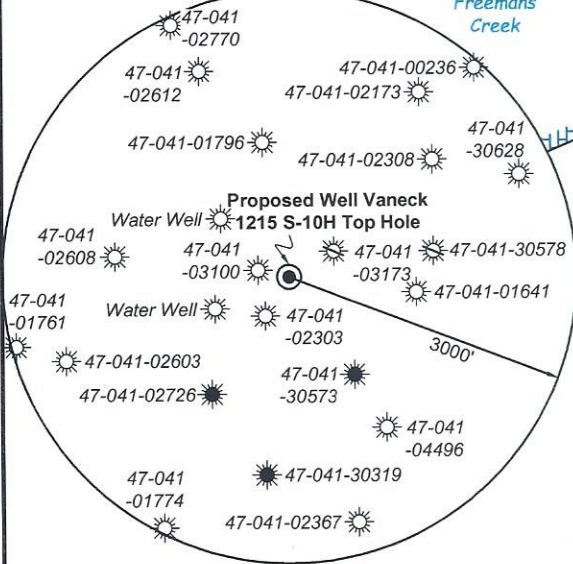
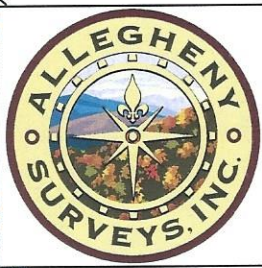


HG Energy II Appalachia, LLC
Well No. Vaneck 1215 S-10H MOD
Page 1 of 4
Proposed Well Vaneck 1215 S-10H Top Hole

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



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.

FILE NO: 156-36-UFC-20
DRAWING NO: Vaneck 1215 S-10H 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

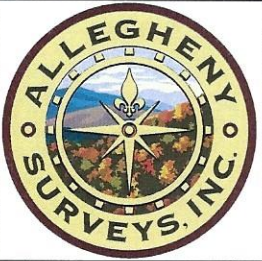
DATE: February 9 2023
OPERATOR'S WELL NO. Vaneck 1215 S-10H
API WELL NO
47 - 041 - 05740
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: Lewis
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00
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 7,040' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 31,484' MD

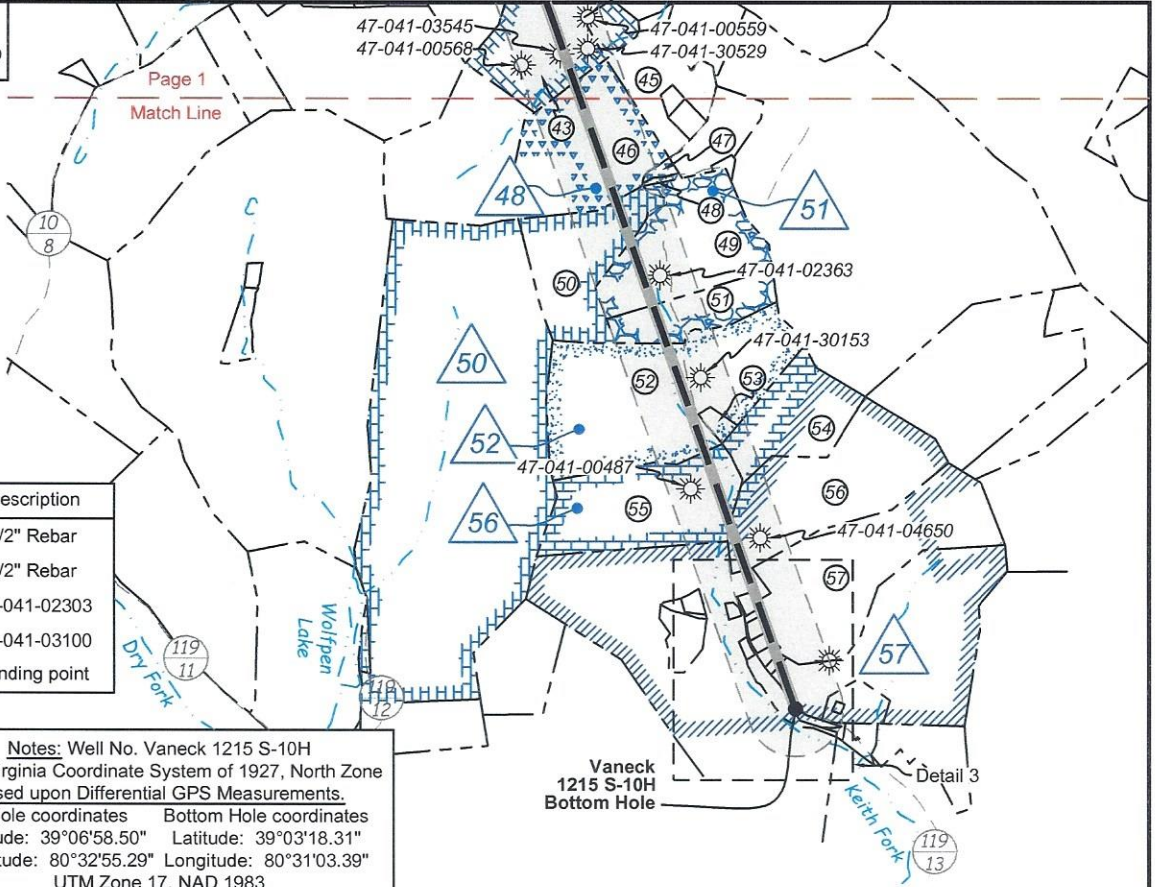
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



