

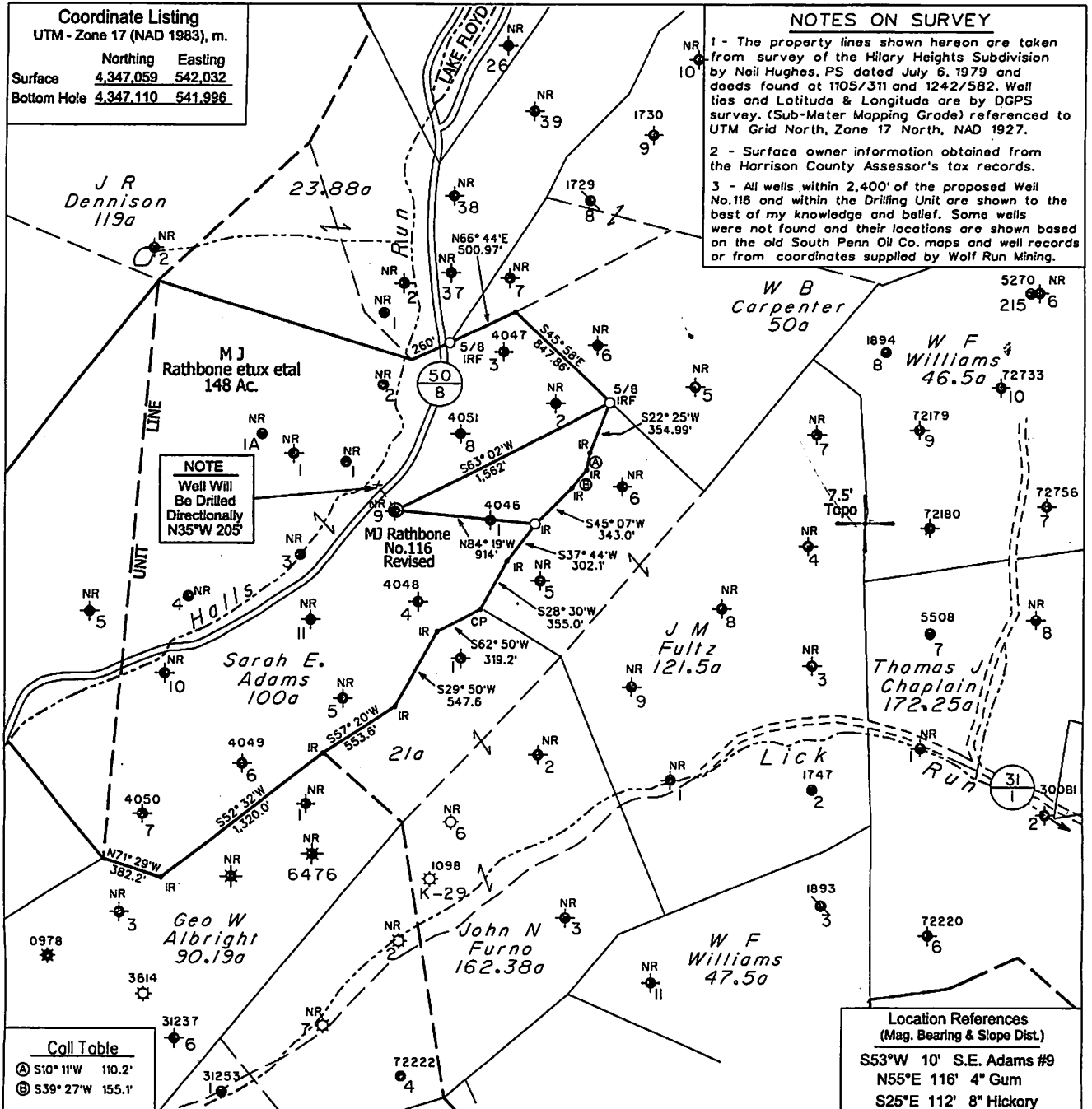
Coordinate Listing		
UTM - Zone 17 (NAD 1983), m.		
	Northing	Easting
Surface	4,347,059	542,032
Bottom Hole	4,347,110	541,996

NOTES ON SURVEY

1 - The property lines shown hereon are taken from survey of the Hilary Heights Subdivision by Neil Hughes, PS dated July 6, 1979 and deeds found at 1105/311 and 1242/582. Well lies and Latitude & Longitude are by DGPS survey. (Sub-Meter Mapping Grade) referenced to UTM Grid North, Zone 17 North, NAD 1927.

2 - Surface owner information obtained from the Harrison County Assessor's tax records.

3 - All wells within 2,400' of the proposed Well No.116 and within the Drilling Unit are shown to the best of my knowledge and belief. Some wells were not found and their locations are shown based on the old South Penn Oil Co. maps and well records or from coordinates supplied by Wolf Run Mining.



LONGITUDE 80° 30' 00"

Longitude 80° 30' 46.48"

Bottom Hole Latitude - 39° 16' 20.0"

Latitude - 39° 16' 18.37"

Call Table	
Ⓐ	S10° 11'W 110.2'
Ⓑ	S39° 27'W 155.1'

Location References (Mag. Bearing & Slope Dist.)

