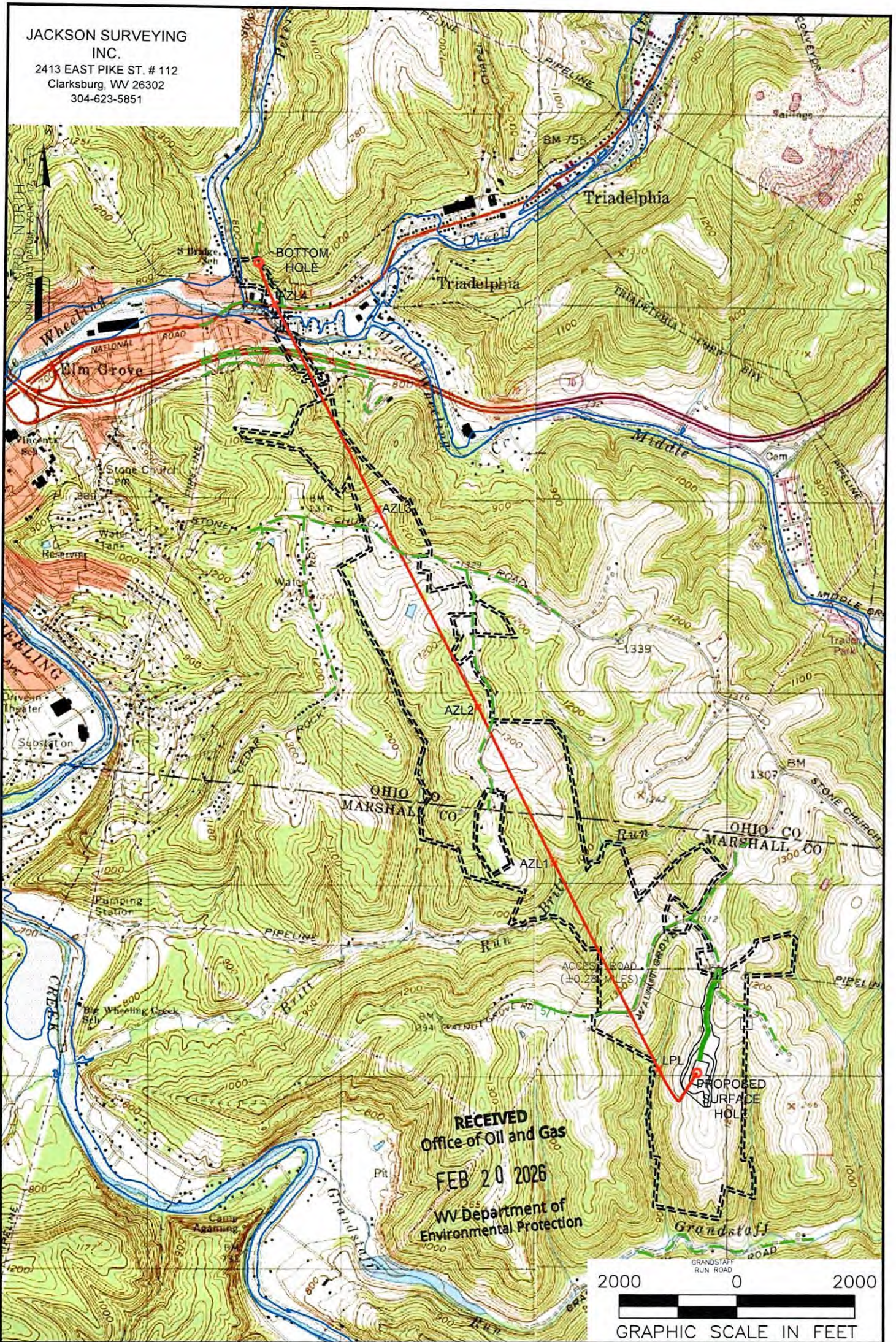


JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851



RECEIVED  
 Office of Oil and Gas  
 FEB 20 2026  
 WV Department of  
 Environmental Protection



**NOTES ON SURVEY**

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- ★ LPL LANDING POINT LOCATION
- ▭ FLOOD PLAIN
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- = LEASE BOUNDARY
- PROPOSED PATH

04/03/2026

WELL OPERATOR: EXPAND OPERATING LLC	WELL (FARM) NAME: MICHAEL SOUTHWORTH MSH	WELL # 1H	SERIAL #
ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE MARSHALL - 051	DISTRICT; SANDHILL	
SURFACE OWNER: BARRY A. & KIMBERLY S. LITMAN	USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV	API #: 47-051-	

Latitude: 40°02'30"

SURFACE HOLE 8,853'

Latitude: 40°05'00"

BOTTOM HOLE 4,661'

JACKSON SURVEYING INC.

