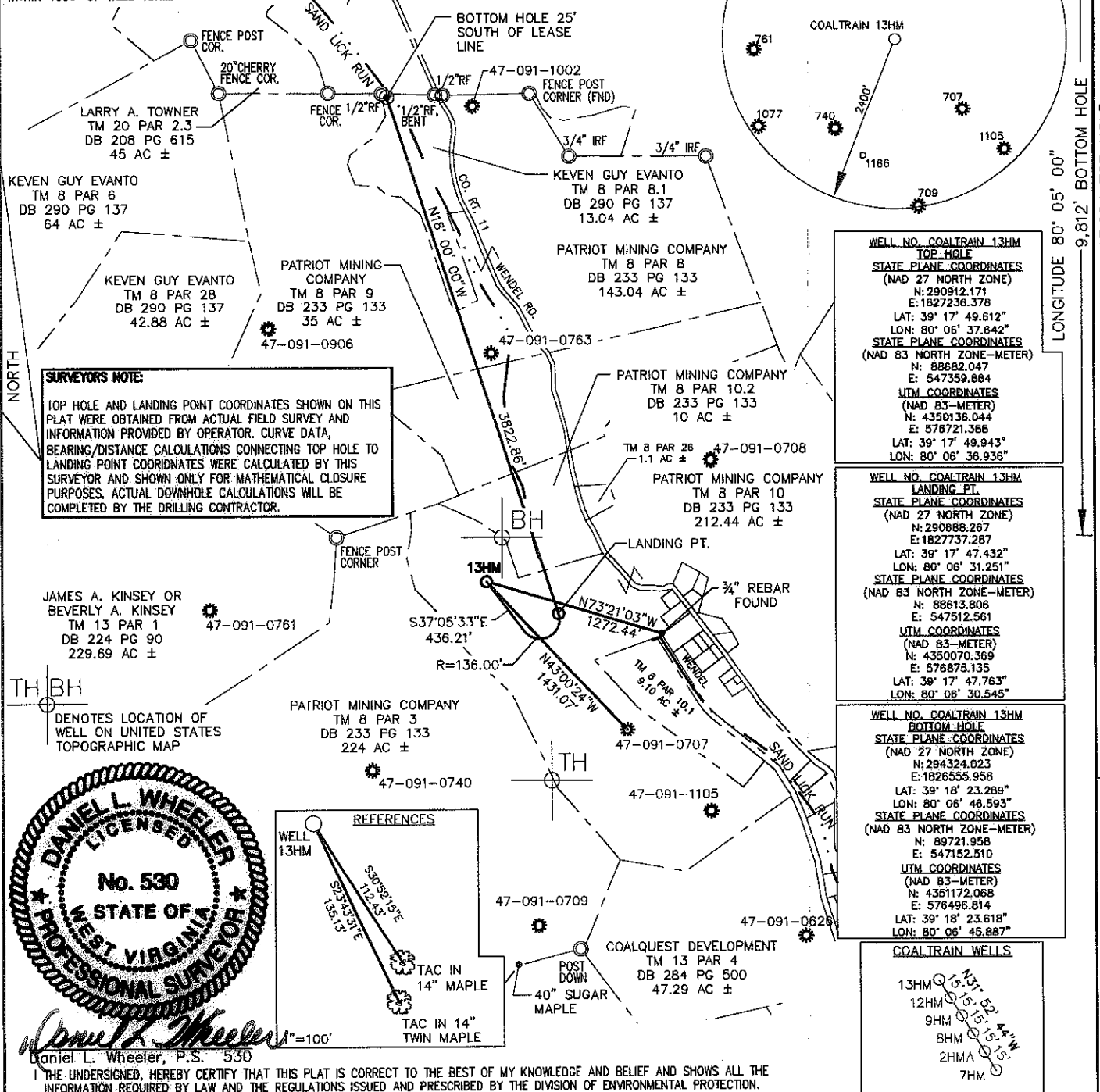


**PDC MOUNTAINEER, LLC
WELL NO. COALTRAIN 13HM**

NOTES:
-PLAT ORIENTATION, CORNERS, AND WELL REFERENCES ARE BASED UPON THE GRID NORTH MERIDIAN FOR THE WV STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 27. WELL LOCATION REFERENCE TIES ARE BASED UPON THE MAGNETIC MERIDIAN.
-THERE APPEARS TO BE NO WATER WELLS LOCATED WITHIN 1000' OF WELL 13HM.



