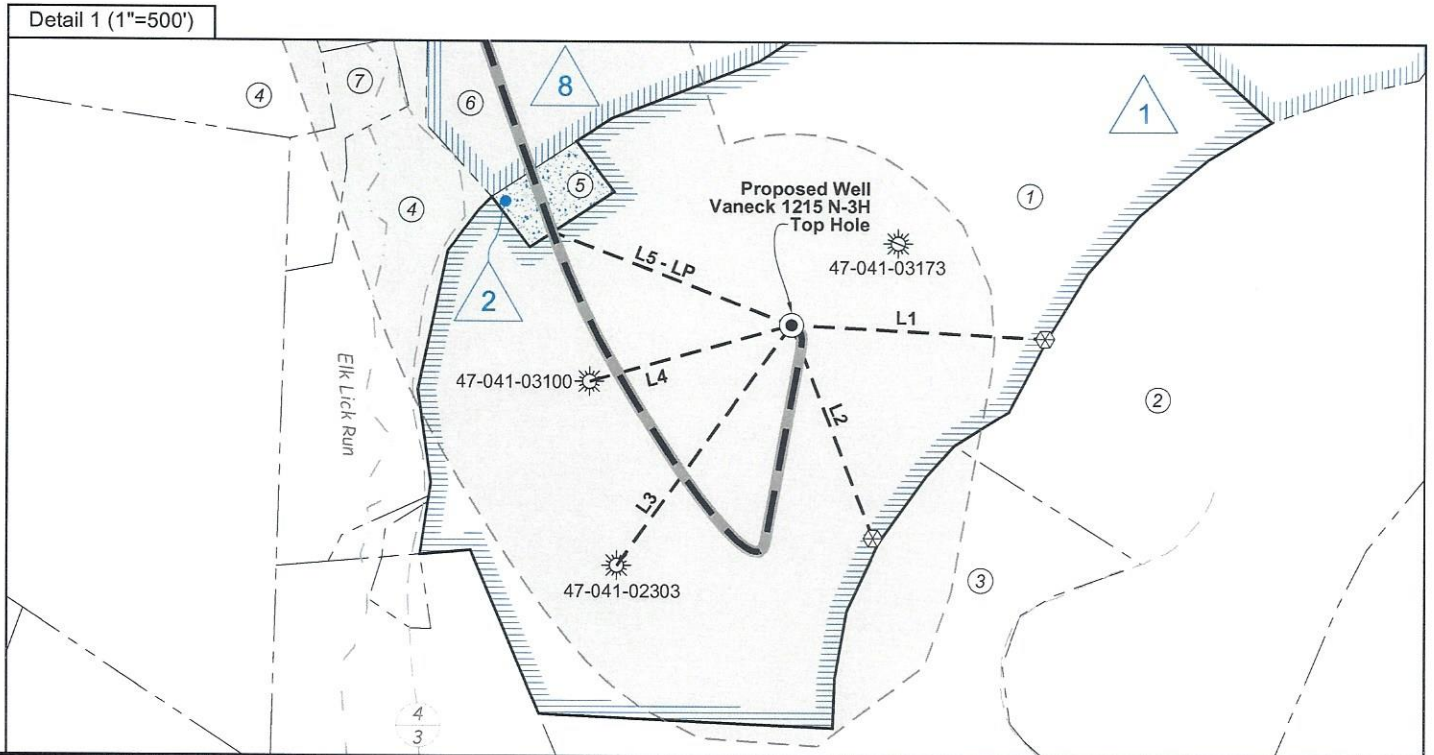
2,946' to Top Hole

ID	Lease
1	George W. Waggoner, et ux
2	P.W. Arbogast, et ux, et al
8	Fielding B. Riley, et al
13	South Penn Natural Gas Co., et al
17	Jacob Minter, et ux
18	Caroline Minter, et al
20	Francis M. McKinley, et ux
21	L.E. Gall, et ux
22	Christiana Francis, et vir, et al
28	L.E. Gall, et ux, et al
30	W.S. Bennett, et ux
32	Will E. Morris, et ux
34	Sadie Mae Curry, et vir, et al
40	Guffey Oil & Gas Royalty, Inc.
41	Phillip E. Burnside, et al
47	Zella Curry, et vir, et al
48	Andy Cole
54.1	Glen E. Kost, et al
54.3	Glen E. Kost, et al
54.4	WVDOH
55	David R. Nicholson
61	James F. Balala, et ux