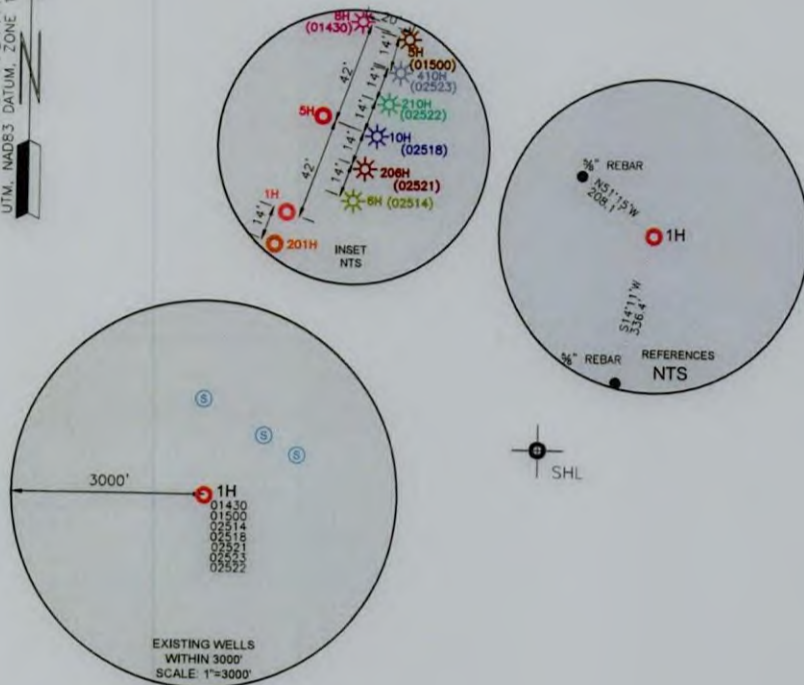
2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,230.224 EASTING: 532,861.682
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,249.414 EASTING: 532,662.748
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,424.101 EASTING: 530,565.418

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°15'18" E	1743.56'	SHL TO LANDMARK	5/8" REBAR FOUND
L2	N 44°59'56" E	1189.34'	SHL TO LANDMARK	NAIL @ FENCE INT.

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 84°29'24" W	655.70'	1223.16'	SHL TO LPL
L4	N 21°59'15" W	757.34'	758.39'	AZL4 TO BHL

GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT



WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 825 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

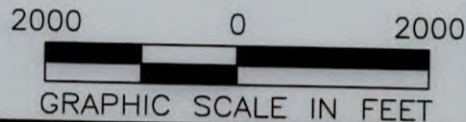
NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson



COMPANY: **expand**

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

MICHAEL SOUTHWORTH MSH

OPERATOR'S WELL #: 1H

API WELL #: 47 051 02568  
STATE COUNTY PERMIT

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

WATERSHED: GRANDSTAFF RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1271.2'

DISTRICT: SANDHILL COUNTY: MARSHALL QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: ±159.776

OIL & GAS ROYALTY OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: ±159.776

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,389 TVD 22,136 TMD

WELL OPERATOR: EXPAND OPERATING LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>		<b>REVISIONS:</b>	<b>DATE:</b> 01-14-2026
			<b>DRAWN BY:</b> N. MANO
			<b>SCALE:</b> 1" = 2000'
			<b>DRAWING NO:</b>
			<b>WELL LOCATION PLAT</b>

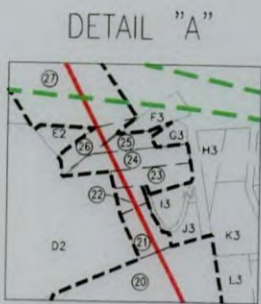
Longitude: 80°37'30"

Longitude: 80°35'00"

BOTTOM HOLE 11,960'

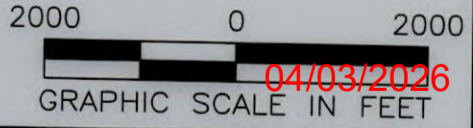
SURFACE HOLE 10,577'

JACKSON SURVEYING  
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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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708 *David L Jackson*



REVISIONS:		COMPANY:	
		<b>expand</b>	
OPERATOR'S MICHAEL SOUTHWORTH MSH		API #:	DATE: 01-14-2026
WELL #: 1H		47-051-02568	DRAWN BY: N. MANO
DISTRICT: SANDHILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2

