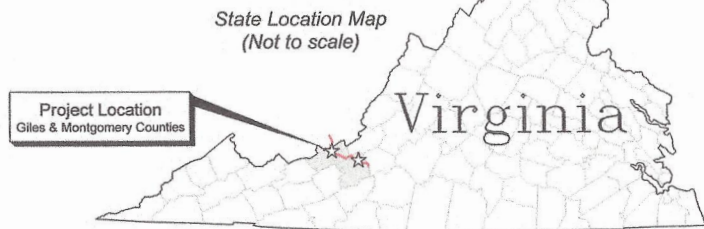
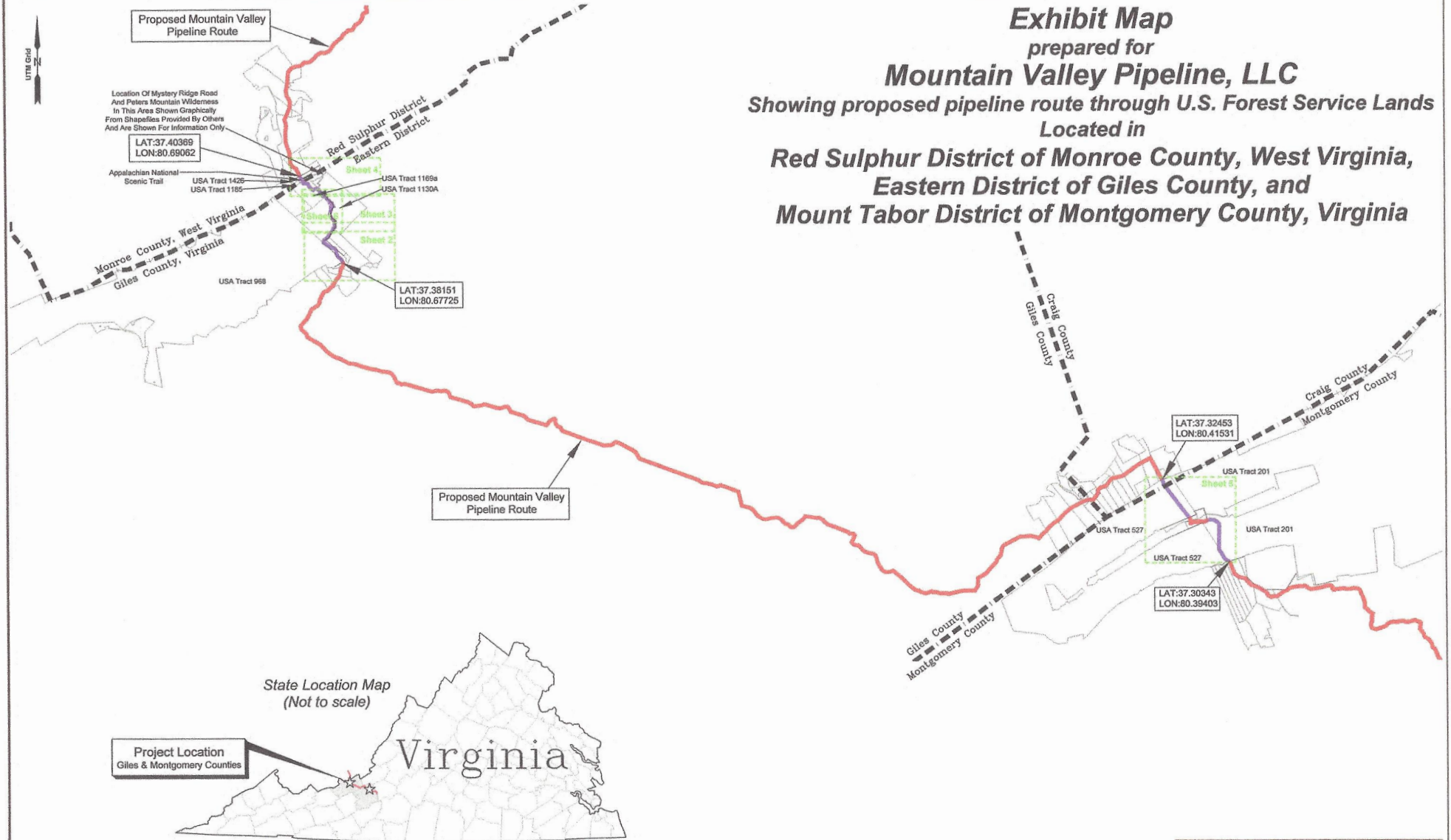


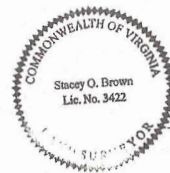
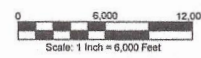
**APPENDIX A-4
Exhibit Maps**

