

Top Hole 11,341'

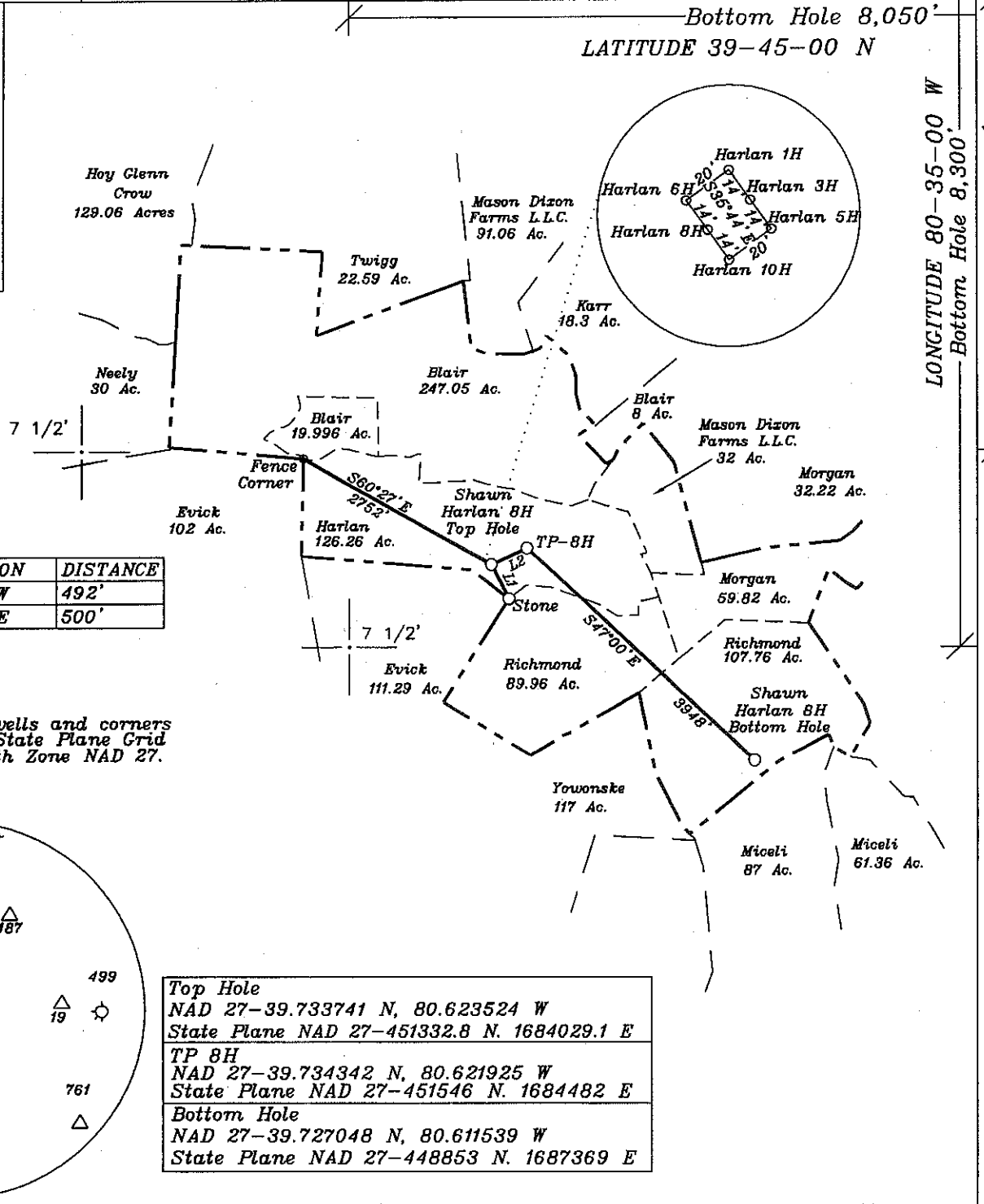
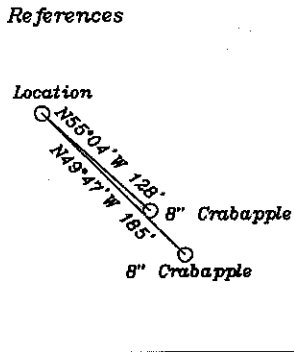
Bottom Hole 8,050'

LATITUDE 39-45-00 N

LONGITUDE 80-35-00 W

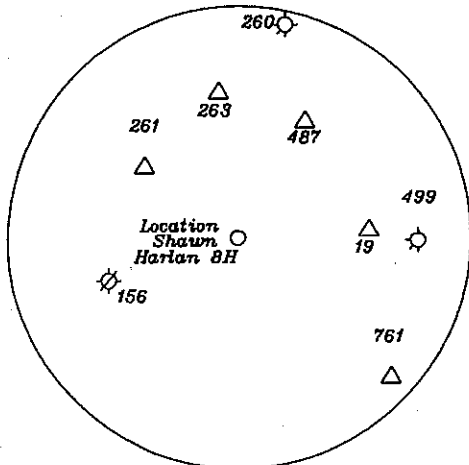
Bottom Hole 8,300'

Top Hole 5,813'



NUMBER	DIRECTION	DISTANCE
L1	N27°03' W	492'
L2	N64°45' E	500'

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



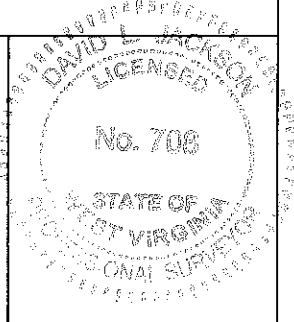
Top Hole	NAD 27-39.733741 N, 80.623524 W
	State Plane NAD 27-451332.8 N. 1684029.1 E
TP 8H	NAD 27-39.734342 N, 80.621925 W
	State Plane NAD 27-451546 N. 1684482 E
Bottom Hole	NAD 27-39.727048 N, 80.611539 W
	State Plane NAD 27-448853 N. 1687369 E

(+) 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 L 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. 831160

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 323.98 ac.
 LEASE NO. 1226242, 1281197 & 1225500

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 01319H
 STATE COUNTY PERMIT
CANCELLED Revised