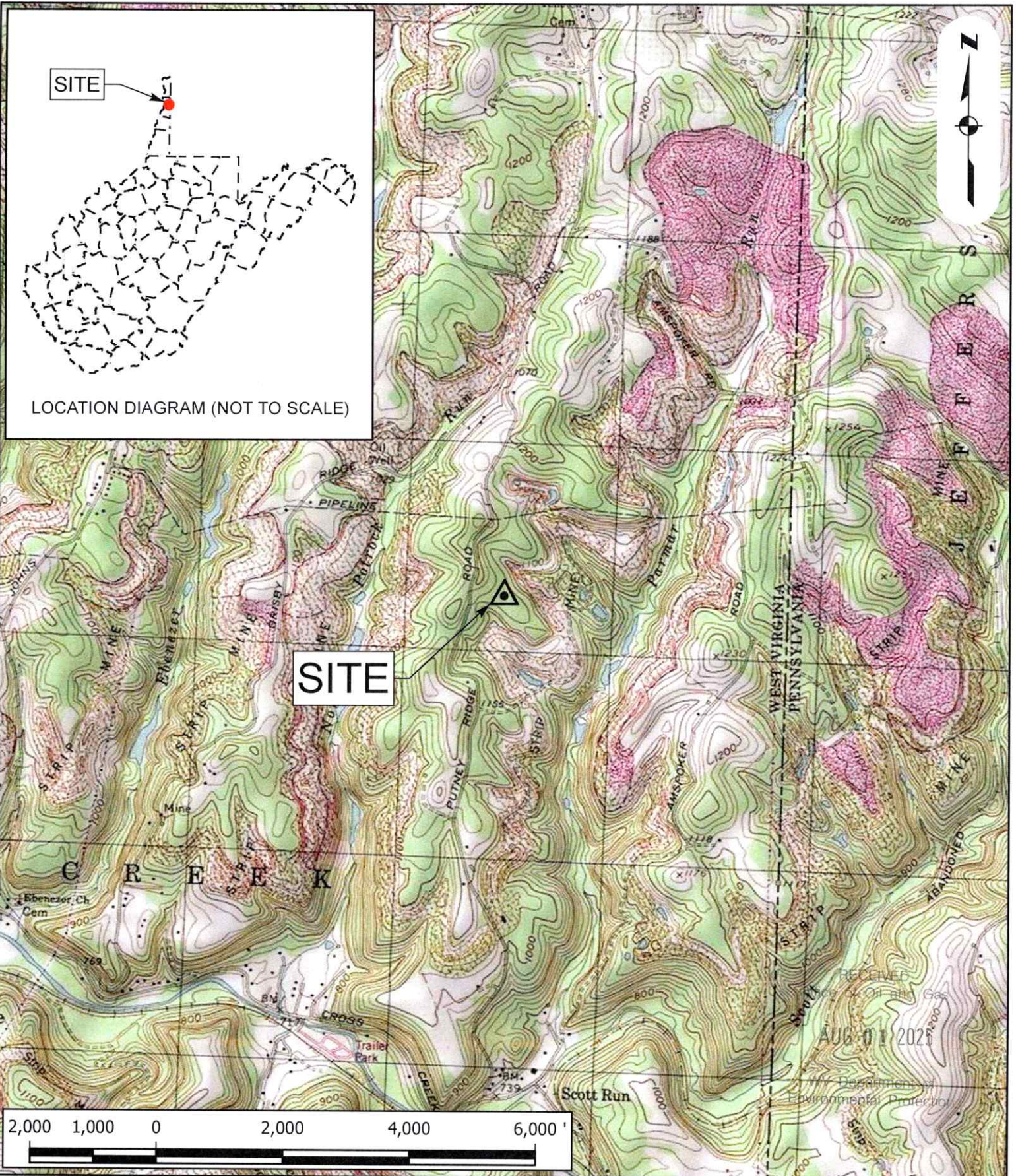




USGS LOCATION MAP
PREPARED FOR
STATE OF WV DNR A BRK 3H
BROOKE COUNTY, WEST VIRGINIA
STEBENVILLE EAST USGS QUAD

PROJECT -	STATE OF WV DNR A BRK 3H
DATE -	7/18/2025
SCALE -	1" = 2,000'
DRAWN -	MWS
FILE -	USGS_LOCATION_MAP.mxd

 **JHA** SURVEYING
ENGINEERING
ENVIRONMENTAL
ARCHITECTURE

08/22/2025
(844) 542-4757



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

API: 47-009-00147 WELL NO.: 3H
FARM NAME: STATE OF WV DNR A BRK
RESPONSIBLE PARTY NAME: EXPAND OPERATING LLC
COUNTY: BROOKE DISTRICT: CROSS CREEK
QUADRANGLE: STEUBENVILLE E
SURFACE OWNER: STATE OF WV, DEPT OF COMMERCE, DNR
ROYALTY OWNER: STATE OF WV, DEPT OF COMMERCE, DNR
UTM GPS NORTHING: 4463496.8
UTM GPS EASTING: 539495.3 GPS ELEVATION: 1140'

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 X : Post Processed Differential X

Real-Time Differential _____

Mapping Grade GPS _____ : Post Processed Differential _____

Real-Time Differential _____

RECEIVED
Office of Oil and Gas

AUG 01 2025

West Virginia Department of
Environmental Protection

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.