Exhibit Map prepared for **Mountain Valley Pipeline, LLC** Showing proposed pipeline route through U.S. Forest Service Lands Located in **Red Sulphur District of Monroe County, West Virginia, Eastern District of Giles County, and Mount Tabor District of Montgomery County, Virginia**



SHEET INDEX	
Sheet No.	Description
1	Cover Sheet (this sheet)
2 - 4	Giles County, Virginia
5	Montgomery County, Virginia
6	Access Road Areas, Giles County, Virginia

Proposed Areas	Giles County, VA (Eastern District)			Monroe County, WV (Red Sulphur District)		Montgomery County, VA (Mount Tabor District)	
	Tract 968	Tract 1130A	Tract 1169a	Tract 1185	Tract 1426	Tract 201	Tract 527
Pipeline Permanent Easement: (A)	0.93 Ac.	5.76 Ac.	3.50 Ac.	0.24 Ac.	0.33 Ac.	4.16 Ac.	6.70 Ac.
Total Pipeline Construction Disturbance Area: (B)	2.80 Ac.	13.88 Ac.	7.54 Ac.		0.41 Ac.	10.38 Ac.	15.69 Ac.
Access Road Construction Disturbance Area: (C)		2.22 Ac.	0.05 Ac.				
Additional Temporary Workspace: (D)	0.11 Ac.						0.55 Ac.
Total Area for Construction (Sum of Lines B, C, and D):	2.91 Ac.	16.10 Ac.	7.59 Ac.		0.41 Ac.	10.38 Ac.	16.24 Ac.
Total Area of Permanent Easement (Line A):	0.93 Ac.	5.76 Ac.	3.50 Ac.	0.24 Ac.	0.33 Ac.	4.16 Ac.	6.70 Ac.



Stacy O. Brown, L.S.
Date: 12/16/2020

Birch River Office
Phone: (204) 548-8606
Fax: (204) 548-8608

237 Birch River Road
Birch River, WV 25910

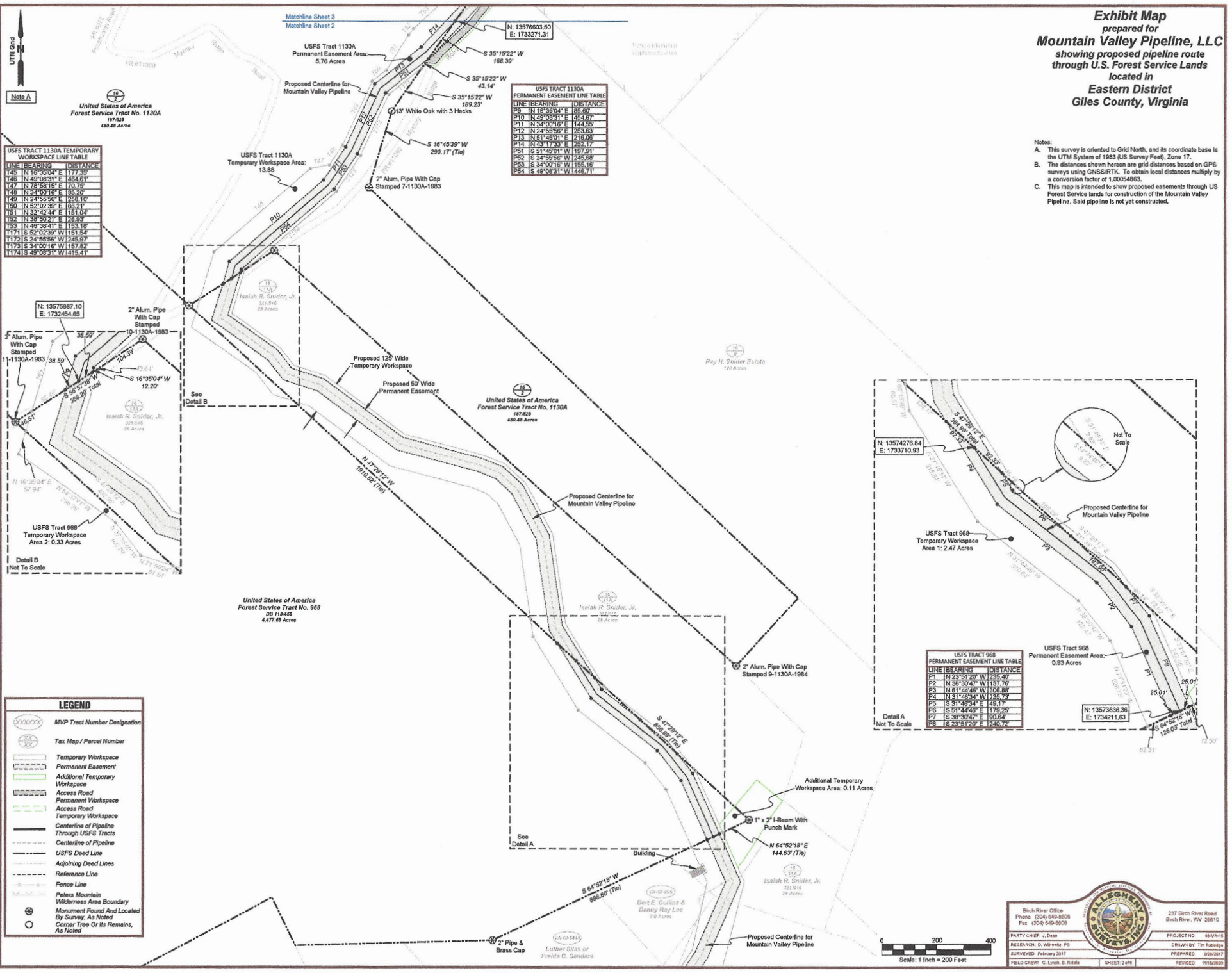
PARRY CHIEF: J. Dean
RESEARCH: D. Wilkatz, P.S.
SURVEYED: February 2017
FIELD CREW: C. Lynch, B. Riddie

