

SURFACE HOLE SURVEYED LONGITUDE -80°09'07.77"

BOTTOM HOLE SURVEYED LONGITUDE -80°08'18.13"

7,646'

3,765'

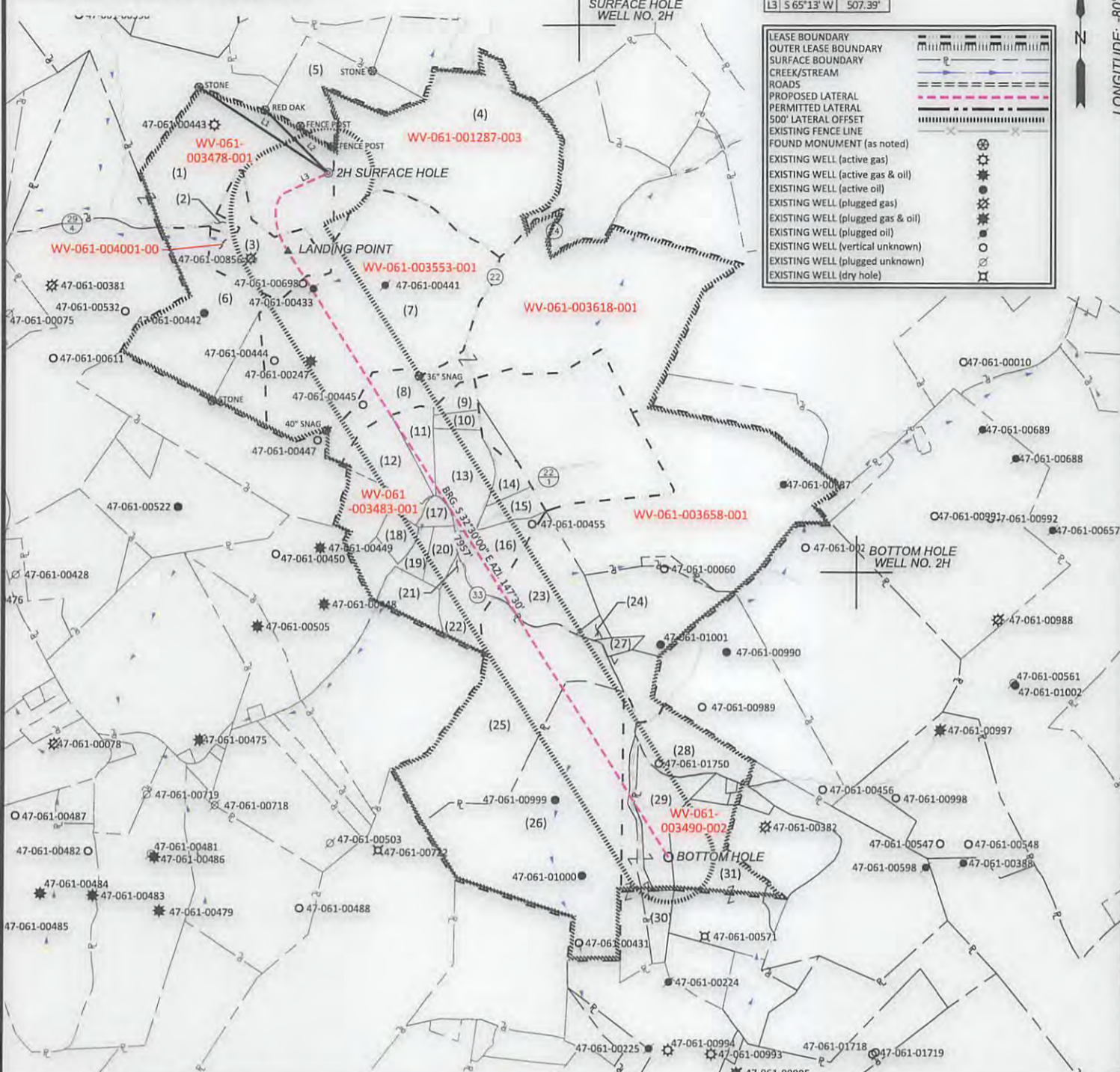
LATITUDE: 39°40'00"

NORTHEAST NATURAL ENERGY LLC
MEPCO WELL NO. 2H
LEASE NO. WV-061-003478-001

ID	BEARING	DISTANCE
L1	N 56°47' W	1725.66'
L2	N 45°28' W	987.52'
L3	S 65°13' W	507.39'

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.

DATE AUGUST 28, 2017

SCALE 1" = 1600' ACCURACY 1:2500

OPERATORS
WELL No. 2H

47-061-01744 AlcA
API No. MOD

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: 16,761.43'

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

WELL AREA & LOCATION INFORMATION:

ELEVATION SOURCE DGPS (OPUS)

ELEVATION 1452.91' (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 NORTHEAST NATURAL ENERGY, LLC (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

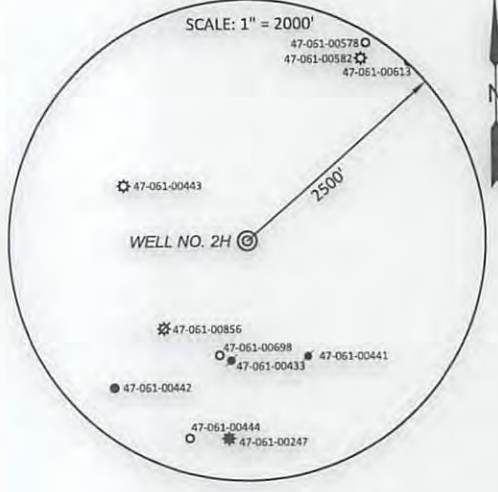
DESIGNATED AGENT JOHN ADAMS
ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301

