

SURFACE HOLES SURVEYED LONGITUDE -80°09'07.96"
 BOTTOM HOLE SURVEYED LONGITUDE -80°08'25.83"

7,661' 4,367'

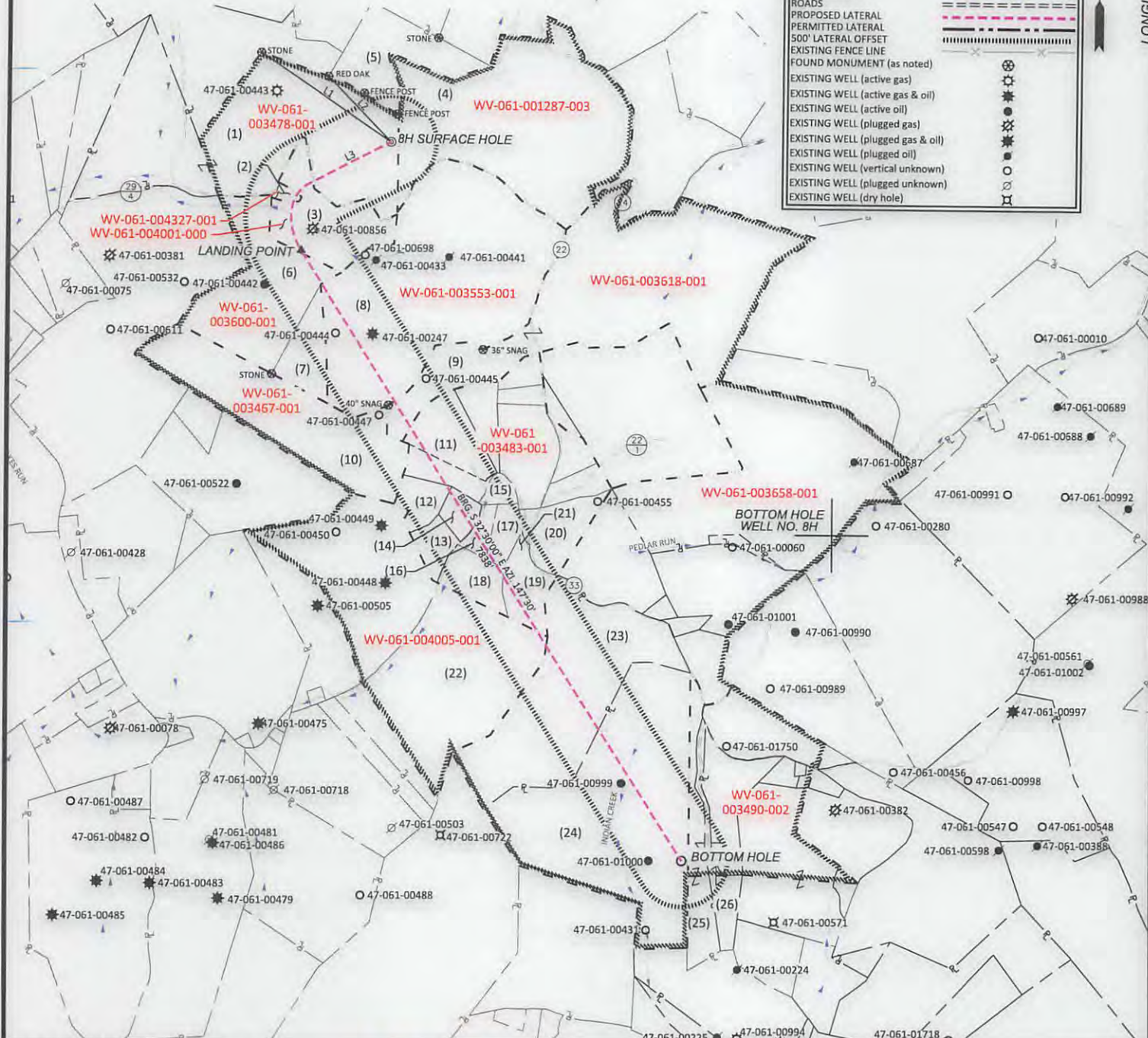
LATITUDE: 39°40'00"

