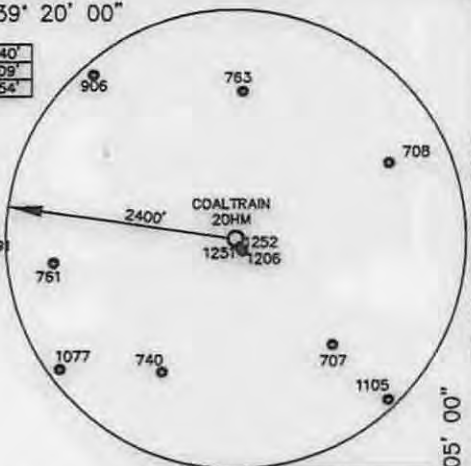


PDC MOUNTAINEER, LLC. WELL NO. COALTRAIN 20HM

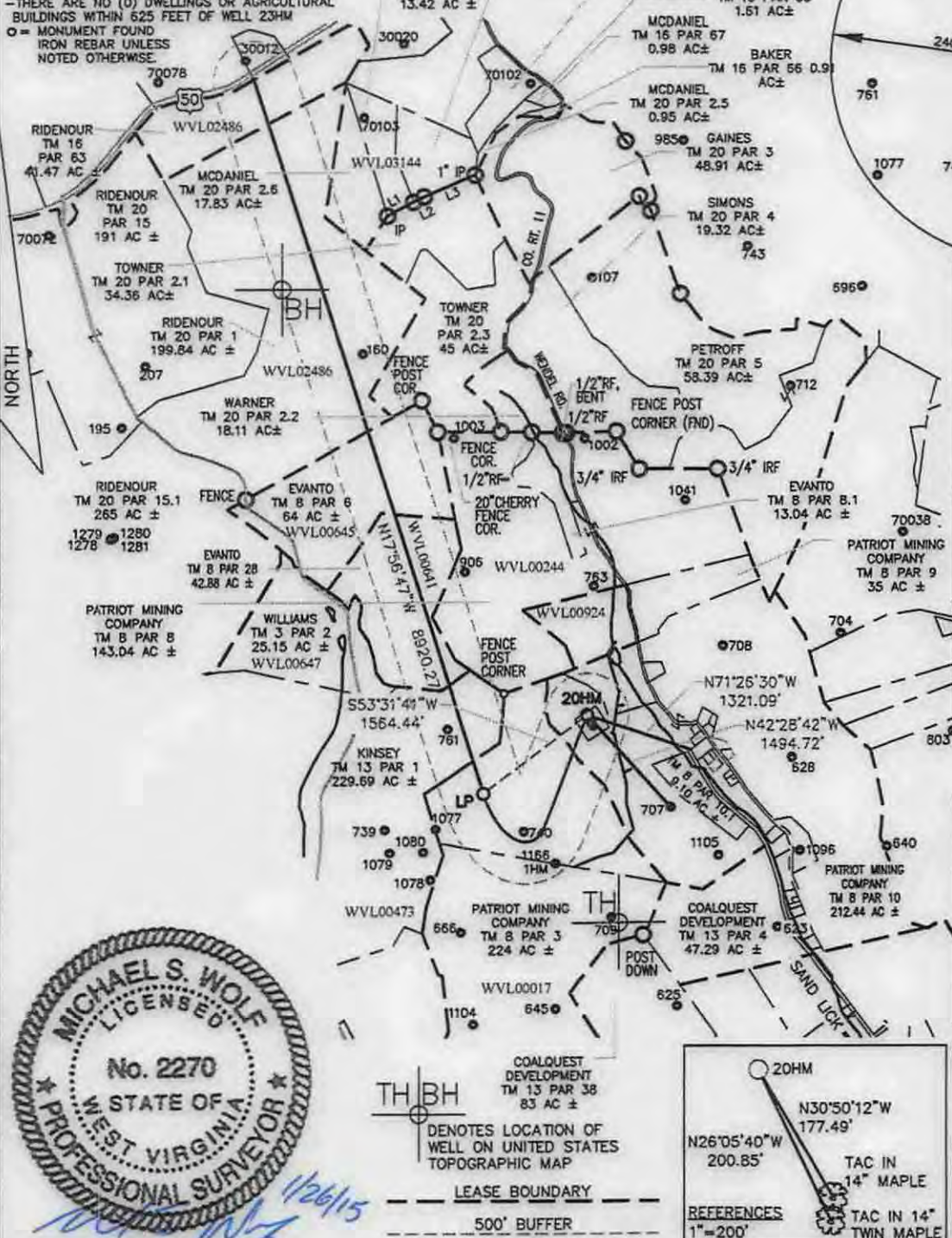
11,795' BOTTOM HOLE
LATITUDE 39° 20' 00"

