

SURFACE HOLE SURVEYED LONGITUDE -80°09'08.97"

BOTTOM HOLE SURVEYED LONGITUDE -80°10'35.59" 7,740'

2,782'

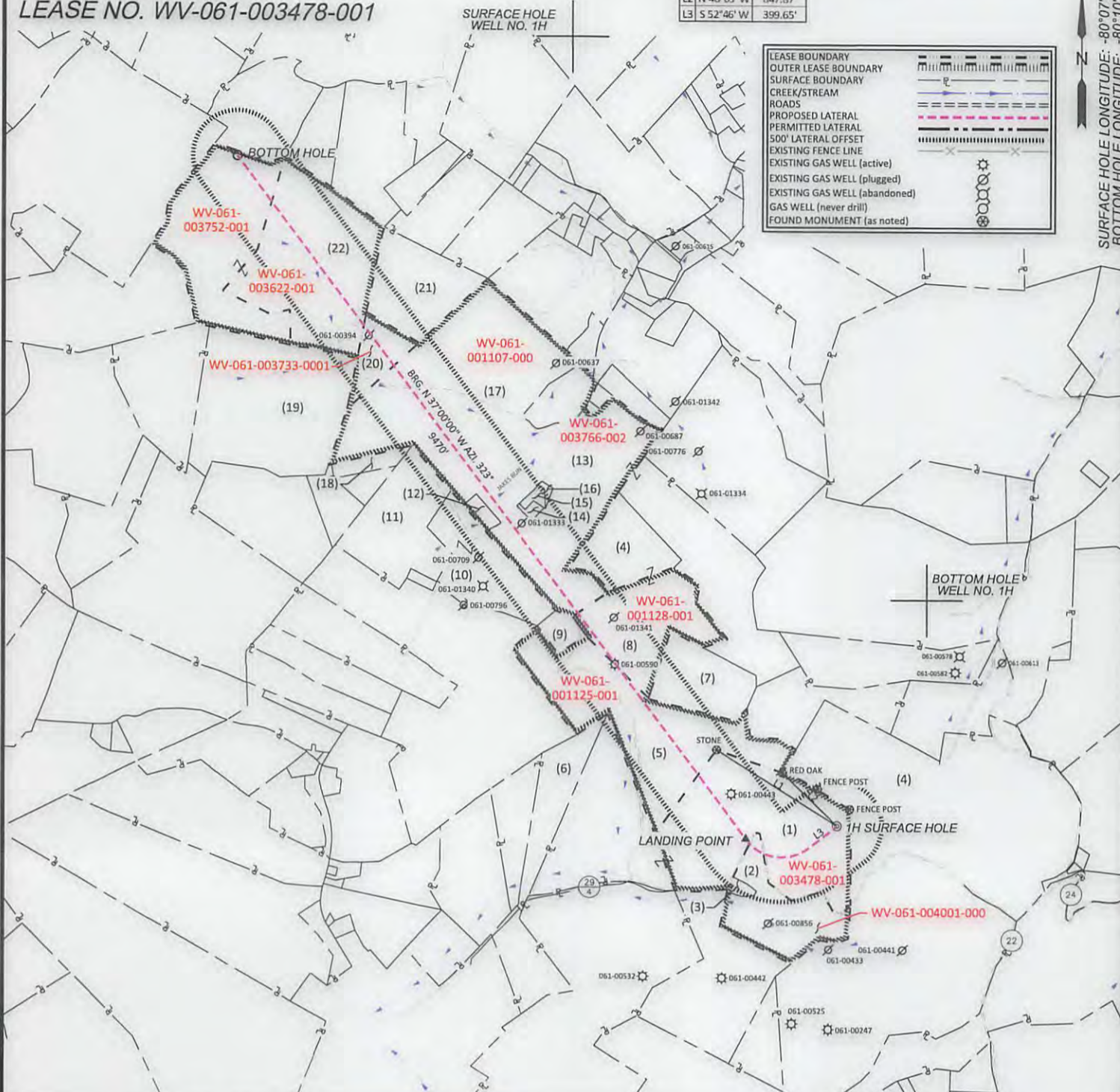
NORTHEAST NATURAL ENERGY LLC
MEPCO WELL NO. 1H
LEASE NO. WV-061-003478-001

SURFACE HOLE LATITUDE: 39°40'00"
BOTTOM HOLE LATITUDE: 39°42'30"

ID	BEARING	DISTANCE
L1	N 58°06' W	1590.89'
L2	N 46°05' W	847.87'
L3	S 52°46' W	399.65'