PROJECT NO: 88-VA-16
DRAWN BY: Tim Rutledge
PREPARED: 02/02/17
REVISION: 12/16/2020

SHEET 1 of 6

Exhibit Map
 prepared for
Mountain Valley Pipeline, LLC
 showing proposed pipeline route
 through U.S. Forest Service Lands
 located in
Eastern District
Giles County, Virginia

Notes:
 A. This survey is oriented to Grid North, and its coordinate base is the UTM System of 1983 (US Survey Feet), Zone 17.
 B. The distances shown hereon are grid distances based on GPS surveys using GNSS/RTK. To obtain local distances based on a conversion factor of 1.00054963.
 C. This map is intended to show proposed easements through US Forest Service lands for construction of the Mountain Valley Pipeline. Said pipeline is not yet constructed.



USFS TRACT 1130A TEMPORARY WORKSPACE LINE TABLE

LINE BEARING	DISTANCE
L45 N 16°35'04" E	177.30
L46 N 49°35'31" E	654.61
L47 N 78°58'15" E	70.79
L48 N 34°00'16" E	85.20
L49 N 24°55'56" E	254.10
L50 N 52°02'35" E	66.21
L51 N 32°42'44" E	115.04
L52 N 38°52'21" E	28.93
L53 N 48°38'41" E	153.18
L54 S 52°02'39" W	1151.54
L55 S 24°55'56" W	245.91
L56 S 34°00'16" W	157.82
L57 S 49°08'31" W	1415.41

USFS TRACT 1130A PERMANENT EASEMENT LINE TABLE

LINE BEARING	DISTANCE
P9 N 16°35'04" E	85.80
P10 N 49°35'31" E	454.67
P11 N 34°00'16" E	144.59
P12 N 24°55'56" E	253.63
P13 N 51°43'01" E	218.96
P14 N 43°17'33" E	282.17
P15 S 51°45'01" W	197.91
P16 S 34°00'16" W	125.58
P17 S 34°00'16" W	155.19
P18 S 49°08'31" W	1448.71

USFS TRACT 968 PERMANENT EASEMENT LINE TABLE

LINE BEARING	DISTANCE
P1 N 23°51'20" W	235.40
P2 N 38°30'47" W	1137.76
P3 N 51°42'46" W	1306.89
P4 N 31°46'34" W	1235.73
P5 S 31°46'34" E	48.71
P6 S 51°42'46" E	1193.25
P7 S 38°30'47" E	50.84
P8 S 23°51'20" E	1240.72

LEGEND

- MVP Tract Number Designation
- Tax Map / Parcel Number
- Temporary Workspace
- Permanent Easement
- Additional Temporary Workspace
- Access Road
- Permanent Workspace
- Access Road
- Temporary Workspace
- Centerline of Pipeline Through USFS Tracts
- Centerline of Pipeline
- USFS Deed Line
- Adjoining Deed Lines
- Reference Line
- Fence Line
- Peters Mountain Wilderness Area Boundary
- Monument Found And Located By Survey, As Noted
- Corner Tree Or Its Remains, As Noted