Signature

REGULATORY SPECIALIST
Title

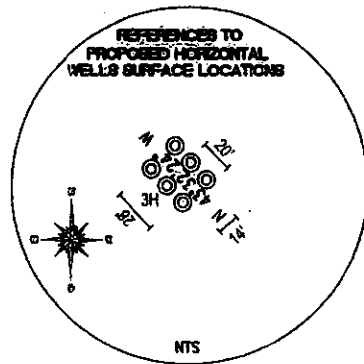
7/17/2025
Date

08/22/2025

TOP HOLE (NAD 83) N) 664976.8 E) 1679861.8 LAT.) 40°19'15.8" LONG.) 80°32'06.4" DEC. LAT.) 40.321063 DEC. LONG.) 80.535123	BOTTOM HOLE (NAD 83) N) 672031.7 E) 1676086.0 LAT.) 40°20'25.1" LONG.) 80°32'56.3" DEC. LAT.) 40.340307 DEC. LONG.) 80.548958
TOP HOLE (NAD 83) N) 664939.6 E) 1711295.9 LAT.) 40°19'15.6" LONG.) 80°32'07.2" DEC. LAT.) 40.320994 DEC. LONG.) 80.535331	BOTTOM HOLE (NAD 83) N) 671994.6 E) 1707520.2 LAT.) 40°20'24.9" LONG.) 80°32'57.0" DEC. LAT.) 40.340237 DEC. LONG.) 80.549165

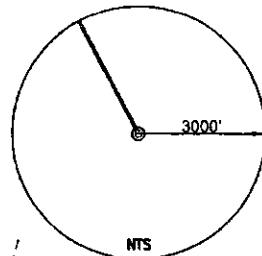
TH (UTM-NAD 83) N) 4463496.8 E) 539495.3
BOTTOM HOLE (UTM-NAD 83) N) 4465626.7 E) 538309.0

ROBERT J. &
DEBORAH L. CRISS
42.64 TOTAL ACRES
LEASE NUMBER
47-000840-001
47-000840-002
47-000840-003
47-000840-004
TAX MAP AND PARCEL
CC150-30



JOSEPH A. JR. &
TRACY BIRMINGHAM
10.545 TOTAL ACRES
LEASE NUMBER
47-001068-001
47-001068-002
47-001068-003
47-001068-004
TAX MAP AND PARCEL
CC150-30.2

GENRLING REEO
FAMILY TRUST
40 TOTAL ACRES
LEASE NUMBER
1-324508-000
TAX MAP AND PARCEL
CC16-32



LARRY E. REED
40.0 TOTAL ACRES
LEASE NUMBER
1-324492-000
TAX MAP AND PARCEL
CC15-68.1

DENNIS, JR AND
ANNA PALFALVY
33 TOTAL ACRES
LEASE NUMBER
47-001029-000
TAX MAP AND PARCEL
CC16-5

BUREAU OF THE STATE OF WV
63.110 TOTAL ACRES
LEASE NUMBER
1-342967-000
TAX MAP AND PARCEL
CC16-7

BUREAU OF THE
STATE OF WV
94.555 TOTAL ACRES
LEASE NUMBER
1-324527-000
TAX MAP AND PARCEL
CC16-6

STATE OF
WV DNR A
BRK 3H

PARMAR
RUN CREEK

PUTNEY
RIDGE ROAD

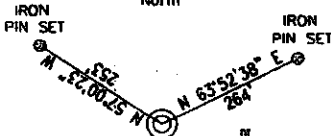
NORTH POTROCK
RUN CREEK

S 16°07'14" E
1,058'

S 54°03'12" E
2,282'

REFERENCES

Magnetic North



STATE OF
WV DNR A
BRK 3H

NTS

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 Brooke County, West Virginia MARCH 2012 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping/grade-GPS Drafted by: E.A.M.

FILE #: CHE 094

DRAWING #: 2019

SCALE: 1" = 1600'

MINIMUM DEGREE

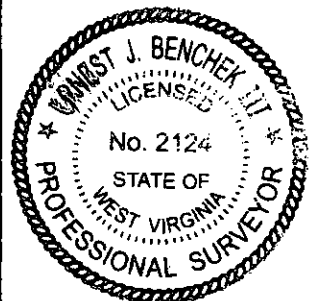
OF ACCURACY: 1/200

PROVEN SOURCE SUBMETER MAPPING
OF ELEVATION: 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:

L.L.S. #2124: Ernest J. Benckek 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: UPPER OHIO SOUTH

ELEVATION: 1,140'

COUNTY/DISTRICT: BROOKE / CROSS CREEK

QUADRANGLE: STEUBENVILLE EAST, WV.

SURFACE OWNER: STATE OF WEST VIRGINIA DNR

ACREAGE: 63.11 +/-

OIL & GAS ROYALTY OWNER: STARVAGGI INDUSTRIES INC

ACREAGE: 323.85 +/-

LEASE NUMBERS:

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

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 5,720' TMD: 13,517'

WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC.

DESIGNATED AGENT: ERIC GILLESPIE

ADDRESS: PO BOX 18496

ADDRESS: PO BOX 6070

CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496

CITY: CHARLESTON STATE: WV ZIP CODE: 25362

08/22/2025