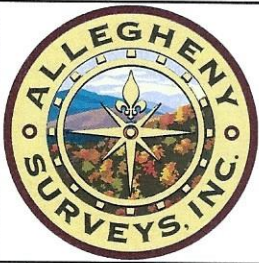


HG Energy II Appalachia, LLC
Well No. Vaneck 1215 N-4H MOD



Page 1 of 3

Notes:
Well No. Vaneck 1215 N-4H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,575.26'
E: 1,768,712.34'
Landing Point Coordinates
N: 14,206,199.23'
E: 1,769,237.06'
Bottom Hole Coordinates
N: 14,226,418.46'
E: 1,762,092.35'



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-4H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'01.21" Latitude: 39°10'27.62"
Longitude: 80°32'52.23" Longitude: 80°34'14.99"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,867.999m N: 4,336,221.019m
E: 539,104.599m E: 537,086.822m
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: 156-36-UFC-20
DRAWING NO: Vaneck 1215 N-4H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

GRID NORTH

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

DATE: February 28 2023
OPERATOR'S WELL NO. Vaneck 1215 N-4H
API WELL NO
47 - 041 - 05735
STATE COUNTY PERMIT

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

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

QUADRANGLE: Top - Camden
Btm - Big Isaac

DISTRICT: Freemans Creek

COUNTY: Lewis
ACREAGE: 55.00
08/25/2023

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

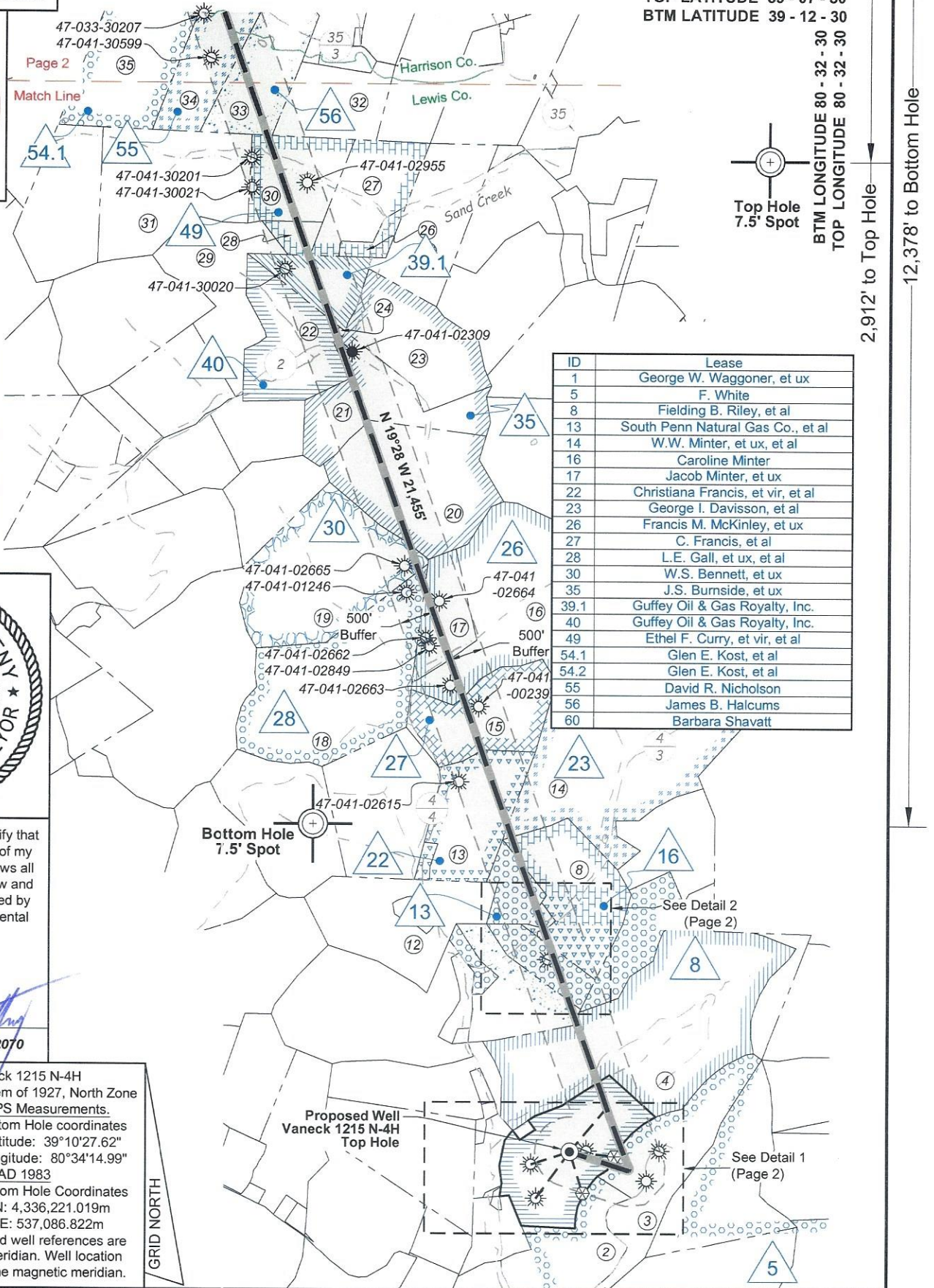
PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 29,167' MD 7,075' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC

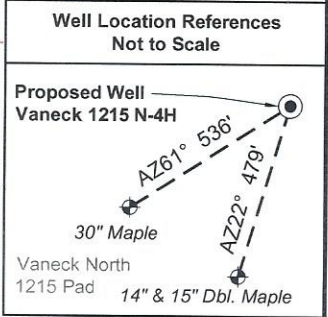
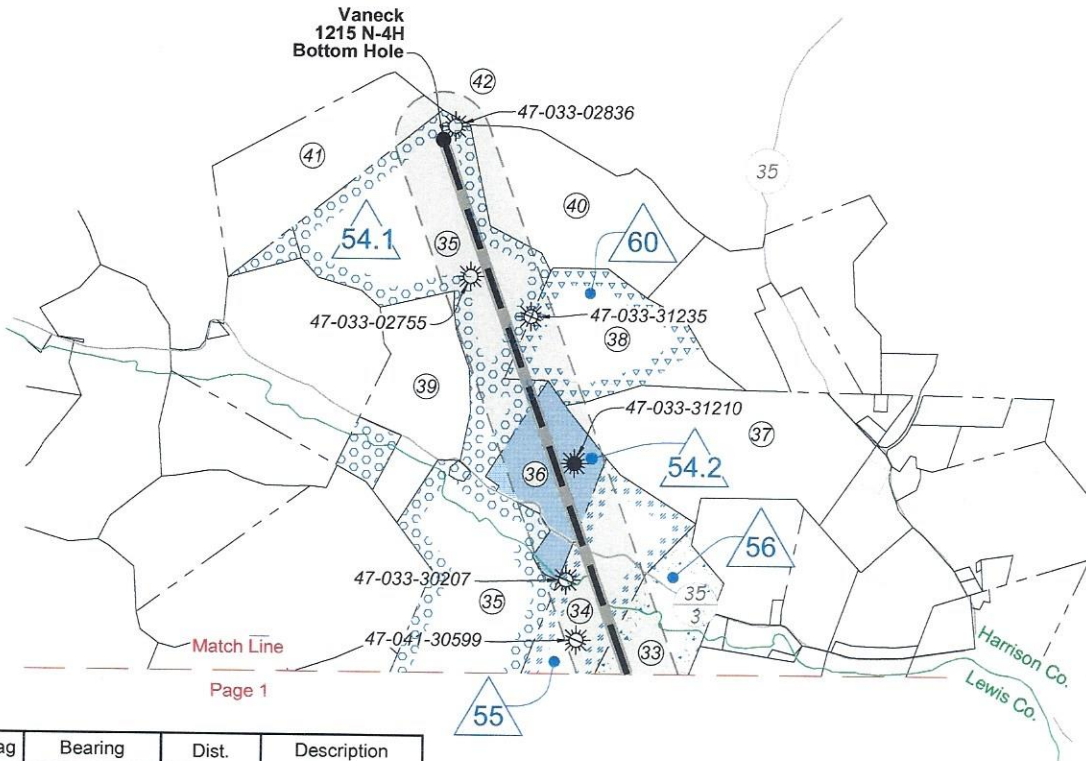
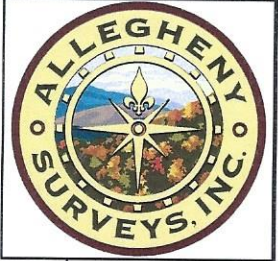
DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

