

PROPERTY OWNER	TOTAL ACRES	TAX MAP AND PARCEL	LEASE NUMBER	DEED BOOK AND PAGE
A. DOROTHY T. LEOS	2.84	R8L-40		
B. DERRICK P. HARROSS	3.48	R2L-44	47-001737-000	847 / 459
C. ANNA M. HIRSHMELL	3.01	R80-68	47-002061-000	
D. PAUL J. & PAULA J. DENARD	0.38	R20-64.1		848 / 199
E. PAUL J. & PAULA J. DENARD	0.75	R20-64		845 / 199
F. ANNA M. HIRSHMELL	4.162	R80-69	47-002061-000	
G. LOUIS J. EMMS	7.86	R20-61	47-001682-000	

TOP HOLE (HMD 83)
N) 595742.4
E) 1649869.8
LAT.) 40°07'48.1"
LONG.) 80°38'22.3"
DEC. LAT.) 40.130032
DEC. LONG.) 80.639521

TOP HOLE (HMD 27)
N) 595705.5
E) 1681304.9
LAT.) 40°07'47.9"
LONG.) 80°38'23.0"
DEC. LAT.) 40.129960
DEC. LONG.) 80.639722

TP (HMD 83)
N) 595627.7
E) 1648775.2
LAT.) 40°07'46.8"
LONG.) 80°38'36.3"
DEC. LAT.) 40.129679
DEC. LONG.) 80.643430

TP (HMD 27)
N) 595590.8
E) 1680210.2
LAT.) 40°07'46.6"
LONG.) 80°38'37.1"
DEC. LAT.) 40.129607
DEC. LONG.) 80.643631

KOP (HMD 83)
N) 595208.3
E) 1649047.5
LAT.) 40°07'42.7"
LONG.) 80°38'32.8"
DEC. LAT.) 40.128538
DEC. LONG.) 80.642437

KOP (HMD 27)
N) 595171.5
E) 1680482.5
LAT.) 40°07'42.5"
LONG.) 80°38'33.5"
DEC. LAT.) 40.128466
DEC. LONG.) 80.642638

BOTTOM HOLE (HMD 83)
N) 599801.8
E) 1646064.5
LAT.) 40°08'27.8"
LONG.) 80°39'11.0"
DEC. LAT.) 40.141042
DEC. LONG.) 80.653515

BOTTOM HOLE (HMD 27)
N) 599765.0
E) 1677499.6
LAT.) 40°08'27.5"
LONG.) 80°39'12.7"
DEC. LAT.) 40.140970
DEC. LONG.) 80.653515

REFERENCE LINES
RL #1
S 84°01'07" W 1,101'

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 May 2012
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drafted by EAM

FILE #: CHE 104
DRAWING #: 2070
SCALE: 1" = 1200'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE: 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. Benckek III



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

DATE: DECEMBER 07, 2012
OPERATOR'S WELL #: HOWARD SHACKELFORD OHI 1
API WELL #: 47 69 00156 H6A
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,090'
COUNTY/DISTRICT: OHIO / RICHLAND QUADRANGLE: TILTONSVILLE, WY.
SURFACE OWNER: HOWARD L. AND BETTY M. SHACKELFORD ACREAGE: 50.76 +/-
OIL & GAS ROYALTY OWNER: HOWARD L. AND BETTY M. SHACKELFORD ACREAGE: 358.1265 +/-
LEASE NUMBERS:

