

**TOP HOLE (UTM 83)**  
N) 4444309.3  
E) 536908.7  
**BOTTOM HOLE (UTM 83)**  
N) 4442467.7  
E) 537853.9

**MICHAELS T. RATCLIFFE**  
55.835 TOTAL ACRES  
LEASE NUMBER  
1-272775-000  
TAX MAP AND PARCEL  
L5-12.4

**TRAVIS C. RATCLIFFE**  
46.25 TOTAL ACRES  
LEASE NUMBER  
1-272775-000  
TAX MAP AND PARCEL  
L5-12

**MICHAEL RATCLIFFE**  
OHI 8H

**JOHN WEITZEL**  
.807 TOTAL ACRES  
LEASE NUMBER  
1-345172-000  
TAX MAP AND PARCEL  
L5-12.3

**DONALD D. PRINCE**  
63.3 TOTAL ACRES  
DEED BOOK / PAGE  
826/391  
TAX MAP AND PARCEL  
L5-24

**SUSAN AND RICHARD SMITH**  
12.00 ACRES  
DEED BOOK / PAGE  
771/355  
PARCEL ID  
L5-23.1

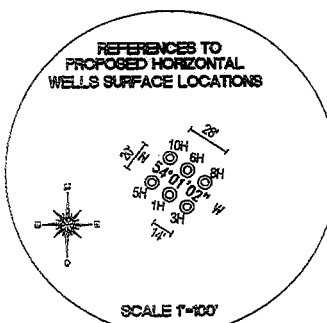
**EDWARD AND ELIZABETH LINK**  
55.406 ACRES  
LEASE NUMBER  
1-324749-000  
PARCEL ID  
L5-22

**JASON AND RACHEL MILLER**  
12.00 ACRES  
LEASE NUMBER  
1-268400-000  
PARCEL ID  
L5-23.3

**GEORGE F. SMITH**  
146 TOTAL ACRES  
TAX MAP AND PARCEL  
L5-27

**DALE AND JACKIE RITCHEA**  
18.00 TOTAL ACRES  
LEASE NUMBER  
1-324687-000  
TAX MAP AND PARCEL  
L5-23.2

**REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS**



**EDWARD AND ELIZABETH LINK**  
18.52 ACRES  
LEASE NUMBER  
1-324749-000  
PARCEL ID  
L5-23.7

**WALTER A. JR. AND MONA DEE KNOLLINGER**  
80 ACRES  
DEED BOOK / PAGE  
778/773  
PARCEL ID  
L5-23.4

**DONALD AND DEBORAH WADDEL**  
11.21 TOTAL ACRES  
LEASE NUMBER  
1-324183-000  
TAX MAP AND PARCEL  
L5-23.6

**DONALD AND DEBORAH WADDEL**  
55.75 ACRES  
LEASE NUMBER  
1-324183-000  
PARCEL ID  
L5-23

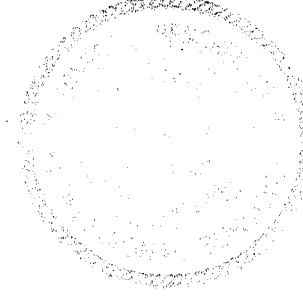
**BERNARD AND MARJORIE RAAB**  
52.5 ACRES  
DEED BOOK / PAGE  
776/258  
PARCEL ID  
L8-7

**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 Ohio County, West Virginia JUNE 2011  
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS  
Drafted by: E.A.M.

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|---|--|
| <b>TOP HOLE (NAD 83)</b><br>N) 602153.1<br>E) 1670318.0<br>LAT.) 40°08'53.9"<br>LONG.) 80°34'00.0"<br>DEC. LAT.) 40.148319<br>DEC. LONG.) 80.566871 | <b>BOTTOM HOLE (NAD 83)</b><br>N) 596057.7<br>E) 1673318.5<br>LAT.) 40°07'54.1"<br>LONG.) 80°33'20.5"<br>DEC. LAT.) 40.131685<br>DEC. LONG.) 80.555683 |
| <b>TOP HOLE (NAD 27)</b><br>N) 602116.0<br>E) 1701752.5<br>LAT.) 40°08'53.7"<br>LONG.) 80°34'00.8"<br>DEC. LAT.) 40.148246<br>DEC. LONG.) 80.566877 | <b>BOTTOM HOLE (NAD 27)</b><br>N) 596020.7<br>E) 1704752.9<br>LAT.) 40°07'53.8"<br>LONG.) 80°33'21.2"<br>DEC. LAT.) 40.131612<br>DEC. LONG.) 80.555688 |

FILE #: CHE 040  
DRAWING #: 1539  
SCALE: 1"=1200'  
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. Benchek III



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

DATE: NOVEMBER 28, 2011  
OPERATOR'S WELL #: MICHAEL RATCLIFFE OHI 8H  
API WELL #: 47 69 60103H  
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,285'  
COUNTY/DISTRICT: OHIO/LIBERTY QUADRANGLE: BETHANY WV.  
SURFACE OWNER: MICHAEL T. RATCLIFFE ACREAGE: 55.835 +/-  
OIL & GAS ROYALTY OWNER: MICHAEL T. RATCLIFFE ACREAGE: 264.588 +/-  
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: 6,325' TVD: 12,914'  
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

WELL: MICHAEL RATCLIFFE OHI 8H  
QUAD: BETHANY WV