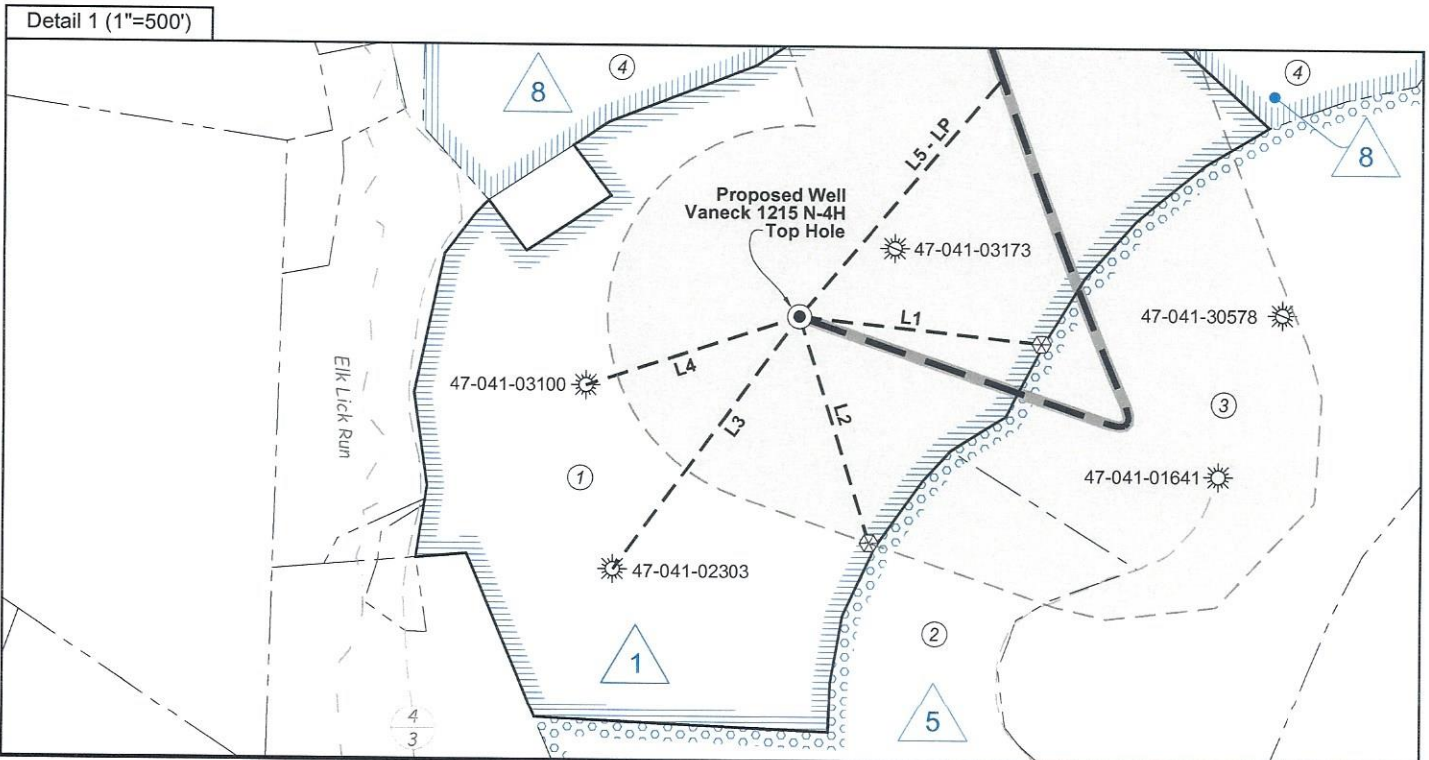
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101



