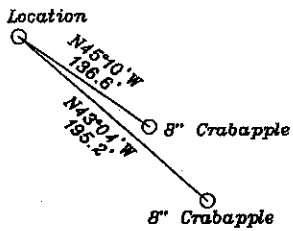
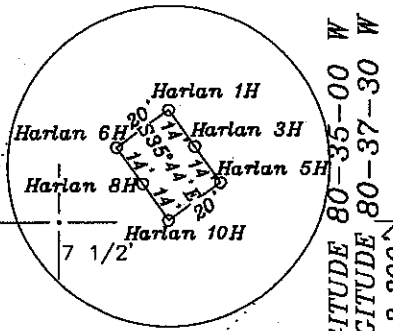


References

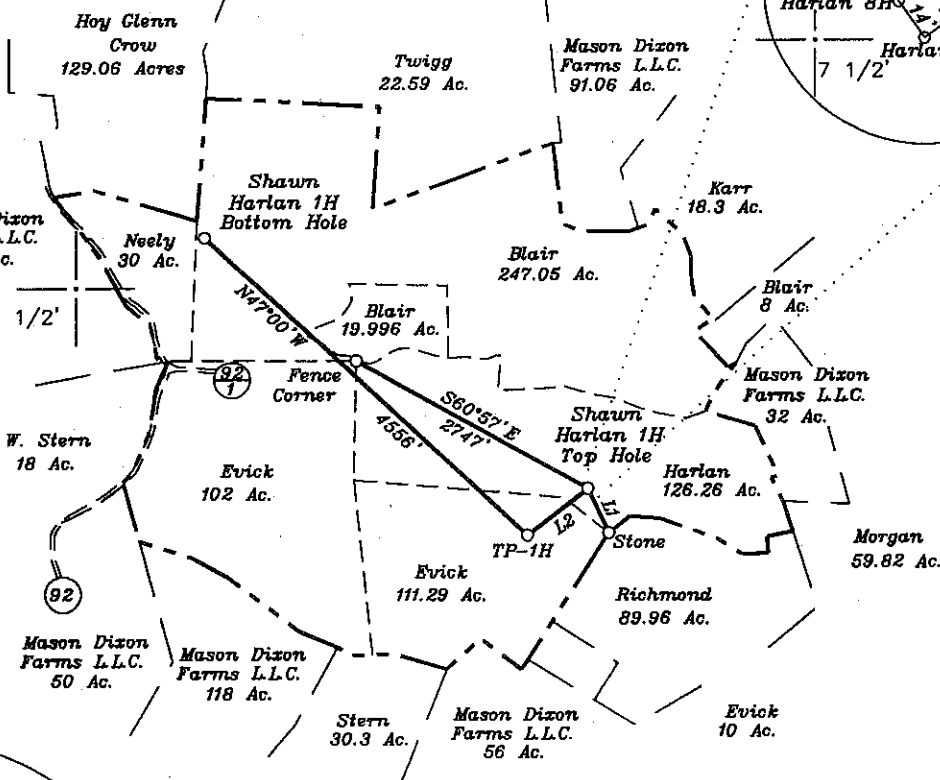


Notes: Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 27.

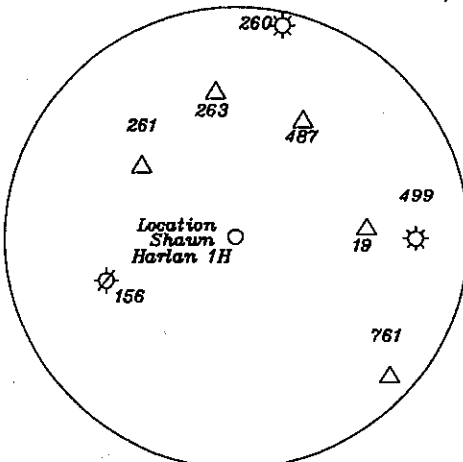
NUMBER	DIRECTION	DISTANCE
L1	N25°04'W	510'
L2	S52°23'W	794'



Top Hole LONGITUDE 80-35-00 W  
 Bottom Hole LONGITUDE 80-37-30 W  
 Bottom Hole 3,200'  
 Top Hole 5,835'



NORTH

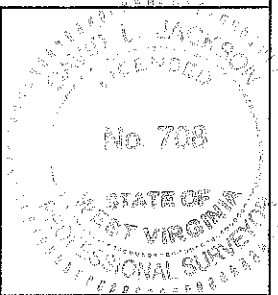


<b>Top Hole</b>
NAD 27-39.733804 N, 80.623496 W
State Plane NAD 27-451355.9 N. 1684037.2 E
<b>TP 1H</b>
NAD 27-39.732453 N, 80.625710 W
State Plane NAD 27-450872 N. 1683409 E
<b>Bottom Hole</b>
NAD 27-39.740868 N, 80.637696 W
State Plane NAD 27-453979 N. 1680077 E

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION GPS  
submeter unit

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 ENERGY.  
 (SIGNED) David G Jackson  
 R.P.E. \_\_\_\_\_ L.L.S. 708



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE January 26, 2010  
 OPERATOR'S WELL NO. Shawn Harlan  
 API WELL NO. 831159

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1,397' WATER SHED Laurel Run  
 DISTRICT Liberty COUNTY Marshall  
 QUADRANGLE Littleton 7 1/2'

SURFACE OWNER Scott Harlan and Shawn Harlan ACREAGE 126.26 ac.  
 OIL & GAS ROYALTY OWNER O. E. Burge et al LEASE ACREAGE 606.596 ac.  
 LEASE NO. 1251353, 1226242 & 1229115

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

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION Marcellus ESTIMATED DEPTH 7,183' + Horizontal Leg  
 WELL OPERATOR Chesapeake Appalachia, L.L.C. DESIGNATED AGENT James E. Grey  
 ADDRESS P.O. Box 18496 Oklahoma City, OK 73154-0496 ADDRESS P.O. Box 6070 Charleston, WV 25362

47 - 051 - 01317H  
 CANCELLED Revised