

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-051-01088 WELL NO.: MC-45

FARM NAME: Bonar

RESPONSIBLE PARTY NAME: Murray Energy Corporation

COUNTY: Marshall DISTRICT: Cameron

QUADRANGLE: Cameron, WV 7.5'

SURFACE OWNER: Charles H. Bonar Jr. - Life & Larry R. Bonar

ROYALTY OWNER: _____

UTM GPS NORTHING: 4413224.66

UTM GPS EASTING: 535468.10 GPS ELEVATION: 417.95

RECEIVED
Office of Oil and Gas

MAR 14 2019

WV Department of
Environmental Protection

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 _____

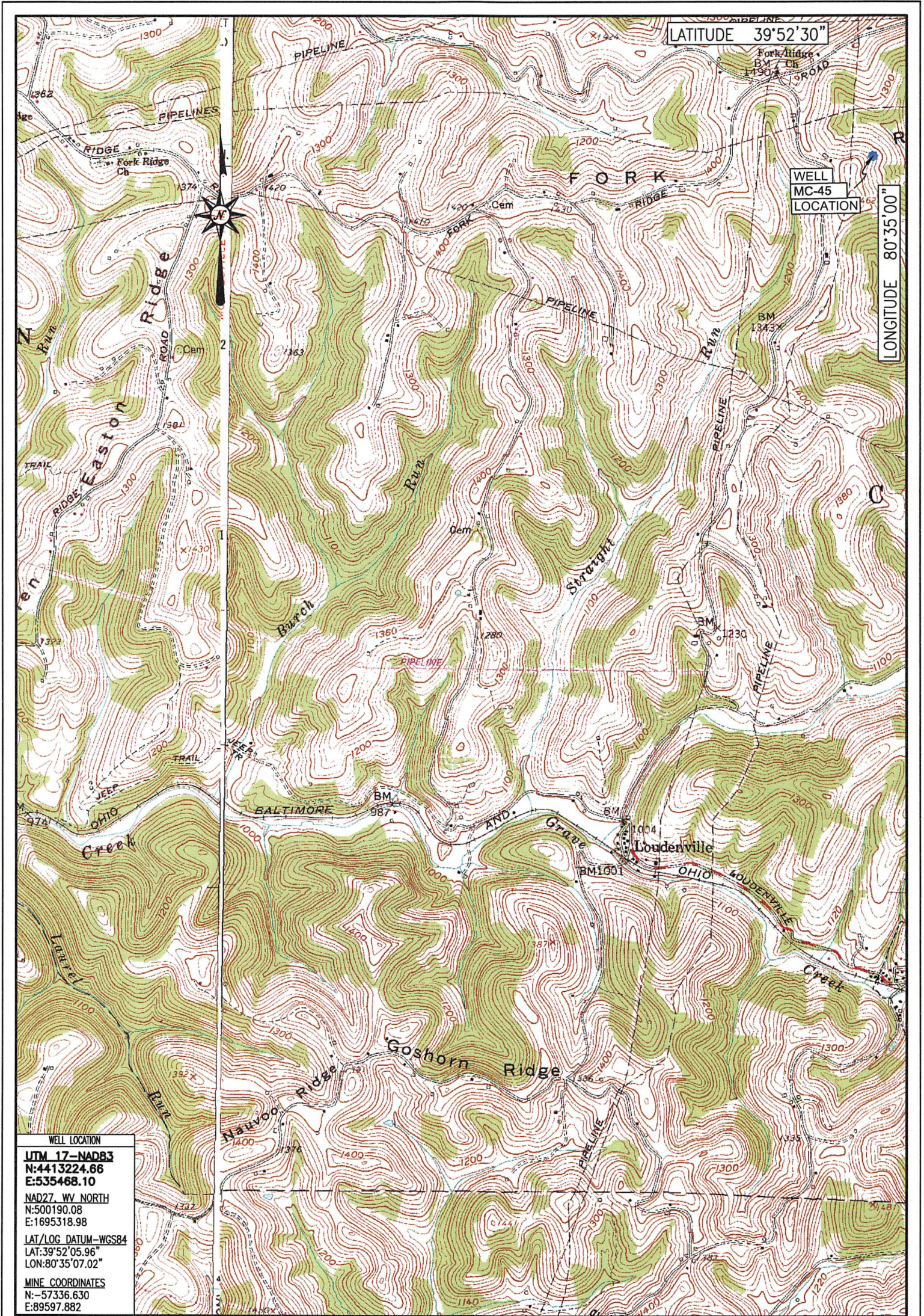
4. **Letter size copy of the topography map showing the well location.**

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 D. Musgrave
Signature

Well Permitting Manager
Title

20 December 2018
Date

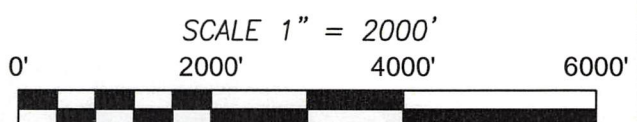


WELL LOCATION
 UTM 17-NAD83
 N:4413224.66
 E:535468.10
 NAD27, WV NORTH
 N:500190.08
 E:1695318.98
 LAT/LOG DATUM-WGS84
 LAT:39°52'05.96"
 LON:80°35'07.02"
 MINE COORDINATES
 N:-57336.630
 E:89597.882