**JACKSON SURVEYING  
INC.**


2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LITMAN BARRY A & KIMBERLY S (S/R)	12-2-10
2	SURFACE OWNER (S)	TAX PARCEL
3	EDGE WILLIAM F JR - TOD ET AL (S)	12-2-16
4	DE LA CRUZ CAITLIN EDGE (S)	12-2-16.5
5	EDGE DAVID W & THERESA I (S)	12-2-16.3
6	LEMLEY THOMAS A FT UX (S)	12-2-16.1
7	LITMAN JAMES M & LUCY A (S)	12-1-14.1
8	LENZ PATRICK J (S)	12-1-46
9	CARLSON JAMES L (S)	6-T17-13
10	WALLACE BARBARA J & WILFORD W (S)	6-T17-13.16
11	WALLACE BARBARA J & WILFORD W (S)	6-T17-13.3
12	LARUE JASON T & JUSTIN S. LARUE ; WALTER S III & BJ LARUE (S)	6-T17-10
13	STIDD BEAU A (S)	6-T17-12.1
14	STIDD BEAU A (S)	6-T17-12.2
15	RADCLIFFE LEANN (S)	6-T17-12
16	BRYANT GARY VERNON & LINDA PAIGE BRYANT LIVING TRST (S)	6-T12-48
17	BLAKE BRUCE & GRACE (S)	6-T12-14
18	BLAKE MITCHELL (S)	6-T12-14.2
19	BLAKE RYAN (S)	6-T12-14.3
20	R&J SMITH FARM LLC (S)	6-T12-9.4
21	SANTILLI CAROLYN F (S)	6-T12G-29.1
22	GARY LOUISE J ESTATE (S)	6-T12G-28.1
23	SCARBERRY TERESA M & SAMUEL W (S)	6-T12G-27
24	SCARBERRY SAMUEL W & TERESA M (S)	6-T12G-26
25	MODANY RACHAELA & GRANT M JOBES (S)	6-T12G-24.1
26	NO INFO (S)	6-T12G-23
27	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS (S)	I-70
28	PETERS RUN LAND COMPANY LLC (S)	7-TW2-94
29	VANCE SARA (S)	7-TW2-31
30	DANEHART JO ANN T EPPLEY (S)	7-TW2-31.1
31	JCB HOLDINGS LLC (S)	7-TW2-96
32	DANEHART JO ANN (S)	7-TW2-23.3
33	GARRISON SUMMIT, INC (S)	7-TW2-26
34	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS (S)	NATIONAL ROAD
35	FIGARETTI KATHERINE M (S)	7-TW2-3
36	BDDF PROPERTIES LLC (S)	6-T12-2
37	AVALON HOLDINGS LLC (S)	6-T12-3
38	PAJASA LIMITED LIABILITY CO (S)	6-T12-2.1

\*Highlighted Parcels may be impacted during drilling.