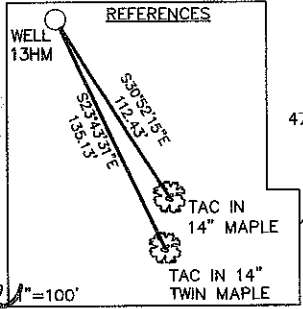
SURVEYOR'S NOTE:
TOP HOLE AND LANDING POINT COORDINATES SHOWN ON THIS PLAT WERE OBTAINED FROM ACTUAL FIELD SURVEY AND INFORMATION PROVIDED BY OPERATOR. CURVE DATA, BEARING/DISTANCE CALCULATIONS CONNECTING TOP HOLE TO LANDING POINT COORDINATES WERE CALCULATED BY THIS SURVEYOR AND SHOWN ONLY FOR MATHEMATICAL CLOSURE PURPOSES. ACTUAL DOWNHOLE CALCULATIONS WILL BE COMPLETED BY THE DRILLING CONTRACTOR.

**WELL NO. COALTRAIN 13HM
TOP HOLE**
STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
N: 290912.171
E: 1827236.378
LAT: 39° 17' 49.612"
LON: 80° 06' 37.642"
STATE PLANE COORDINATES (NAD 83 NORTH ZONE-METER)
N: 88682.047
E: 547359.884
UTM COORDINATES (NAD 83-METER)
N: 4350136.044
E: 576721.366
LAT: 39° 17' 49.943"
LON: 80° 06' 36.936"

**WELL NO. COALTRAIN 13HM
LANDING PT.**
STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
N: 290886.267
E: 1827737.287
LAT: 39° 17' 47.432"
LON: 80° 06' 31.251"
STATE PLANE COORDINATES (NAD 83 NORTH ZONE-METER)
N: 88613.806
E: 547512.561
UTM COORDINATES (NAD 83-METER)
N: 4350070.369
E: 576675.135
LAT: 39° 17' 47.763"
LON: 80° 06' 30.545"

**WELL NO. COALTRAIN 13HM
BOTTOM HOLE**
STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
N: 294324.023
E: 1826555.958
LAT: 39° 18' 23.289"
LON: 80° 06' 46.593"
STATE PLANE COORDINATES (NAD 83 NORTH ZONE-METER)
N: 89721.958
E: 547152.510
UTM COORDINATES (NAD 83-METER)
N: 4351172.068
E: 576496.814
LAT: 39° 18' 23.618"
LON: 80° 06' 45.887"

COALTRAIN WELLS
13HM
12HM
9HM
8HM
2HMA
7HM



FILE NO. 050-4286
SCALE: 1"=1000'
MINIMUM DEGREE OF ACCURACY: 1 in 2500
PROVEN SOURCE OF ELEVATION: OPUS SURVEY GRADE GPS

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

DATE DECEMBER 29, 2012
OPERATOR'S WELL NO. COALTRAIN NO. 13HM
API WELL NO. _____
47 - 091 - 1274H6A
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS"), PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1273' WATER SHED: SAND LICK RUN OF SIMPSON CREEK
DISTRICT: COURTHOUSE COUNTY: TAYLOR
QUADRANGLE: GRAFTON 7.5' ACREAGE: 212.44 AC ±
SURFACE OWNER: PATRIOT MINING COMPANY, INC. LEASE ACREAGE: 413.52 AC ±
OIL & GAS ROYALTY OWNER: GLEN C. LAREW ET AL LEASE NO. _____



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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION: MARCELLUS SHALE ESTIMATED DEPTH: 7,76D' TVD / 12,850' MD

WELL OPERATOR: PDC MOUNTAINEER, LLC DESIGNATED AGENT: JAMES A HAGA
ADDRESS: 120 GENESIS BOULEVARD ADDRESS: 120 GENESIS BOULEVARD
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