ID	Lease
1	George W. Waggoner, et ux
5	F. White
8	Fielding B. Riley, et al
13	South Penn Natural Gas Co., et al
14	W.W. Minter, et ux, et al
16	Caroline Minter
17	Jacob Minter, et ux
22	Christiana Francis, et vir, et al
23	George I. Davison, et al
26	Francis M. McKinley, et ux
27	C. Francis, et al
28	L.E. Gall, et ux, et al
30	W.S. Bennett, et ux
35	J.S. Burnside, et ux
39.1	Guffey Oil & Gas Royalty, Inc.
40	Guffey Oil & Gas Royalty, Inc.
49	Ethel F. Curry, et vir, et al
54.1	Glen E. Kost, et al
54.2	Glen E. Kost, et al
55	David R. Nicholson
56	James B. Halcums
60	Barbara Shavatt



Tag	Bearing	Dist.	Description
L1	N 83°50' W	634.6'	1/2" Rebar
L2	N 17°13' W	620.2'	1/2" Rebar
L3	N 35°58' E	821.6'	47-041-02303
L4	N 71°45' E	584.5'	47-041-03100
L5	N 40°04' E	815.3'	Landing point



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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-4H
API WELL NO
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STATE COUNTY PERMIT

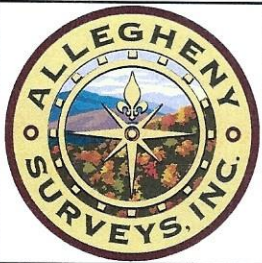
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek
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
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,075' TVD 29,167' MD

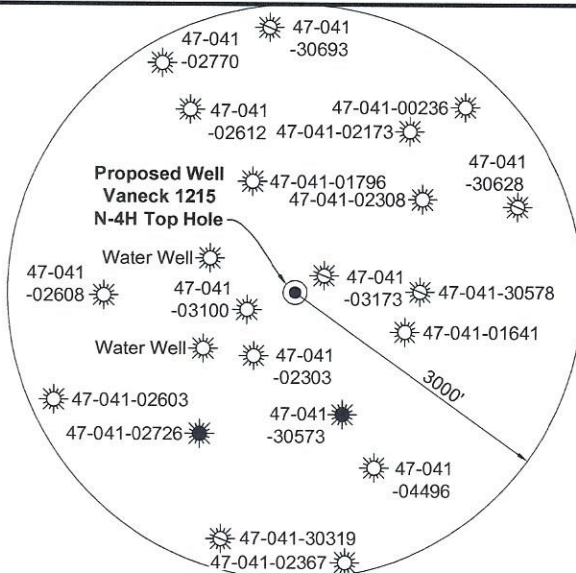
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

Top - Camden
Btm - Big Isaac
COUNTY: Lewis
ACREAGE: 55.00
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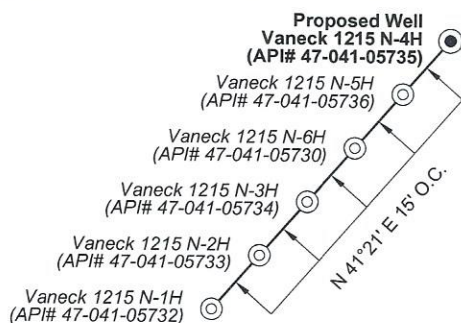
Legend

- 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.)

