

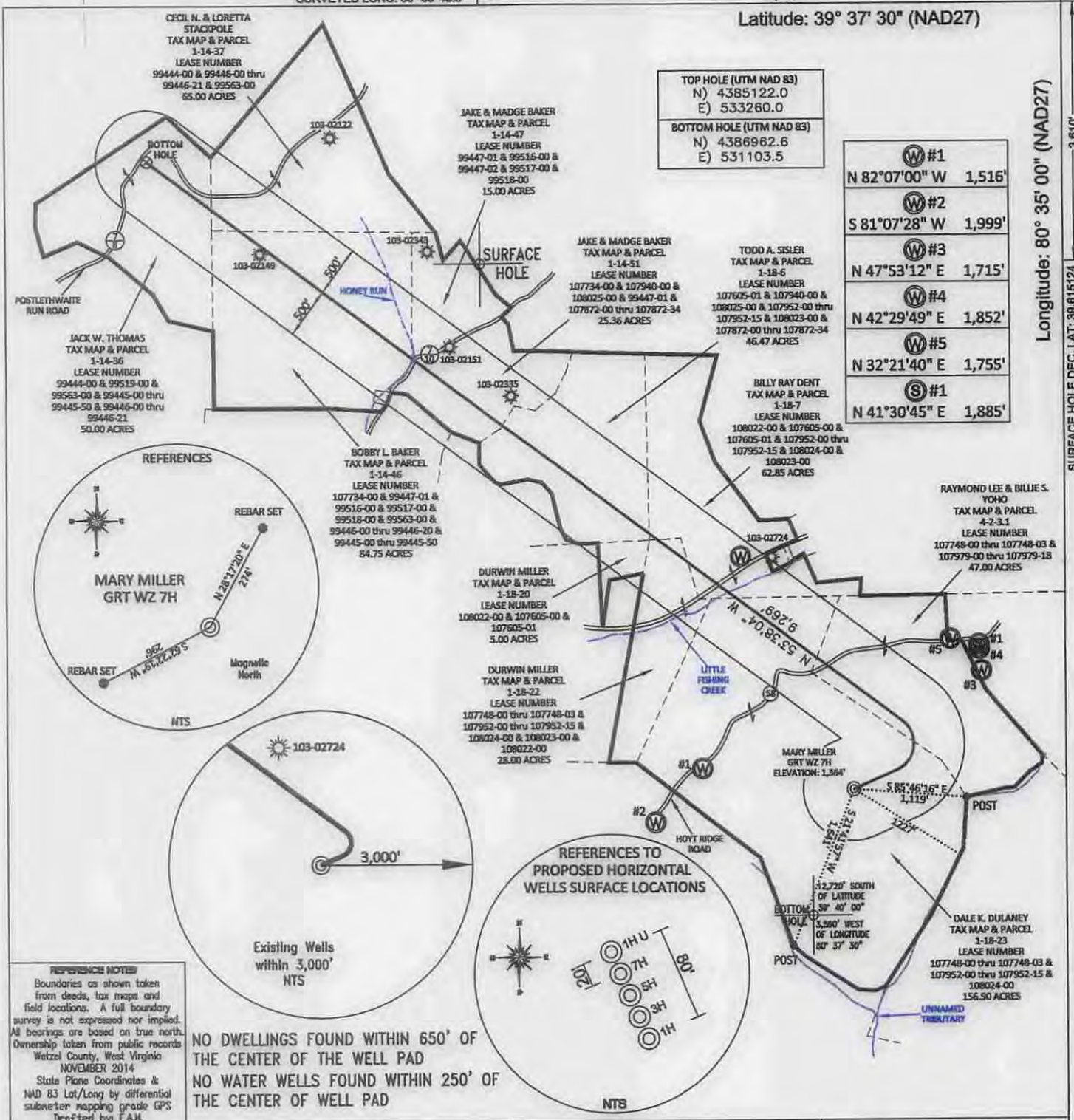
SURFACE HOLE DEC. LONG: 80.612709
SURVEYED LONG: 80° 36' 45.8"

8,280'

Latitude: 39° 37' 30" (NAD27)

