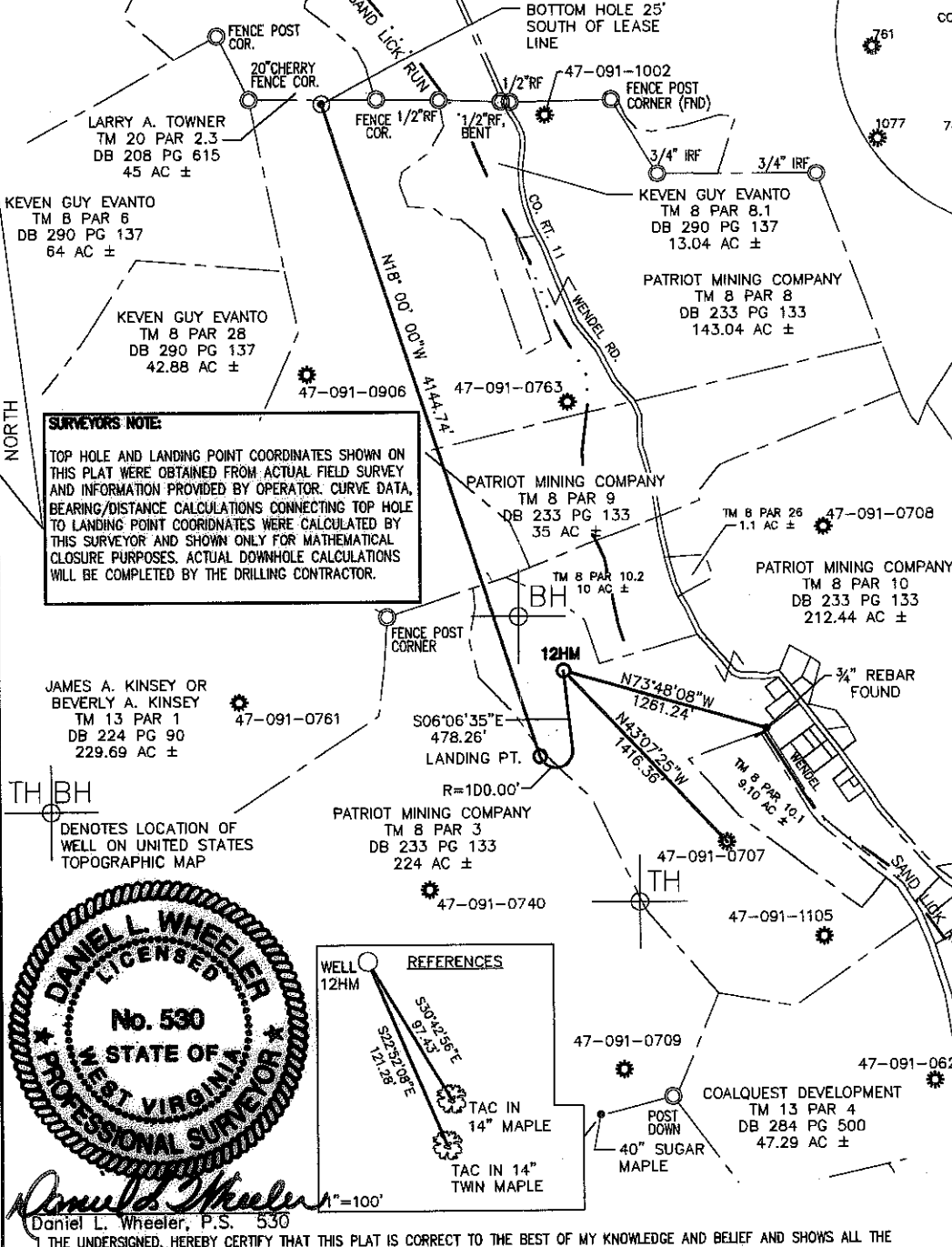
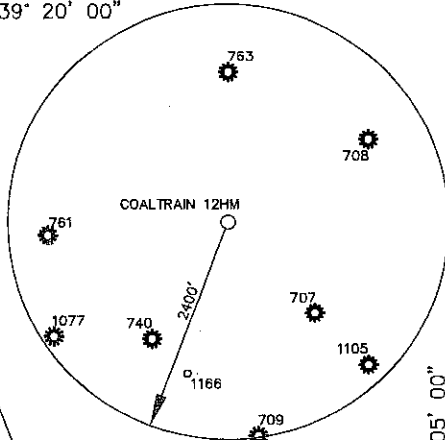


PDC MOUNTAINEER, LLC
WELL NO. COALTRAIN 12HM

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 12HM.

