



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-051-01136 WELL NO.: MC-47A

FARM NAME: Hanson

RESPONSIBLE PARTY NAME: Murray Energy Corporation

COUNTY: Marshall DISTRICT: Cameron

QUADRANGLE: Cameron, WV 7.5'

SURFACE OWNER: David L. & Christina M. Hanson

ROYALTY OWNER: _____

UTM GPS NORTHING: 4412664.01 (1387.05')

UTM GPS EASTING: 538230.48 GPS ELEVATION: 422.77

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential _____

Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____

Real-Time Differential _____

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Jeffrey A. Muggione
Signature

Well Permitting Manager
Title

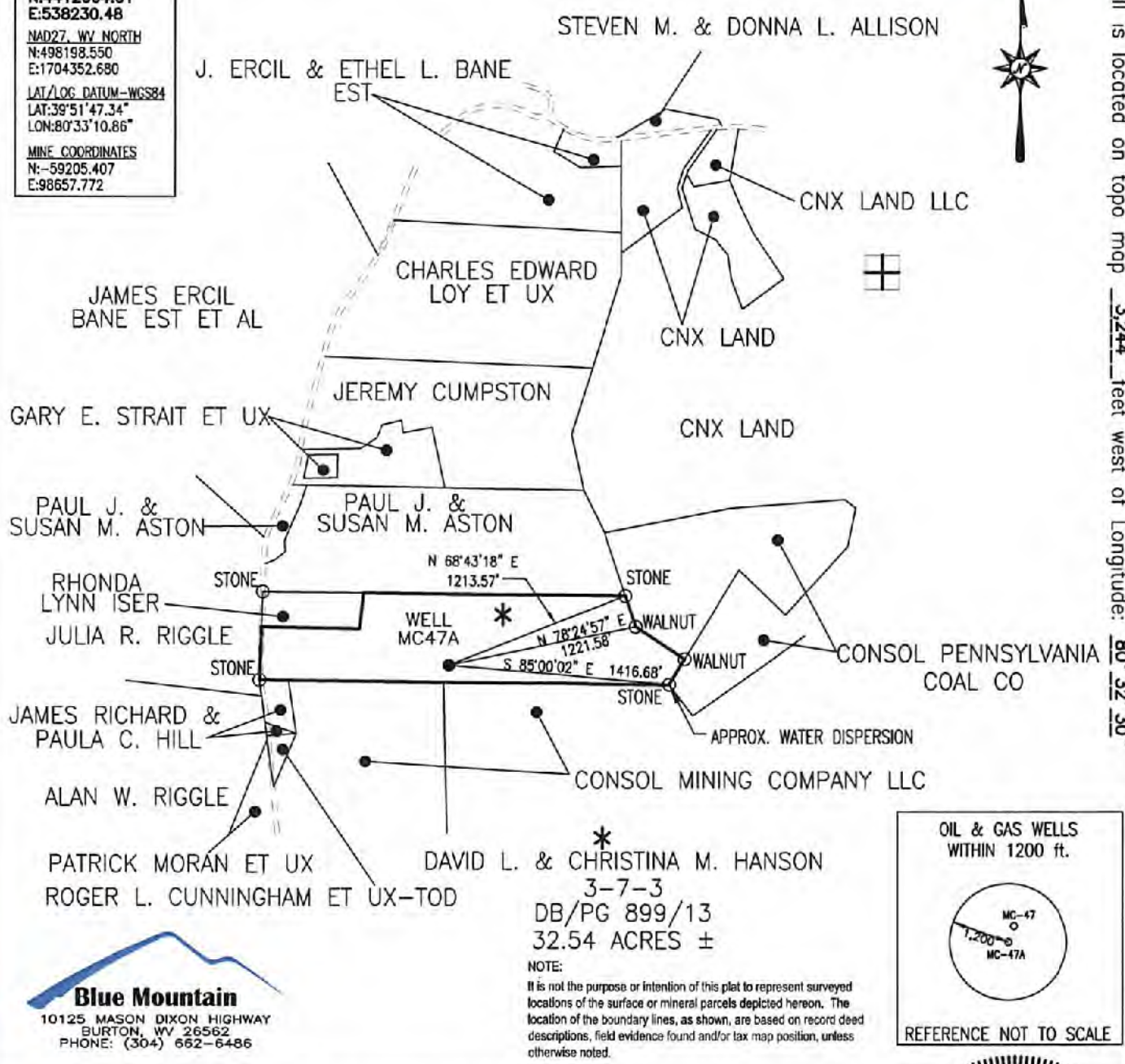
20 December 2018
Date

47-051-0136P

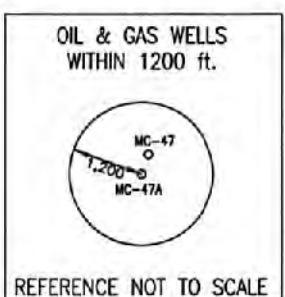
Well is located on topo map 4,367' feet south of Latitude: 39° 52' 30"

