

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

TRIAD DELPHIA

SAND HILL

GRAPHIC SCALE IN FEET

3000 0 3000

05/29/2026

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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

 PROPOSED SURFACE HOLE / BOTTOM HOLE
 EXISTING / PRODUCING WELLHEAD
LPL  LANDING POINT LOCATION
 FLOOD PLAIN

WELL (FARM) NAME: MICHAEL SOUTHWORTH MSH		WELL # 1210H	SERIAL #
COUNTY - CODE MARSHALL - 051	DISTRICT; SANDHILL		
USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV	API #: 47-051-02575		

3000 0 3000
GRAPHIC SCALE IN FEET

-SURFACE HOLE 8,843'

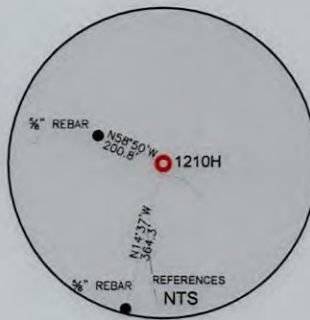
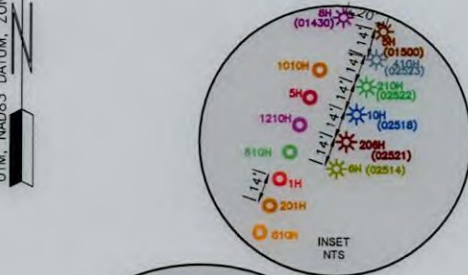
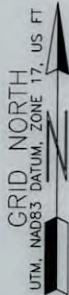
-BOTTOM HOLE 4,578'

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SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,429,238.249
EASTING: 532,864.578
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,428,959.512
EASTING: 534,773.279
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,425,337.871
EASTING: 537,740.818

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°06'55" E	1715.89'	SHL TO LANDMARK	5/8" REBAR FOUND
L2	N 45°35'04" E	1164.07'	SHL TO LANDMARK	NAIL @ FENCE INT.
L3	N 38°08'26" E	997.70'	LPL TO AZL1	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 81°41'30" E	6328.55'	6724.83'	SHL TO LPL



1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 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 NATUALLY 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.

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2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. 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



2000 0 2000

GRAPHIC SCALE IN FEET

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

MICHAEL SOUTHWORTH MSH

OPERATOR'S WELL #: 1210H

API WELL #: 47 051 02575
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: 6589 TMD 25357 TMD

WELL OPERATOR: EXPAND OPERATING LLC

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:

-  PROPOSED SURFACE HOLE / BOTTOM HOLE
-  EXISTING / PRODUCING WELLHEAD
- LPL**  LANDING POINT LOCATION
-  EXISTING WATER WELL
-  EXISTING SPRING

 SURVEYED BOUNDARY
 DRILLING UNIT
 LEASE BOUNDARY
 PROPOSED PATH

REVISIONS:

DATE: 01-29-2026

	DRAWN BY: N. MANO
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SCALE: 1" = 2000'

DRAWING NO:	
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WELL LOCATION PLAT

JACKSON SURVEYING
INC.
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2000 0 2000



GRAPHIC SCALE IN FEET 05/29/2026

REVISIONS:

COMPANY:

expand

OPERATOR'S MICHAEL SOUTHWORTH MSH

WELL #: 1210H

DISTRICT:
SANDHILL

COUNTY:
MARSHALL

API #:
47-051-02575

STATE:
WV

DATE: 01-29-2026

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 2

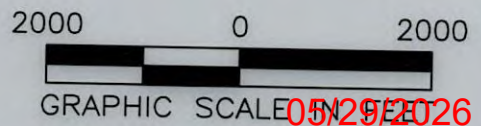
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P.S. 708

David L Jackson



REVISIONS:		COMPANY:	
		expand	
OPERATOR'S MICHAEL SOUTHWORTH MSH		API #:	DATE: 01-29-2026
WELL #: 1210H		47-051-02575	
DISTRICT: SANDHILL	COUNTY: MARSHALL	STATE: WV	DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

JACKSON SURVEYING
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WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LITMAN BARRY A & KIMBERLY S (S/R)	12-2-10
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	REINEKE RICHARD S (S)	12-2-9
3	REINEKE RICHARD S (S)	12-2-9.2
4	TUBAUGH NORMA HUNTER ET AL (S)	12-2-5
5	GANTZER GREGORY (S)	12-3-12
6	GANTZER GREGORY (S)	12-3-11.1
7	MCVICKER R G JR (S)	12-3-11
8	TOTH JOHN J SR & ALICE J REVOCABLE TRUST (S)	12-8-11
9	TOTH JOHN J SR & ALICE J REVOCABLE TRUST (S)	12-8-12
10	KILCORE JAMES E ET UX - LIFE (S)	12-8-13
11	GARRISON DAN R & SANDRA ET AL (S)	12-8-15.6
12	GARRISON SANDRA L (S)	12-8-15.2
13	MERINAR HOWARD ET AL (S)	12-8-16
14	MERINAR HOWARD ET AL (S)	12-7-15
13	FRIDHOF ROBERT J & ROBIN L (S)	12-7-16
16	HOWARD COREY E (S)	12-7-16.1
17	MERINAR MICHAEL L & VICKI L (S)	12-12-1.2
18	MERINAR JAMIE K (S)	12-12-1.1
19	MERINAR JIMMY H R & ANGELA D (S)	12-12-1.3
20	MERINAR HOWARD L & MARY LOU FABER (S)	12-12-2
21	KESSEL JAMES WEAVER ET AL (S)	12-12-3
22	TOLA VD BERTHA B & CLARK (S)	12-12-9
23	RIGGLE WILLIAM WAYNE (S)	12-12-8