DAVID W. WARNER
TM 20 PAR 2.2
DB 204 PG 120
18.11 AC ±

RODNEY E. MCQUAIN
TM 20 PAR 5
180 AC ±

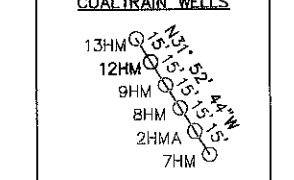


SURVEYORS NOTE:
TOP HOLE AND LANDING POINT COORDINATES SHOWN ON THIS PLAT WERE OBTAINED FROM ACTUAL FIELD SURVEY AND INFORMATION PROVIDED BY OPERATOR. CURVE DATA, BEARING/DISTANCE CALCULATIONS CONNECTING TOP HOLE TO LANDING POINT COORDINATES WERE CALCULATED BY THIS SURVEYOR AND SHOWN ONLY FOR MATHEMATICAL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

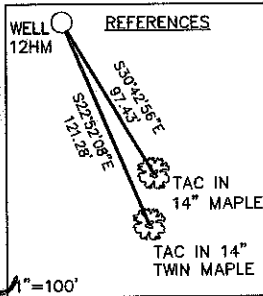
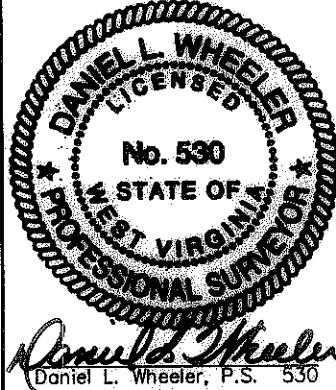
WELL NO. COALTRAIN 12HM TOP HOLE
STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
N: 290899.433
E: 1827244.299
LAT: 39° 17' 49.487"
LON: 80° 06' 37.540"
STATE PLANE COORDINATES (NAD 83 NORTH ZONE-METER)
N: 88678.165
E: 547362.299
UTM COORDINATES (NAD 83-METER)
N: 4350132.203
E: 576723.866
LAT: 39° 17' 49.817"
LON: 80° 06' 36.835"

WELL NO. COALTRAIN 12HM LANDING PT.
STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
N: 290382.346
E: 1827100.663
LAT: 39° 17' 44.366"
LON: 80° 06' 39.323"
STATE PLANE COORDINATES (NAD 83 NORTH ZONE-METER)
N: 88520.558
E: 547318.515
UTM COORDINATES (NAD 83-METER)
N: 4349973.935
E: 576682.720
LAT: 39° 17' 44.697"
LON: 80° 06' 38.617"

WELL NO. COALTRAIN 12HM BOTTOM HOLE
STATE PLANE COORDINATES (NAD 27 NORTH ZONE)
N: 294328.242
E: 1825818.564
LAT: 39° 18' 23.280"
LON: 80° 06' 55.975"
STATE PLANE COORDINATES (NAD 83 NORTH ZONE-METER)
N: 89723.239
E: 546927.750
UTM COORDINATES (NAD 83-METER)
N: 4351169.611
E: 576272.127
LAT: 39° 18' 23.610"
LON: 80° 06' 55.269"



JAMES A. KINSEY OR BEVERLY A. KINSEY
TM 13 PAR 1
DB 224 PG 90
229.69 AC ±



Daniel L. Wheeler, P.S. 530
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 DIVISION OF ENVIRONMENTAL PROTECTION.

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 JANUARY 4, 2012
OPERATOR'S WELL NO. COALTRAIN NO. 12HM
API WELL NO. 47 - 091 - 01273 #6A
STATE COUNTY PERMIT