Tag	Bearing	Dist.	Description
L1	N 87°02' W	661.5'	1/2" Rebar
L2	N 20°54' W	598.0'	1/2" Rebar
L3	N 35°39' E	776.8'	47-041-02303
L4	N 74°08' E	546.2'	47-041-03100
L5	N 68°52' W	669.2'	Landing point



FILE NO: 156-36-UFC-20
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Submeter
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CORS, Bridgeport, WV

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

DATE: February 28 2023
OPERATOR'S WELL NO. Vaneck 1215 N-3H
API WELL NO
47 — 041 — 05734
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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

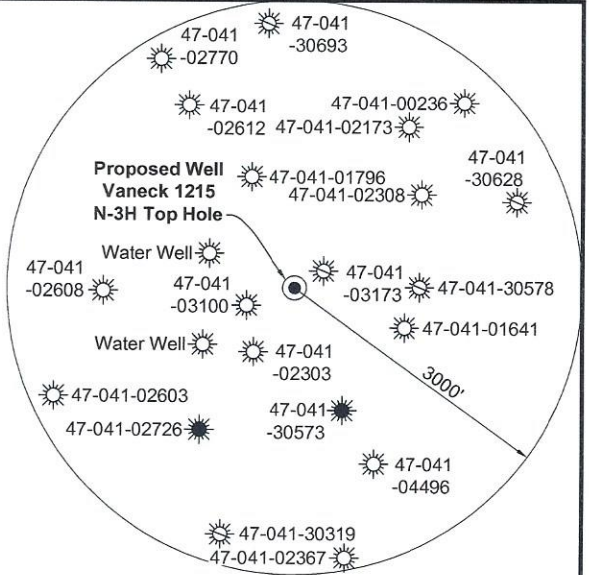
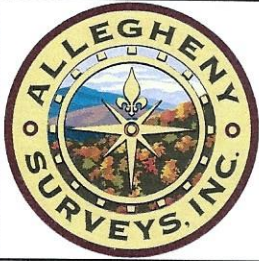
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD 7,075' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,725' MD

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

Top - Camden
QUADRANGLE: Btm - Big Isaac
COUNTY: Lewis
ACREAGE: 55.00
08/18/2023

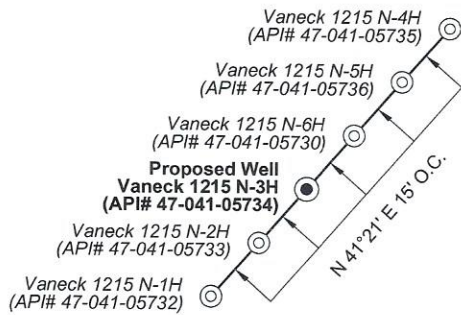
Legend

- 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.)