EXISTING PARCEL OWNER AND ADDRESS TABLE

ID	OWNER	ADDRESS	TAX MAP NO.	DISTRICT MAP/PARCEL
1	PATRIOT MINING COMPANY INC. ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5	8
2	CAMPBELL, RONALD JR (LIFE) & AMYANNA WRIGHT	RR 1 BOX 143 A, FLEMINGTON, WV 26047	5	8
3	LESCOMB AMY ANNA	P O BOX 34, FLEMINGTON, WV 26047	5	8A
4	LESCOMB GARLAND	RR 1 BOX 142 FLEMINGTON, WV 26047	5	8A
5	ROSS GARY L & MINNA LOUISE & SURV	RR 1 BOX 147 FLEMINGTON, WV 26047	5	8A
6	FLEMING ROCKY L CO INDIANE FLEMING	RR 1 BOX 148 FLEMINGTON, WV 26047	5	8A
7	FLEMING RANDY E & MARSHA FLEMING BILLYE & IMOGENE (LIFE)	RR 1 BOX 148 FLEMINGTON, WV 26047	5	8A
8	FLEMING BILLYE	RR 1 BOX 148 FLEMINGTON, WV 26047	5	8A
9	FLEMING RANDY E & MARSHA FLEMING BILLYE & IMOGENE (LIFE)	RR 1 BOX 148 FLEMINGTON, WV 26047	5	8A
10	FLEMING BILLYE	RR 1 BOX 148 FLEMINGTON, WV 26047	5	8A
11	POTEMPA DELORIS CO DELORIS QUICK	35 BURBANK LN FREDERICKSBURG VA 22405	5	8A
12	KETTERMAN JEFFREY LYNN	PO BOX 295 SIMPSON, WV 26354	5	8A
13	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5	8
14	SOUTH WESTERN WATER DISTRICT	PO BOX 96, FLEMINGTON, WV 26047	5	8
15	EVANTO KEVIN GUY	923 EAST AVE, SHINSTON, WV 26431	5	8
16	PATRIOT MINING COMPANY INC CO LLC L C ATTN: L CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5	13
17	KINSEY JAMES A OR BEVERLY A & SURV	RR 1 BOX 169 FLEMINGTON, WV 26047	5	13
18	KINSEY JAMES A OR BEVERLY A & SURV	RR 1 BOX 167 FLEMINGTON, WV 26047	5	13
19	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5	8
20	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5	8
21	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5	13

