

SURFACE HOLE SURVEYED LONGITUDE -80°09'08.30"
 BOTTOM HOLE SURVEYED LONGITUDE -80°08'43.72"

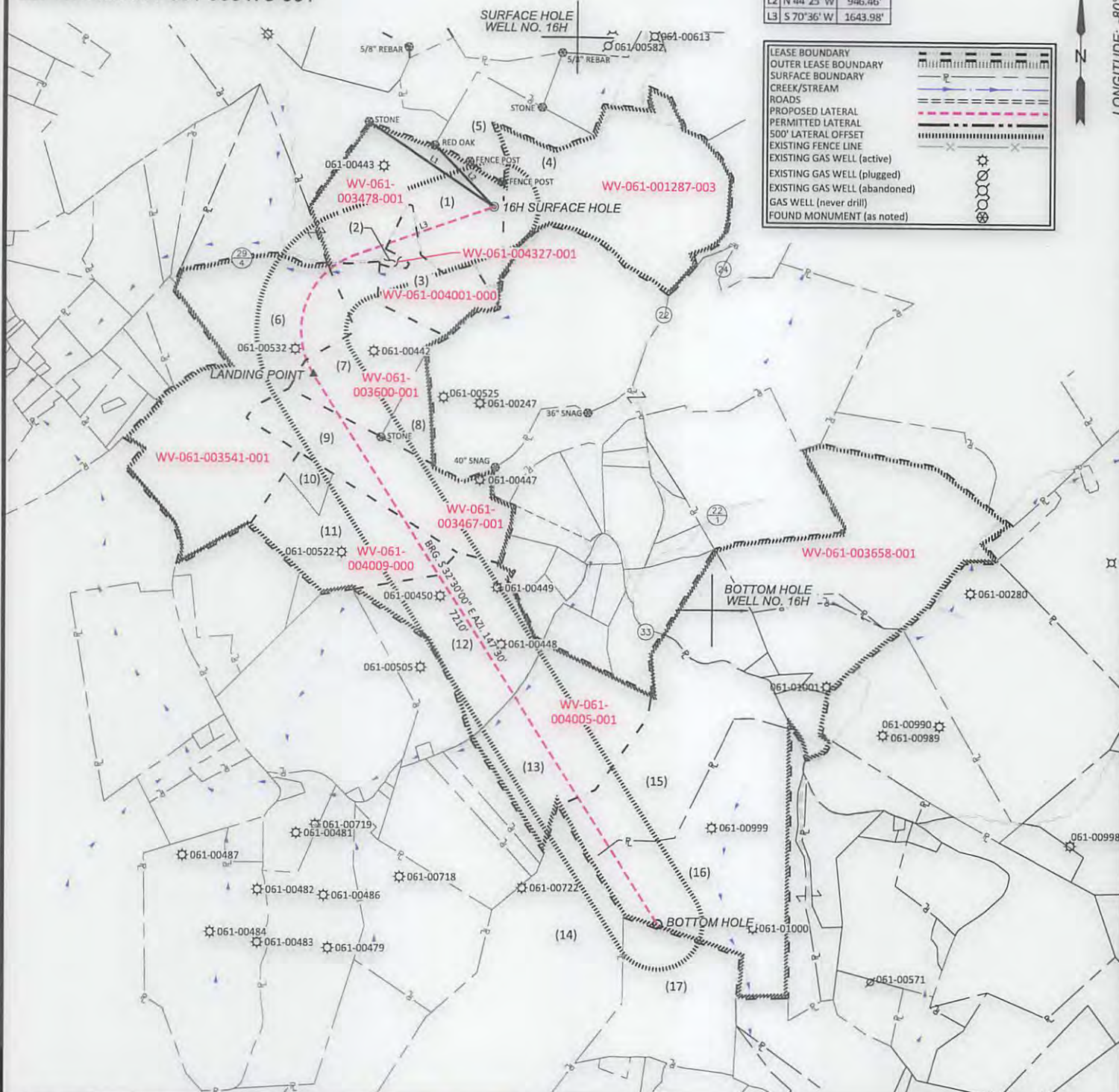
7,687'
 5,767'

LATITUDE: 39°40'00"

NORTHEAST NATURAL ENERGY LLC
 MEPCO WELL NO. 16H
 LEASE NO. WV-061-003478-001

ID	BEARING	DISTANCE
L1	N 56°29' W	1681.86'
L2	N 44°25' W	946.46'
L3	S 70°36' W	1643.98'

Symbol	Description
	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)



LONGITUDE: -80°07'30"
 9,347'
 SURFACE HOLE SURVEYED LATITUDE 39°39'46.09"
 BOTTOM HOLE SURVEYED LATITUDE 39°38'27.62"

600 Marketplace Avenue, Suite 200
 Bridgeport, WV 26330
 Toll Free 855-488-9539
 Fax 304-933-3327
Civil & Environmental Consultants, Inc.



DATE SEPTEMBER 27, 2017
 SCALE 1" = 1600' ACCURACY 1:2500
 OPERATORS 16H
 WELL No. 47 - 061 - 01790 H6A
 API No.



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.

