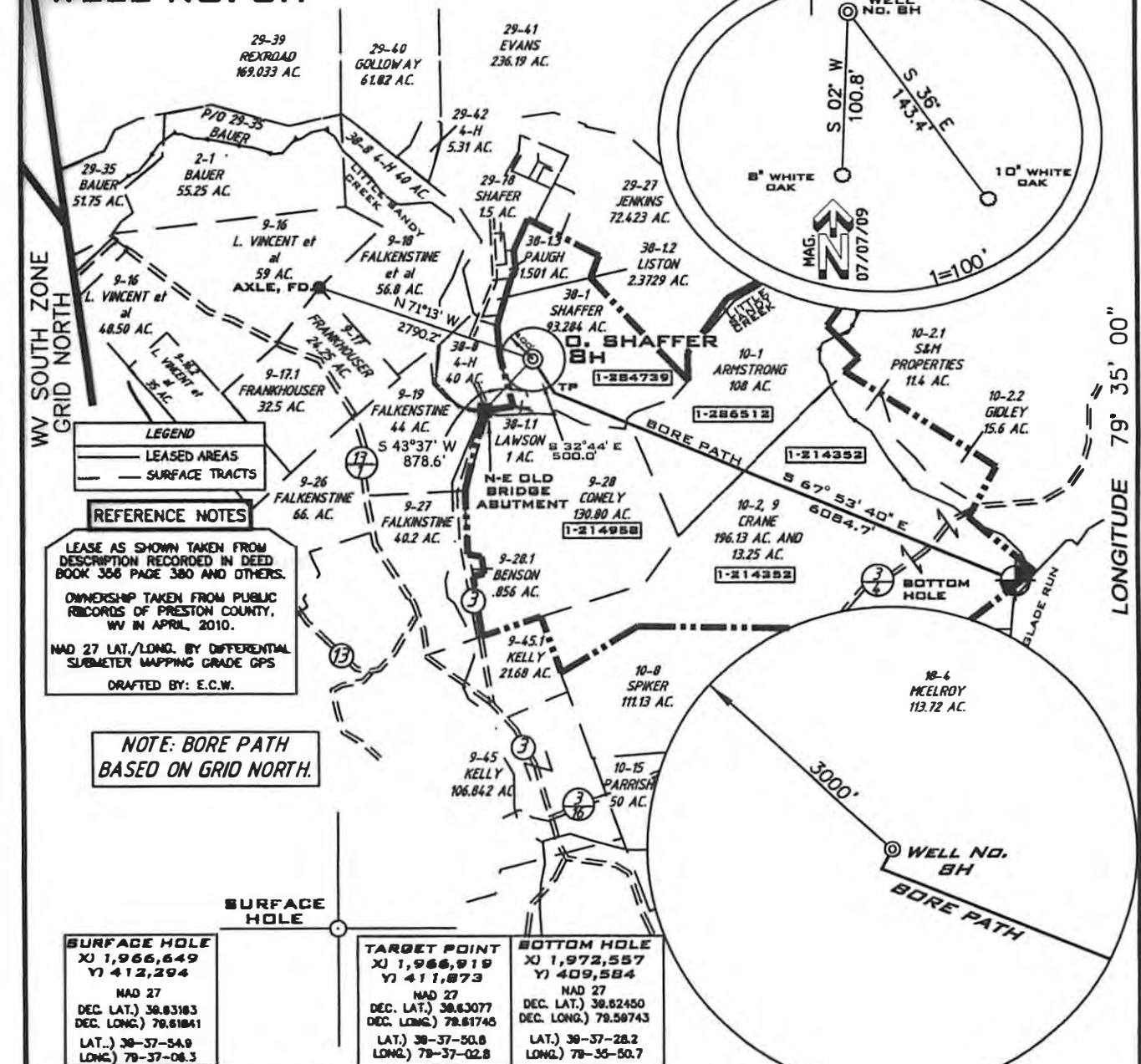


**OLAF SHAFFER LEASE
410.66 ACRES±
WELL NO. 8H**

9848'
3980' WEST
205' SOUTH
OF LAT. 39-37-20
BOTTOM HOLE
REFERENCES
LATITUDE 39° 40' 00"



LEGEND
 - LEASED AREAS
 - SURFACE TRACTS

REFERENCE NOTES
 LEASE AS SHOWN TAKEN FROM DESCRIPTION RECORDED IN DEED BOOK 356 PAGE 380 AND OTHERS.
 OWNERSHIP TAKEN FROM PUBLIC RECORDS OF PRESTON COUNTY, WV IN APRIL, 2010.
 MAG 27 LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS
 DRAFTED BY: E.C.W.

NOTE: BORE PATH BASED ON GRID NORTH.

SURFACE HOLE
 X) 1,966,649
 Y) 412,294
 MAG 27
 DEC. LAT.) 38.83183
 DEC. LONG.) 79.81841
 LAT.) 38-37-54.9
 LONG.) 79-37-08.3

TARGET POINT
 X) 1,966,919
 Y) 411,873
 MAG 27
 DEC. LAT.) 38.83077
 DEC. LONG.) 79.81745
 LAT.) 38-37-50.8
 LONG.) 79-37-02.8

BOTTOM HOLE
 X) 1,972,557
 Y) 409,584
 MAG 27
 DEC. LAT.) 39.82450
 DEC. LONG.) 79.59743
 LAT.) 39-37-28.2
 LONG.) 79-35-50.7

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER W090205 (WB14-40)
 DRAWING NUMBER W090205_BH.dwg
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION SUBMETER 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

P.S. 1006 *Terry A. Shreve*



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

DATE: August 8, 2010

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 1763' WATERSHED LITTLE SANDY CREEK

DISTRICT PLEASANT COUNTY PRESTON
 QUADRANGLE BRANDONVILLE 7.5' LEASE NUMBER 1-286512 1-214958 1-284739 1-214352

SURFACE OWNER OLAF SHAFFER ACREAGE 93.284±
 OIL&GAS ROYALTY OWNER OLAF SHAFFER LEASE ACREAGE 93.284 OF 410.66±

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 8150' + Horizontal Leg

WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE
 ADDRESS P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS P.O. BOX 6070 CHARLESTON, WV 25362

FORM 1006
A.R.L.S.