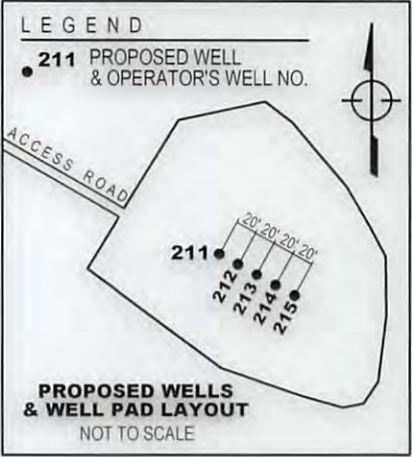




LEGEND

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



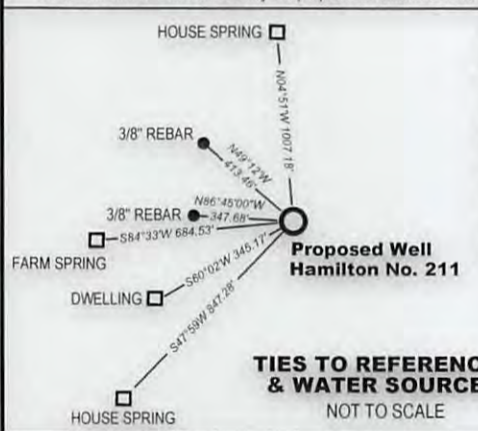
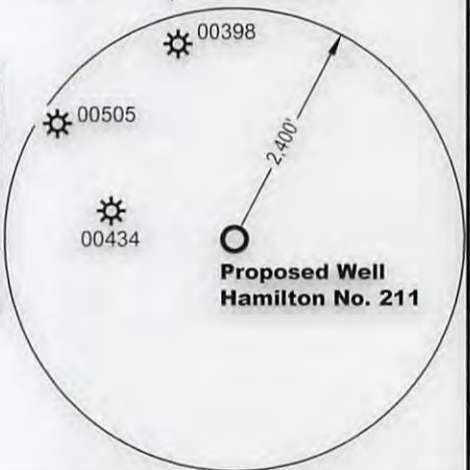
WELL TIE LINES

- a - N86°04'00"W 779.99'
- b - S13°18'00"W 866.12'
- c - S32°51'03"E 1067.03'

Tax Map / Parcel	Surface Owner	
A	23 / 1	T. & B. HAMILTON
B	23 / 1.1	D. HAMILTON
C	22 / 4	R. CLARKSON
D	22 / 13	HAMILTON FAMILY TRUST
E	15 / 23	HAMILTON FAMILY TRUST
F	15 / 20 & 21	J. & L. CLARKSON
G	15 / 12	R. AUSTIN KNOTTS
H	15 / 6	J. & L. CLARKSON
I	22 / 12	B. HAMILTON
J	15 / 3	W. & G. WAGNER
K	15 / 2	J. & L. CLARKSON
L	9 / 14.2	JAMES E. GRAGG
M	15 / 7	W. & G. WAGNER
N	15 / 7.1	T. & S. SUMMERS
O	NO TM / P	STATE OF WEST VIRGINIA

NOTE: No railroads are crossed by the proposed Hamilton 211 lateral.

Hamilton No. 211	UTM Zone 17 nad83 (meters)	Latitude / Longitude (WGS84)
Top Hole (TH)	N 4351091.478 E 598061.440	N39°18'13.176" W79°51'45.648"
Landing Point (LP)	N 4351067.164 E 597444.948	N39°18'12.638" W79°52'11.398"
Bottom Hole (BH)	N 4354330.336 E 595925.454	N39°19'59.084" W79°53'13.153"



MSES consultants, inc.
P. O. Drawer 190, Clarksburg, WV 26302-0190
(304) 624-9700

Rev. 8/11/17
FILE NO. 13-284-Hamilton#211 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 plan 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. 211
47 077 00625
STATE COUNTY PERMIT NO.
API WELL NO. H4A