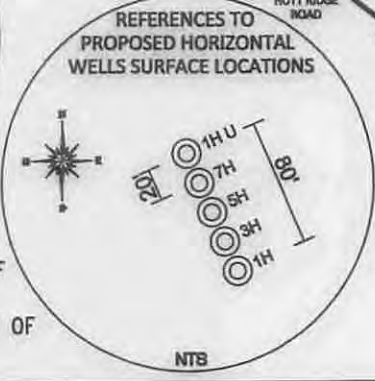
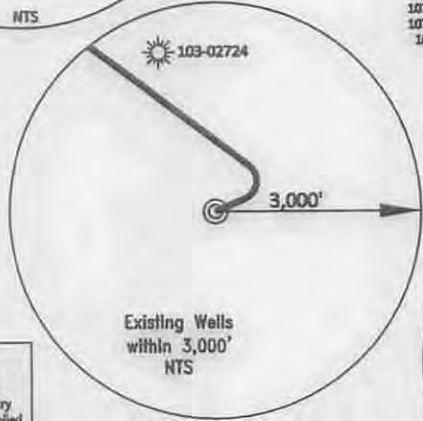
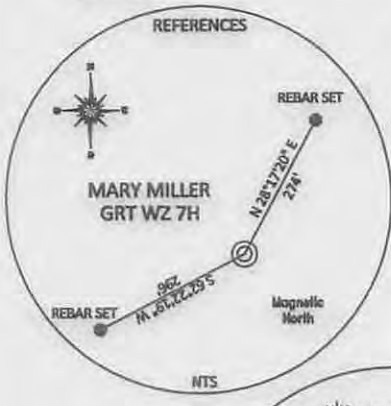
Longitude: 80° 35' 00" (NAD27)

SURFACE HOLE DEC. LAT: 39.615124
SURVEYED LAT: 39° 36' 54.4"



TOP HOLE (UTM NAD 83)
N) 4385122.0
E) 533260.0
BOTTOM HOLE (UTM NAD 83)
N) 4386962.6
E) 531103.5

W#1	N 82°07'00" W	1,516'
W#2	S 81°07'28" W	1,999'
W#3	N 47°53'12" E	1,715'
W#4	N 42°29'49" E	1,852'
W#5	N 32°21'40" E	1,755'
S#1	N 41°30'45" E	1,885'

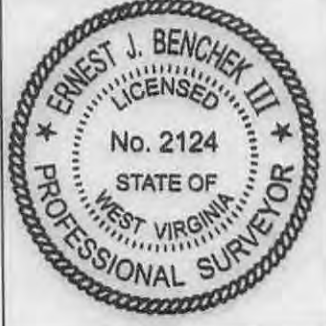


REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Wetzel County, West Virginia NOVEMBER 2014. State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS. Drafted by EAJ.

NO DWELLINGS FOUND WITHIN 650' OF THE CENTER OF THE WELL PAD
NO WATER WELLS FOUND WITHIN 250' OF THE CENTER OF WELL PAD

FILE #: AE001
DRAWING #: 2457
SCALE: PLAT - 1" = 1400'
TICK MARK - 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
Signed: *[Signature]*
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: FISHING CREEK
COUNTY/DISTRICT: WETZEL / CENTER
SURFACE OWNER: DALE K. DULANEY
OIL & GAS ROYALTY OWNER: PATSY G. FISH, ARTHUR R. & JOAN E. MILLER, CONNIE S. WHITE, KEITH R. MOORE
LEASE NUMBERS:

