

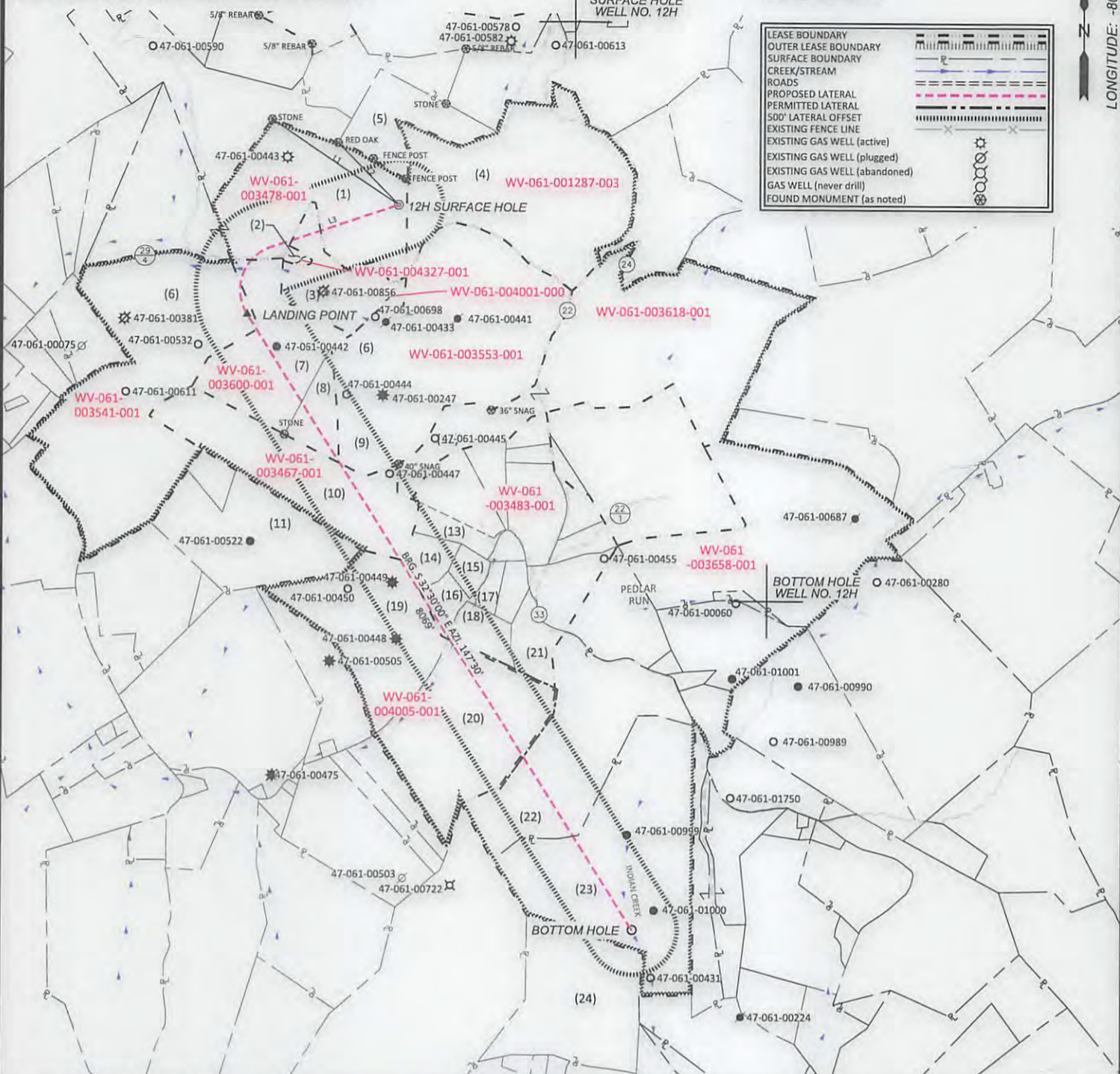
SURFACE HOLE SURVEYED LONGITUDE 80°09'08.13"
 BOTTOM HOLE SURVEYED LONGITUDE -80°08'33.52" 7,674' 4,969'

NORTHEAST NATURAL ENERGY LLC
MEPCO WELL NO. 12H
LEASE NO. WV-061-003478-001


LATITUDE: 39°40'00"

ID	BEARING	DISTANCE
L1	N 56°18' W	1701.21'
L2	N 44°21' W	966.44'
L3	S 71°25' W	1502.01'

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"
 SURFACE HOLE SURVEYED LATITUDE 39°39'45.94"
 9,430'
 BOTTOM HOLE SURVEYED LATITUDE 39°38'26.80"

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.

