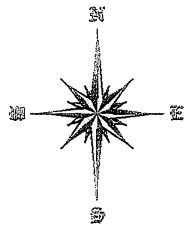
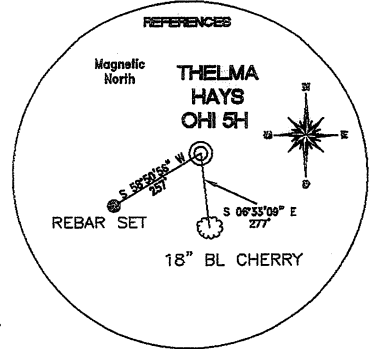


REFERENCE NOTES
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records OHIO County, West Virginia FEBRUARY 2011
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: E.A.M.



North

SCOTT AND MARK SONDA
 182.97 ACRES
 LEASE NUMBER 1-324672-000
 PARCEL ID L2-2

BLAIRD KLOSS
 112.403 ACRES
 PARCEL ID L2-4

JOAN MILLER
 177.56 ACRES
 LEASE NUMBER 1-325535-000
 PARCEL ID L2-7.1

WINDSOR COAL COMPANY
 25.12 ACRES
 DEED BOOK / PAGE 761/373
 PARCEL ID L2-8.3

CHARLES BOONE
 91.24 ACRES
 LEASE NUMBER 1-324757-000
 PARCEL ID L2-8

SHARON L. GARRISON
 LIFE ESTATE
 102 TOTAL ACRES
 LEASE NUMBER 1-325768-000
 TAX MAP AND PARCEL L5-29

JOSEPH AND MARJORIE ENNIS
 88 TOTAL ACRES
 LEASE NUMBER 1-324694-000
 TAX MAP AND PARCEL L5-08

HELEN AND JOHN TOMINACK
 215.5 TOTAL ACRES
 LEASE NUMBER 1-324178-000
 TAX MAP AND PARCEL L5-10

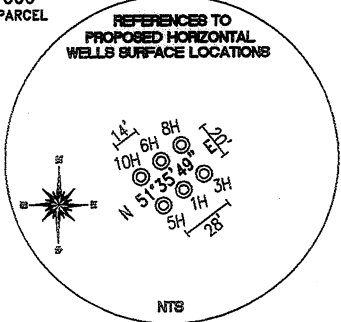
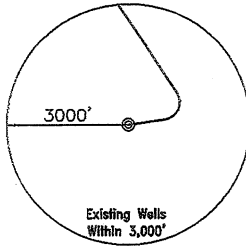
DONALD F. DOLENCE
 99.22 TOTAL ACRES
 LEASE NUMBER 1-329485-000
 TAX MAP AND PARCEL L5-11

THELMA HAYS
 OHI 5H

REFERENCE LINES

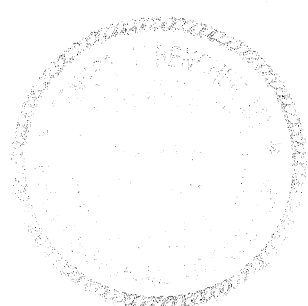
RL #1
N 60°00'00" E 678'

TOP HOLE (NAD 83) N) 603213.8 E) 1673814.6 LAT.) 40°09'04.8" LONG.) 80°33'15.2" DEC. LAT.) 40.151344 DEC. LONG.) 80.554209	KOP (NAD 83) N) 603378.5 E) 1674971.6 LAT.) 40°09'06.6" LONG.) 80°33'00.3" DEC. LAT.) 40.151833 DEC. LONG.) 80.550077
TOP HOLE (NAD 27) N) 603176.8 E) 1705248.9 LAT.) 40°09'04.6" LONG.) 80°33'15.9" DEC. LAT.) 40.151271 DEC. LONG.) 80.554415	KOP (NAD 27) N) 603341.5 E) 1706405.9 LAT.) 40°09'06.3" LONG.) 80°33'01.0" DEC. LAT.) 40.151761 DEC. LONG.) 80.550283
TP (NAD 83) N) 603795.8 E) 1674696.2 LAT.) 40°09'10.7" LONG.) 80°33'03.9" DEC. LAT.) 40.152969 DEC. LONG.) 80.551080	BOTTOM HOLE (NAD 83) N) 608906.4 E) 1671322.4 LAT.) 40°10'00.8" LONG.) 80°33'48.1" DEC. LAT.) 40.166888 DEC. LONG.) 80.563365
TP (NAD 27) N) 603758.7 E) 1706130.5 LAT.) 40°09'10.4" LONG.) 80°33'04.6" DEC. LAT.) 40.152897 DEC. LONG.) 80.551286	BOTTOM HOLE (NAD 27) N) 608869.3 E) 1702756.8 LAT.) 40°10'00.5" LONG.) 80°33'48.9" DEC. LAT.) 40.166816 DEC. LONG.) 80.563570



FILE #: CHE 048
 DRAWING #: 1573
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: 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: *[Signature]*
 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: 1,250'
 COUNTY/DISTRICT: OHIO / LIBERTY QUADRANGLE: BETHANY, WV
 SURFACE OWNER: SHARON L. GARRISON ACREAGE: 102.00 +/-
 OIL & GAS ROYALTY OWNER: SHARON L. GARRISON ACREAGE: 306.36 +/-
 LEASE NUMBERS: 1-280169-001

DATE: AUGUST 30, 2011
 OPERATOR'S WELL #: THELMA HAYS OHI 5H
 API WELL #: 47 69 00086
 STATE COUNTY PERMIT

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: 6,250' TMD: 12,374'
 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

WELL THELMA HAYS OH 5H
QUAD BETHANY WV

