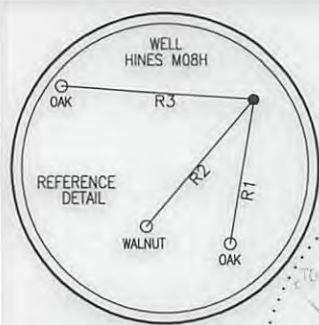


BHL is located on topo map 12,497 feet south of Latitude: 39° 55' 00"
 SHL is located on topo map 3,836 feet south of Latitude: 39° 55' 00"



SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4417382.24
 E:525707.85
 NAD83, WV NORTH
 N:514405.910
 E:1632083.371

APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4417208.06
 E:525888.62
 NAD83, WV NORTH
 N:513824.437
 E:1632667.030

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4414747.89
 E:526982.81
 NAD83, WV NORTH
 N:505691.345
 E:1636122.657

LINE	BEARING	DISTANCE
R1	S 09°37'05" W	138.82'
R2	S 40°33'04" W	158.08'
R3	N 86°03'16" W	183.52'
R4	N 79°25'12" W	927.79'
R5	S 37°49'01" W	760.98'
R6	S 07°21'34" W	1161.82'

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

WELL PAD ORIENTATION DETAIL

M0110	M1100	U1810	U2810
M0210	M1210	U1910	U2910
M0310	M1310	U2010	U3010
M0410	M1410	U2110	U3110
M0510	M1510	U2210	U3210
M0610	M1610	U2310	U3310
M0710	M1710	U2410	U3410
M0810	M1810	U2510	U3510
M0910	M1910	U2610	U3610
M1010	M2010	U2710	U3710
M1110	M2110	U2810	U3810
M1210	M2210	U2910	U3910
M1310	M2310	U3010	U4010
M1410	M2410	U3110	U4110
M1510	M2510	U3210	U4210
M1610	M2610	U3310	U4310
M1710	M2710	U3410	U4410
M1810	M2810	U3510	U4510
M1910	M2910	U3610	U4610
M2010	M3010	U3710	U4710
M2110	M3110	U3810	U4810
M2210	M3210	U3910	U4910
M2310	M3310	U4010	U5010
M2410	M3410	U4110	U5110
M2510	M3510	U4210	U5210
M2610	M3610	U4310	U5310
M2710	M3710	U4410	U5410
M2810	M3810	U4510	U5510
M2910	M3910	U4610	U5610
M3010	M4010	U4710	U5710
M3110	M4110	U4810	U5810
M3210	M4210	U4910	U5910
M3310	M4310	U5010	U6010
M3410	M4410	U5110	U6110
M3510	M4510	U5210	U6210
M3610	M4610	U5310	U6310
M3710	M4710	U5410	U6410
M3810	M4810	U5510	U6510
M3910	M4910	U5610	U6610
M4010	M5010	U5710	U6710
M4110	M5110	U5810	U6810
M4210	M5210	U5910	U6910
M4310	M5310	U6010	U7010
M4410	M5410	U6110	U7110
M4510	M5510	U6210	U7210
M4610	M5610	U6310	U7310
M4710	M5710	U6410	U7410
M4810	M5810	U6510	U7510
M4910	M5910	U6610	U7610
M5010	M6010	U6710	U7710
M5110	M6110	U6810	U7810
M5210	M6210	U6910	U7910
M5310	M6310	U7010	U8010
M5410	M6410	U7110	U8110
M5510	M6510	U7210	U8210
M5610	M6610	U7310	U8310
M5710	M6710	U7410	U8410
M5810	M6810	U7510	U8510
M5910	M6910	U7610	U8610
M6010	M7010	U7710	U8710
M6110	M7110	U7810	U8810
M6210	M7210	U7910	U8910
M6310	M7310	U8010	U9010
M6410	M7410	U8110	U9110
M6510	M7510	U8210	U9210
M6610	M7610	U8310	U9310
M6710	M7710	U8410	U9410
M6810	M7810	U8510	U9510
M6910	M7910	U8610	U9610
M7010	M8010	U8710	U9710
M7110	M8110	U8810	U9810
M7210	M8210	U8910	U9910
M7310	M8310	U9010	U0010
M7410	M8410	U9110	U0110
M7510	M8510	U9210	U0210
M7610	M8610	U9310	U0310
M7710	M8710	U9410	U0410
M7810	M8810	U9510	U0510
M7910	M8910	U9610	U0610
M8010	M9010	U9710	U0710
M8110	M9110	U9810	U0810
M8210	M9210	U9910	U0910
M8310	M9310	U0010	U1010
M8410	M9410	U0110	U1110
M8510	M9510	U0210	U1210
M8610	M9610	U0310	U1310
M8710	M9710	U0410	U1410
M8810	M9810	U0510	U1510
M8910	M9910	U0610	U1610
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M9110	M0110	U0810	U1810
M9210	M0210	U0910	U1910
M9310	M0310	U1010	U2010
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M8110	M9110	U9810	U0810
M8210	M9210	U9910	U0910
M8310	M9310	U0010	U1010
M8410	M9410	U0110	U1110
M8510	M9510	U0210	U1210
M8610	M9610	U0310	U1310
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M8810	M9810	U0510	U1510
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M9010	M0010	U0710	U1710
M9110	M0110	U0810	U1810
M9210	M0210	U0910	U1910
M9310	M0310	U1010	U2010
M9410	M0410	U1110	U2110
M9510	M0510	U1210	U2210
M9610	M0610	U1310	U2310
M9710	M0710	U1410	U2410
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M2010	M3010	U3710	U4710
M2110	M3110	U3810	U4810
M2210	M3210	U3910	U4910
M2310	M3310	U4010	U5010
M2410	M3410	U411	

