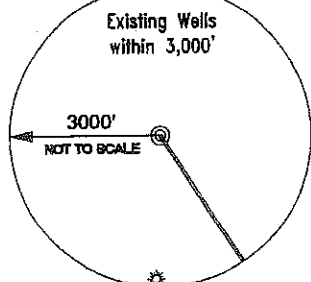
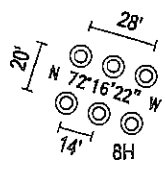
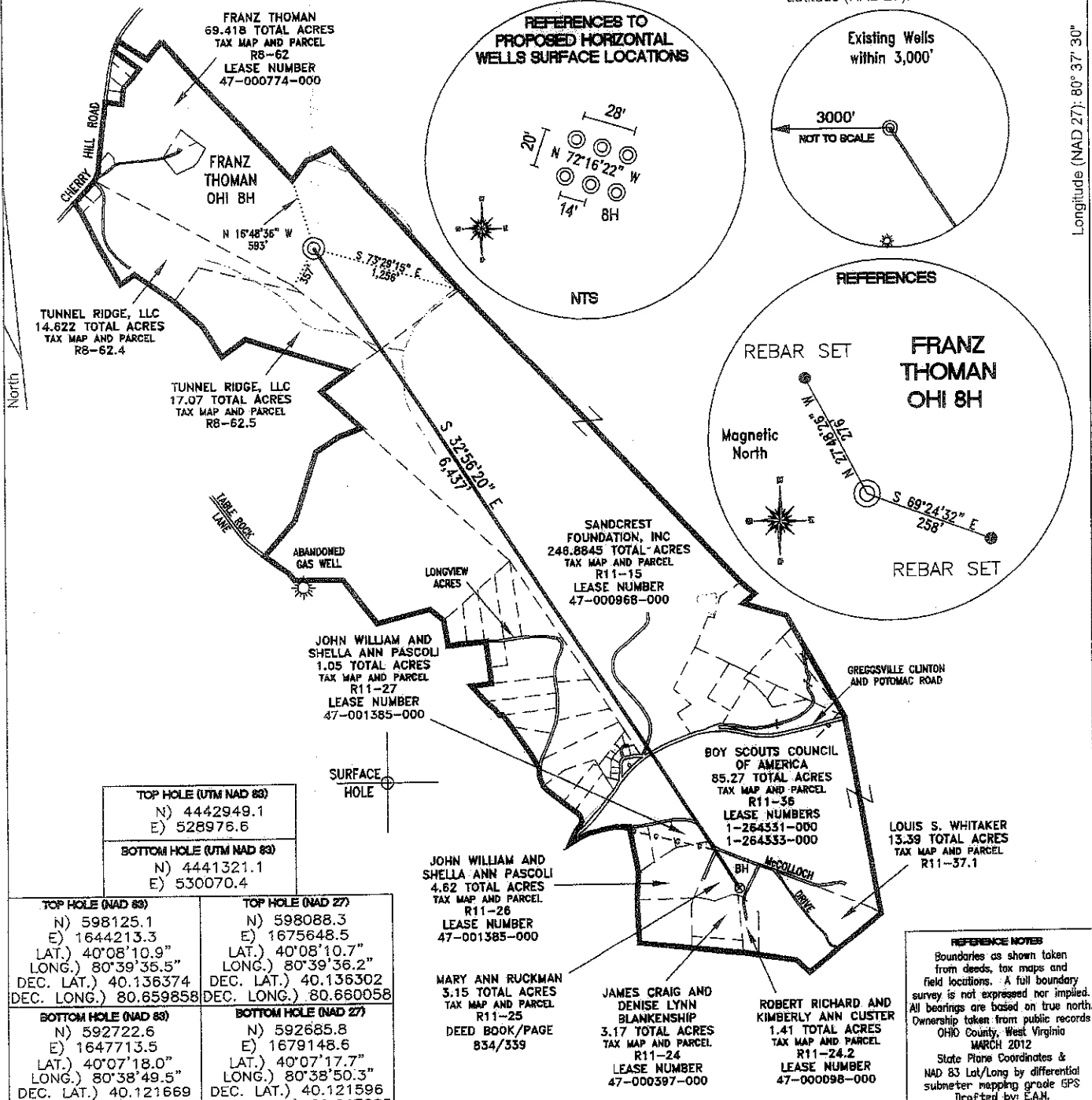
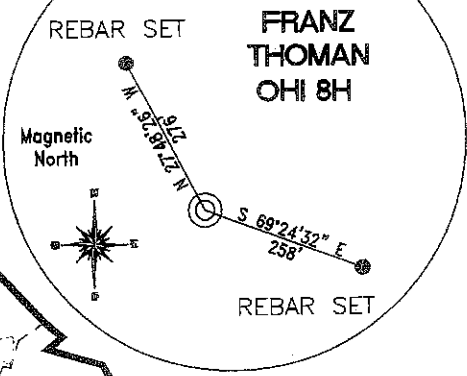


REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



REFERENCES



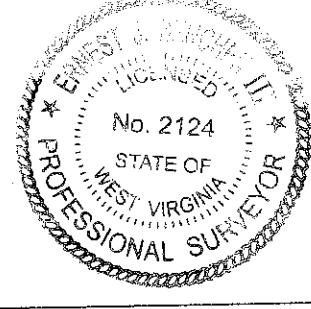
TOP HOLE (UTM NAD 83) N) 4442949.1 E) 528976.6
BOTTOM HOLE (UTM NAD 83) N) 4441321.1 E) 530070.4

TOP HOLE (NAD 83) N) 598125.1 E) 1644213.3 LAT.) 40°08'10.9" LONG.) 80°39'36.5" DEC. LAT.) 40.136374 DEC. LONG.) 80.659858	TOP HOLE (NAD 27) N) 598088.3 E) 1675648.5 LAT.) 40°08'10.7" LONG.) 80°39'36.2" DEC. LAT.) 40.136302 DEC. LONG.) 80.660058
BOTTOM HOLE (NAD 83) N) 592722.6 E) 1647713.5 LAT.) 40°07'18.0" LONG.) 80°38'49.5" DEC. LAT.) 40.121669 DEC. LONG.) 80.647094	BOTTOM HOLE (NAD 27) N) 592685.8 E) 1679148.6 LAT.) 40°07'17.7" LONG.) 80°38'50.3" DEC. LAT.) 40.121596 DEC. LONG.) 80.647295

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records OHIO County, West Virginia MARCH 2012
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.N.

FILE #: CHE 101
DRAWING #: 1917
SCALE: 1" = 1200'
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.
Signed: _____
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,135'
COUNTY/DISTRICT: OHIO / RICHLAND QUADRANGLE: TILTONSVILLE
SURFACE OWNER: FRANZ THOMAN ACREAGE: 69.418 +/-
OIL & GAS ROYALTY OWNER: FRANZ THOMAN ACREAGE: 410.3925 +/-
LEASE NUMBERS: _____

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 5,835' TMD: 12,577'
WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC GILLESPIE
ADDRESS: PO BOX 18496 ADDRESS: PO BOX 6070
CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: REVISED: AUGUST 31, 2012
MARCH 29, 2012
OPERATOR'S WELL #: FRANZ THOMAN OHI 8H
API WELL #: 47 69 00143 H6A
STATE COUNTY PERMIT

WELL-FRANZ THOMAN OH 18H
QUAD TILTONSVILLE WV