LEGEND

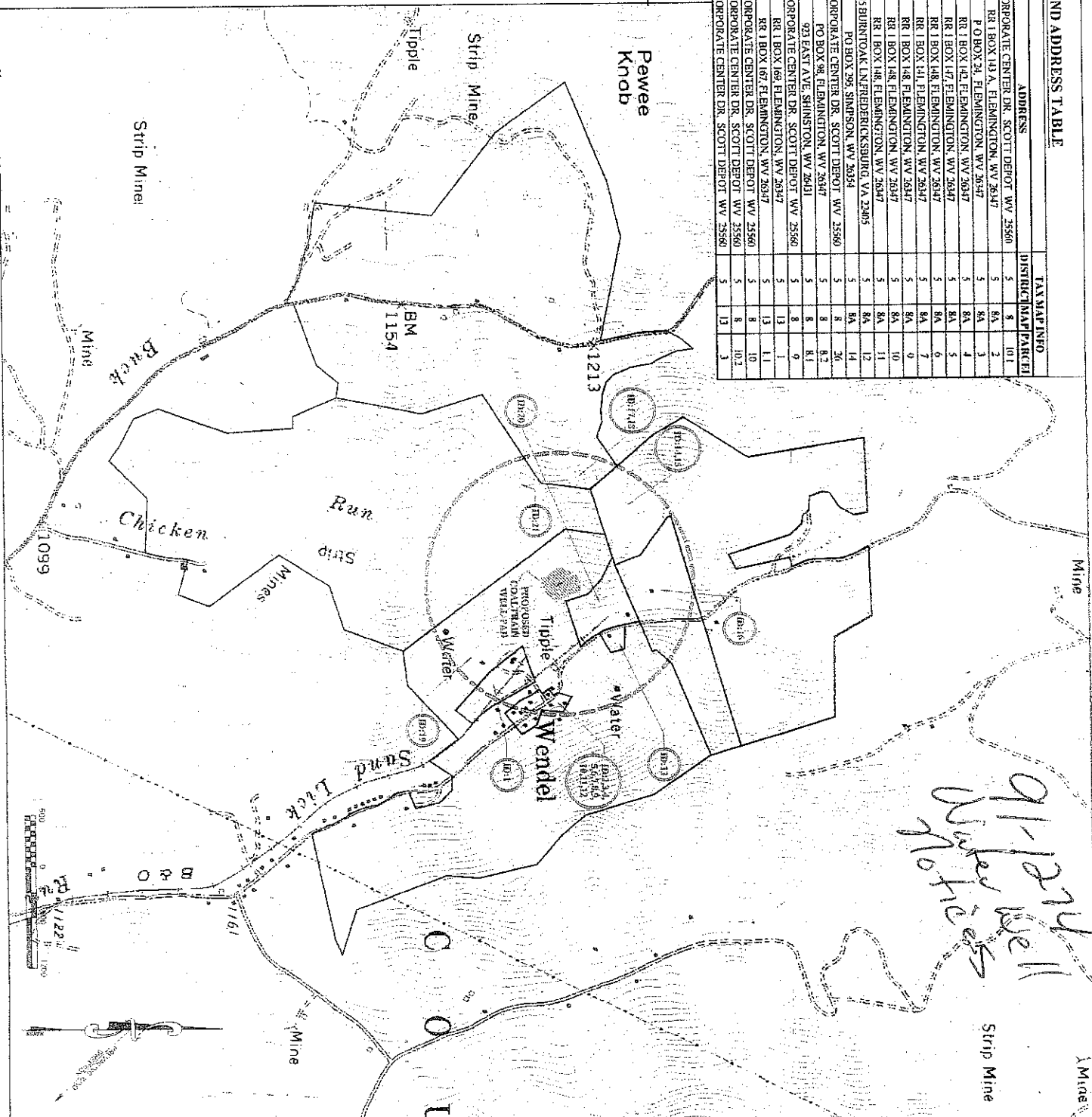
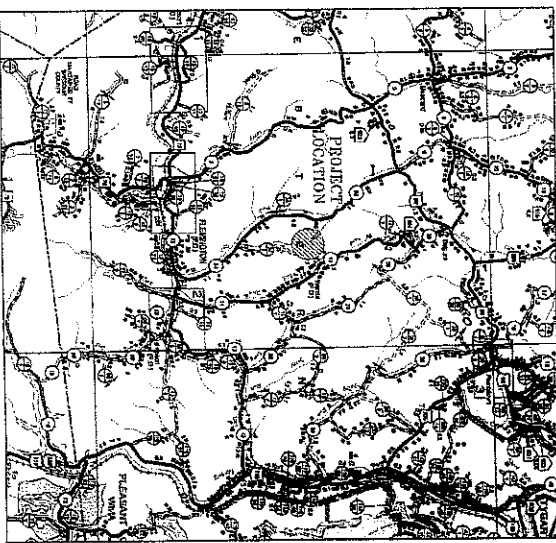
EXISTING DWELLING

150 FT. RADII FROM WELL PAD

PROPOSED WELL PAD AND ACCESS ROAD

PARCEL ID # (SEE TABLE)

TAYLOR COUNTY, WV HIGHWAY MAP



PDC MOUNTAINEER, LLC. COALTRAIN WELL PAD 7HM, 2HM, 8HM, 9HM, 12HM, AND 15HM TAYLOR COUNTY, WEST VIRGINIA	PHONE: (304) 424-4100 FAX: (304) 624-7831 ENVIRONMENTAL CONSULTING & FIELD SERVICES 33 COLUMBIA BOULEVARD - CLARKSBURG, WV 26301	SURVEY DATE: _____ DRAWN: _____ DATE: _____ CHECKED: _____ DATE: _____ APPROVED: _____ DATE: _____	SCALE: _____ LAYOUT TAB: Layout1 NO. BY DATE DESCRIPTION
		PROJECT No: 1-01-050-4286	THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THRASHER ENGINEERING INC. REPRODUCTION OF THIS DOCUMENT IS UNLAWFUL IN WHOLE OR IN PART FOR ANY PERSON WITHOUT PRIOR WRITTEN PERMISSION. © 2011 THRASHER ENGINEERING INC.