Brich River Office
 Phone: (304) 648-9008
 Fax: (304) 648-9008

237 Brich River Road
 Brich River, WV 26610

ALLIANCE SURVEYING

PARTY CHIEF: J. Dean
 RESEARCH: D. Winkler, PS
 SURVEYED: February 2017
 FIELD CREW: C. Lynch, B. Riddle

PROJECT NO: 8424-19
 DRAWN BY: Tim Rudolph
 PREPARED: 02/03/17
 REVISED: 11/16/2019

SHEET 3 of 6

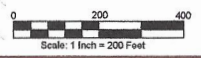


Exhibit Map prepared for Mountain Valley Pipeline, LLC showing proposed pipeline route through U.S. Forest Service Lands located in Eastern District Giles County, Virginia

Notes:
 A. This survey is oriented to Grid North, and its coordinate base is the UTM System of 1983 (US Survey Feet), Zone 17.
 B. The distances shown hereon are grid distances based on GPS surveys using GNSS/RTK. To obtain local distances multiply by a conversion factor of 1.00054983.
 C. This map is intended to show proposed easements through US Forest Service lands for construction of the Mountain Valley Pipeline. Said pipeline is not yet constructed.

PIPE LINE CENTERLINE LINE TABLE		
LINE	BEARING	DISTANCE
L29	N 73°16'22" W	242.32'
L30	N 55°37'58" W	152.37'

Matchline Sheet 4
Matchline Sheet 3

N: 13579638.47
E: 1732226.95

USFS Tract 1169a
Temporary Workspace Area: 7.54 Acres
Permanent Easement Area: 3.50 Acres

Location Of Mystery Ridge Road
And Peters Mountain Wilderness
In This Area Shown Graphically
From Shapesets Provided By Others
And Given For Information Only



USFS Tract 1169a TEMPORARY WORKSPACE LINE TABLE

LINE BEARING	DISTANCE
Y176 N 73°26'01" W	204.91'
Y177 N 55°37'58" W	154.29'
Y178 N 34°24'02" E	125.67'
Y179 N 55°37'58" W	163.31'
Y180 N 45°24'06" W	169.91'
Y181 S 44°35'44" W	125.02'
Y182 N 45°24'06" W	131.06'
Y183 N 25°37'38" W	134.63'
Y229 S 55°37'58" W	168.31'
Y230 S 73°17'26" E	258.66'

United States of America
Forest Service Tract No. 1169a
176923
102.83 Acres

USFS TRACT 1130A TEMPORARY WORKSPACE LINE TABLE		USFS TRACT 1130A TEMPORARY WORKSPACE LINE TABLE	
LINE BEARING	DISTANCE	LINE BEARING	DISTANCE
P14 N 23°17'33" E	282.17'	P113 S 36°22'42" E	110.59'
P15 N 03°37'36" W	150.02'	P114 S 43°52'35" E	55.57'
P16 N 03°37'36" W	150.02'	P115 S 66°58'01" E	89.68'
P17 N 00°39'12" E	549.25'	P116 S 31°24'02" E	107.39'
P18 N 45°17'14" W	142.25'	P117 S 41°28'11" E	47.13'
P19 N 45°17'14" W	142.25'	P118 S 36°17'45" E	36.80'
P20 N 27°44'15" W	382.57'	P119 S 09°03'04" E	112.30'
P21 N 11°05'59" E	250.58'	P120 S 80°51'53" E	175.42'
P22 N 21°33'38" E	243.79'	P121 S 45°20'49" E	25.00'
P23 N 29°45'33" E	352.91'	P122 S 30°19'38" E	62.53'
P24 N 23°08'30" W	226.67'	P123 S 21°13'47" E	105.76'
P25 N 80°51'53" W	200.08'	P124 S 20°03'14" E	32.30'
P26 N 03°03'26" W	181.26'	P125 S 39°19'38" E	62.53'
P27 N 42°24'52" W	177.15'	P126 S 17°44'51" W	137.77'
P28 N 64°11'19" W	115.56'	P127 S 71°44'51" W	137.77'
P29 N 42°18'53" W	92.48'	P128 S 40°43'11" W	79.92'
P30 N 19°35'15" W	181.99'	P129 S 24°54'55" W	110.50'
P31 N 64°37'28" W	54.93'	P130 S 31°22'42" W	103.65'
P32 N 73°16'22" W	82.41'	P131 S 31°19'24" W	65.63'
P33 S 21°02'22" E	37.00'	P132 S 27°53'12" W	38.06'
P34 S 64°37'28" E	79.06'	P133 S 21°22'07" W	40.16'
P35 S 19°33'18" E	202.68'	P134 S 21°22'07" W	40.16'
P36 S 42°19'53" E	174.29'	P135 S 19°00'40" W	14.81'
P37 S 64°11'19" E	115.52'	P136 S 13°35'33" W	47.29'
P38 S 42°24'52" E	101.76'	P137 S 16°18'45" E	57.71'
P39 S 03°03'26" E	168.18'	P138 S 19°17'49" E	63.13'
P40 S 80°51'53" E	191.44'	P139 S 21°27'16" E	61.79'
P41 S 22°08'30" E	348.30'	P140 S 15°33'33" E	64.59'
P42 S 49°45'33" W	315.20'	P141 S 19°00'40" W	14.81'
P43 S 21°33'38" W	235.67'	P142 S 24°14'18" E	29.38'
P44 S 17°10'56" W	228.79'	P143 S 14°09'02" W	37.62'
P45 S 27°44'15" E	358.11'	P144 S 10°27'49" E	55.13'
P46 S 43°12'14" E	232.78'	P145 S 13°29'47" E	57.38'
P47 S 45°27'13" E	183.99'	P146 S 16°18'45" E	63.13'
P48 S 03°24'14" W	197.25'	P147 S 21°27'16" E	61.79'
P49 S 53°06'24" W	154.26'	P148 S 15°33'33" E	64.59'
P50 S 03°37'35" E	178.47'	P149 S 19°00'40" W	14.81'