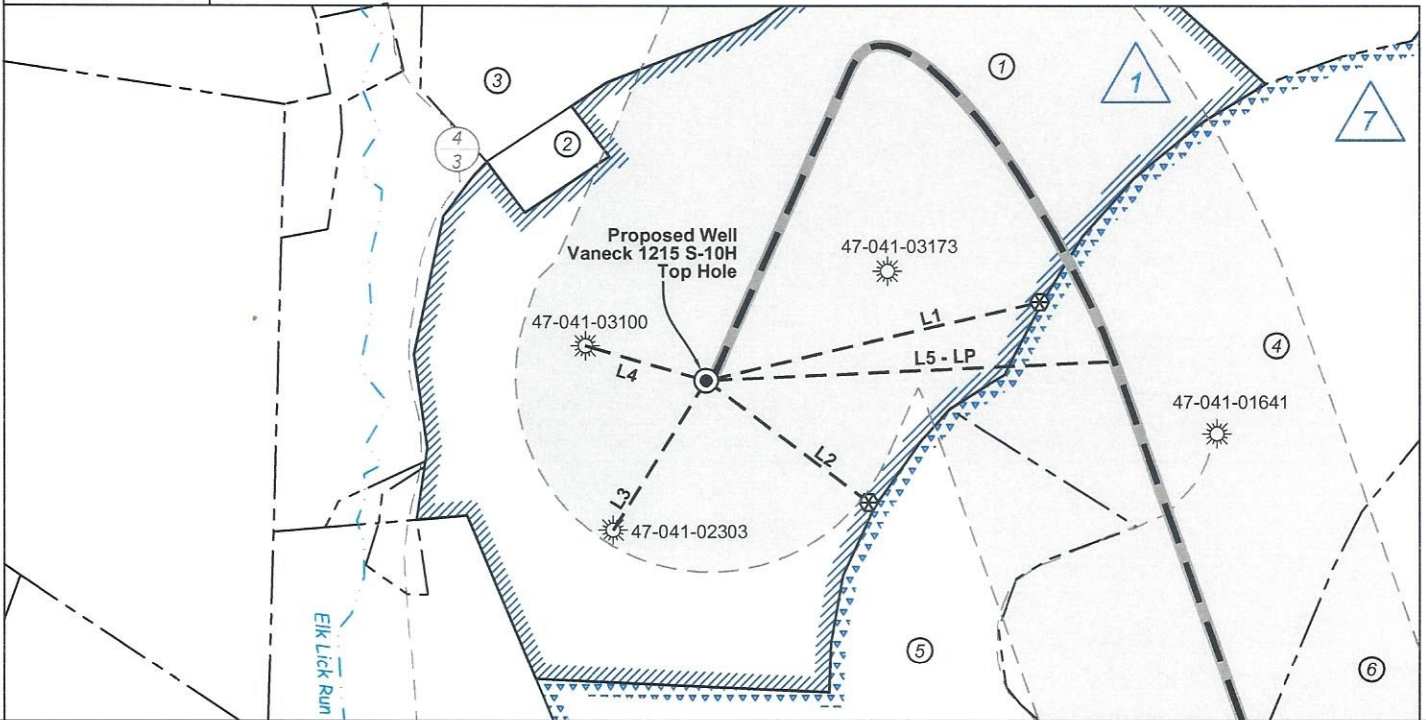
Tag	Bearing	Dist.	Description
L1	S 76°40' W	895.3'	1/2" Rebar
L2	N 53°08' W	529.8'	1/2" Rebar
L3	N 31°49' E	459.5'	47-041-02303
L4	S 73°48' E	327.9'	47-041-03100
L5	N 87°17' E	1,065.8'	Landing point