NOTES:
 -PLAT ORIENTATION, CORNERS, AND WELL REFERENCES ARE BASED UPON THE GRID NORTH MERIDIAN FOR THE WV STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83. WELL LOCATION REFERENCE TIES ARE BASED UPON THE MAGNETIC MERIDIAN.
 -THERE ARE NO (O) WATER WELL(S) LOCATED WITHIN 250' OF WELL 20HM.
 -THERE ARE NO (D) DWELLINGS OR AGRICULTURAL BUILDINGS WITHIN 625 FEET OF WELL 23HM
 O = MONUMENT FOUND
 IRON REBAR UNLESS NOTED OTHERWISE.

L1	N61°43'49"E	356.40'
L2	N64°33'24"E	142.09'
L3	N67°01'21"E	671.54'



USER: alville NORTH LAYOUT: 20HM PLOT DATE/TIME: 1/26/2015 - 10:28am CAD FILE: L:\050-4915 PDC - Asbuilt Coaltrain Well Pad Wendel Rd in Taylor City\Survey\050-4915 CL TRAIN 20HM-21HM.dwg



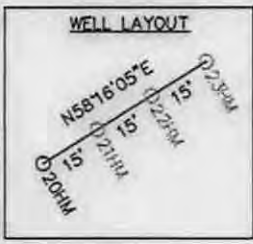
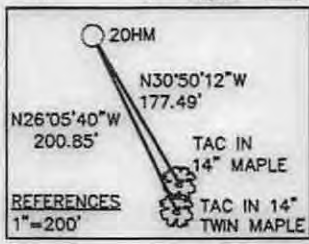
WELL NO. 20HM TOP HOLE
 STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
 N: 290968.066
 E: 1827203.087
 LAT: 39°17'50.493"
 LON: 80°06'37.365"
 UTM COORDINATES (NAD 83-METER)
 N: 4350152.904
 E: 576710.962

STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
 N: 290038.118
 E: 1825945.043
 LAT: 39°17'41.217"
 LON: 80°06'53.288"
 UTM COORDINATES (NAD 83-METER)
 N: 4349863.197
 E: 576332.375

WELL NO. 20HM BOTTOM HOLE
 STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
 N: 298590.95
 E: 1823174.85
 LAT: 39°19'05.56"
 LON: 80°07'29.28"
 UTM COORDINATES (NAD 83-METER)
 N: 4352454.899
 E: 575445.077



TH BH DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAP
 LEASE BOUNDARY
 500' BUFFER



Michael S. Wolf, P.S. 2270

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

FILE NO. 050-4915
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1 in 2500
 PROVEN SOURCE OF ELEVATION: OPUS SURVEY GRADE GPS

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

DATE JANUARY 26, 2015
 OPERATOR'S WELL NO. COALTRAIN NO. 20HM
 API WELL NO. 47 - 091 - 01287 M00
 STATE WV COUNTY TA PERMIT 01287 M00

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS"), PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: 1267.91' WATER SHED: SAND LICK RUN OF SIMPSON CREEK
 DISTRICT: COURTHOUSE COUNTY: TAYLOR
 QUADRANGLE: GRAFTON 7.5' ACREAGE: 212.44 AC±
 SURFACE OWNER: PATRIOT MINING COMPANY, INC. LEASE ACREAGE: 972.85 AC±
 OIL & GAS ROYALTY OWNER: GLEN C. LAREW ET AL LEASE NO. WVL00017 WVL00643 WVL00641 WVL00473 WVL02486



PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PERFORATE NEW FORMATION PLUG OFF OLD FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION: MARCELLUS SHALE ESTIMATED DEPTH: 7,675' TVD / 18,037' MD

WELL OPERATOR: PDC MOUNTAINEER, LLC DESIGNATED AGENT: STEVE JOHNSON
 ADDRESS: 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330 ADDRESS: 120 GENESIS BOULEVARD BRIDGEPORT, WV 26330

01/30/2015