

BHL is located on topo map 15,065 feet south of Latitude: 39° 57' 30"  
 SHL is located on topo map 3,806 feet south of Latitude: 39° 55' 00"

SEE PAGE 2-4 FOR SURFACE OWNERS AND LESSORS

LINE	BEARING	DISTANCE
R1	S 01°54'44" E	167.21'
R2	S 26°12'11" W	167.58'
R3	S 83°29'08" W	155.32'
R4	S 22°43'43" E	1489.47'
R5	S 67°48'53" E	1401.36'
R6	N 79°36'39" E	2273.41'



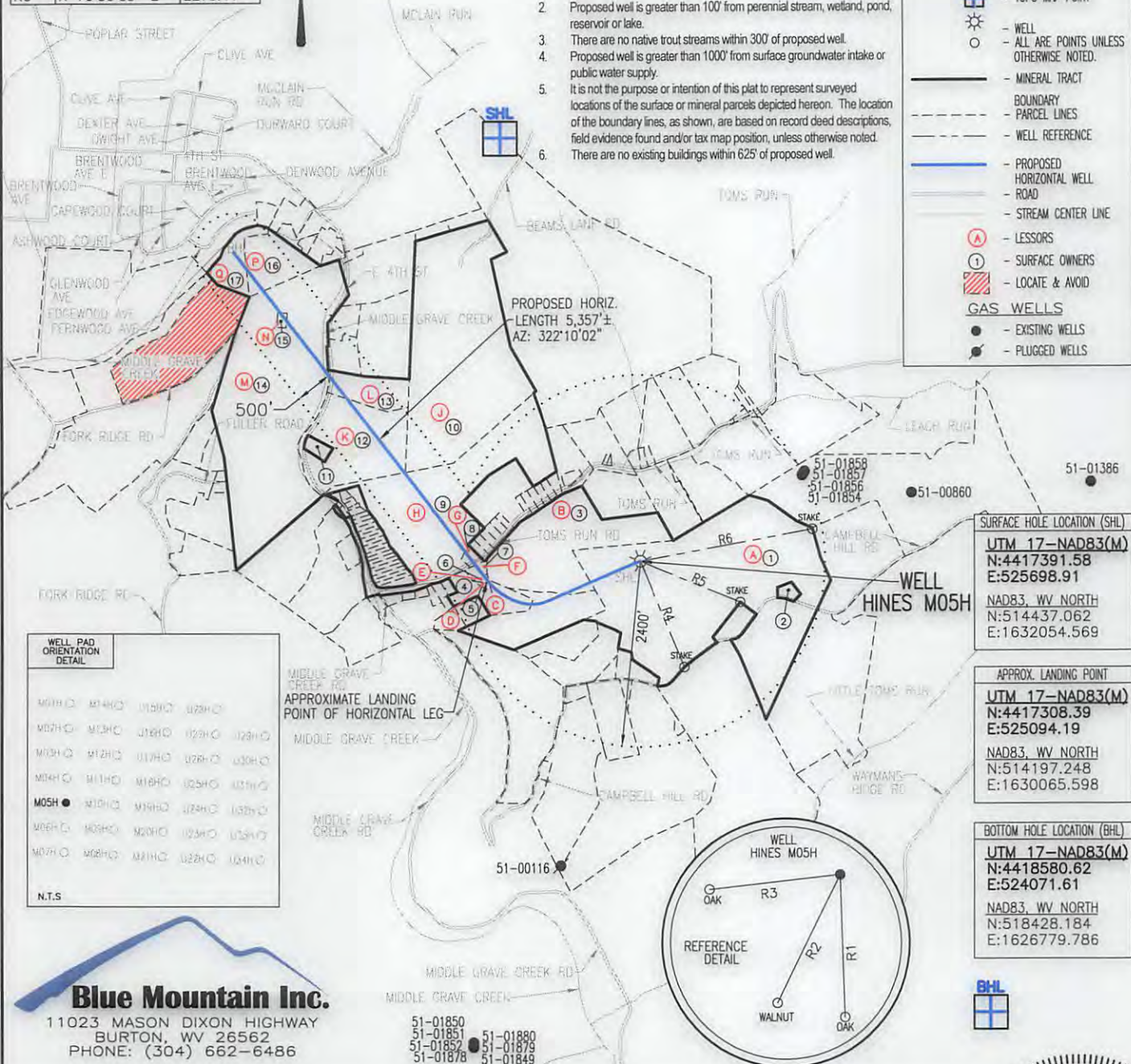
NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
- There are no existing buildings within 625' of proposed well.

LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- LOCATE & AVOID
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS

BHL is located on topo map 2,806 feet west of Longitude: 80° 42' 30"  
 SHL is located on topo map 9,167 feet west of Longitude: 80° 40' 00"



WELL PAD ORIENTATION DETAIL

M05H	M14H	M15H	M16H	M17H	M18H
M07H	M08H	M09H	M10H	M11H	M12H
M13H	M14H	M15H	M16H	M17H	M18H
M19H	M20H	M21H	M22H	M23H	M24H
M25H	M26H	M27H	M28H	M29H	M30H
M31H	M32H	M33H	M34H	M35H	M36H
M37H	M38H	M39H	M40H	M41H	M42H
M43H	M44H	M45H	M46H	M47H	M48H
M49H	M50H	M51H	M52H	M53H	M54H
M55H	M56H	M57H	M58H	M59H	M60H

N.T.S.

SURFACE HOLE LOCATION (SHL)  
 UTM 17-NAD83(M)  
 N:4417391.58  
 E:525698.91  
 NAD83, WV NORTH  
 N:514437.062  
 E:1632054.569

APPROX. LANDING POINT  
 UTM 17-NAD83(M)  
 N:4417308.39  
 E:525094.19  
 NAD83, WV NORTH  
 N:514197.248  
 E:1630065.598

BOTTOM HOLE LOCATION (BHL)  
 UTM 17-NAD83(M)  
 N:4418580.62  
 E:524071.61  
 NAD83, WV NORTH  
 N:518428.184  
 E:1626779.786

**Blue Mountain Inc.**  
 11023 MASON DIXON HIGHWAY  
 BURTON, WV 26562  
 PHONE: (304) 662-6486

FILE #: HINES M05H  
 DRAWING #: HINES M05H  
 SCALE: 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY: 1/2500  
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed:

R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000



PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: MARCH 7, 2017  
 OPERATOR'S WELL #: HINES M05H  
 API WELL #: 47 51 01927 HGA  
 STATE COUNTY PERMIT

Well Type:  Oil  Waste Disposal  Production  Deep  Gas  Liquid Injection  Storage  Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1125.45'

COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'

SURFACE OWNER: DONALD HINES ET UX ACREAGE: 114.934±

OIL & GAS ROYALTY OWNER: DONALD HINES ET UX ACREAGE: 470.285±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION   
 PERFORATE NEW FORMATION  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE

(SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,400'± TMD: 12,911'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY

Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600  
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

08/18/2017



# HINES

## M05H

### PAGE 2 OF 4

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX.	14-12/30
2	TERRY L. DERROW ET UX.	14-12/30.3
3	ARNIE N. GOODNIGHT ET UX.	14-12/25
4	OSCAR JACKSON GOODNIGHT	14-12/67
5	*MARVIN & BRENDA GOODNIGHT	14-12/67.8
6	MARVIN GOODNIGHT ET UX.	14-12/67.7
7	MARVIN GOODNIGHT ET UX.	14-12/67.3
8	HARRY THOMAS ET UX.	14-12A/1
9	CHARLES R. HALL EST	14-12/24
10	ALAN N. CROW ET AL.	14-9/48
11	BENJAMIN E. & TRACY L. WILLIS	14-9/49.5
12	JOHN W. RUCKMAN ET UX.	14-9/49.1
13	GEORGE R. MASON ET UX.	14-9/49.2
14	MARSHALL CO. ACTIVITIES DEVELOPMENT	4-3/46
15	MARSHALL CO. DAY CARE & CHILD	4-3/46.2
16	MARSHALL CO. ACTIVITIES DEVELOPMENT	4-3/46.1
17	W VA FARM MANAGEMENT COMM.	4-3/28.1

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

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N:4417391.58
E:525698.91
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NAD83, WV NORTH
N:518428.184
E:1626779.786