Notes:
Well No. Vaneck 1215 S-10H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,300.73'
E: 1,768,472.10'
Landing Point Coordinates
N: 14,205,351.22'
E: 1,769,536.72'
Bottom Hole Coordinates
N: 14,183,077.41'
E: 1,777,407.44'

Notes: Well No. Vaneck 1215 S-10H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°06'58.50" Latitude: 39°03'18.31"
Longitude: 80°32'55.29" Longitude: 80°31'03.39"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,329,784.322m N: 4,323,010.641m
E: 539,031.374m E: 541,754.871m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.



Detail 1 (1"=500')



FILE NO: 156-36-UFC-20
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SCALE: 1" = 2000'
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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 9 2023
OPERATOR'S WELL NO. Vaneck 1215 S-10H
API WELL NO
47 — 041 — 05740
STATE COUNTY PERMIT

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

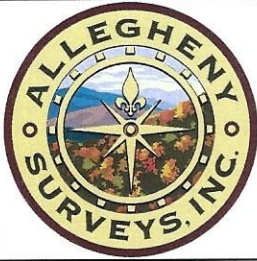
LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: HG Energy II, Appalachia, LLC, et al

QUADRANGLE: Camden
COUNTY: Lewis
ACREAGE: 55.00

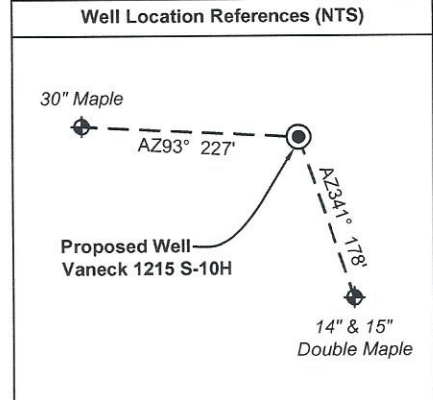
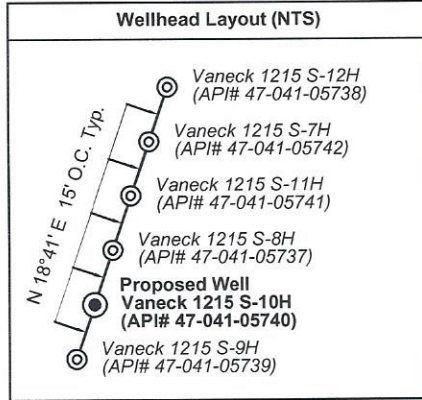
ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: _____ ACREAGE: 56.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BH-MOD _____ 7,040' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 31,484' 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

