

2,015' to Bottom Hole

8,350' to Top Hole

BOTTOM HOLE LATITUDE 39° 22' 30"
TOP HOLE LATITUDE 39° 20' 00"

TOP HOLE LONGITUDE 79° 50' 00"
BOTTOM HOLE LONGITUDE 79° 52' 30"

10,836' to Top Hole

15,675' to Bottom Hole

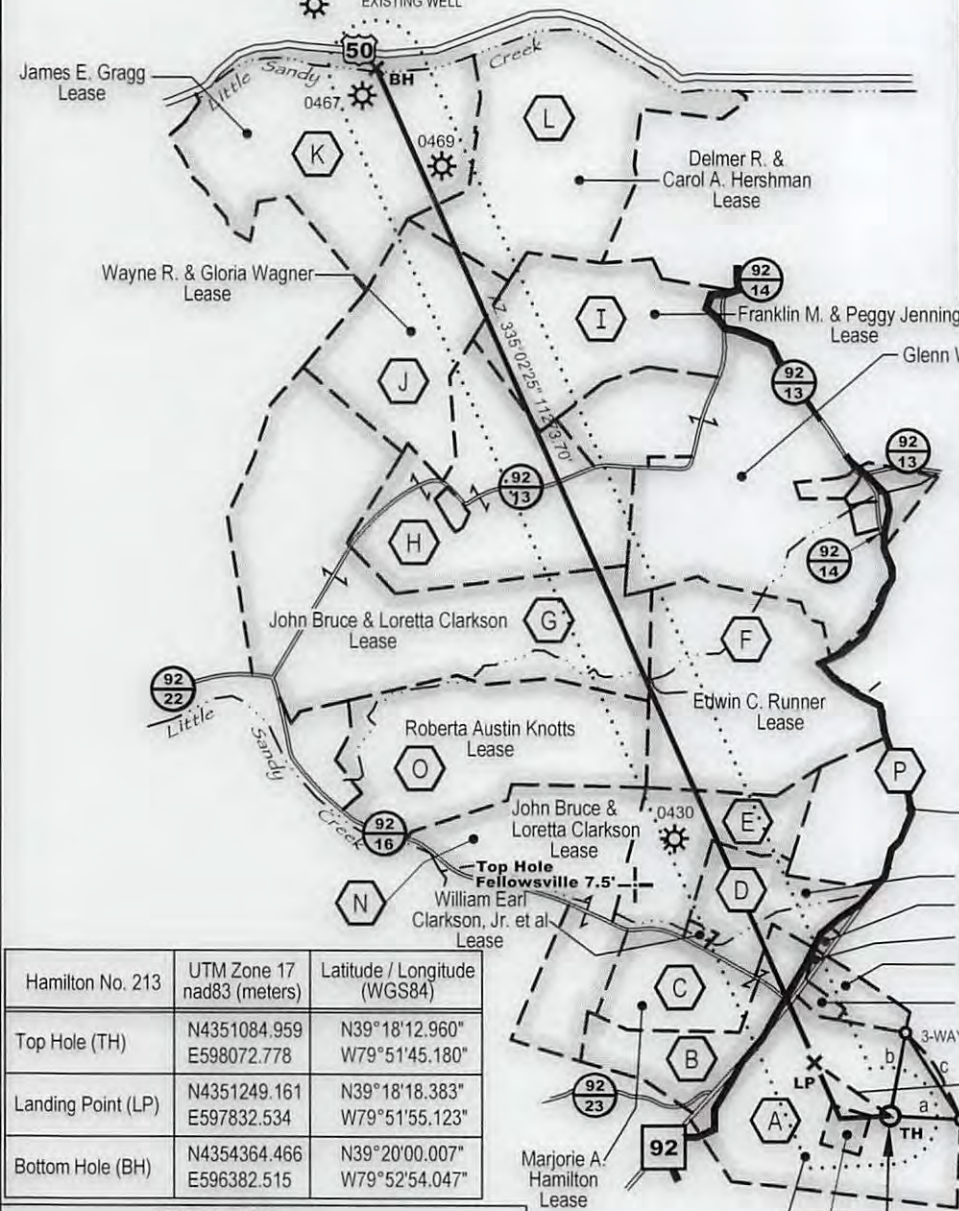


- LEGEND**
- LEASE BOUNDARY
 - SURFACE PROPERTY LINE
 - 500' BUFFER AROUND LATERAL
 - == BEVERLY & MORGANTOWN TURNPIKE
 - ☼ EXISTING WELL

