

SURFACE HOLE	
STATE PLANE WV	NORTH/SOUTH ZONE NAD 1927
N - 681,855.80	E - 1,873,957.93
LATITUDE: (N) 38.8716753	LONGITUDE: (W) 81.4426801
UTM, NAD83	
17 - 84W TO 78W, METERS	
N - 4,302,638.903	E - 461,611.929
BOTTOM HOLE	
STATE PLANE WV	NORTH/SOUTH ZONE NAD 1927
N - 683,727.19	E - 1,871,083.46
LATITUDE: (N) 38.8767754	LONGITUDE: (W) 81.4528076
UTM, NAD83	
17 - 84W TO 78W, METERS	
N - 4,303,209.140	E - 460,736.169

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

FILE NO. HR-453A.DGN

DRAWING NO. HR-453

SCALE 1" = 1000'

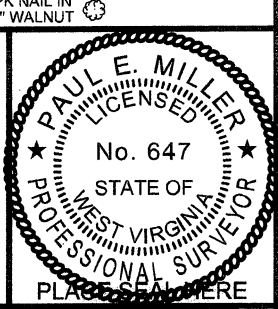
MINIMUM DEGREE OF ACCURACY 1:200

PROVEN SOURCE OF ELEVATION 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) Paul E. Miller

R.P.E. _____ L.L.S. 647



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE JULY 19, 20 11

OPERATOR'S WELL NO. HR-453A

API WELL NO. 47 087 04708H

STATE 47 COUNTY 087 PERMIT 04708H

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 705' WATER SHED SALTBLOCK RUN OF MIDDLE FORK
DISTRICT REEDY COUNTY ROANE
QUADRANGLE PENIEL, WV 7.5'

SURFACE OWNER ORLAND GREENLEAF et ux ACREAGE 160.11

OIL & GAS ROYALTY OWNER Orland Greenleaf et ux, et al LEASE ACREAGE 162.46
LEASE NO. _____

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 LOWER HURON ESTIMATED DEPTH 1800' MD; 4330' TUD

WELL OPERATOR HARD ROCK EXPLORATION, INC. DESIGNATED AGENT JAMES L. STEPHENS

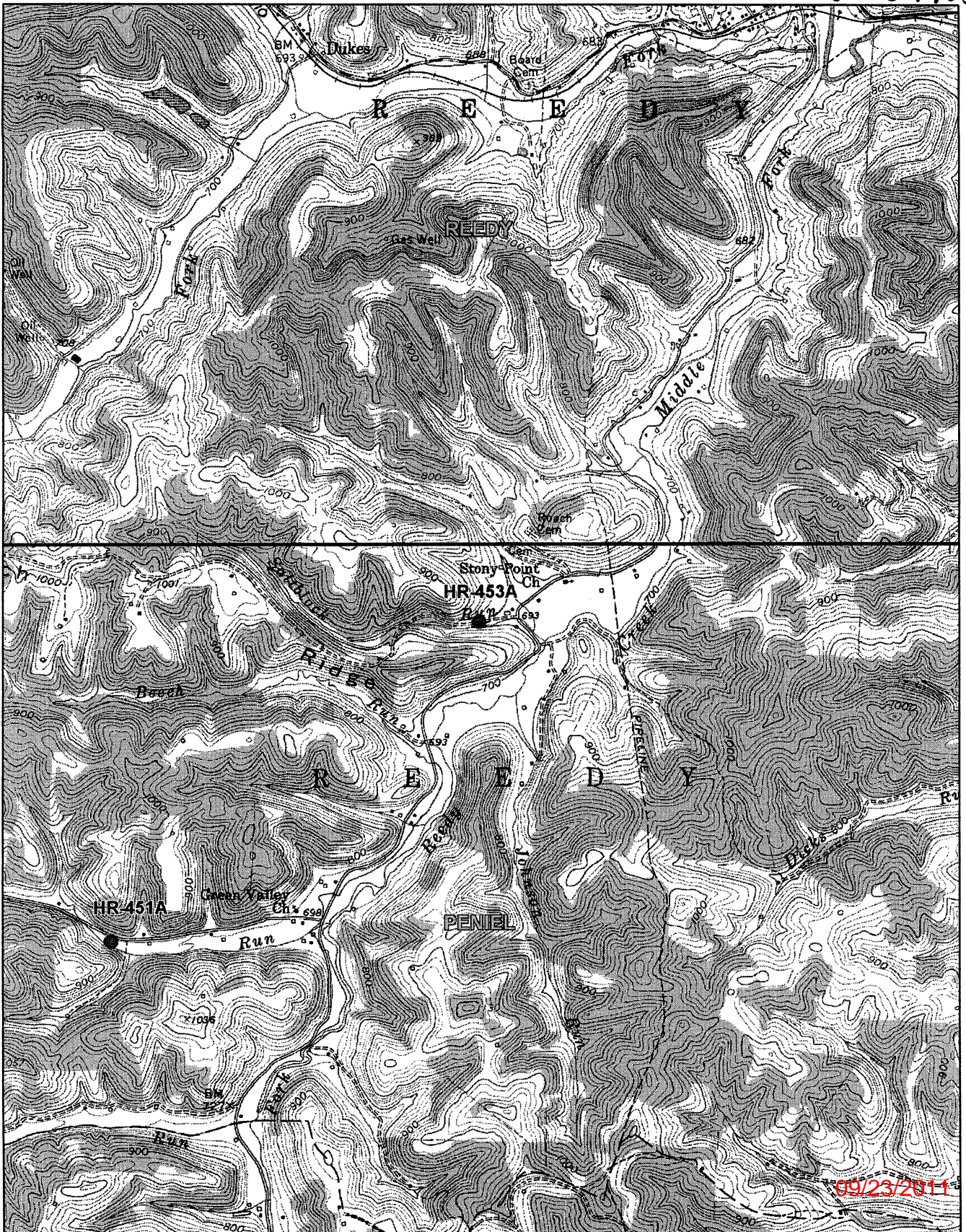
ADDRESS 1244 MARTINS BR. ROAD, CHARLESTON, WV 25312 ADDRESS SAME

09/23/2011

FORM WW-6

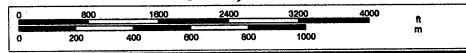
COUNTY NAME
PERMIT

87-04708H



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Zoom Level: 13-0 Datum: NAD27

Scale 1 : 25,000
1" = 2,083 ft



09/23/2011