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	REINEKE RICHARD S	12-2-9
B	TDL&G LLC	12-2-8
C	GFP CORP	12-2-12
D	WV BRIGHTMONT LLC	12-2-14
E	EDGE WILLIAM F JR - TOD ET AL	12-2-15
F	GIZA ALEXANDER C & CHRISTOPHER	12-1-16.2
G	GIZA ALEXANDER C & CHRISTOPHER	12-1-16.1
H	WV BRIGHTMONT LLC	12-1-16
I	WV BRIGHTMONT LLC	12-1-15
J	MCNINCH KENNETH L JR & CAROL HOLMES	12-1-14
K	COFFIELD MICHAEL L & TYLENE R	12-1-13
L	LENZ PATRICK J & NIKKI J	12-1-45
M	HICKS GARRETT	6-T17-13.6
N	BOLE BRIAN & MICHELLE	6-T17-13.5
O	HARTMAN WALTER L ET UX - TOD	12-1-10.1
P	BEALL GREGORY W & JILL ANN	6-T17-9.3
Q	BEALL GREGORY W & J A	6-T17-9.1
R	BEALL GREGORY W & J A	6-T17-9
S	MARLUNG JOHN R	6-T17-14
T	VANFOSSEN KURT & SUMMER	6-T12Q-41
U	MILLIKEN MATTHEW DALE	6-T12Q-40.1
V	DIERKES BRAD J	6-T12Q-40
W	DIERKES BRAD J	6-T12Q-46.1
X	DIERKES BRAD J AND REBECCA A	6-T12Q-46
Y	BLATT CAROLYN LEE ET AL	6-T12-13
Z	SAUNDERS JOHN J & GLORIA A	6-T12-13.2
A2	FORGET JENNIFER A SCHNEIDER & DANIEL B FORGET	6-T12-11
B2	R&J SMITH FAMILY FARM LLC	6-T12-10
C2	SAVAGE CHARLES J	6-T12-9.3
D2	WILSON CARL T & AMY S	6-T12G-29.2
E2	BRADCOVICH RONALD	6-T12G-21
F2	PETERS RUN LAND COMPANY LLC	06-T12-8
G2	PETERS RUN LAND COMPANY LLC	10-W83-50
H2	DANEHART JO ANN T	7-TW2-31.2
I2	DANEHART JO ANN T	7-TW2-31.3
J2	DANEHART JO ANN T	7-TW2-31.4
K2	TANKOVITS ANITA	7-TW2-24
L2	AVALON HOLDINGS LLS	7-TW2-1
M2	AVALON HOLDINGS LLC	7-TW2-99
N2	WEAVER CARFAGNA INC	6-T12-2
O2	IBEW 141 PROPERTY ASSOCIATION	10-W83-1
P2	IBEW 141 PROPERTY ASSOCIATION	10-W77-18
Q2	WHEELING ELECTRICAL JOINT APPRENTICESHIP & TRAINING CMTE	10-W77-17
R2	TRIPLE S REAL ESTATE LLC	6-T12B-18
S2	MACEWAN NORMAN J JR & JEAN C	6-T12B-17
T2	NOLL RICHARD D & KAREN M-TOD	6-T12B-16
U2	NOLL RICHARD D & KAREN M-TOD	6-T12B-15
V2	SCHULTZ JOHN R & LESLEE K	6-T12B-14
W2	NOEL JANET	6-T12-6
X2	BDDF PROPERTIES LLC	7-TW2-4
Y2	SCOUT REALTY LLC	7-TW2-28
Z2	JCB HOLDINGS LLC	7-TW2-29
A3	JCB HOLDINGS LLC	7-TW2-30
B3	DOCK REALTY LLC	7-TW2-33
C3	SOUTH EUGENE R & J F	7-TW2-32
D3	HEATH AMY L	7-TW2-39
E3	KEEPSAKE PARTNERS	6-T12G-24
F3	MODANY RACHAEL A & GRANT M JOBES	6-T12G-25
G3	DILLIE ROGER D & VALORIE M	6-T12G-69
H3	WEESE H & L GOLEIN J & L M & J KALEEN TRUSTEES	6-T12G-28
I3	MONOCEROS PROPERTIES LLC	6-T12G-29
J3	GARY LOUISE J	6-T12G-70
K3	LANTZ KORENE SUE	6-T12G-76
L3	TWEEDLIE JOSEPH M	6-T12-31
M3	WEST VIRGINIA DEPART OF HWYS	6-T12-32
N3	KULL SCOTT D & CATHERINE J	6-T12-48.3
O3	WOOD ROBT L & CANDACE J (OCC) ILOVAR MICHELLE E & GAUDIO KELLY J	6-T12-48.4
P3	SERIG SUELLYN M	6-T12-14.4
Q3	BLAKE GRACE	6-T12-48.2
R3	VARGO CHAS P & C J	6-T12-48.1
S3	HENDERSON KAYLA R	6-T12-46.1
T3	PELLARIN RICHARD L	6-T12-46
U3	PELLARIN CODY M & MARIAH L	6-T12-51
V3	MCNINCH MELUNDA D	6-T12-50
W3	BARRY SUZANNE - TOD	6-T12-50.1
X3	BARRY SUZANNE - TOD	6-T17-10.1
Y3	LARUE JUSTIN S & NICOLE Y	6-T12-49
Z3	NOLAN SHERRY L & MICHAEL P	6-T12-48.5
A4	WHEELER KATHRYN A & WILLIAM B	6-T17-13.9
B4	SACCO SYLVIA A ET AL	6-T17-13.8
C4	SACCO STEVEN S & KELLY B	6-T17-13.7
D4	OPIC RICHARD A	6-T17-13.4
E4	OPIC RICHARD A	6-T17-13.12
F4	BARNETT GARY W	6-T17-13.2
G4	OPIC RICHARD A SR	6-T17-13.13
H4	BARNETT GARY W	6-T18-1.1
I4	GARRETT HAROLD R III & C A	6-T18-2
J4	L WHITE PROPERTIES LLC	12-2-19
K4	LIEBERS CHRISTOPHER J	12-2-17
L4	SEIDLER ROBERT T ET UX	12-2-1.1
M4	VELLENOWETH SCOTT U ET UX	12-2-1
N4	LITMAN JAMES L ET UX - TOD	12-2-10.2
O4	LITMAN BARRY A	12-2-10.1
P4	RADCLIFFE JOHN D & ANNA M	12-2-23
Q4	BLATT THERESA L	12-2-2
R4	BRAID FAMILY TRUST	
S4	GREGORY DONNA R - TOD	

04/03/2026

REVISIONS:	COMPANY:		
	OPERATOR'S MICHAEL SOUTHWORTH MSH	API #:	DATE: 01-14-2026
	WELL #:	47-051-02568	DRAWN BY: N. MANO
	DISTRICT: SANDHILL	COUNTY: MARSHALL	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 3