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

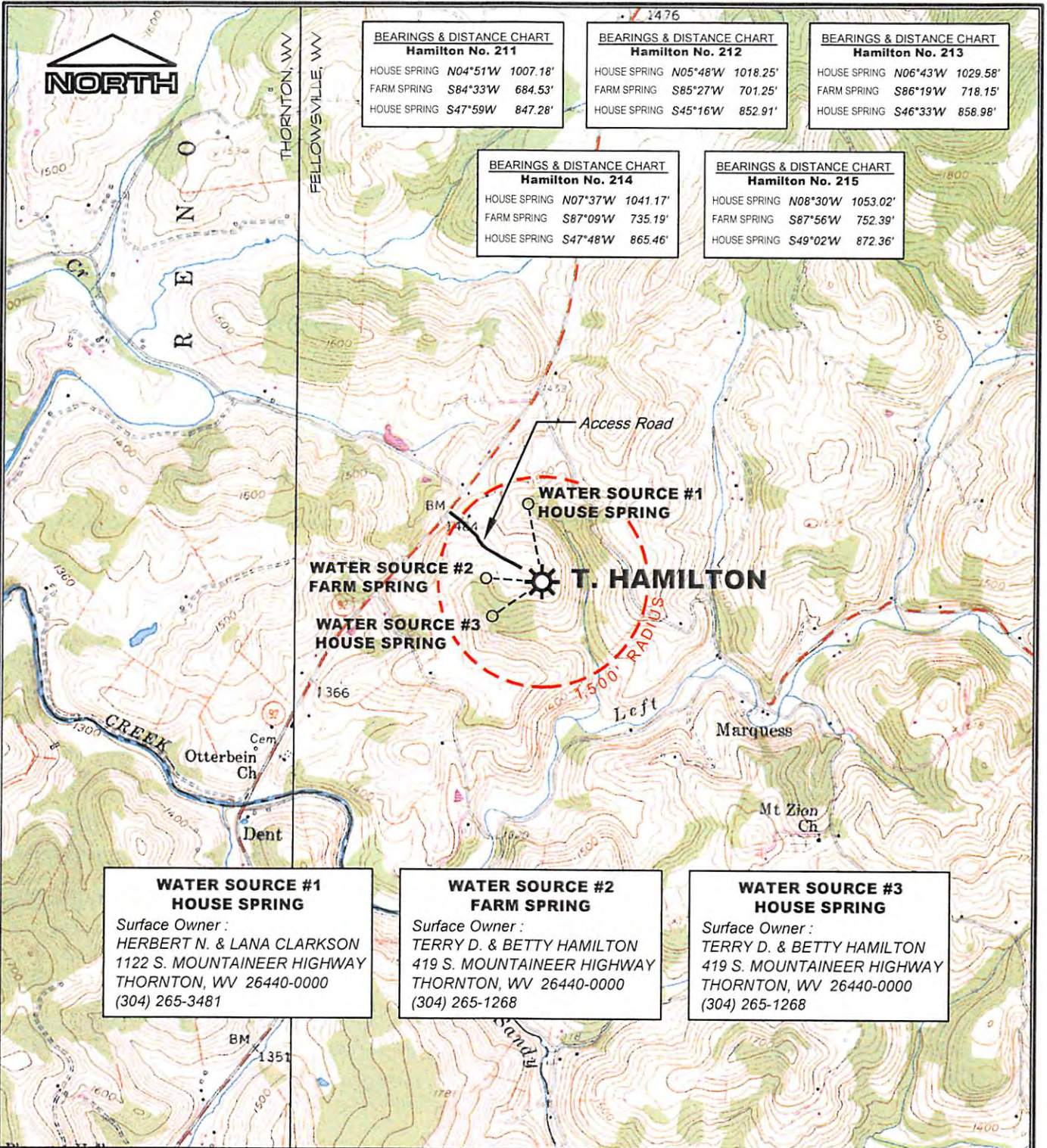
LOCATION : ELEVATION ORIG. 1562' - AS-BUILT 1563' WATERSHED LITTLE SANDY CREEK
DISTRICT RENO COUNTY PRESTON QUADRANGLE FELLOWSVILLE, W V 7.5'
SURFACE OWNER TERRY D. & BETTY HAMILTON NEAREST TOWN DEPT
OIL & GAS ROYALTY OWNER T. & B. Hamilton, D.K. Hamilton, B.M. Hamilton, M.A. Hamilton, J.B. & L. Clarkson, ACREAGE 95.06
R. Knotts, R.F. Clarkson, W. W. & M. Gragg, W. R. & G. Wagner & J. E. Gragg LEASE ACREAGE 99.06

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 20,343.1'

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

08/18/2017



**BEARINGS & DISTANCE CHART
Hamilton No. 211**

HOUSE SPRING	N04°51'W	1007.18'
FARM SPRING	S84°33'W	684.53'
HOUSE SPRING	S47°59'W	847.28'

**BEARINGS & DISTANCE CHART
Hamilton No. 212**

HOUSE SPRING	N05°48'W	1018.25'
FARM SPRING	S85°27'W	701.25'
HOUSE SPRING	S45°16'W	852.91'

**BEARINGS & DISTANCE CHART
Hamilton No. 213**

HOUSE SPRING	N06°43'W	1029.58'
FARM SPRING	S86°19'W	718.15'
HOUSE SPRING	S46°33'W	858.98'

**BEARINGS & DISTANCE CHART
Hamilton No. 214**

HOUSE SPRING	N07°37'W	1041.17'
FARM SPRING	S87°09'W	735.19'
HOUSE SPRING	S47°48'W	865.46'

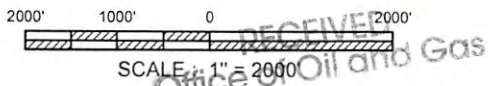
**BEARINGS & DISTANCE CHART
Hamilton No. 215**

HOUSE SPRING	N08°30'W	1053.02'
FARM SPRING	S87°56'W	752.39'
HOUSE SPRING	S49°02'W	872.36'

**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)

RECEIVED
Office of Oil and Gas
MAY 01 2017
WV Department of
Environmental Protection

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

Scale: AS SHOWN

Prepared by **MSES consultants, inc.**