SURFACE HOLE SURVEYED LONGITUDE -80°09'07.77" BOTTOM HOLE SURVEYED LONGITUDE -80°08'18.14" 7,646' 3,765' LATITUDE: 39°40'00"

**NORTHEAST NATURAL ENERGY LLC
MEPCO WELL NO. 2H
LEASE NO. WV-061-003478-001**

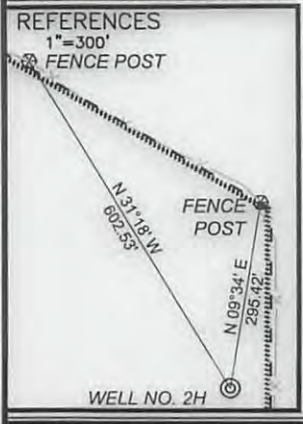
TOP HOLE (NAD 83)	LP (NAD 83)	BOTTOM HOLE (NAD 83)
NJ 424177.10 EJ 1784506.04 LAT.) 39°39'45.93" LONG.) 80°09'07.77" DEC. LAT.) 39.662758 DEC. LONG.) -80.152159	NJ 423295.40 EJ 1784458.58 LAT.) 39°39'37.18" LONG.) 80°09'13.41" DEC. LAT.) 39.660329 DEC. LONG.) -80.153725	NJ 416584.73 EJ 1788733.75 LAT.) 39°38'31.16" LONG.) 80°08'18.13" DEC. LAT.) 39.641990 DEC. LONG.) -80.138371
TOP HOLE (NAD 27)	LP HOLE (NAD 27)	BOTTOM HOLE (NAD 27)
NJ 424140.02 EJ 1816342.86 LAT.) 39°39'45.64" LONG.) 80°09'08.52" DEC. LAT.) 39.662678 DEC. LONG.) -80.152365	NJ 423258.32 EJ 1815895.45 LAT.) 39°39'36.90" LONG.) 80°09'14.16" DEC. LAT.) 39.660249 DEC. LONG.) -80.153932	NJ 416547.59 EJ 1820170.74 LAT.) 39°38'30.87" LONG.) 80°08'18.88" DEC. LAT.) 39.641909 DEC. LONG.) -80.138577

TOP HOLE (UTM NAD 83) N) 4390671.24 E) 572726.74
LANDING POINT (UTM NAD 83) N) 4390400.33 E) 572594.90
BOTTOM HOLE (UTM NAD 83) N) 4388377.52 E) 573931.59

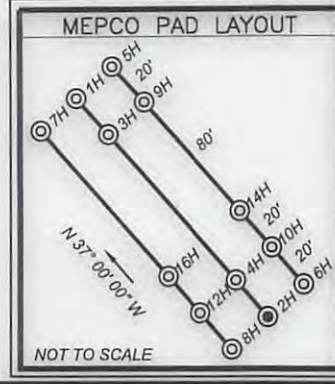


TAG	OWNER	DIST-TM-PAR	AC. ±
1	MEPCO LLC	4-16-48.3	103.49
2	DOWNEY HAROLD FOX EST	4-16-47	0.85
3	DOWNEY HAROLD FOX EST	4-16-46	21.9
4	CONSOL MINING COMPANY LLC	4-16-54	84.14
5	CONSOL MINING COMPANY LLC	4-16-52	19.97
6	A. KEITH MICHAEL, ET AL	4-16-45	35.53
7	A. KEITH MICHAEL, ET AL	4-16-48	206.00
8	JOE CLARK STATLER	4-16-66	97.69
9	RUSSELL & ALECTA LAWSON	4-16-72.10	3.00
10	RUSSELL & ALECTA LAWSON	4-16-72.12	2.00
11	JOHN H. & MELINDA S. LAWSON	4-16-72.5	6.73
12	ARTHUR LUZADER	4-16-72.8	16.06
13	JOHN H. & MELINDA S. LAWSON	4-16-72.11	13.27
14	ROBERT J. & IRENE C. CARUBIA	4-16-73	-
15	ROBERT JOSEPH & IRENE CATHERINE CARUBIA	4-16-73.1	5.00
16	ROBERT J. & IRENE C. CARUBIA	4-16-74	12.50
17	WILLIAM JONAH KERNS	4-16-72.9	2.26
18	HELEN & JESSE LEMASTERS	4-16-72.3	3.72
19	WADESTOWN VOLUNTEER FIRE DEPT.	4-16-72.6	2.78
20	MT. PLEASANT UNITED METHODIST CHURCH	4-16-72.13	2.35
21	CONSOL MINING COMPANY LLC	4-16-72.1	0.93
22	GEORGE H. RUCKLE	4-16-72	5.22
23	ROBERT J. & IRENE C. CARUBIA	4-16-75	20.86
24	ROY N. & CAROL A. TENNANT	4-16-76	8.035
25	MARK & BETTY EDDY, ET AL	4-21-20	58.910
26	MARK & BETTY EDDY, ET AL	4-21-21	83.46
27	GREGORY J. & DOROTHY E. HIXENBAUGH	4-16-76.1	1.65
28	MARK & BETTY EDDY	4-21-25	14.10
29	MARK & BETTY EDDY, ET AL	4-21-22	25.577
30	CHAD M. & MELISSA MATHENY	4-21-22.1	7.483
31	ARLIN PAUL EDDY	4-21-29	33.18

(+) 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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OPERATORS
WELL No. 2H
47 - 061 - 01744 H6A
API No. MOB



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[Signature]

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



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11/03/2017