**NORTHEAST NATURAL ENERGY LLC
 MEPCO WELL NO. 8H
 LEASE NO. WV-061-003478-001**

ID	BEARING	DISTANCE
L1	N 56°08' W	1720.57'
L2	N 44°18' W	986.42'
L3	S 62°53' W	1006.18'

LEGEND

- LEASE BOUNDARY
- OUTER LEASE BOUNDARY
- SURFACE BOUNDARY
- CREEK/STREAM
- ROADS
- PROPOSED LATERAL
- PERMITTED LATERAL
- 500' LATERAL OFFSET
- EXISTING FENCE LINE
- FOUND MONUMENT (as noted)
- EXISTING WELL (active gas)
- EXISTING WELL (active gas & oil)
- EXISTING WELL (active oil)
- EXISTING WELL (plugged gas)
- EXISTING WELL (plugged gas & oil)
- EXISTING WELL (plugged oil)
- EXISTING WELL (vertical unknown)
- EXISTING WELL (plugged unknown)
- EXISTING WELL (dry hole)



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



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.

[Handwritten Signature]

DATE JULY 31, 2017
 SCALE 1" = 1600' ACCURACY 1:2500
 OPERATORS WELL No. 8H
47-061-01759 MOD H6A
 API No.

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



TYPE OF WELL:
 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: 17,007.41'

WELL AREA & LOCATION INFORMATION:
 ELEVATION SOURCE DGPS (OPUS)
 ELEVATION 1452.16' (EXISTING), 1424.00' (PROPOSED)
 WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT CLAY
 COUNTY MONONGALIA TOPO QUAD BLACKSVILLE
 SURFACE OWNER MEPCO LLC
 ACREAGE 103.49 ±
 ROYALTY OWNER NORTHEAST NATURAL ENERGY, LLC (LEASE NO. WV-061-003478-001)
 LEASE ACREAGE 537.39 ±

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

11/03/2017

LONGITUDE: -80°07'30"
 SURFACE HOLE SURVEYED LATITUDE 39°39'45.80"
 BOTTOM HOLE SURVEYED LATITUDE 39°38'28.98"

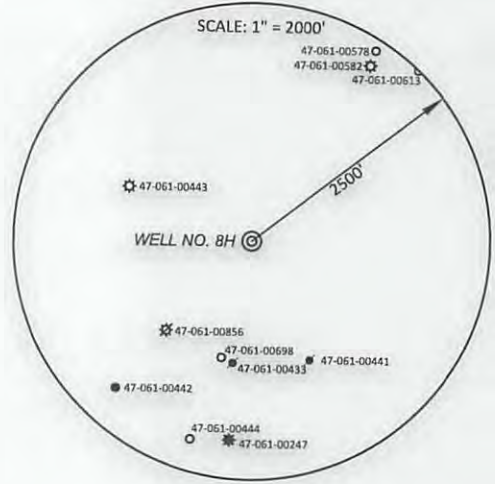
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7,661'
 4,367'

**NORTHEAST NATURAL ENERGY LLC
 MEPCO WELL NO. 8H
 LEASE NO. WV-061-003478-001**

SURFACE HOLE
 WELL NO. 8H

TOP HOLE (UTM NAD 83)
 N) 4390667.11
 E) 572722.26
 LANDING POINT (UTM NAD 83)
 N) 4390301.17
 E) 572432.15
 BOTTOM HOLE (UTM NAD 83)
 N) 4388308.53
 E) 573748.91

