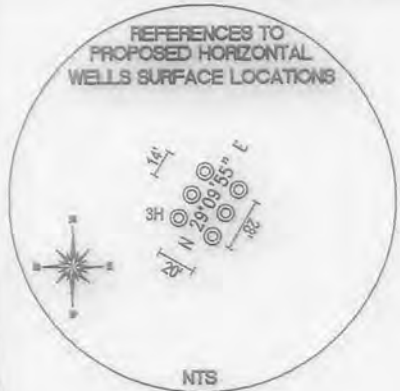


REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



RANDY L. OR VANESSA J. COLLINS
1.071 TOTAL ACRES
TAX MAP AND PARCEL
B43-49.1

GENE C. VALENTINE
53.21 TOTAL ACRES
TAX MAP AND PARCEL
B43-49.3
LEASE NUMBER
1-324548-000
DEED BOOK/PAGE
10/118

SAMUEL AND MELANIE DONINI
17.89 TOTAL ACRES
TAX MAP AND PARCEL
B43-57

SURFACE HOLE

WV ST OF DEPT OF COMM DIV. OF NAT.
178.5 TOTAL ACRES
TAX MAP AND PARCEL
B43-62
LEASE NUMBER
1-342635-000
DEED BOOK/PAGE
15/239

ANDREW P. HOGAN
85.57 TOTAL ACRES
TAX MAP AND PARCEL
B48-34
LEASE NUMBER
1-324081-000
DEED BOOK/PAGE
9/852

ANDREW P. HOGAN
41 TOTAL ACRES
TAX MAP AND PARCEL
B48-35
LEASE NUMBER
1-324079-000
DEED BOOK/PAGE
9/849

BETHANY COLLEGE
882.26 ACRES
PARCEL ID
B38-31
LEASE NUMBER
1-342632-001
DEED BOOK/PAGE
15/242

GENE C. VALENTINE
669.774 ACRES
PARCEL ID
B43-28
LEASE NUMBER
1-324546-000
DEED BOOK/PAGE
10/124

RANDY L. OR VANESSA J. COLLINS
0.594 TOTAL ACRES
TAX MAP AND PARCEL
B43-49.2

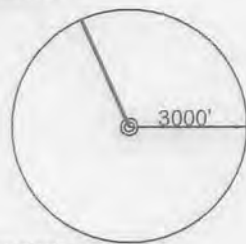
TOP HOLE (UTM 83)
N) 4448143.7
E) 539388.5
BOTTOM HOLE (UTM 83)
N) 4449774.0
E) 538629.6

TOP HOLE (NAD 83)
N) 614599.6
E) 1678666.4
LAT.) 40°10'57.9"
LONG.) 80°32'14.4"
DEC. LAT.) 40.182751
DEC. LONG.) 80.537324

TOP HOLE (NAD 27)
N) 614562.4
E) 1710100.6
LAT.) 40°10'57.6"
LONG.) 80°32'15.1"
DEC. LAT.) 40.182679
DEC. LONG.) 80.537531

BOTTOM HOLE (NAD 83)
N) 619991.3
E) 1676265.9
LAT.) 40°11'50.9"
LONG.) 80°32'46.1"
DEC. LAT.) 40.197474
DEC. LONG.) 80.546139

BOTTOM HOLE (NAD 27)
N) 619954.2
E) 1707700.2
LAT.) 40°11'50.6"
LONG.) 80°32'46.8"
DEC. LAT.) 40.197402
DEC. LONG.) 80.546348



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 JULY 2011
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

FILE #: CHE 084
DRAWING #: 1718
SCALE: 1"=2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE: 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:
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 Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER OHIO SOUTH

COUNTY/DISTRICT: BROOKE/BUFFALO QUADRANGLE: BETHANY

SURFACE OWNER: ANDREW P. HOGAN ACREAGE: 41.00 +/-
OIL & GAS ROYALTY OWNER: ANDREW P. HOGAN ACREAGE: 429.56 +/-
LEASE NUMBERS:

