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| <p><b>TOP HOLE BMD 80</b></p> <p>N) 552942.7<br/>                 E) 1656231.9<br/>                 LAT.) 40°00'45.9"<br/>                 LONG.) 80°36'53.3"<br/>                 DEC. LAT.) 40.012770<br/>                 DEC. LONG.) 80.614871</p> | <p><b>TP BMD 80</b></p> <p>N) 552749.6<br/>                 E) 1657440.0<br/>                 LAT.) 40°00'44.2"<br/>                 LONG.) 80°36'38.0"<br/>                 DEC. LAT.) 40.012281<br/>                 DEC. LONG.) 80.610550</p>          |
| <p><b>TOP HOLE BMD 27</b></p> <p>N) 552905.9<br/>                 E) 1687666.8<br/>                 LAT.) 40°00'45.7"<br/>                 LONG.) 80°36'54.3"<br/>                 DEC. LAT.) 40.012696<br/>                 DEC. LONG.) 80.615073</p> | <p><b>TP BMD 27</b></p> <p>N) 552712.8<br/>                 E) 1688874.8<br/>                 LAT.) 40°00'43.9"<br/>                 LONG.) 80°36'38.7"<br/>                 DEC. LAT.) 40.012207<br/>                 DEC. LONG.) 80.610752</p>          |
| <p><b>GFP BMD 80</b></p> <p>N) 553204.4<br/>                 E) 1657232.3<br/>                 LAT.) 40°00'48.7"<br/>                 LONG.) 80°36'40.7"<br/>                 DEC. LAT.) 40.013522<br/>                 DEC. LONG.) 80.611311</p>      | <p><b>BOTTOM HOLE BMD 80</b></p> <p>N) 546774.3<br/>                 E) 1660167.8<br/>                 LAT.) 39°59'45.5"<br/>                 LONG.) 80°36'02.0"<br/>                 DEC. LAT.) 39.995971<br/>                 DEC. LONG.) 80.600551</p> |
| <p><b>GFP BMD 27</b></p> <p>N) 553167.6<br/>                 E) 1688667.2<br/>                 LAT.) 40°00'48.4"<br/>                 LONG.) 80°36'41.4"<br/>                 DEC. LAT.) 40.013448<br/>                 DEC. LONG.) 80.611514</p>      | <p><b>BOTTOM HOLE BMD 27</b></p> <p>N) 546737.5<br/>                 E) 1691602.7<br/>                 LAT.) 39°59'45.2"<br/>                 LONG.) 80°36'02.7"<br/>                 DEC. LAT.) 39.995897<br/>                 DEC. LONG.) 80.600753</p> |

**REFERENCE LINES**

RL #1  
 S 80°55'03" E 1,223'

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

FILE #: CHE 031  
 DRAWING #: 1819  
 SCALE: 1" = 2000'  
 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: *[Signature]*  
 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 ELEVATION: 1,270'  
 COUNTY/DISTRICT: MARSHALL / SANDHILL QUADRANGLE: VALLEY GROVE, WV.  
 SURFACE OWNER: MICHAEL S. SOUTHWORTH ACREAGE: 166.26 +/-  
 OIL & GAS ROYALTY OWNER: MICHAEL S. SOUTHWORTH ACREAGE: 756.96 +/-  
 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: 6,416' TMD: 13,391'  
 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: 25304

DATE: SEPTEMBER 21, 2011  
 OPERATOR'S WELL #: MICHAEL SOUTHWORTH MSH 10H  
 API WELL #: 47-51-01511H  
 STATE COUNTY PERMIT  
**CANCELLED**

04/18/2014