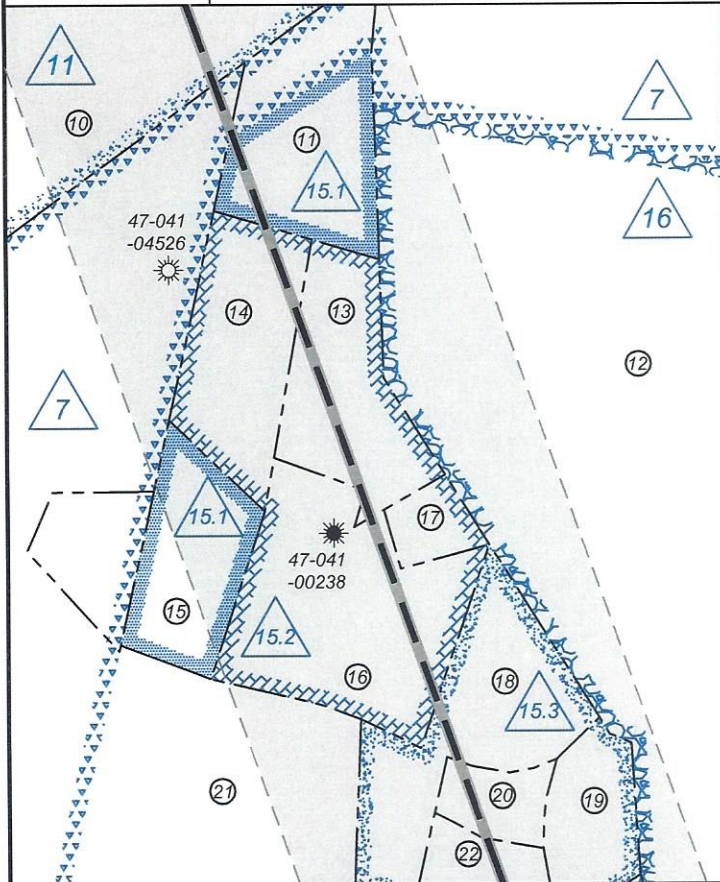
05/05/2023



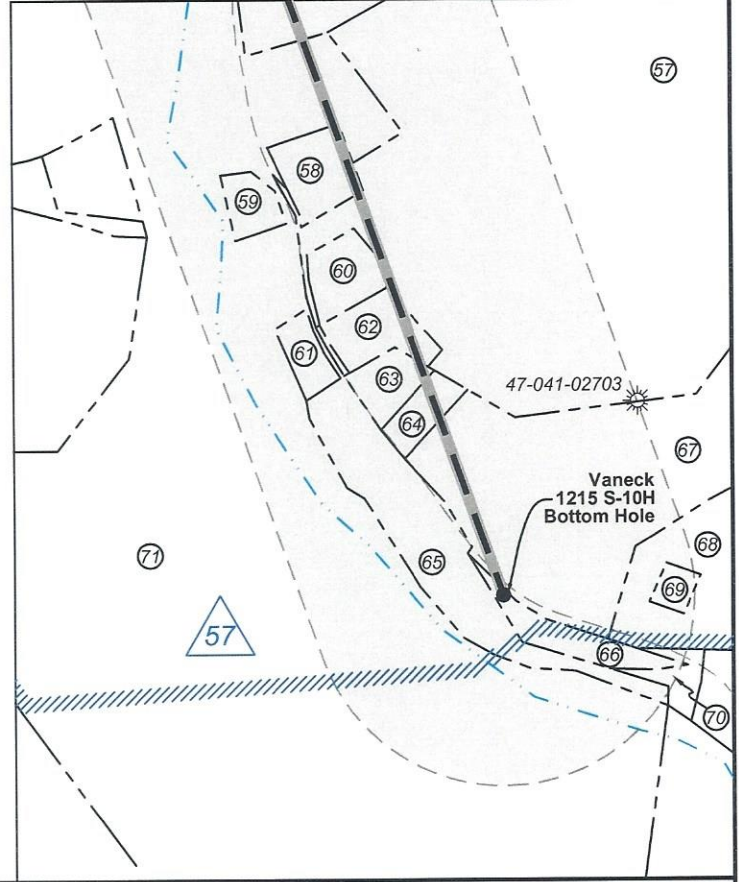
Legend	
	Proposed gas well
	Well Reference, as noted
	Monument, as noted
	Existing Well, as noted
	Existing Plugged Well, as noted
	Digitized Well, as noted
	Creek or Drain
	Existing Road
	Surface boundary (approx.)
	Adjoiner surface tracts (approx.)