LOCATION MAP
 DECEMBER 20, 2018

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

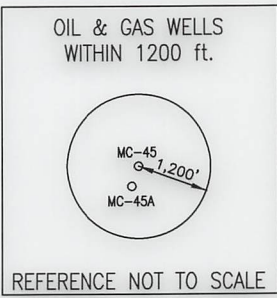
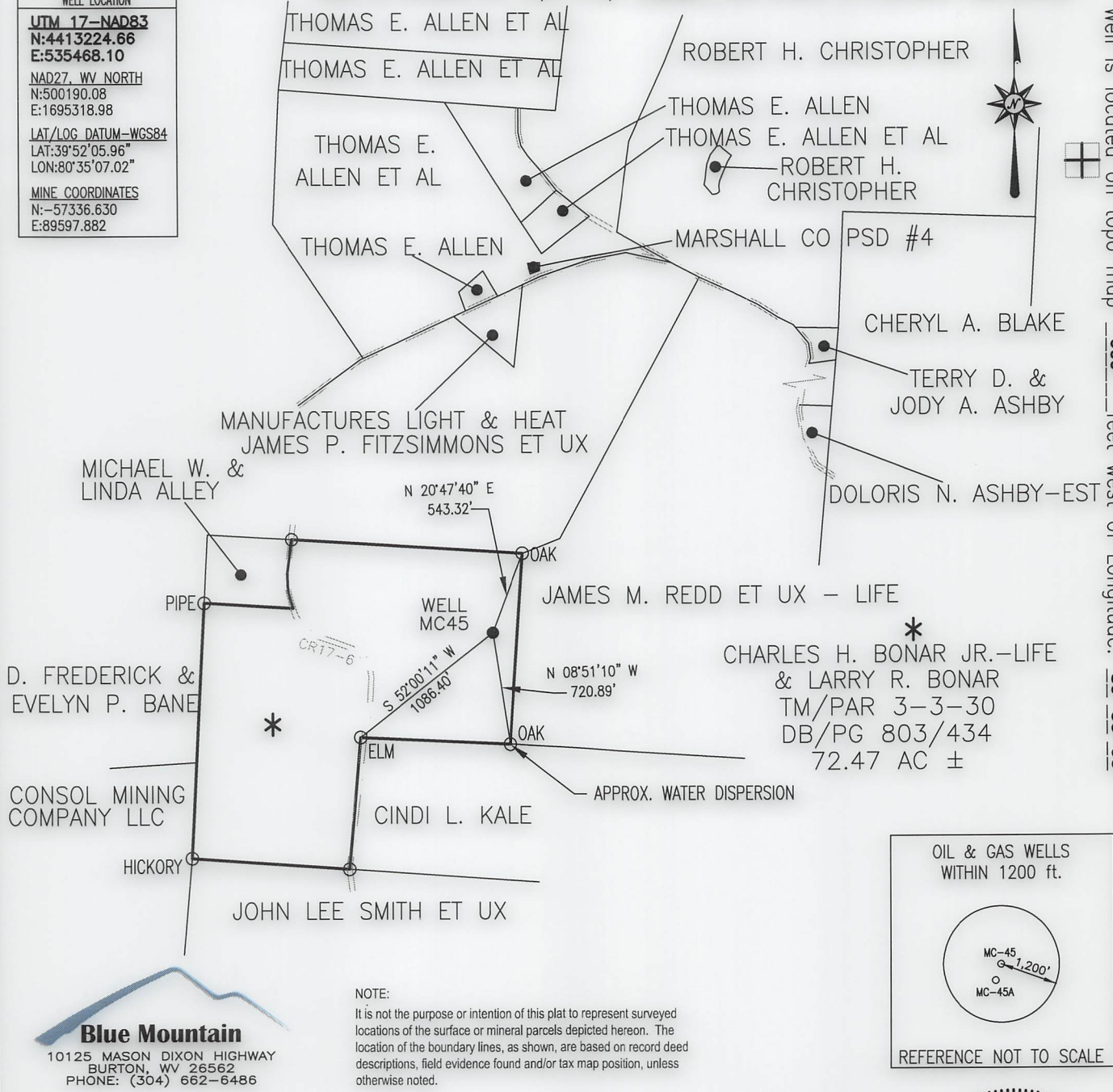
MC-45
 CAMERON QUADRANGLE
 WEST VIRGINIA



WELL LOCATION
UTM 17-NAD83
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Well is located on topo map 2,489 feet south of Latitude: 39° 52' 30"

Well is located on topo map 609 feet west of Longitude: 80° 35' 00"



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

FILE #: MC-45
 DRAWING #: MC-45
 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

GEORGE D. SIX
LICENSED
No. 2000
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR
 PLACE SEAL HERE

(+) 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-45
 API WELL #: 47 51 01088CP
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1371.24'

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

SURFACE OWNER: CHARLES H. BONAR JR. - LIFE & LARRY R. BONAR ACREAGE: 72.47±

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: 1182'±

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