USFS Tract 1130A
Temporary Workspace Area:
13.68 Acres

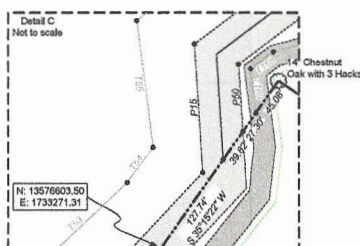
USFS Tract 1130A
Permanent Easement Area:
5.76 Acres

United States of America
Forest Service Tract No. 1130A
187629
480.48 Acres

United States of America
Forest Service Tract No. 1130A
187629
480.48 Acres

LEGEND

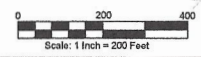
- MVP Tract Number Designation
- Tax Map / Parcel Number
- Temporary Workspace
- Permanent Easement
- Additional Temporary Workspace
- Access Road
- Permanent Workspace
- Access Road
- Temporary Workspace
- Centerline of Pipeline Through USFS Tracts
- Centerline of Pipeline
- USFS Deed Line
- Adjoining Deed Lines
- Reference Line
- Fence Line
- Peters Mountain Wilderness Area Boundary
- Monument Found And Located By Survey, As Noted
- Corner Tree Or Its Remains, As Noted



Proposed 125' Wide Temporary Workspace

Proposed 50' Wide Permanent Easement

Proposed Centerline for Mountain Valley Pipeline



Bloch River Office
Phone: (204) 648-6600
Fax: (204) 648-9608

237 Bloch River Road
Bloch River, WV 26610

ALLEGHENY COUNTY

PARTY CHECK: J. Dean
RESEARCH: D. Wilkatz, PS
SURVEYED: February 2017
FIELD CREW: C. Lynn, B. Ridd

PROJECT NO: 18-174-18
DRAWN BY: Tim Rutledge
PREPARED: 9/26/2017
REVISION: 1/18/2020

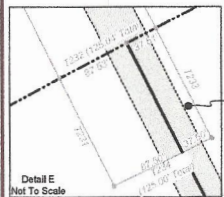
SHEET 3 of 6

Exhibit Map
 prepared for
Mountain Valley Pipeline, LLC
 showing proposed pipeline route
 through U.S. Forest Service Lands
 located in
**Eastern District
 Giles County, Virginia
 and
 Red Sulphur District
 Monroe County, West Virginia**

- Notes:
- This survey is oriented to Grid North, and its coordinate base is the UTM System of 1983 (US Survey Feet), Zone 17.
 - The distances shown hereon are grid distances based on GPS surveys using GNSS-RTK. To obtain local distances multiply by a conversion factor of 1.00054663.
 - This map is intended to show proposed easements through US Forest Service lands for construction of the Mountain Valley Pipeline. Said pipeline is not yet constructed.