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	LITMAN JAMES M & LUCY A	12-2-16.1
B	RADCLIFFE JOIN D & ANNA M	12-2-10.1
C	LITMAN BARRY A	12-2-10.2
D	VELLENOWETH SCOTT U ET UX	12-2-1.1
E	BLATT THERESA L	12-2-23
F	BAIRD FAMILY TRUST	12-2-2
G	GREGORY DONNA R TOD	12 2 9.1
H	MCFARLAND DANIEL W & VICKI L	12-2-24
I	MCFARLAND DANIEL W JR	12-2-4.1
J	HUNTER RODNEY J	12-3-14
K	HUNTER MARILYN DARLENE	12-3-14.2
L	MCFARLAND BRIAN MATTIEW	12-3-12.1
M	MCNINCH NEILL L ET AL; C/O MCNINCH MICHAEL	6-T18-10
N	ESTEP JERRY R ET AL	12-3-2
O	THOMAS J W ET UX	12-3-9
P	TOTH JOHN J SR & ALICE - TRUST	12-7-1
Q	LYNSKEY JOHN T	12-3-10
R	TOTH JOHN J SR & ALICE - TRUST	12-7-2
S	HUNTER GARY P	12-7-21
T	TOTH JOHN J ET UX - TRUST	12-7-20
U	HILLBERRY GARRY L ET UX	12-7-18
V	GARRISON SANDRA L	12-8-15.4
W	HUGHES BRIAN D & TAMMY L	12-7-17
X	HARRIS JASON R	12-7-13
Y	NASII JOAN C	12-7-13.1
Z	HARRIS DAVID S	12-7-13.2
A2	MERINAR HOWARD L & MARY LOU HABER	12 7 14
B2	HARRIS JASON R	12-7-11.1
C2	LYSESKI RYAN C & JACQUELYN L	12 7 10.2
D2	LYSESKI RYAN C & JACQUELYN	12-7-10.3
E2	APPALACHIA MIDSTREAM SERV LLC	12-7-10
F2	HUNTER DALL	12-7-10.1
G2	HUNTER THOMAS J ET UX	12-12-4.2
H2	RIGGLE RICHARD G	12-12-8.2
I2	WEISGERBER WILLIAM H & DONNA R	12-12-7.3
J2	CNX GAS COMPANY LLC	12-12-7.4
K2	HOCKENBERRY JAMES M	12-12-8.1
L2	PARSONS CAROL L	12-12-10.2
M2	PARSONS DEBRA F	12-12-10
N2	SMITHEY HARRY L & BONITA S	12-12-10.1
O2	EARNEST CARL D & MOLLIE J	12 12 13.1
P2	MERINAR BELINDA JOY	12-12-13
Q2	HOFFMAN DALE E ET UX	12 12 14
R2	HAZLETT JAMES BENTON	12-11-14.1
S2	HAZLETT JAMES BENTON	12-11-14
T2	MERINAR BRIAN M	12-12-1
U2	STORCH LOIS M - TOD	12-11-12.2
V2	MCCARDLE CLIFFORD B	12 8 20
W2	MCCARDLE CLIFFORD B	12-8-19
X2	MCCARDLE CLIFFORD B	12-8-18
Y2	STORCH LOIS M	12-8-25
Z2	STORCH LOIS M	12-8-17
A3	HELLSTERN JOHN J JR ET UX	12-8-15.1
B3	KIGER BRANDY LYNN	12-8-16.2
C3	OHIO COUNTY COAL RESOURCES INC	12-8-15
D3	MERINAR MICHAEL S & JAMIE K	12 8 16.1
E3	GARRISON DAN R ET AL	12 8 15.5
F3	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT	12-8-15.7
G3	HUNTER BOCK SALLY A	12 8 14.3
H3	WINTERS DAVID L - LIFE	12-8-14
I3	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-9.1
J3	GODDARD THIRCSA M	12-8-9
K3	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-1
L3	PARKER PETER	12-2-6
M3	TDL&G LLC	12-2-8
N3	G F P CORP	12-2-12
O3	WV BRIGHTMONT LLC	12-2-14
P3	EDGE WILLIAM FJR - TOD ET AL	12-2-15
Q3	EDGE WILLIAM FJR TOD ET AL	12 2 16

*Highlighted Parcels may be impacted during drilling.

05/29/2026

REVISIONS:	COMPANY:		
	OPERATOR'S MICHAEL SOUTHWORTH MSH	API #:	DATE: 01-29-2026
	WELL #: 1210H	47-051-02515	
	DISTRICT: SANDHILL	COUNTY: MARSHALL	DRAWN BY: N. MANO
		STATE: WV	SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 4