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# HINES

## M05H

### PAGE 3 OF 4

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	WILLIAM F. RULONG	14-12/25
	CHARLES BURTON RULONG	
	ROGER GLEN RULONG	
	TRUSTEES LIMESTONE PRESBYTERIAN CHURCH	
	CLYDE DOWLER ET UX	
	GARY MORRISON	
	ELIZABETH Y. MORRISON	
	LAURA J. REYES	
	ROBERT L. RULONG	
	DALE FRANCIS FURBEE	
	HAROLD DEAN FURBEE	
	JOHN T. MORRIS	
	DRU ELLA FOX	
	LYNN ELLEN COOK	
ETHEL M. RULONG		
TERRY LEE RULONG		
RICHARD J. RULONG		
TRACEY LYNN RULONG		
C	OSCAR JACKSON GOODNIGHT ET UX	14-12/67
D	*MARVIN E. GOODNIGHT ET UX	14-12/67.8
E	MARVIN GOODNIGHT ET UX	14-12/67.7
F	MARVIN GOODNIGHT ET UX	14-12/67.3
G	HARRY THOMAS ET UX	14-12A/1
	CECIL R. LIGHTNER	
	MELANIE J. YOUNG	
	APRIL DAWN WELLS	
	HARVEY LEE WELLS JR.	
	LONNIE V. BLAKE	
	IVAN L. WELLMAN ET UX	
	ROBERT K. BLAKE ET UX	
	TIMOTHY L. CURRY ET UX	
	ELMER Z. WELLMAN ET UX	
	CHARLES L. BLAKE ET UX	
	TAMRA C. MORGAN	
	GARREN D. WELLMAN	
	MARTHA E. DICKERHOOF	
	SHIRLEY PONDER	
	EARLE VINCENT BLAKE - SPL COM DAVID C. WHITE	
	RACHEL EARNEST	
	STEVEN D. WELLS	
	DENISE A. WELLS	
	NANCY GREATHOUSE	
	GREGORY A. PFAUS	
	ANDREW PFAUS	
	CATHERINE A. GUSTIN	
	MATHEW PFAUS	
	MELISSA S. PRICE	
	CHANTEE M. DANCIC	
	ROBERT JOHN MCCLELLAN	
	MELISSA A. WAGGONER	
	KIMBERLY R. FRANKENFIELD	
	DARLA THURMAN	
	DARCY MICHAELS	
	DEBORAH ELDER	
	MARY WIDDER	
	RANDALL W. DENNIS	
	KAY WATSON	
	DONALD MCCLELLAND	
	GEORGE MCCLELLAN JR.	
	DONNA DAVIS	
	DIANA LOUISE MCKINNEY	
	DIANE MINCKS	
WAYNE KENNETH MCCLELLAN		
BEULAH J. CURRY		
DONALD E. GEARHART		
DENISE K. PETREE		
AARON CURRY		
KIMBERLY PAULA VARNER		
GEOFFREY A. ROWLANDS		
RALPH E. WELLMAN ET AL		
CANDICE J. CASTLE		
JASON M. SANDOR		
JAMES M. SANDOR JR.		
JENNIFER JORDAN		
ANDREW W. FLOYD		
LINDA HAYS		
KEVIN L. ROWLANDS		
THOMAS MAZZAFERRO		
RONALD MAZZAFERRO		
SANDRA TRESSLER		
JOHN T. WELLING		
MELANY L. WASKO		
ROBERT L. WELLING		
LORREN ROGERS		