LINE	BEARING	DISTANCE
L31	N 25°37'38" W	132.15'
L32	N 07°56'09" W	110.17'
L33	N 42°12'25" W	90.04'
L34	N 28°24'25" W	108.74'
L35	N 34°39'16" W	243.21'
L36	N 79°27'34" W	74.32'
L37	S 71°39'27" W	200.35'
L38	S 58°54'10" W	173.64'
L39	N 57°17'38" W	258.02'
L40	N 41°24'07" W	308.75'
L41	N 16°39'27" W	216.23'
L42	N 60°49'34" W	51.61'
L43	N 86°39'27" W	387.74'
L44	N 26°28'45" W	732.48' (Total)

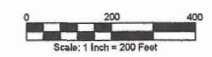
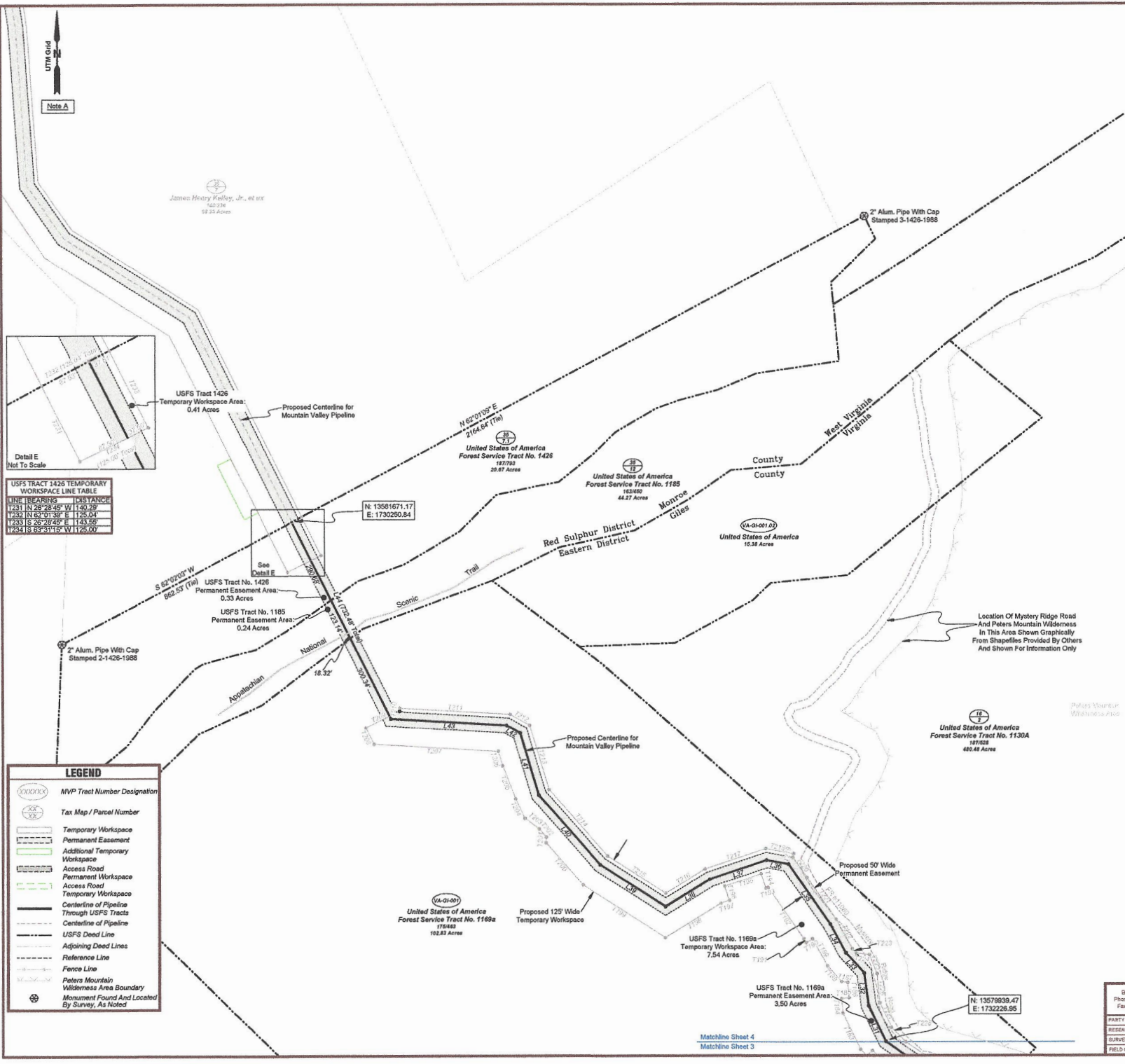
LINE	BEARING	DISTANCE
V184	N 05°19'21" W	48.36'
V185	N 84°41'39" E	25.00'
V186	N 05°16'21" W	51.55'
V187	N 85°31'04" W	30.43'
V188	N 42°12'25" W	70.02'
V189	N 26°24'25" W	102.97'
V190	S 59°25'25" W	74.02'
V191	N 26°24'25" W	114.92'
V192	N 84°41'39" E	208.50'
V193	S 71°39'27" W	117.92'
V194	N 16°39'33" W	150.00'
V195	S 71°39'27" W	117.92'
V196	S 18°33'33" E	150.00'
V197	S 71°39'27" W	29.38'
V198	S 85°10'00" W	100.00'
V199	N 57°17'38" W	325.00'
V200	N 41°24'07" W	186.69'
V201	N 63°31'15" E	118.46'
V202	N 40°09'41" W	35.46'
V203	N 52°56'18" W	59.16'
V204	N 27°24'45" W	117.84'
V205	N 21°28'15" W	118.27'
V206	N 16°39'27" W	50.13'
V207	N 86°39'25" W	145.41'
V208	N 26°28'45" W	160.70'
V209	N 63°31'15" E	128.00'
V210	N 03°28'10" E	110.19'
V211	S 86°39'18" E	368.60'
V212	S 00°45'34" E	76.35'
V213	S 16°39'27" E	225.32'
V214	S 41°24'07" E	265.25'
V215	S 71°39'27" E	225.25'
V216	N 85°41'04" W	154.60'
V217	N 71°39'27" E	214.51'
V218	S 71°39'27" E	84.25'
V219	S 03°28'10" E	134.25'
V220	S 34°45'17" E	82.23'
V221	S 34°45'17" E	168.66'
V222	S 42°12'25" E	111.11'
V223	S 42°12'25" E	20.24'
V224	S 59°25'25" E	43.40'
V225	S 22°12'25" E	69.19'
V226	S 05°16'21" E	96.79'
V227	S 59°25'25" E	53.44'
V228	S 42°12'25" E	70.23'