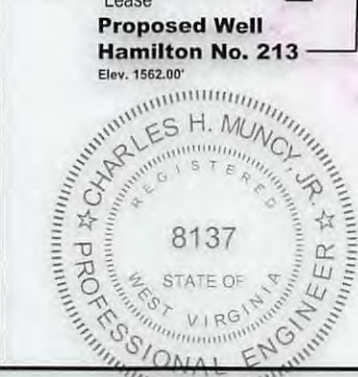


Tax Map / Parcel	Surface Owner
A 23/1	T. & B. HAMILTON
B 22/13	HAMILTON FAMILY TRUST
C 15/23	HAMILTON FAMILY TRUST
D 16/35	T. & B. HAMILTON
E 15/21	J. & L. CLARKSON
F 15/14	EDWIN C. RUNNER
G 15/6	J. & L. CLARKSON
H 15/7	W. & G. WAGNER
I 15/4	F. & P. JENNINGS
J 15/3	W. & G. WAGNER
K 9/14.2	JAMES E. GRAGG
L 9/16	HERSHMAN FAMILY TRUST
M 23/1.1	D. HAMILTON
N 15/20	J. & L. CLARKSON
O 15/12	R. AUSTIN KNOTTS
P	NO TM / P STATE OF WEST VIRGINIA

NOTE: No railroads are crossed by the proposed Hamilton 213 lateral



Hamilton No. 213	UTM Zone 17 nad83 (meters)	Latitude / Longitude (WGS84)
Top Hole (TH)	N4351084.959 E598072.778	N39° 18' 12.960" W79° 51' 45.180"
Landing Point (LP)	N4351249.161 E597832.534	N39° 18' 18.383" W79° 51' 55.123"
Bottom Hole (BH)	N4354364.466 E596382.515	N39° 20' 00.007" W79° 52' 54.047"



WELL TIE LINES

- a - N87°24'27"W 742.91'
- b - S10°43'10"W 878.12'
- c - S32°51'03"E 1067.03'



MSES consultants, inc.
P. O. Drawer 190, Clarksburg, WV 26302-0190
(304) 624-9700
Rev. 8/11/17
FILE NO. 13-284-Hamilton#213 Arsenal Well Plat
SCALE 1" = 2000' DRAWN BY RLR
MIN. DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION: GPS (SURVEY GRADE)

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and that it shows all information required by law and the rules issued and prescribed by the department of environmental protection.
(SIGNED) *Charles H. Muncy, Jr.*
R.P.E. 8137 P.S.

WVDEP
OFFICE OF OIL & GAS
601 57th STREET
CHARLESTON, WV 25304
DATE APRIL 4 20 17
OPERATOR'S WELL NO. HAMILTON NO. 213
47 077-00627 H6A
STATE COUNTY PERMIT NO.
API WELL NO.

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

LOCATION : ELEVATION ORIG. 1562' - AS-BUILT 1563' WATERSHED LITTLE SANDY CREEK
DISTRICT RENO COUNTY PRESTON QUADRANGLE FELLOWSVILLE, W V 7.5'
SURFACE OWNER TERRY D. & BETTY HAMILTON NEAREST TOWN DENT THORNTON, W V 7.5'
OIL & GAS ROYALTY OWNER T. & B. Hamilton, J. B. & L. Clarkson, H. Runner Heirs c/o E. C. Runner, M. A. Hamilton ACREAGE 95.06
W. R. & G. Wagner, F. M. & P. Jennings, W. & M. Gragg, D. & C. Hershman, LEASE ACREAGE 99.06
M. A. Hamilton

PROPOSED WORK : DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CLEAN OUT AND REPLUG
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ PLUG AND ABANDON