WELL LOCATION
UTM 17-NAD83
 N:4412664.01
 E:538230.48
 NAD27, WV NORTH
 N:498198.550
 E:1704352.680
 LAT/LOG DATUM-WGS84
 LAT:39°51'47.34"
 LON:80°33'10.86"
 MINE COORDINATES
 N:-59205.407
 E:98657.772

Well is located on topo map 3,244' feet west of Longitude: 80° 32' 30"



Blue Mountain
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486



NOTE:
 It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

FILE #: MC-47A
 DRAWING #: MC-47A
 SCALE: 1" = 1000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



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



DATE: DECEMBER 20, 2018
 OPERATOR'S WELL #: MC-47A
 API WELL #: 47 51 01136 P
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1387.05'

COUNTY/DISTRICT: MARSHALL / CAMERON QUADRANGLE: CAMERON, WV 7.5'

SURFACE OWNER: DAVID L. & CHRISTINA M. HANSON ACREAGE: 32.54±

OIL & GAS ROYALTY OWNER: _____ ACREAGE: _____

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

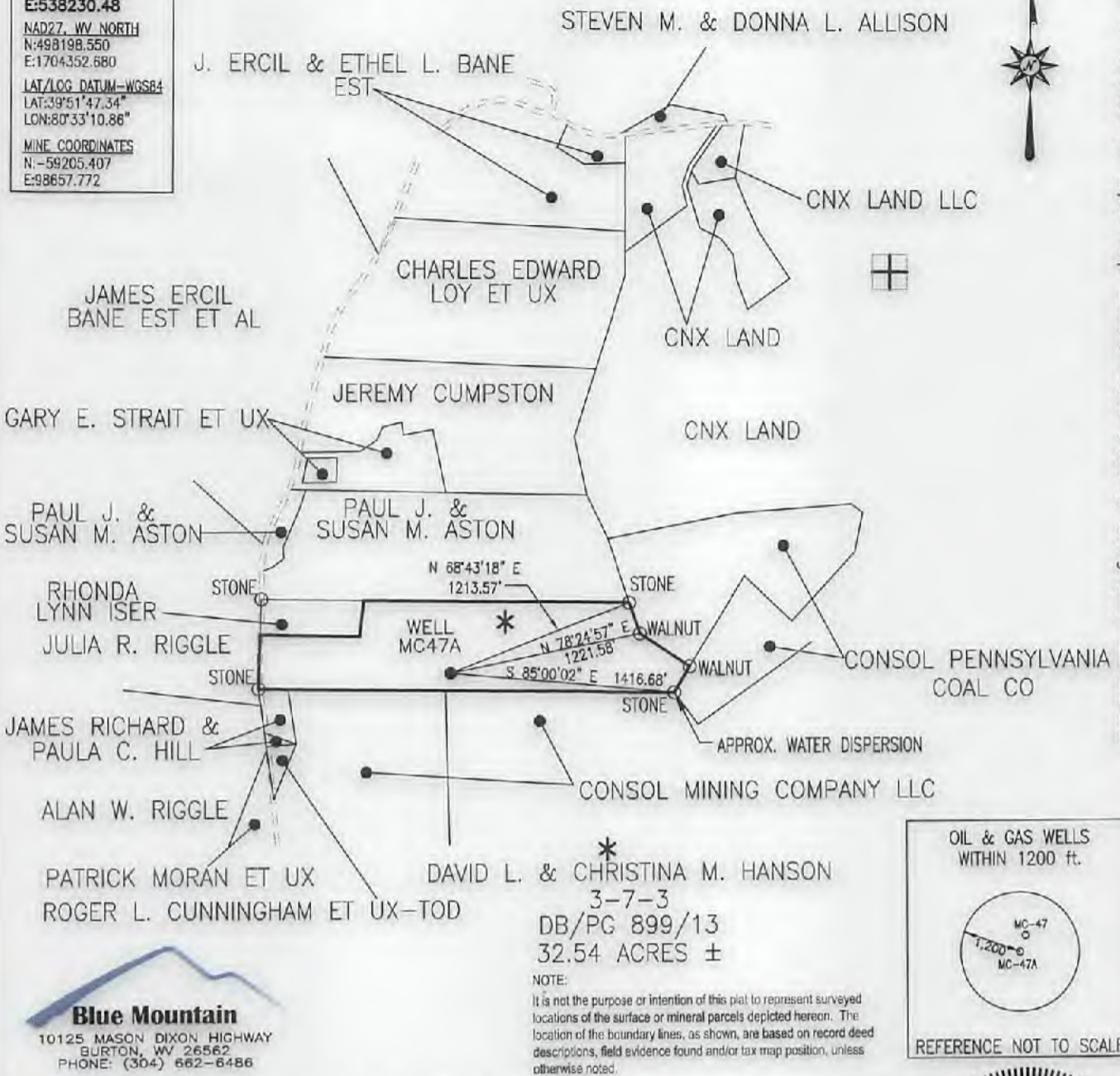
TARGET FORMATION: PITTSBURGH ESTIMATED DEPTH: 905'±

WELL OPERATOR MURRAY ENERGY CORPORATION DESIGNATED AGENT DAVID RODDY
 Address 6126 ENERGY DRIVE Address 6126 ENERGY DRIVE
 City MOUNDSVILLE State WV Zip Code 26041 City MOUNDSVILLE State WV Zip Code 26041