LINE	BEARING	DISTANCE
V231	N 25°37'38" W	149.28'
V232	N 6°07'39" E	125.04'
V233	S 26°28'45" E	143.59'
V234	S 65°31'15" W	125.00'

LEGEND

- MVP Tract Number Designation
- Tax Map / Parcel Number
- Temporary Workspace
- Permanent Easement
- Additional Temporary Workspace
- Access Road
- Permanent Workspace
- Access Road
- Temporary Workspace
- Centerline of Pipeline Through USFS Tracts
- Centerline of Pipeline
- USFS Deed Line
- Adjoining Deed Lines
- Reference Line
- Fence Line
- Peters Mountain Wilderness Area Boundary
- Monument Found And Located By Survey, As Noted



Brich River Office
 Phone: (204) 649-6106
 Fax: (204) 649-6108

237 Brich River Road
 Brich River, WV 26010

PARTY CHIEF: J. Dean
 RESEARCH: D. Wilbanks, FS
 SURVEYED: February 2017
 FIELD CREW: C. Lynch, B. Ridd

PROJECT NO: 84-VH-18
 DRAWN BY: Tim Rutledge
 PREPARED: 02/20/2017
 REVISED: 11/10/2017

ALLEGHENY SURVEYING

SHEET 4 of 5

Matchline Sheet 4
 Matchline Sheet 3

N: 13579939.47
 E: 1732226.95

United States of America
 Forest Service Tract No. 1169a
 116483
 102.83 Acres

United States of America
 Forest Service Tract No. 1169a
 116483
 7.54 Acres

United States of America
 Forest Service Tract No. 1169a
 116483
 3.50 Acres

United States of America
 Forest Service Tract No. 1130A
 187028
 480.48 Acres

James Henry Kelley, Jr., et al
 14023K
 58.35 Acres

United States of America
 Forest Service Tract No. 1426
 187763
 20.87 Acres

United States of America
 Forest Service Tract No. 1185
 183480
 44.27 Acres

United States of America
 VA-01-001.02
 15.38 Acres

N: 13561671.17
 E: 1730250.84

USFS Tract No. 1426
 Permanent Easement Area:
 0.33 Acres

USFS Tract No. 1185
 Permanent Easement Area:
 0.24 Acres

Proposed 125' Wide
 Temporary Workspace

Proposed 50' Wide
 Permanent Easement

Location Of Mystery Ridge Road
 And Peters Mountain Wilderness
 In This Area Shown Graphically
 From Shapfiles Provided By Others
 And Shown For Information Only

Peters Mountain
 Wilderness Area



Exhibit Map
 prepared for
Mountain Valley Pipeline, LLC
 showing proposed pipeline route
 through U.S. Forest Service Lands
 located in
**Eastern District
 Giles County, Virginia**

Notes:
 A. This survey is oriented to Grid North, and its coordinate base is the UTM System of 1983 (US Survey Feet), Zone 17.
 B. The distances shown hereon are grid distances based on GPS surveys using GNSS/RTK. To obtain local distances multiply by a conversion factor of 1.00054985.
 C. This map is intended to show proposed easements through US Forest Service lands for construction of the Mountain Valley Pipeline. Said pipeline is not yet constructed.