LEGEND

- LEASE BOUNDARY
- OUTER LEASE BOUNDARY
- SURFACE BOUNDARY
- CREEK/STREAM
- ROADS
- PROPOSED LATERAL
- PERMITTED LATERAL
- 500' LATERAL OFFSET
- EXISTING FENCE LINE
- EXISTING GAS WELL (active)
- EXISTING GAS WELL (plugged)
- EXISTING GAS WELL (abandoned)
- GAS WELL (never drill)
- FOUND MONUMENT (as noted)



SURFACE HOLE LONGITUDE: -80°07'30"
 BOTTOM HOLE LONGITUDE: -80°10'00"
 SURFACE HOLE SURVEYED LATITUDE 39°39'46.96"
 BOTTOM HOLE SURVEYED LATITUDE 39°40'59.80"

600 Marketplace Avenue, Suite 200
 Bridgeport, WV 26330
 Toll Free 855-488-9539
 Fax 304-933-3327



Civil & Environmental Consultants, Inc.

DATE SEPTEMBER 5, 2017
 SCALE 1" = 1600' ACCURACY 1:2500
 OPERATORS 1H
 WELL No. 47 - 061 - 01755 H6A
 API No. 01755 H6A
 TYPE OF WELL: MDD



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 rules issued and prescribed by the Division of Environmental Protection.

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



GAS:
 Production Storage *Deep *Shallow

PROPOSED WORK ON LOCATION:
 Drill Drill Deeper Redrill Convert
 Fracture/ Stimulate *Plug off to Formation
 Perforate New Formation Plug and Abandon
 Clean/ Replug Other Than Above
 If "Other" Please see Details below -
 DETAILS OF PROPOSED WORK _____

 *TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD: 8,222' TMD: 18,245.88'

WELL AREA & LOCATION INFORMATION:
 ELEVATION SOURCE DGPS (OPUS)
 ELEVATION 1448.16' (EXISTING), 1424.00' (PROPOSED)
 WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT 11/03/2017
 COUNTY MONONGALIA TOPO QUAD BLACKSVILLE
 SURFACE OWNER MEPCO LLC
 ACREAGE 103.49 ±
 ROYALTY OWNER NNE LLC ET AL (LEASE NO. WV-061-003478-001)
 LEASE ACREAGE 361.72 ±

WELL OPERATOR NORTHEAST NATURAL ENERGY LLC
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301

DESIGNATED AGENT JOHN ADAMS
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301

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7,740'

2,782'

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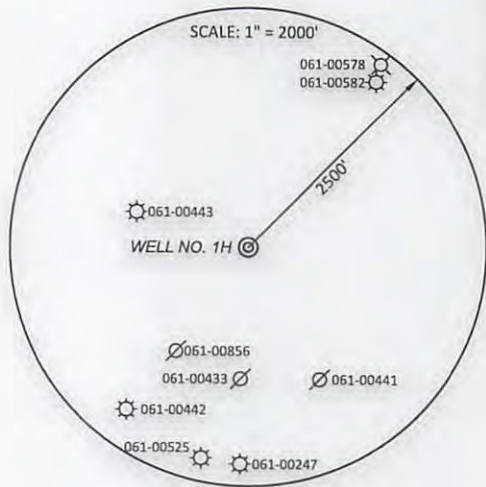
SURFACE HOLE LONGITUDE: -80°07'30"
BOTTOM HOLE LONGITUDE: -80°10'00"

1,320'
9,127'
SURFACE HOLE SURVEYED LATITUDE 39°39'46.96"
BOTTOM HOLE SURVEYED LATITUDE 39°40'59.80"

SURFACE HOLE WELL NO. 1H

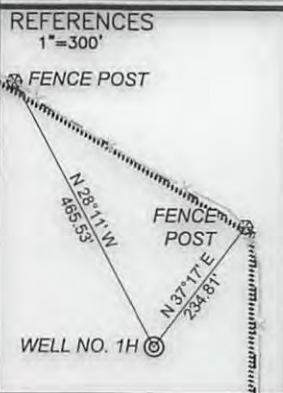
TOP HOLE (UTM NAD 83) N) 4390702.51 E) 572697.82
LANDING POINT (UTM NAD 83) N) 4390653.73 E) 572388.27
BOTTOM HOLE (UTM NAD 83) N) 4392929.06 E) 570613.31