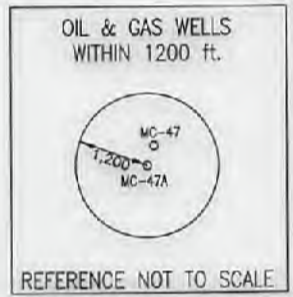
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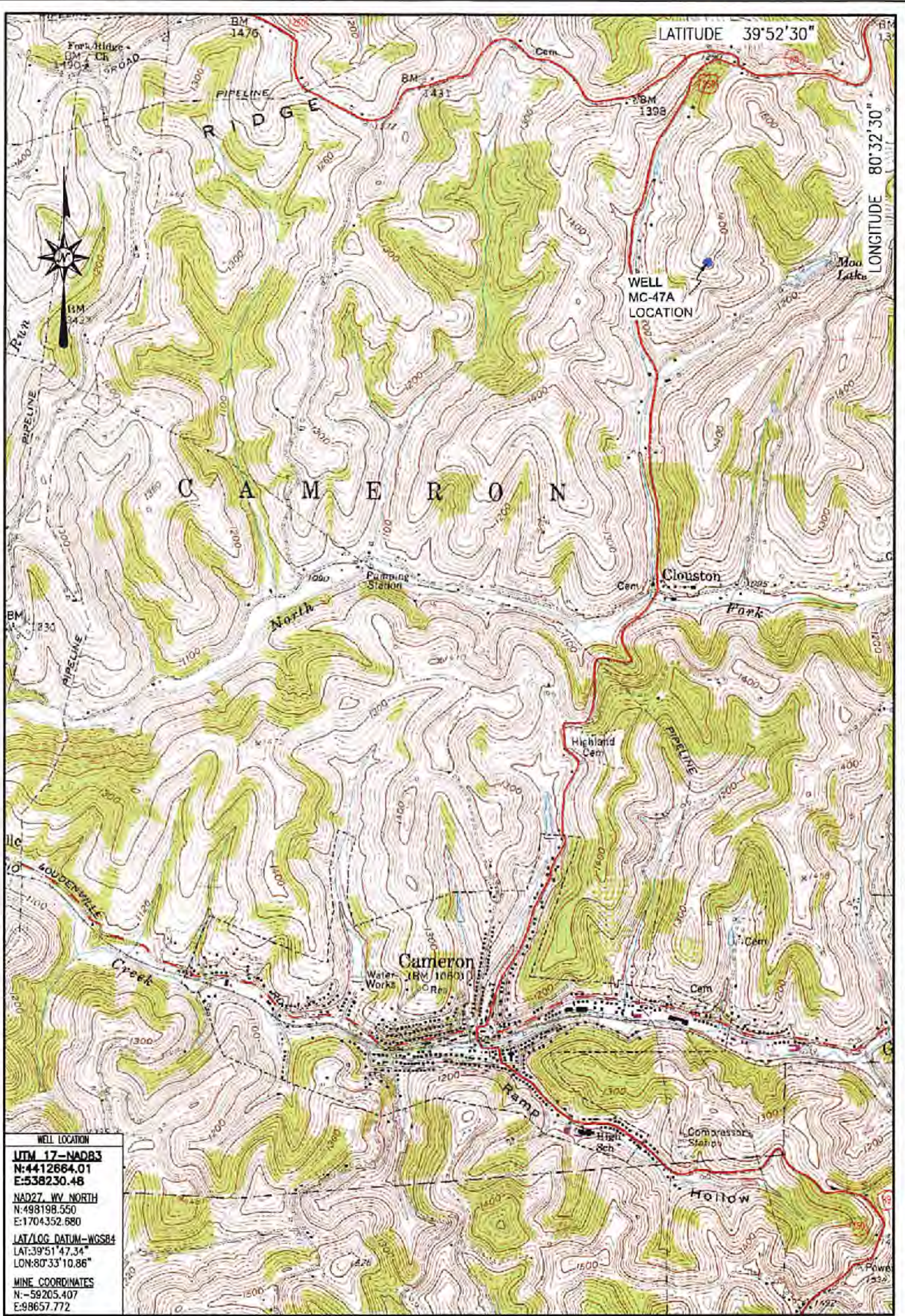
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MC-47A
 CAMERON QUADRANGLE
 WEST VIRGINIA

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