S53°W 10' S.E. Adams #9
 N55°E 116' 4" Gum
 S25°E 112' 8" Hickory

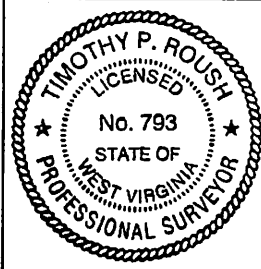
◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE (LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT SURVEYED)

⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

FILE NO. 1043-50
 REVISED 12-21-2012
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY Sub-Meter DGPS
 PROVEN SOURCE OF ELEVATION DGPS Survey

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 MINES.

(SIGNED) *[Signature]*
 TIMOTHY P. ROUSH PS 793



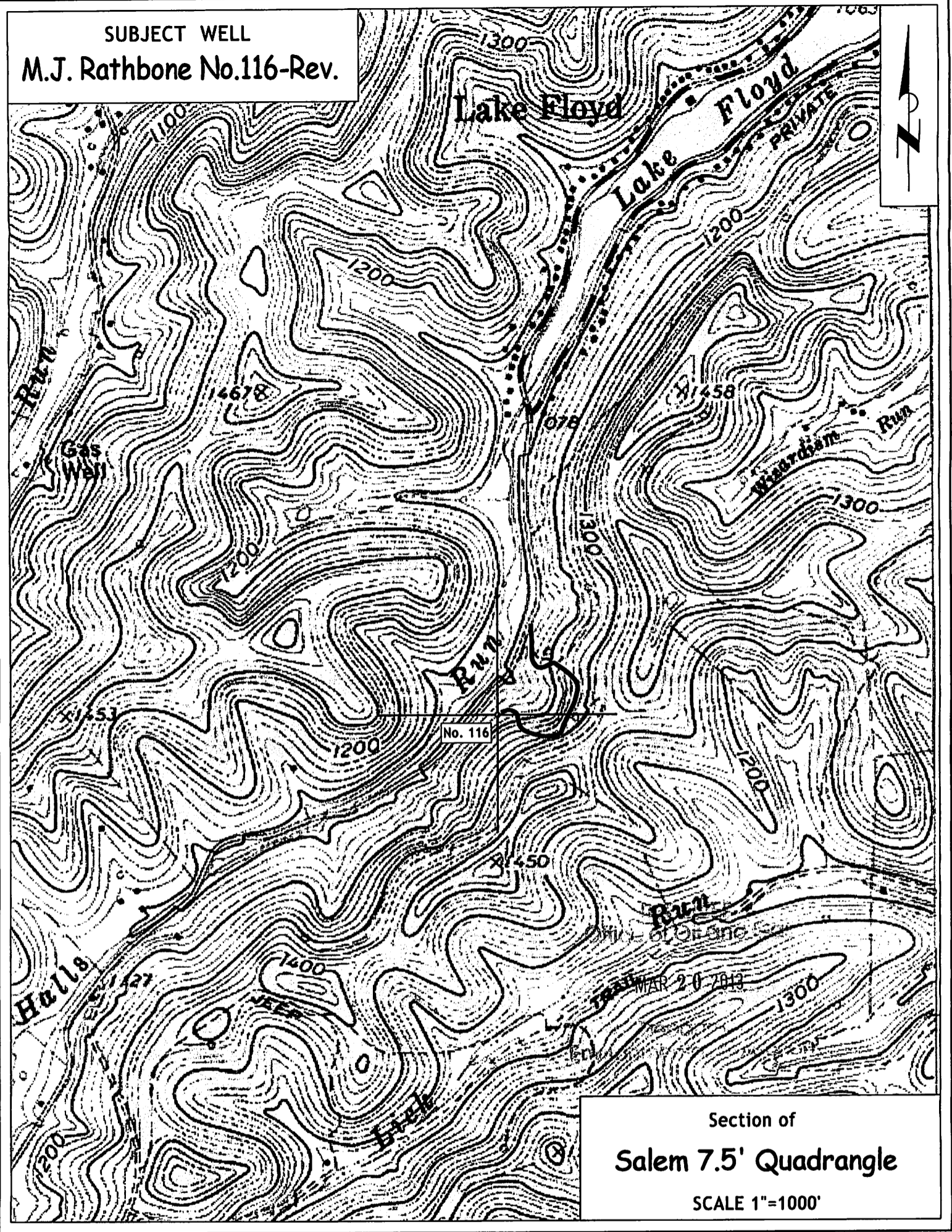
WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street
 Charleston, West Virginia 25304



DATE December 21, 2012
 FARM M.J. Rathbone No.116-Revised
 API WELL NO. 47-033-055305

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___ CORE ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1,169' WATERSHED Hall's Run
 DISTRICT Ten Mile COUNTY Harrison
 QUADRANGLE Salem 7.5'
 SURFACE OWNER Hilary Heights, Ltd ACREAGE 241.54 Ac.
 OIL & GAS ROYALTY OWNER Hilary Heights, Ltd LEASE ACREAGE 148 Ac.
 LEASE NO. 99195-00
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Drill Well Directionally N35°W 205' to Bottom Hole Location
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Fifth Sand ESTIMATED DEPTH 3,061' MD
 WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

SUBJECT WELL
M.J. Rathbone No.116-Rev.



Section of
Salem 7.5' Quadrangle
SCALE 1"=1000'