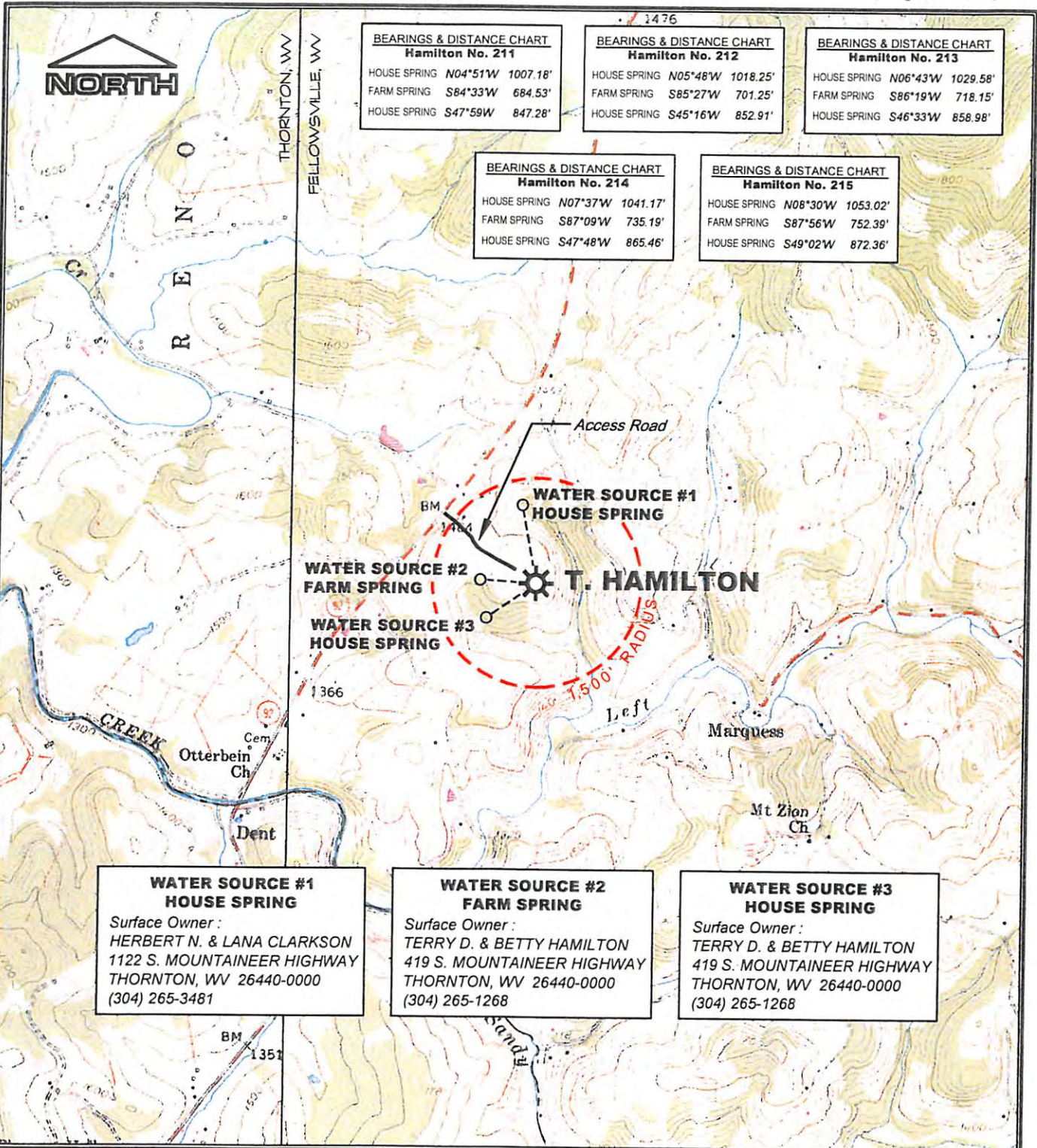
TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 7,795' MD 19,507.4'

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL
ADDRESS 6031 WALLACE ROAD EXTENSION #300 WEXFORD, PA 15090 ADDRESS 65 PROFESSIONAL PLACE, SUITE 200 BRIDGEPORT, WV 26330



08/18/2017

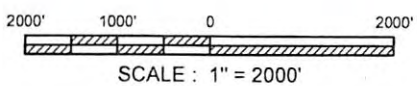
77-00627



WATER SOURCE #1 HOUSE SPRING
 Surface Owner :
 HERBERT N. & LANA CLARKSON
 1122 S. MOUNTAINEER HIGHWAY
 THORNTON, WV 26440-0000
 (304) 265-3481

WATER SOURCE #2 FARM SPRING
 Surface Owner :
 TERRY D. & BETTY HAMILTON
 419 S. MOUNTAINEER HIGHWAY
 THORNTON, WV 26440-0000
 (304) 265-1268

WATER SOURCE #3 HOUSE SPRING
 Surface Owner :
 TERRY D. & BETTY HAMILTON
 419 S. MOUNTAINEER HIGHWAY
 THORNTON, WV 26440-0000
 (304) 265-1268



REFERENCE
 U.S.G.S. 7.5' TOPOGRAPHIC QUADRANGLES :
 FELLOWSVILLE, WV 1958 (P.R. 1976)
 THORNTON, WV 1958 (P.R. 1976)

ARSENAL RESOURCES

PROPOSED T. HAMILTON WELL SURROUNDING WATER SOURCES

Drawn by	RLR	2/14
Engineer	DDT	2/14
Checked by	RVS	2/14
	Rev. 4/25/17	Date
Prepared by	MSES consultants, inc.	

Scale: AS SHOWN

1 of 1

08/18/2017

F:\On-goingProjects\13-284 Mountaineer Keystone Well Surveys\13-284 T Hamilton Well\13-284-Hamilton Drafting\13-284 Hamilton Arsenal Water Source Exhibit.dwg - Hamilton, 4/26/2017 4:37:40 PM, Sharon Cottrill