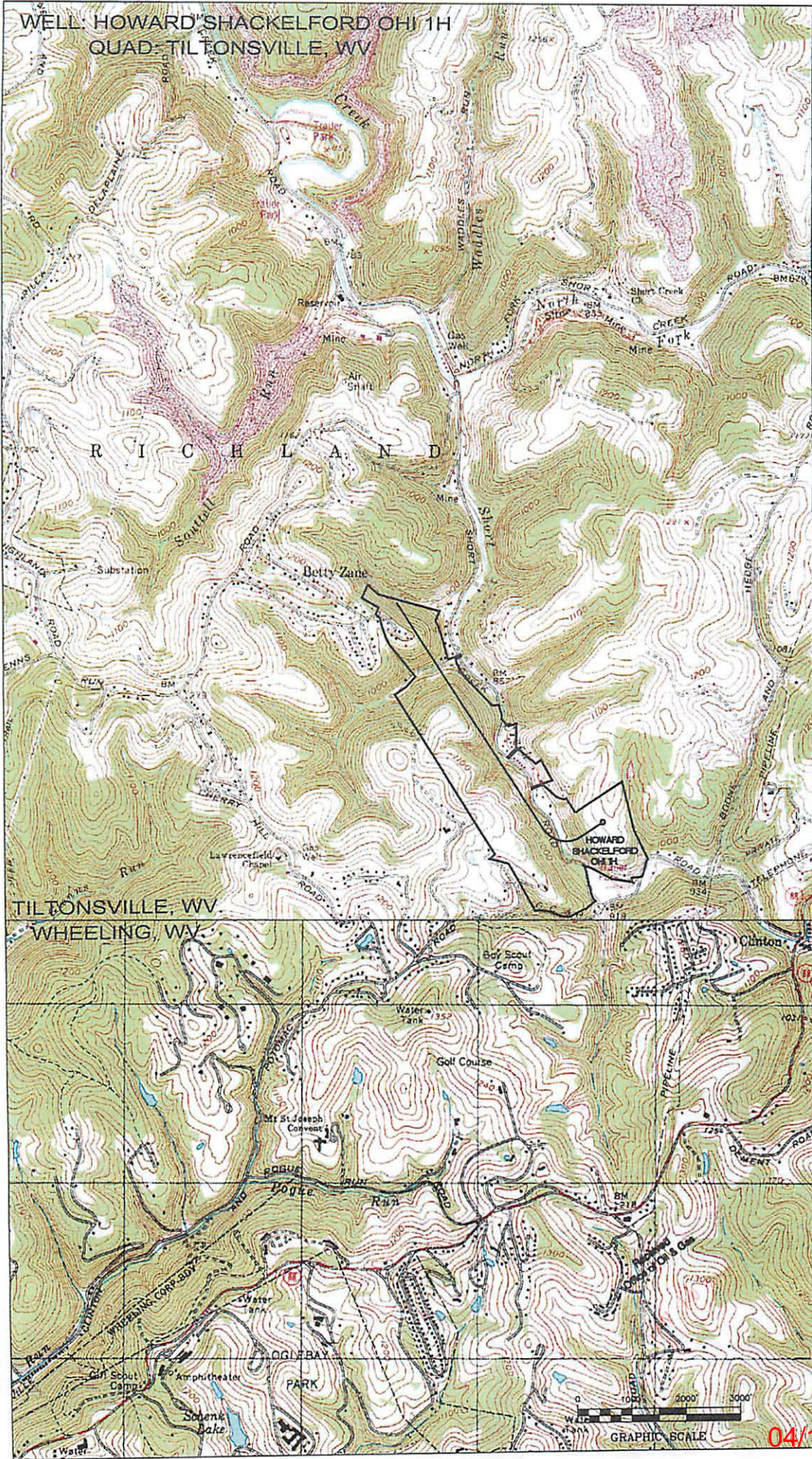
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 5,855' TMD: 11,200'
WELL OPERATOR: CHESAPEAKE APPALACHIA, LLC. DESIGNATED AGENT: ERIC GILLESPIE
ADDRESS: PD BOX 18496 ADDRESS: PO BOX 6070
CITY: OKLAHOMA CITY STATE: OK ZIP CODE: 73154-0496 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

04/19/2013

WELL: HOWARD SHACKELFORD OHI 1H
QUAD: TILTONSVILLE, WV

69-00156 H6A



PKC
1/8/13
678 ft
1-8-13

04/19/2013