	LESSOR	DIST-TM/PAR		
	MARK D. WELLING			
	THERESA B. WORKMAN			
	JAMES R. BLAKE			
	RANDY SEIBERT			
	TERRY SEIBERT			
	SHEREE SINCLAIR			
	STEVE RICE			
	BETH GODFREY			
	JAMES E. RICE			
	STEVEN DALE PIERSON			
	H		CECIL R. LIGHTNER	14-12/24
	DALE HALL			
	DENISE SCAMEHORN			
	DAVID HALL			
DONNA HOLLIDAY				
MELANIE J. YOUNG				
APRIL DAWN WELLS				
HARVEY LEE WELLS JR.				
LONNIE V. BLAKE				
IVAN L. WELLMAN ET UX				
ROBERT K. BLAKE ET UX				
TIMOTHY L. CURRY ET UX				
ELMER Z. WELLMAN ET UX				
CHARLES L. BLAKE ET UX				
TAMRA C. MORGAN				
GARREN D. WELLMAN				
MARTHA E. DICKERHOOF				
SHIRLEY PONDER				
EARLE VINCENT BLAKE - SPL COM DAVID C. WHITE				
RACHEL EARNEST				
STEVEN D. WELLS				
DENISE A. WELLS				
NANCY GREATHOUSE				
GREGORY A. PFAUS				
ANDREW PFAUS				
CATHERINE A. GUSTIN				
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MELISSA S. PRICE				
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ROBERT JOHN MCCLELLAN				
MELISSA A. WAGGONER				
KIMBERLY R. FRANKENFIELD				
DARLA THURMAN				
DARCY MICHAELS				
DEBORAH ELDER				
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STEVE RICE				
BETH GODFREY				
JAMES E. RICE				
STEVEN DALE PIERSON				

08/18/2017

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE



# HINES

## M05H

### PAGE 4 OF 4

	LESSOR	DIST-TM/PAR
J	ALAN NEIL CROW	14-9/48
	RUTH ANN CROW	
	MARY KATHRYN NEEHOUSE	
K	JOHN W. RUCKMAN ET UX	14-9/49.1
L	GEORGE R. MASON ET UX	14-9/49.2
M	RAYMOND W. WOODS	4-3/46
	BONNIE D. ANDERSON	
	RICHARD W. WOODS	
	WILLIAM L. MAXWELL	
	BARBARA A. MCINALLY	
	WILLIAM J. MINES	
	BEVERLY K. TIEMAN	
	STEPHEN LESLIE MAXWELL	
	CAROLYN K. GABROVSEK	
	ROBERT KOESTERS	
	ROBERT L. MINES JR.	
	RETTA JANE WAYNE	
	GARY KOESTERS	
	ANNALEE BERNARD	
	MICHAEL JOSEPH KOESTERS	
	CYNTHIA KURTZ	
	CHARLES RICHARD KOESTERS	
	FREDRICK M. YEATER	
	LOIS W. DOWLER AIF DAVID B. DOWLER	
	ERIC W. BROWN	
	DAVID J. MAXWELL	
	HOLLIS ZULICK	
	LESLIE M. ZIRINGER	
	MELISSA ELAIN SCHROTH	
	HENRY M. HUPP	
	HARRY L. MAXWELL AIF BRIAN L. MAXWELL	
	CLARENCE R. BROWN	
	MARY A. MORGAN	
	NILA ELAINE ROGERSON AIF GARY ROGERSON	
	JAMES H. MAXWELL	
	MARK DAVID HUNT	
	CHRISTOPHER M. BROWN	
	BEVERLY JOYCE ARMSTRONG	
	JEFFREY LYNN CELLARS	
	KEVIN MERLE BROWN	
	CHARLES EDWARD CELLARS	
	JD CELLARS	
	THOMAS WILLIAM CELLARS	
	DONALD WAYNE CELLARS	
	TERRY ALAN CELLARS	
	DEBORAH MAXWELL YARBROUGH	
N	RAYMOND W. WOODS	4-3/46.2
	BONNIE D. ANDERSON	
	RICHARD W. WOODS	
	WILLIAM L. MAXWELL	
	BARBARA A. MCINALLY	
	WILLIAM J. MINES	
	BEVERLY K. TIEMAN	
	STEPHEN LESLIE MAXWELL	
	CAROLYN K. GABROVSEK	
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	ROBERT L. MINES JR.	
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	LOIS W. DOWLER AIF DAVID B. DOWLER	
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	HENRY M. HUPP	
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	CLARENCE R. BROWN	
	MARY A. MORGAN	
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	TERRY ALAN CELLARS	
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	LESSOR	DIST-TM/PAR
P	RAYMOND W. WOODS	4-3/46.1
	BONNIE D. ANDERSON	
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	WILLIAM L. MAXWELL	
	BARBARA A. MCINALLY	
	WILLIAM J. MINES	
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