Detail 2 (1"=500')



Detail 3 (1"=500')



FILE NO: 156-36-UFC-20
 DRAWING NO: Vaneck 1215 S-10H 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

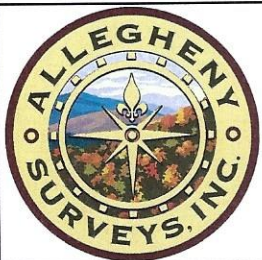
DATE: February 9 2023
 OPERATOR'S WELL NO. Vaneck 1215 S-10H
 API WELL NO
 47 - 041 - 05740
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1254.8' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
 DISTRICT: Freemans Creek COUNTY: Lewis
 SURFACE OWNER: HG Energy II, Appalachia, LLC, et al ACREAGE: 55.00
 ROYALTY OWNER: George W. Waggoner, et ux, et al LEASE NO: ACREAGE: 56.00
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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

05/05/2023



Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	5C / 29	H.G. Energy II Appalachia, LLC	765 / 894	55.00
2	5C / 28	Judith G. Piercy	F30 / 596	1.00
3	5C / 30	Woody Lumber Co. Inc.	590 / 438	140.50
4	5C / 27.2	Jack E. & Cerilda M. Waggoner	547 / 691	57.97
5	5C / 25	Raymond C. & Colona J. Waggoner	567 / 416	45.48
6	5C / 22	Linda Lou Waggoner	W33 / 157	57.76
7	5C / 22.1	Janet L. & Joseph C. Waggoner, Sr.	705 / 183	57.53
8	5C / 19	Randal D. & Martika Mick	763 / 674	78.23
9	5C / 45	Phillip E. Burnside, et al	666 / 503	121.42
10	5C / 21	Billy E. Davisson	661 / 708	54.11
11	5C / 20	Edward E. Garrett, et al	429 / 245	5.70
12	5D / 35	Edward E. Garrett, et al	429 / 245	130.47
13	5D / 21.3	Cherri A. Neth	671 / 495	4.09
14	5D / 21.2	Michelle D. Harter	671 / 396	4.00
15	5D / 21	Dawn Tomey	706 / 877	3.37
16	5D / 21.1	Rusty Wilfong (LE)	712 / 574	7.93
17	5D / 21.4	Rusty Wilfong (LE)	727 / 800	0.90
18	5D / 23	Patrick W. Halterman	F2 / 215	5.00
19	5D / 24	Jeff Quesenberry	681 / 561	2.19
20	5D / 24.1	Bruce & Pamela Morrison	503 / 169	1.18
21	5D / 19	Smoke Camp Crafts, LLC	767 / 832	124.75
22	5D / 24.2	Bruce & Pamela Morrison	503 / 169	1.63
23	5D / 25	Dorothy M. Davis	Inv173 / 846	35.75
24	5D / 36.2	Clifford B. Messenger	625 / 166	27.32
25	5D / 36	Carroll G. Gum, et al	625 / 343	9.71
26	5D / 26	Verna E. & Paul J. Heater, Jr.	561 / 371	34.80
27	5D / 33	Carroll G. Gum, et al	625 / 343	14.32
28	5D / 39.3	Janice W. Sundstrom	W41 / 517	35.09
29	5D / 33.2	Trudy D. Gum	616 / 539	0.48
30	5D / 34	Betty E. Rhoades	W35 / 524	16.90
31	5D / 33.1	Trudy D. Gum	450 / 516	1.49
32	5D / 32	Burce Garrett, et al	577 / 351	100.60
33	5D / 51.1	Tonya K. Shiver	722 / 383	1.80
34	5D / 51.4	Carl E. & Pearlina Mealey	748 / 611	1.27
35	5D / 51	Michael & Glodell Morris	621 / 412	13.55
36	5D / 31	Edward E. Garrett	334 / 565	81.27
37	5D / 30.2	Matthew R. & Linda R. Blake	603 / 372	0.62
38	5D / 30	Kathleen L. Ables	W24 / 417	3.94
39	5D / 30.1	Kathleen L. Ables	W24 / 417	3.94
40	5D / 29	Edward E. Garrett	334 / 565	70.25
41	5E / 18.2	Robert P. Snuffer	FR31 / 197	49.16
42	5E / 40	Michael G. & Laura S. Meixner	681 / 31	38.00
43	5E / 39	Ronald L. Cunningham, Jr. & Vicky A. Browning	426 / 546	34.09
44	5E / 39.1	Ronald L. Cunningham, Jr. & Vicky A. Browning	493 / 31	4.66
45	5E / 37	James E. & Edith A. Browning	486 / 387	17.88
46	5E / 34	Ronald L. Cunningham, Jr. & Vicky A. Browning	426 / 546	37.47
47	5E / 34.2	Mike Ross & I.L. Morris	615 / 108	0.95
48	5E / 34.1	Stephen R. Peters & Della J. Woofler	551 / 425	0.53
49	6E / 5	Sandra Dodd & William Collins	438 / 339	30.91
50	5E / 33	Alice J. Fisher, et al	716 / 434	30.25