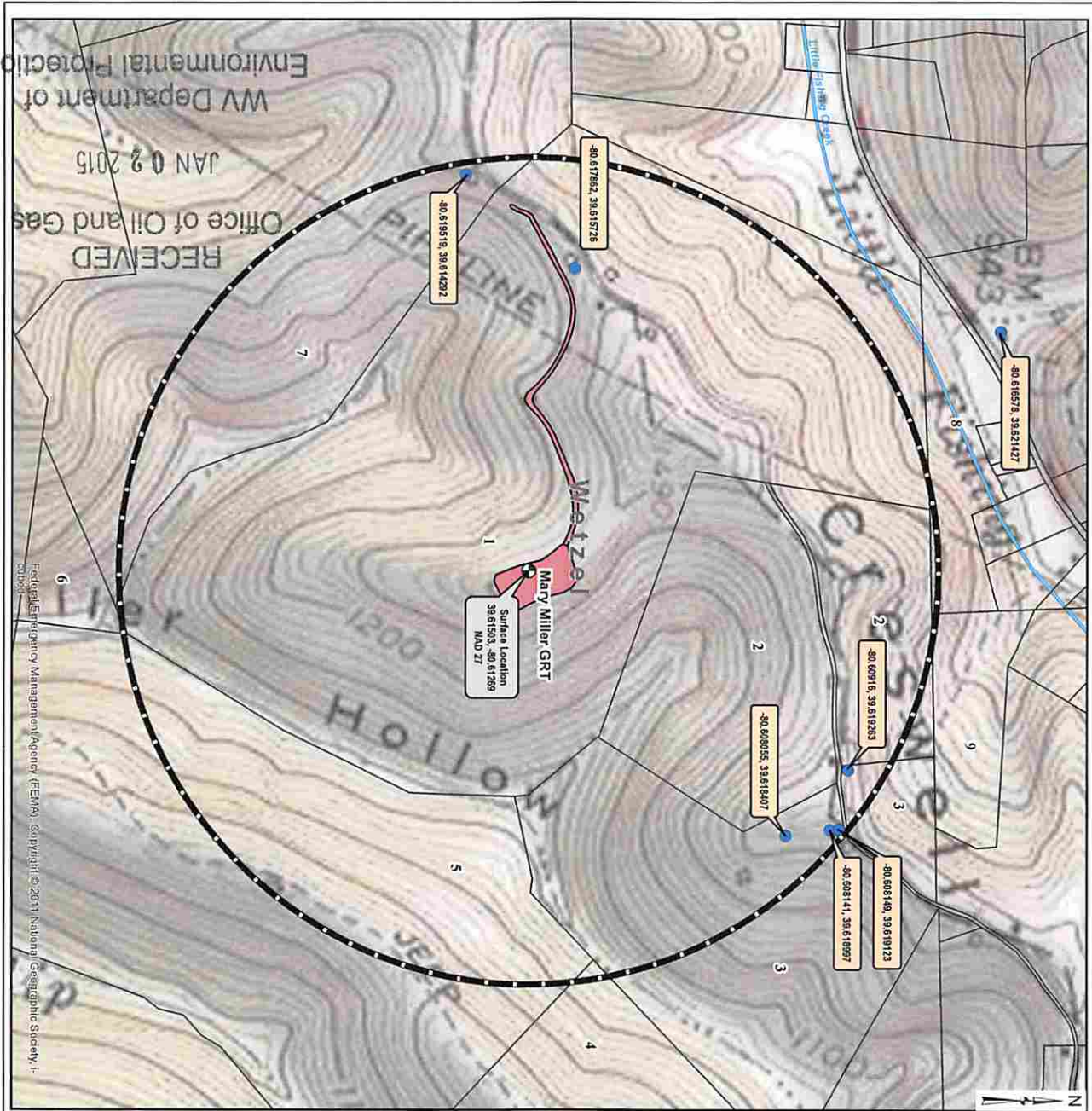
DATE: FEBRUARY 23, 2015
OPERATOR'S WELL #: MARY MILLER GRT WZ 7H
API WELL #: 47 103 03073HLoA
STATE COUNTY PERMIT

ASBUILT ELEVATION: 1,364'
QUADRANGLE: BIG RUN, WV
ACREAGE: 156.90 +/-
ACREAGE: 564.33 +/-

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 7,439' TMD: 17,650'
WELL OPERATOR: American Energy-Marcellus LLC.
DESIGNATED AGENT: Eric B. Gillespie
ADDRESS: 3501 NW 63rd Street
ADDRESS: 103 Taryn Lane
CITY: Oklahoma City STATE: OK ZIP CODE: 73116
CITY: Cross Lanes STATE: WV ZIP CODE: 25513

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

03/06/2015



RECEIVED
Office of Oil and Gas
JAN 02 2015
WV Department of
Environmental Protection

Federal Emergency Management Agency (FEMA) | @Copyright © 2011 National Geographic Society | 1-2008

PROPERTY DATA	
PROPERTY ID	PARCEL NO.
1	01 20000000
2	04 20000000
3	01 20000000
4	04 20000000
5	04 20000000
6	04 20000000
7	01 20000000
8	01 20000000
9	01 20000000

PROPERTY ID	PARCEL NO.	OWNER ADDRESS
1	01 20000000	STATE ENERGY & DEVELOPMENT
2	04 20000000	AMERICAN ENERGY UTICA
3	01 20000000	AMERICAN ENERGY UTICA
4	04 20000000	AMERICAN ENERGY UTICA
5	04 20000000	AMERICAN ENERGY UTICA
6	04 20000000	AMERICAN ENERGY UTICA
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6	04 20000000	AMERICAN ENERGY UTICA
7	01 20000000	AMERICAN ENERGY UTICA
8	01 20000000	AMERICAN ENERGY UTICA
9	01 20000000	AMERICAN ENERGY UTICA

Legend:

- Water Well Location WV
- ⊕ AEU Surface Location
- AEU Testing Radius (2007)
- Miller Well Pad NAD03
- Miller Access Road NAD03
- Streams and Rivers
- 100 Year Flood Zone
- Wetzel County Parcel Line
- WV County Lines

Scale:

250 0 250 500 Feet

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WATER SAMPLING FIELD MAP

MARY MILLER WELL PAD
WETZEL COUNTY, WV

**AMERICAN ENERGY
UTICA**

REVISIONS	DATE	DESCRIPTION

ISSUE
EXHIBIT
DATE: 12.03.2014
JOB NO.: 151003
DRAWN: CHD
SHEET NO: 1