UTM Grid
 Note A

VA-0101
 United States of America
 Forest Service Tract No. 1169a
 176463
 122.83 Acres

N: 13579816.35
 E: 1732553.07

United States of America
 Forest Service Tract No. 1130A
 187928
 480.48 Acres

United States of America
 Forest Service Tract No. 1130A
 187928
 480.48 Acres

United States of America
 Forest Service Tract No. 968
 08 116458
 4,877.88 Acres

Isaiah R. Snider, Jr.
 215 916
 28 Acres

United States of America
 Forest Service Tract No. 1130A
 187928
 480.48 Acres

Ray H. Snider Estate
 122 Acres

LEGEND

MVP Tract Number Designation

Tax Map / Parcel Number

Temporary Workspace

Permanent Easement

Additional Temporary Workspace

Access Road

Permanent Workspace

Access Road

Temporary Workspace

Centerline of Pipeline Through USFS Tracts

Centerline of Pipeline

USFS Deed Line

Adjoining Deed Lines

Reference Line

Fence Line

Peters Mountain Wilderness Area Boundary

Monument Found And Located By Survey, As Noted

Location Of Mystery Ridge Road And Peters Mountain Wilderness In This Area Shown Graphically From Shapefiles Provided By Others And Shown For Information Only

Temporary Workspace Area: 0.05 Acres Through USFS Tract 1169a

Proposed 25' Wide Access Road Temporary Workspace

Temporary Workspace Area: 2.22 Acres Through USFS Tract 1130A

14" Chestnut Oak with 3 Hacks

N 35°15'22" E 37.69'

S 35°15'22" W 603.02'

13" White Oak with 3 Hacks

LINE TABLE			LINE TABLE		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	N 07°19'38" W	43.05'	L31	N 18°17'47" E	42.30'
L2	N 53°06'24" E	29.51'	L32	N 21°27'16" E	61.95'
L3	N 79°24'34" E	86.31'	L33	N 15°33'33" E	47.37'
L4	N 27°45'08" E	65.75'	L34	N 19°02'09" E	74.56'
L5	N 04°38'00" W	58.61'	L35	N 21°27'07" E	72.45'
L6	N 06°57'40" E	75.16'	L36	N 31°22'03" E	70.34'
L7	N 05°03'47" W	92.30'	L37	N 27°53'12" E	39.07'
L8	N 05°46'05" W	84.64'	L38	N 21°15'24" E	45.76'
L9	N 02°27'12" E	154.77'	L39	N 24°54'55" E	69.89'
L10	N 13°13'28" E	124.45'	L40	N 40°43'11" E	80.24'
L11	N 34°06'52" W	42.77'	L41	N 17°44'51" E	43.50'
L12	N 55°17'35" W	39.90'	L42	N 21°39'53" W	86.57'
L13	N 44°32'03" W	36.50'	L43	N 32°18'36" W	65.46'
L14	N 50°56'15" W	51.67'	L44	N 20°03'14" W	31.90'
L15	N 55°23'03" W	47.38'	L45	N 21°15'47" W	106.20'
L16	N 38°38'51" W	52.93'	L46	N 30°05'16" W	52.50'
L17	N 41°39'27" W	50.51'	L47	N 45°26'49" W	56.16'
L18	N 46°59'33" W	63.58'	L48	N 52°49'42" W	55.71'
L19	N 33°07'28" W	68.28'	L49	N 24°54'22" W	63.10'
L20	N 26°25'18" W	62.50'	L50	N 51°15'39" W	41.07'
L21	N 30°24'14" W	41.86'	L51	N 34°48'38" W	35.80'
L22	N 36°43'35" W	67.03'	L52	N 37°01'50" W	41.73'
L23	N 25°39'19" W	66.71'	L53	N 38°17'45" W	40.99'
L24	N 34°43'29" W	40.76'	L54	N 41°25'11" W	47.79'
L25	N 24°14'16" W	28.31'	L55	N 51°24'50" W	56.07'
L26	N 10°13'58" W	59.43'	L56	N 66°50'11" W	93.34'
L27	N 14°09'02" E	36.70'	L57	N 43°52'35" W	54.02'
L28	N 10°27'40" E	56.99'	L58	N 36°22'27" W	9.37'
L29	N 13°23'47" E	51.34'	L59	N 22°43'46" W	66.24'
L30	N 16°16'45" E	37.03'	L60	N 08°11'28" W	45.80'
L61	N 23°15'24" W	77.81'			
L62	N 64°37'26" W	85.95'			
L63	N 72°58'44" W	84.49'			
L64	S 43°51'57" W	20.13'			



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