ID	Lease
1	George W. Waggoner, et ux
7	F. White
11	Thornton Taylor, et al
13	Israel Simmons
15.1	Phillis Ann Greer
15.2	Donna Jean Taylor Wilson
15.3	Mike Ross, Inc.
16	Clark White, et ux
17	A.T. Simmons
30	Alfred Woofler, et ux
37	Ruth M. Gerstner, Attorney-in-fact for Cornelia E. Fury, et vir.
48	Connie Jane Scott, et al
50	Calvin Flesher, et ux
51	Marion Losh, et ux
52	Paul B. Losh, et ux
56	Carl G. Alfred, et ux
57	M.M. Peterson, et ux

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
51	6E / 5.1	Allen D. Marple	W10 / 258	15.34
52	5E / 32	Allen D. Marple	W47 / 451	67.55
53	6E / 6	Jerry's Salvage, LLC	666 / 702	1.70
54	6E / 43	Gary L. Wright	767 / 622	22.82
55	5E / 31	Fox Living Trust	589 / 670	39.20
56	6E / 7	Gerald R. Wright	WB M / 333	50.67
57	6F / 1.2	Roger L. & LaDonna F. Sprouse	323 / 649	53.86
58	6F / 3.3	Betty L. Louk	320 / 383	0.97
59	6F / 8.1	Robert G. King	611 / 667	0.46
60	6F / 3.2	Samuel C. & Steven L. Taylor	W60 / 478	0.82
61	6F / 4.1	Robert H. Golden & NGA	450 / 644	0.45
62	6F / 3.1	Pamela Lattea	F31 / 257	0.87
63	6F / 34.1	Jeffrey T. Lamb	722 / 467	0.54
64	6F / 34.2	William E. & Linda S. McClung	322 / 159	0.51
65	6F / 4.3	Robert C. Shearer Trust	W44 / 213	3.29
66	6F / 34.3	Richard Bonnet	637 / 132	0.74
67	6F / 34	Kevin & Janet Mullooly	551 / 36	52.27
68	6F / 5.1	Chasidy D. & William D. Murray	729 / 828	4.81
69	6F / 5	Steven & Susan Marple (L/E)	729 / 828	0.24
70	6F / 6	West Fork Soil Conservation	290 / 13	0.56
71	6F / 9	Patrick D. Boyle	625 / 253	150.19

FILE NO: 156-36-UFC-20
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SCALE: 1" = 2000'
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Submeter
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