DATE SEPTEMBER 27, 2017
 SCALE 1" = 1600' ACCURACY 1:2500
 OPERATORS 12H
 WELL No. 47 - 061 - 01789 H6A
 API No. _____

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: 17,597.43'

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



WELL AREA & LOCATION INFORMATION:
 ELEVATION SOURCE DGPS (OPUS)
 ELEVATION 1442.89' (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 740.73 ±

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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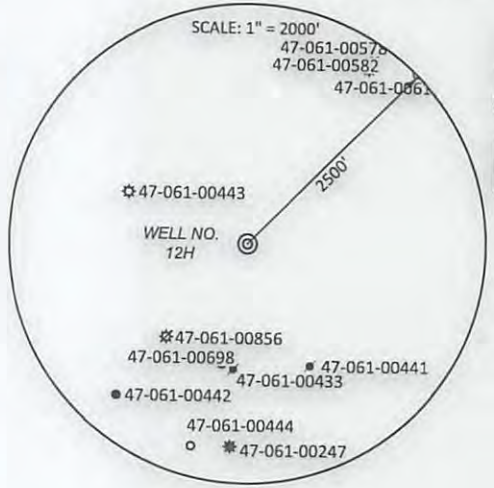
LONGITUDE: -80°07'30"

9,430' SURFACE HOLE SURVEYED LATITUDE 39°39'45.94"

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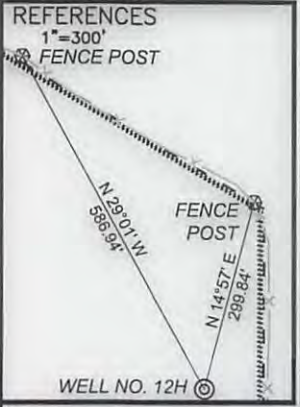
TOP HOLE (NAD 83)	LP (NAD 83)	BOTTOM HOLE (NAD 83)
N) 424178.72 E) 1784877.80 LAT.) 39°38'45.94" LONG.) 80°09'08.13" DEC. LAT.) 39.662762 DEC. LONG.) -80.152259	N) 422957.37 E) 1783191.82 LAT.) 39°39'33.75" LONG.) 80°09'29.59" DEC. LAT.) 39.659375 DEC. LONG.) -80.158216	N) 416151.95 E) 1787527.35 LAT.) 39°38'26.80" LONG.) 80°08'33.52" DEC. LAT.) 39.640778 DEC. LONG.) -80.142644
TOP HOLE (NAD 27)	LP HOLE (NAD 27)	BOTTOM HOLE (NAD 27)
N) 424141.64 E) 1816314.63 LAT.) 39°39'45.66" LONG.) 80°09'08.88" DEC. LAT.) 39.662682 DEC. LONG.) -80.152466	N) 422920.30 E) 1814628.72 LAT.) 39°39'33.46" LONG.) 80°09'30.32" DEC. LAT.) 39.659295 DEC. LONG.) -80.158422	N) 416114.81 E) 1818964.38 LAT.) 39°38'26.51" LONG.) 80°08'34.26" DEC. LAT.) 39.640698 DEC. LONG.) -80.142850

TOP HOLE (UTM NAD 83)	LANDING POINT (UTM NAD 83)	BOTTOM HOLE (UTM NAD 83)
N) 4390671.59 E) 572718.13	N) 4390290.90 E) 572210.67	N) 4388239.53 E) 573566.23

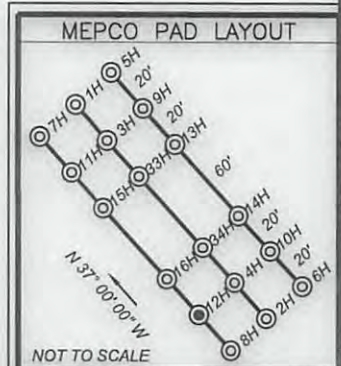


TAG	OWNER	DIST-TM-PAR	AC. ±
1	MEPCO LLC	4 - # - 48.3	103.49
2	DOWNEY HAROLD FOX EST	4 - # - 47	0.85
3	DOWNEY HAROLD FOX EST	4 - # - 46	21.9
4	CONSOL MINING COMPANY LLC	4 - # - 54	84.14
5	CONSOL MINING COMPANY LLC	4 - # - 52	19.97
6	A. KEITH MICHAEL, ET AL	4 - # - P/O 48	206.00
7	A. KEITH MICHAEL, ET AL	4 - # - 45	35.53
8	A. KEITH MICHAEL, ET AL	4 - # - 44	8.20
9	A. KEITH MICHAEL, ET AL	4 - # - P/O 48	206.00
10	A. KEITH MICHAEL, ET AL	4 - # - 43	45.00
11	DAVID W. FRAZIER	4 - # - 41	40.23
12	JOE CLARK STATLER	4 - # - 66	97.69
13	ARTHUR LUZADER	4 - # - 72.8	16.06
14	KENNETH & GENEVA YOST	4 - # - 72.4	5.25
15	JESSE & HELEN LEMASTER	4 - # - 72.3	3.72
16	KENNETH & GENEVA YOST	4 - # - 72.2	4.85
17	WADESTOWN VOLUNTEER FIRE DEPT.	4 - # - 72.6	2.78
18	KENNETH & GENEVA YOST	4 - # - 72.7	11.69
19	DAVID P. WALKER, ET AL	4 - # - 39	48.00
20	GEORGE H. RUCKLE	4 - # - 19	48.00
21	GEORGE H. RUCKLE	4 - # - 72	5.22
22	MARK & BETTY EDDY, ET AL	4 - # - 20	58.91
23	MARK & BETTY EDDY, ET AL	4 - # - 21	83.46
24	KEVIN A. & CARRIE L. SMITH	4 - # - 39	49

(+) 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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