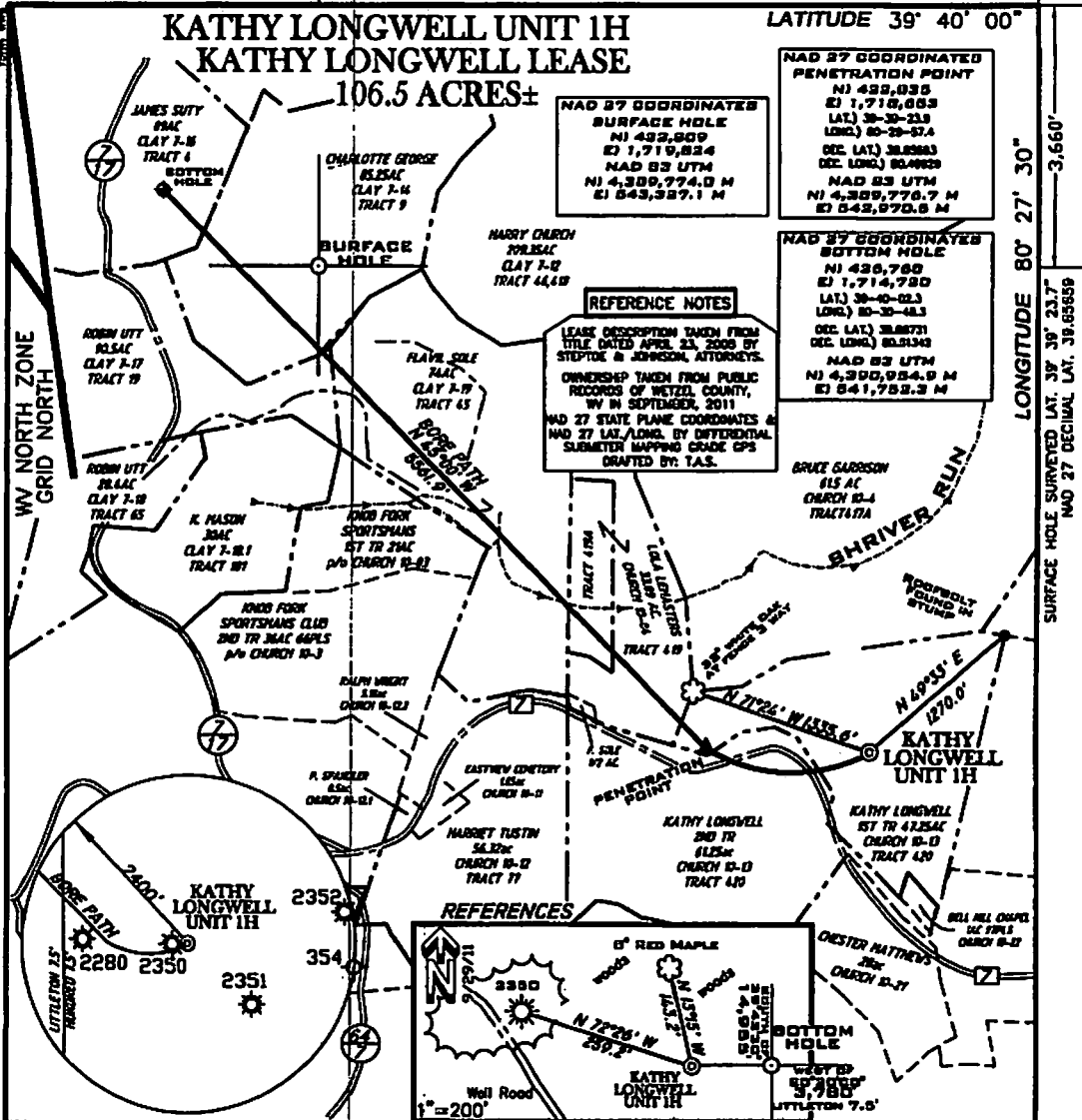


NAD 27 DECIMAL LONG: 80.49513
SURFACE LONG: 80° 29' 42.5"

10,355' **103-02767**

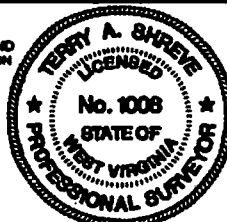
LATITUDE 39° 40' 00"



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

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAN 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

Terry A. Shreve
Terry A. Shreve
No. 1008
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR



DATE: OCTOBER 12, 2011

OPERATORS WELL NO. KATHY LONGWELL UNIT 1H
API WELL NO. 47-103-02767 H6A
STATE COUNTY PERMIT

LOCATION ELEVATION 1446' **WATERSHED** SHRIVER RUN AND LONG DRAIN
DISTRICT CHURCH **COUNTY** WETZEL

QUADRANGLE surface hole HUNDRED 7.5' bottom hole LITTLETON 7.5' **LEASE NUMBER** TRACT 420

SURFACE OWNER KATHY LONGWELL **ACREAGE** 47.25 OF 106.5±
OIL & GAS ROYALTY OWNER KATHY LONGWELL et al **LEASE ACREAGE** 106.5 ± 100.00 74.00 90.5 ± 85.25 60.00

PROPOSED WORK DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION MARCELLUS **ESTIMATED DEPTH** 7650' + Horizontal Leg

WELL OPERATOR GRENADEER ENERGY PARTNERS, LLC. **DESIGNATED AGENT** Dianna Stamper - CT CORPORATION
ADDRESS 1610 WOODSTEAD CT SUITE 330 THE WOODLANDS, TEXAS 77380 **ADDRESS** 707 VIRGINIA STREET EAST 15TH FLOOR CHARLESTON, WV 25301

COUNTY NAME PERMIT