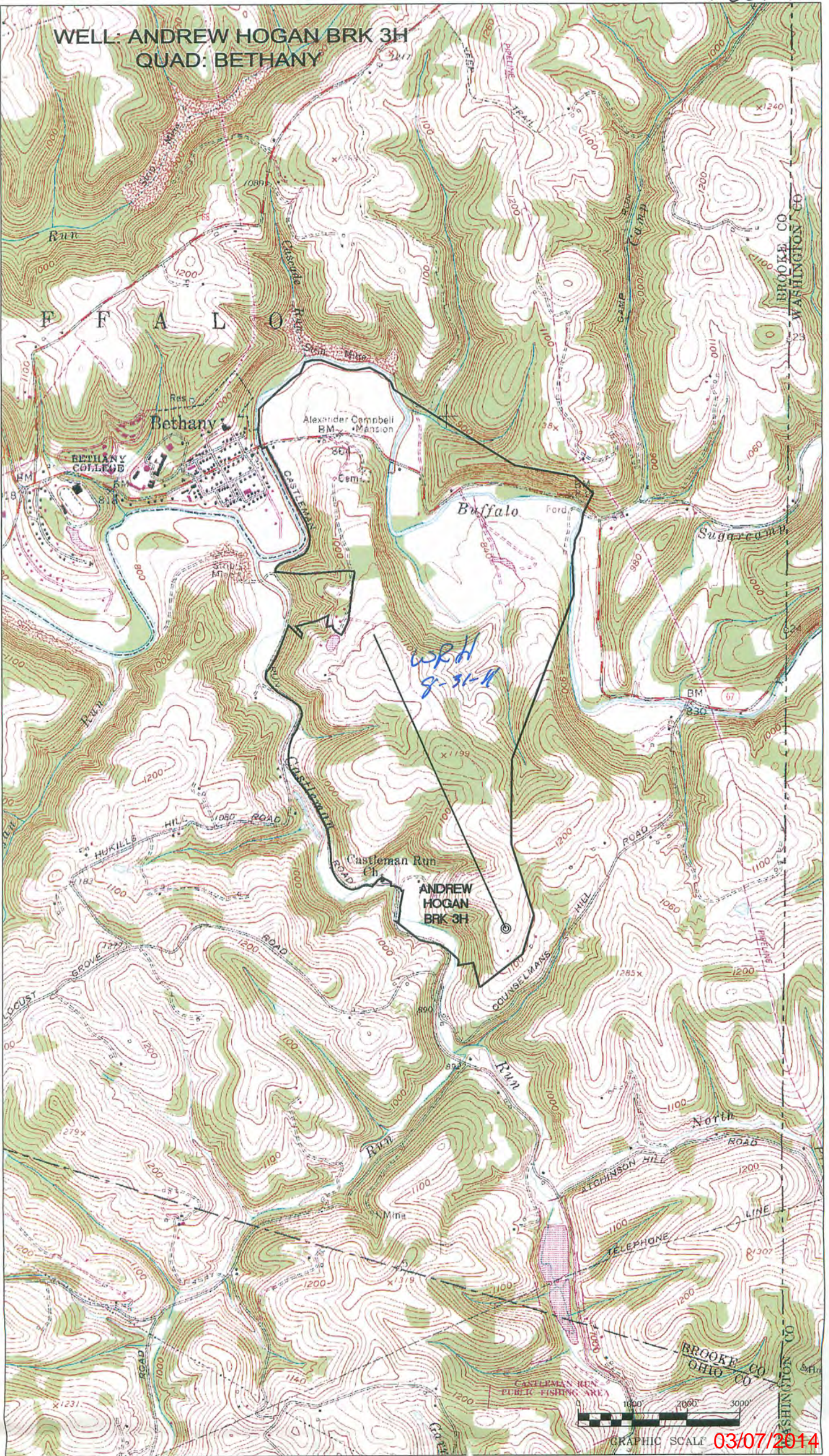
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,000' TMD: 11,902'
WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC B. GILLESPIE
ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070
CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: NOVEMBER 28, 2011
OPERATOR'S WELL #: ANDREW HOGAN BRK 3H
API WELL #: 47 09 00117H
STATE COUNTY PERMIT
CANCELLED
ELEVATION: 1,160'

03/07/2014

WELL: ANDREW HOGAN BRK 3H
QUAD: BETHANY





west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

March 05, 2014

FINAL INSPECTION REPORT

Horizontal Well Permit Cancelled

CHESAPEAKE APPALACHIA, L.L.C.,

The FINAL INSPECTION REPORT for the CANCELLED permit, API Well Number: 47-900117, issued to CHESAPEAKE APPALACHIA, L.L.C., and listed below has been received in this office. The permit has been cancelled as of 3/4/2014.

James Martin
Chief

Operator: CHESAPEAKE APPALACHIA, L.L.C.
Operator's Well No: ANDREW HOGAN BRK 3H
Farm Name: HOGAN, ANDREW P.
API Well Number: 47-900117
Date Issued: 02/07/2012

Date Cancelled: 03/04/2014

Promoting a healthy environment.

03/07/2014