TOP HOLE (NAD 83) N) 424281.59 E) 1784812.87 LAT.) 39°39'46.96" LONG.) 80°09'08.97" DEC. LAT.) 39.663043 DEC. LONG.) -80.162492	LP HOLE (NAD 83) N) 424138.18 E) 1783794.46 LAT.) 39°39'45.47" LONG.) 80°09'21.98" DEC. LAT.) 39.662629 DEC. LONG.) -80.156106	BOTTOM HOLE (NAD 83) N) 431701.52 E) 1778095.04 LAT.) 39°40'59.80" LONG.) 80°10'35.59" DEC. LAT.) 39.683277 DEC. LONG.) -80.176553
TOP HOLE (NAD 27) N) 424244.52 E) 1816249.69 LAT.) 39°39'46.67" LONG.) 80°09'09.72" DEC. LAT.) 39.662963 DEC. LONG.) -80.152699	LP HOLE (NAD 27) N) 424101.11 E) 1815231.31 LAT.) 39°39'45.18" LONG.) 80°09'22.73" DEC. LAT.) 39.662549 DEC. LONG.) -80.156313	BOTTOM HOLE (NAD 27) N) 431664.53 E) 1809531.74 LAT.) 39°40'59.51" LONG.) 80°10'36.33" DEC. LAT.) 39.683197 DEC. LONG.) -80.176760



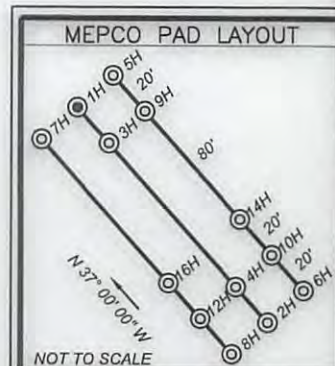
TAG	OWNER	DIST-TM-PAR	AC. ±
1	MEPCO LLC	4-16-48.3	103.49
2	DOWNEY HAROLD FOX EST.	4-16-46	21.05
3	NANCY TENNANT	4-16-47	0.85
4	CONSOL MINING COMPANY LLC	4-16-54	84.14
5	HERBERT LYNN FLETCHER, ETAL	4-16-49	52.932
6	JESSE M. & DEBORAH K. TENNANT	4-16-21	12.70
7	ALEXANDRA D. DIERINGER, ETAL	4-16-50	17.00
8	JOHN C. & PAMELA J. DIEFFENBAUCH, ETAL	4-11-18	40.00
9	HERBERT LYNN FLETCHER, ETAL	4-11-17	4.25
10	PATRICIA A. HOSTUTLER	4-11-16	20.79
11	SCOTT N. & PAULA L. RICE	4-11-13	23.80
12	GENE L. & VIRGINIA L. BROOKOVER	4-11-9.1	1.59
13	JOHN C. & PAMELA J. DIEFFENBAUCH, ETAL	4-11-9.5	93.03
14	JAKES RUN ASSEMBLY OF GOD CHURCH TRUSTEES	4-11-19	0.69
15	JAKES RUN ASSEMBLY OF GOD CHURCH TRUSTEES	4-11-19.1	0.93
16	JAKES RUN ASSEMBLY OF GOD CHURCH TRUSTEES	4-11-9.4	0.40
17	DEBORAH STREET	4-11-9	98.183
18	SCOTT N. & PAULA L. RICE	4-11-10	3.75
19	DEBORAH STREET	4-10-68	55.094
20	ROBERT A. MOORE, ETAL	4-11-8	7.12
21	ALBERT JONES, ETAL	4-11-7	18.25
22	DEBORAH STREET	4-10-67	100.00

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



NOTES ON SURVEY

- NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY WITHIN 625' OF THE CENTER OF THE WELL PAD WERE OBSERVED.
- NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE FOUND WITHIN 250'.
- SURFACE OWNERSHIP TAKEN FROM THE MONONGALIA COUNTY TAX ASSESSOR AND COUNTY CLERK OFFICES IN OCTOBER, 2015.
- WELL LATITUDE AND LONGITUDE FROM SURVEY GRADE VRS SOLUTIONS.
- BEARINGS SHOWN ARE BASED UPON THE WV STATE PLANE COORDINATE SYSTEM, NAD 83 GRID NORTH ZONE.
- LEASE INFORMATION PROVIDED BY NORTHEAST NATURAL ENERGY LLC.
- PARCEL AND LEASE BOUNDARY LOCATIONS ARE APPROXIMATE AND BASED UPON RELEVANT GIS INFORMATION, FIELD LOCATION BOUNDARY EVIDENCE AND DEED DESCRIPTIONS.



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47 - 061 - 01755HbA
API No. mod

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