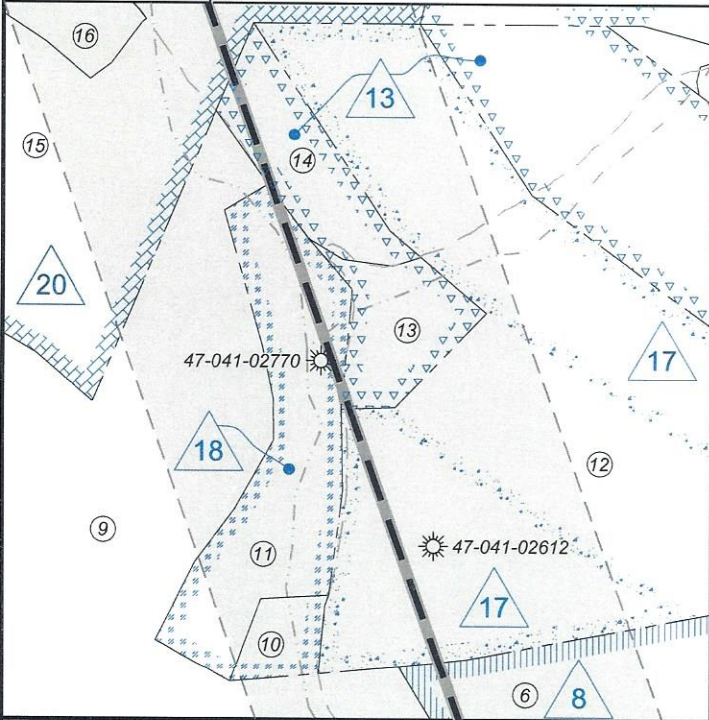


Note: 2 water well was found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Wellhead Layout (NTS)



Detail 2 (1"=500')



Lewis Co. - Freeman Creek Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	HG Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
3	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
4	5C / 7	Charles B. Curtis, Jr.	W19 / 725	45.65
5	5C / 28	Judith G. Piercy	F30 / 596	1.00
6	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
7	5C / 7.3	Dustin McDougal	746 / 65	2.05
8	5C / 7.2	Dustin L. & David L. McDougal	603 / 688	2.01
9	5C / 6	Jason E. & Amy L. Hunt	589 / 3	85.00
10	5C / 4	Jason E. & Amy L. Hunt	589 / 3	1.00
11	5C / 5	Jason E. & Amy L. Hunt	589 / 3	6.20
12	5C / 3	Betty E. Rhoades	W35 / 524	33.60
13	5C / 2	Betty E. Rhoades	W35 / 524	2.30
14	5C / 48	Betty E. Rhoades	W35 / 524	3.00
15	5B / 11	Betty E. Rhoades	W35 / 524	56.00
16	5B / 11.1	Stewart J. Rhoades	478 / 201	3.75
17	5B / 10	Allen B. Jerden, et al	W23 / 18	4.00
18	5B / 22	Christopher G. Duerr	594 / 666	34.50
19	5B / 8	Robert A. & Jane M. Marrison	722 / 374	47.50
20	5B / 23	Christopher G. Duerr	594 / 666	20.00
21	5B / 7	Robert A. & Jane M. Marrison	722 / 374	0.69
22	5B / 5	Gerald L. & Rita R. Kolva	639 / 517	100.33
23	5B / 4	Coastal Forest Resources Co.	710 / 471	85.00
24	5B / 3	Jeffrey P. & Anessa E. Griffith	653 / 168	74.00
25	5B / 2	Coastal Forest Resources Co.	710 / 471	26.00
26	4B / 36	Jeffrey P. & Anessa E. Griffith	692 / 498	23.50
27	5B / 1	Jeffrey P. & Anessa E. Griffith	692 / 498	49.25
28	5A / 4	Jeffrey P. & Anessa E. Griffith	692 / 498	44.00
29	4A / 37	Rachel D. & Joshua M. Wyckoff	750 / 260	48.50
30	4B / 45	Rachel D. & Joshua M. Wyckoff	750 / 260	36.78
31	4A / 38	Rachel D. & Joshua M. Wyckoff	750 / 260	63.97
32	5A / 6	Jeffrey P. & Anessa E. Griffith	692 / 498	78.00
33	4A / 34	Jerry Tomes	W17 / 336	80.00
34	4A / 28	Kincheloe Mitigation Holdings, LLC	704 / 324	80.00

Harrison Co. - Union Dist.

No.	TM / Par	Owner	Bk / Pg	Ac.
35	421 / 30	John T. & Stephanie J. Sowell	1261 / 1129	42.80
36	421 / 29	John T. & Stephanie J. Sowell	1261 / 1129	51.27
37	421 / 8	Kincheloe Mitigation Holdings, LLC	1565 / 908	185.30
38	421 / 27	Kincheloe Mitigation Holdings, LLC	1565 / 908	6.10
39	421 / 8.1	Joshua D. & Chasity L. Powell	1582 / 941	0.70
40	421 / 26	Kincheloe Mitigation Holdings, LLC	1565 / 908	37.96
41	421 / 5	Kincheloe Mitigation Holdings, LLC	1565 / 908	71.80
42	421 / 7	Donald J. & Carole D. Knicely	1219 / 1282	47.70

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