HINES

M08H

PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	DONALD HINES ET UX	14-12/30
B	DOUGLAS EDWARD GOULDSBERRY ET UX	14-12/32
C	PATRICIA S. HOSKINS	14-13/4
D	TODD R. KETTLER ET UX	14-13/3
E	TIMOTHY GEHO	14-13/6
F	TODD R. KETTLER ET UX	14-13/2
G	RICHARD F. VARGO ET UX	14-13/21
H	RICHARD F. VARGO ET UX	14-13/21.1
J	ROBERT W. COFFIELD ET UX	14-13/18
K	RM COFFLIED FAMILY TRUST ET AL	14-13/18.1

	SURFACE OWNER	DIST-TM/PAR
1	DONALD HINES ET UX	14-12/30
2	TERRY L. DERROW ET UX	14-12/30.3
3	CHEVRON U.S.A. INC.	14-12/30.2
4	DOUGLAS EDWARD GOULDSBERRY ET UX	14-12/32
5	PATRICIA SUE HOSKINS	14-13/4
6	TODD R. & DAWN R. KETTLER	14-13/3
7	TODD R. & DAWN R. KETTLER	14-13/3.1
8	TODD R. & DAWN R. KETTLER	14-13/2.1
9	TIMOTHY G. GEHO ET UX	14-13/6
10	RICHARD E. & JADE L. VARGO	14-13/21.1
11	TODD & DAWN R. KETTLER	14-13/2
12	RICHARD E. & JADE L. VARGO	14-13/21
13	R. M. COFFIELD FAMILY TRUST	14-13/18
14	STATE ROAD COMMISSION	14-13/18.1

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M) N:4417382.24 E:525707.85
NAD83, WV NORTH N:514405.910 E:1632083.371

APPROX. LANDING POINT
UTM 17-NAD83(M) N:4417208.06 E:525888.62
NAD83, WV NORTH N:513824.437 E:1632667.030

BOTTOM HOLE LOCATION (BHL)
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NAD83, WV NORTH N:505691.345 E:1636122.657

08/18/2017