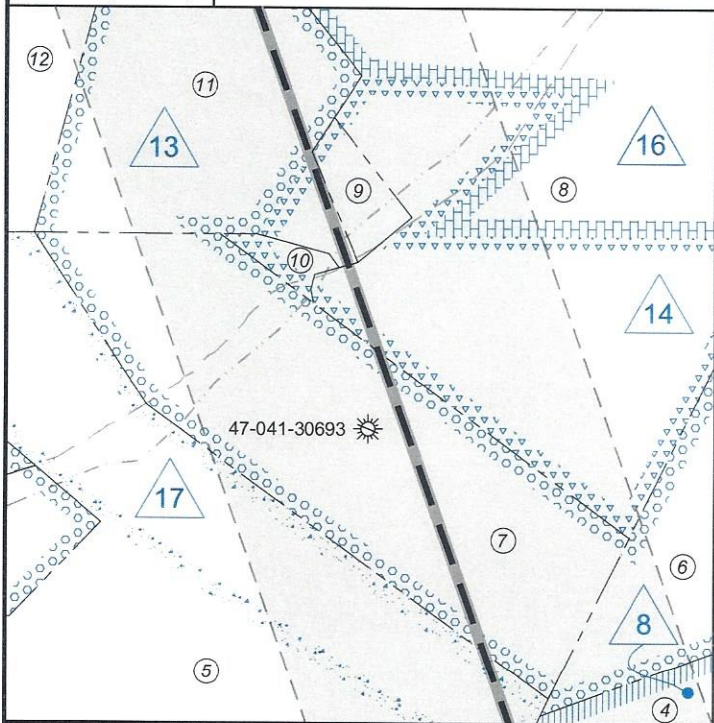


Note: 2 water well was found within 1500' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

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 / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
3	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
4	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
5	5C / 3	Betty E. Rhoades	W35 / 524	33.60
6	5C / 55	Debora Burnside Garrett, et al	WB R / 525	25.00
7	5C / 52	Debora Burnside Garrett, et al	WB R / 525	16.50
8	5B / 15	Edward E. Garrett, et al	429 / 245	53.40
9	5C / 50	Edward E. Garrett, et al	429 / 245	1.00
10	5C / 1	Betty E. Rhoades	W35 / 524	0.50
11	5B / 42	Bruce Garrett, et al	PB 2 / 155	14.10
12	5B / 11	Betty E. Rhoades	W35 / 524	56.00
13	5B / 22	Christopher G. Duerr	594 / 666	34.50
14	5B / 21	Theodore J. & Jacqueline Riley	467 / 254	140.00
15	5B / 23	Christopher G. Duerr	594 / 666	40.00
16	5B / 25.1	Jeffrey P. & Anessa E. Griffith	745 / 338	118.29
17	5B / 25	Misty L. & Gerald Kolva, II	722 / 849	25.27
18	5B / 5	Gerald L. & Rita R. Kolva	639 / 517	100.33
19	5B / 4	Coastal Forest Resources Co.	710 / 471	85.00
20	5B / 3	Jeffrey P. & Anessa E. Griffith	653 / 168	74.00
21	5B / 1	Jeffrey P. & Anessa E. Griffith	692 / 498	49.25
22	5A / 4	Jeffrey P. & Anessa E. Griffith	692 / 498	44.00
23	5A / 5	Jeffrey P. & Anessa E. Griffith	653 / 165	51.25
24	5A / 3	Howard Walker, III	576 / 473	0.19
25	5A / 6	Jeffrey P. & Anessa E. Griffith	692 / 498	78.00
26	5A / 2.1	Wilson L. Zimmerman	702 / 556	6.00
27	5A / 2	Jerry Tomes	W17 / 336	42.00
28	5A / 1	Jerry C. & Linda K. Tomes	469 / 408	6.00
29	4A / 37	Rachel D. & Joshua M. Wyckoff	750 / 260	48.50
30	4A / 35	Jerry Tomes	W17 / 336	34.00
31	4A / 34	Jerry Tomes	W17 / 336	80.00
Harrison Co. - Union Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
32	421 / 35	Marion Dougherty	1464 / 1331	34.00
33	421 / 30	John T. & Stephanie J. Sowell	1261 / 1129	42.80
34	421 / 29	John T. & Stephanie J. Sowell	1261 / 1129	51.27
35	421 / 8	Kincheloe Mitigation Holdings, LLC	1565 / 908	185.30
36	421 / 28	Helen & David Stout	1406 / 1111	28.00
37	421 / 11.2	Christopher D. Nikki B. Curry	1616 / 417	70.00
38	421 / 10	Christopher D. Nikki B. Curry	1616 / 417	46.00
39	421 / 26	Kincheloe Mitigation Holdings, LLC	1565 / 908	37.96
40	421 / 9	Jeff Burnside	1345 / 957	52.20
41	421 / 7	Donald J. & Carole D. Knicely	1219 / 1282	47.70
42	401 / 10	Jeff Burnside	1345 / 957	44.77

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