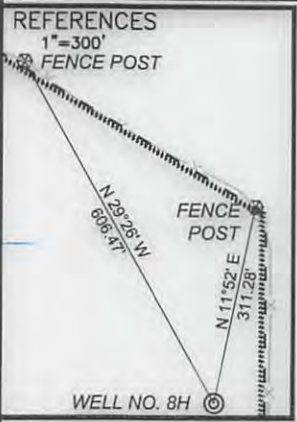


TOP HOLE (NAD 83)	LP (NAD 83)	BOTTOM HOLE (NAD 83)
N) 424163.79 E) 1784891.11 LAT.) 39°39'45.80" LONG.) 80°09'07.96" DEC. LAT.) 39.662722 DEC. LONG.) -80.152212	N) 422978.94 E) 1783919.14 LAT.) 39°39'34.02" LONG.) 80°09'20.28" DEC. LAT.) 39.659449 DEC. LONG.) -80.155633	N) 418388.34 E) 1789130.55 LAT.) 39°38'28.98" LONG.) 80°08'25.83" DEC. LAT.) 39.641384 DEC. LONG.) -80.140507
TOP HOLE (NAD 27) N) 424126.71 E) 1816327.94 LAT.) 39°39'45.51" LONG.) 80°09'08.71" DEC. LAT.) 39.662641 DEC. LONG.) -80.152418	LP HOLE (NAD 27) N) 422941.86 E) 1815356.02 LAT.) 39°39'33.73" LONG.) 80°09'21.02" DEC. LAT.) 39.659369 DEC. LONG.) -80.155840	BOTTOM HOLE (NAD 27) N) 416331.20 E) 1819567.56 LAT.) 39°38'28.69" LONG.) 80°08'26.57" DEC. LAT.) 39.641303 DEC. LONG.) -80.140714

TAG	OWNER	DIST-TM-PAR	AC. ±
1	MEPCO LLC	4-16-48.3	103.49
2	DOWNEY HAROLD FOX EST	4-16-47	0.85
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	4-16-45	35.53
7	A. KEITH MICHAEL, ET AL	4-16-44	8.20
8	A. KEITH MICHAEL, ET AL	4-16-48	206.00
9	JOE CLARK STATLER	4-16-66	97.69
10	A. KEITH MICHAEL, ET AL	4-16-43	45.00
11	ARTHUR LUZADER	4-16-72.8	16.06
12	KENNETH & GENEVA YOST	4-16-72.4	5.25
13	KENNETH & GENEVA YOST	4-16-72.2	4.85
14	JESSE & HELEN LEMASTERS	4-16-72.3	3.72
15	WILLIAM JONAH KERNS	4-16-72.9	2.26
16	WADESTOWN VOLUNTEER FIRE DEPT.	4-16-72.6	2.78
17	MT. PLEASANT UNITED METHODIST CHURCH	4-16-72.13	2.35
18	KENNETH & GENEVA YOST	4-16-72.7	11.69
19	GEORGE H. RUCKLE	4-16-72	5.22
20	ROBERT JOSEPH & IRENE CATHERINE CARUBIA	4-16-74	12.05
21	CONSOL MINING COMPANY LLC	4-16-72.1	0.93
22	GEORGE H. RUCKLE	4-21-19	48.00
23	MARK & BETTY EDDY, ET AL	4-21-20	58.91
24	MARK & BETTY EDDY, ET AL	4-21-21	83.46
25	MARK & BETTY EDDY, ET AL	4-21-22	25.577
26	CHAD M. & MELISSA K. MATHENY	4-21-22.1	7.483

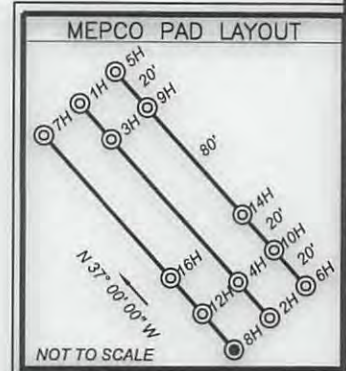
BOTTOM HOLE
 WELL NO. 8H

(+) 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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47-061-01751 MOD
 API No. H6A

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Dennis E. Miller

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