[Signature]

TYPE OF WELL:

GAS:
 Production Storage *Deep *Shallow

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



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

WELL AREA & LOCATION INFORMATION:

ELEVATION SOURCE DGPS (OPUS)
 ELEVATION 1452.74' (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 NORTH NATURAL ENERGY LLC, ET AL (LEASE NO. WV-061-003478-001)
 LEASE ACREAGE 601.71 ±

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

SURFACE HOLE SURVEYED LONGITUDE -80°09'08.30"
 BOTTOM HOLE SURVEYED LONGITUDE -80°08'43.72"

7,687'
 5,767'

**NORTHEAST NATURAL ENERGY LLC
 MEPCO WELL NO. 16H
 LEASE NO. WV-061-003478-001**

39°40'00"

-80°07'30"

9,347'
 SURFACE HOLE SURVEYED LATITUDE 39°39'46.09"

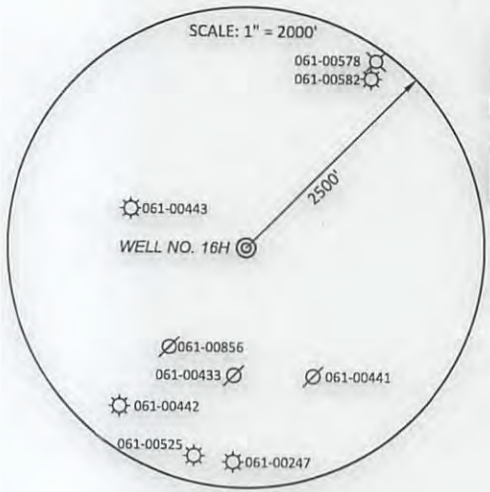
BOTTOM HOLE SURVEYED LATITUDE 39°38'27.62"

SURFACE HOLE
 WELL NO. 16H

TOP HOLE (UTM NAD 83)
 N) 4390676.07
 E) 572714.00

LANDING POINT (UTM NAD 83)
 N) 4390095.38
 E) 572111.60

BOTTOM HOLE (UTM NAD 83)
 N) 4388262.52
 E) 573322.76



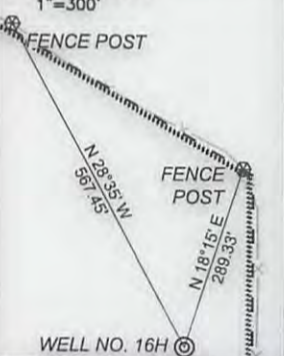
TOP HOLE (NAD 83)	LP HOLE (NAD 83)	BOTTOM HOLE (NAD 83)
N) 424193.64 E) 1784864.49 LAT.) 39°39'46.09" LONG.) 80°09'08.30" DEC. LAT.) 39.662803 DEC. LONG.) -80.152307	N) 422321.26 E) 1782856.01 LAT.) 39°39'27.44" LONG.) 80°09'33.81" DEC. LAT.) 39.657622 DEC. LONG.) -80.159392	N) 416240.72 E) 1786729.74 LAT.) 39°38'27.62" LONG.) 80°08'43.72" DEC. LAT.) 39.641006 DEC. LONG.) -80.145478
N) 424156.57 E) 1816301.32 LAT.) 39°39'45.80" LONG.) 80°09'09.05" DEC. LAT.) 39.662723 DEC. LONG.) -80.152513	N) 422284.19 E) 1814292.93 LAT.) 39°39'27.15" LONG.) 80°09'34.55" DEC. LAT.) 39.657542 DEC. LONG.) -80.159598	N) 416203.59 E) 1818168.78 LAT.) 39°38'27.33" LONG.) 80°08'44.46" DEC. LAT.) 39.640926 DEC. LONG.) -80.145684

TAG	OWNER	DIST-TM-PAR	AC. ±
1	MEPCO LLC	4-16-48.3	103.49
2	DOWNEY HAROLD FOX EST	4-16-47	0.86
3	DOWNEY HAROLD FOX EST	4-16-46	21.9
4	CONSOL MINING COMPANY LLC	4-16-54	84.14
5	CONSOL MINING COMPANY LLC	4-16-52	19.97
6	A. KEITH MICHAEL, ET AL	4-16-48	206.00
7	A. KEITH MICHAEL, ET AL	4-16-45	35.53
8	A. KEITH MICHAEL, ET AL	4-16-44	8.20
9	A. KEITH MICHAEL, ET AL	4-16-43	45.00
10	DAVID W. FRAZIER	4-16-42	4.50
11	DAVID W. FRAZIER	4-16-41	40.23
12	DAVID P. WALKER ET AL	4-16-39	48.00
13	GEORGE H. RUCKLE	4-21-19	48.00
14	MICHAEL MCMASTER	4-21-40	136.50
15	MARK & BETTY EDDY, ET AL	4-21-20	58.91
16	MARK & BETTY EDDY, ET AL	4-21-21	83.46
17	KEVIN A. & CARRIE L. SMITH	4-21-39	49.00

BOTTOM HOLE
 WELL NO. 16H

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

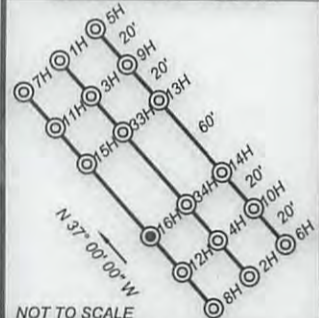
REFERENCES
 1"=300'



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.

MEPCO PAD LAYOUT



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



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OPERATORS
 WELL No. 16H

47 - 061 - 0179D H6A
 API No.

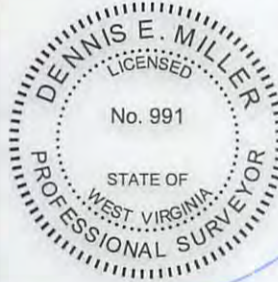
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 If "Other" Please see Details below—
 DETAILS OF PROPOSED WORK _____

*TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD: 8,222' TMD: 16,907.61'



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.

[Signature]

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



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