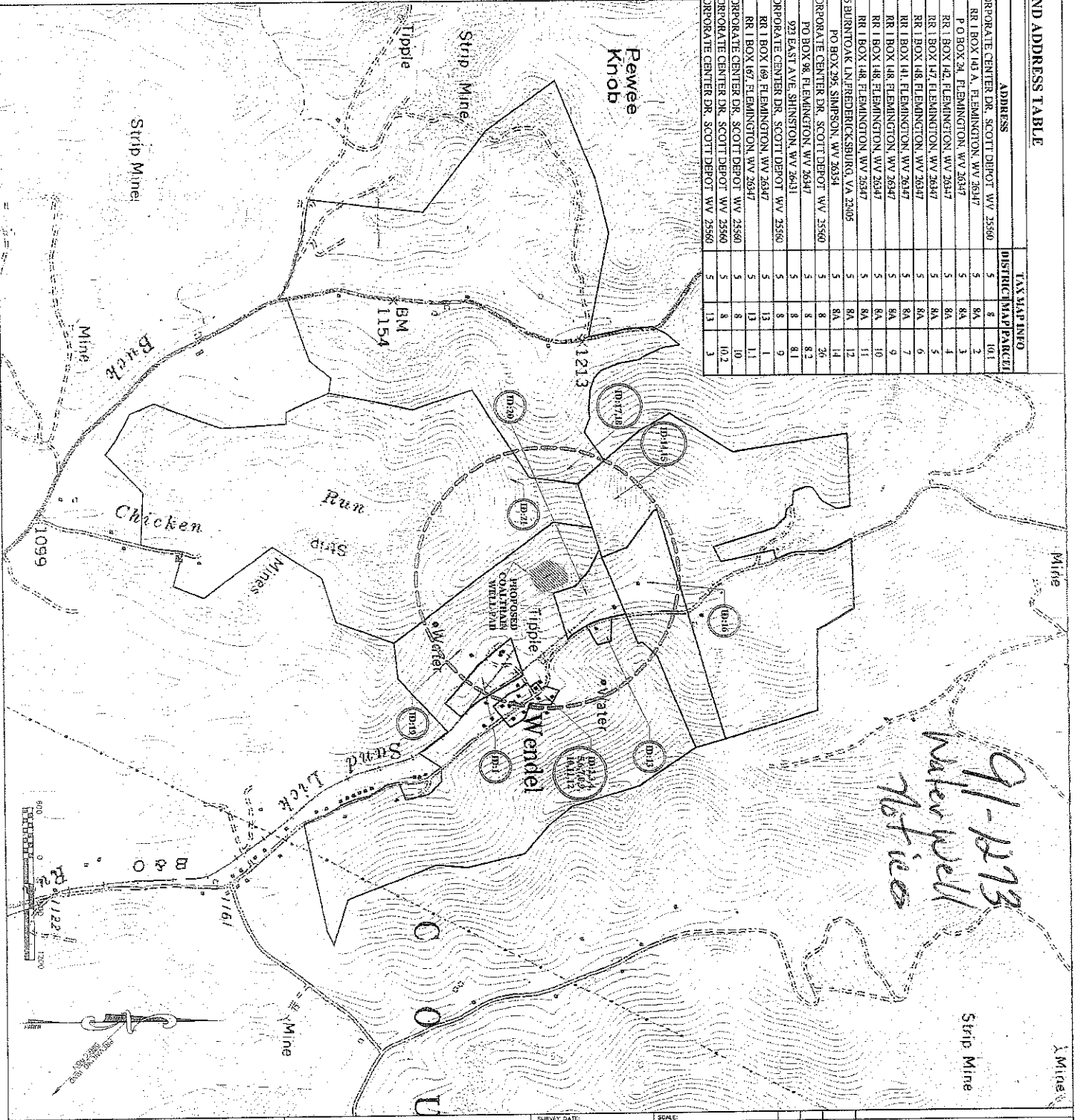
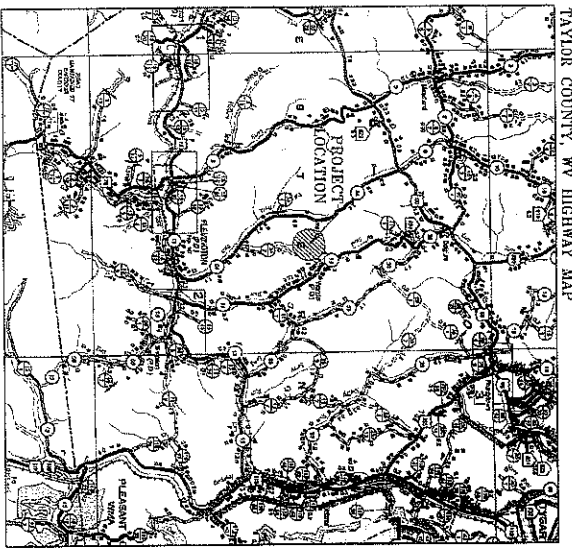
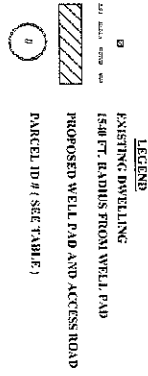
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS"), PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1273' WATER SHED: SAND LICK RUN OF SIMPSON CREEK
DISTRICT: COURTHOUSE COUNTY: TAYLOR
QUADRANGLE: GRAFTON 7.5' ACREAGE: 212.44 AC ±
SURFACE OWNER: PATRIOT MINING COMPANY, INC. LEASE ACREAGE: 614.48 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: 7,760' TVD / 13,000' 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 INFO
			DISTRICT MAP PARCEL
1	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 8 161
2	CAMPBELL RONALD JR (LIFE) & ARIANNA WRIGHT	RR 1 BOX 143 A, FLEMINGTON, WV 25847	5 8 2
3	LIPOCOMB AMY ANNA	P O BOX 29, FLEMINGTON WV 25847	5 8A 3
4	LIPOCOMB GARLAND	RR 1 BOX 142, FLEMINGTON, WV 25847	5 8A 4
5	ROSS GARY L & ANNA LOUISE & SIBRY	RR 1 BOX 142, FLEMINGTON, WV 25847	5 8A 5
6	FLEMING RICKY L CO MOGENE FLEMING	RR 1 BOX 148, FLEMINGTON, WV 25847	5 8A 6
7	FLEMING RICKY L CO MOGENE FLEMING	RR 1 BOX 141, FLEMINGTON, WV 25847	5 8A 7
8	KETTERMAN NANCY ELIEN & JEFFERY L CO NANCY E KETTERMAN	RR 1 BOX 148, FLEMINGTON, WV 25847	5 8A 9
9	FLEMING RANDY E & MARSHA ELEMING BILLY E MOGENE (LIFE)	RR 1 BOX 148, FLEMINGTON, WV 25847	5 8A 10
10	FLEMING BILLY E	RR 1 BOX 148, FLEMINGTON, WV 25847	5 8A 11
11	POLEN DELORIS CO DELORIS QUICK	PO BOX 295, SHINNSTON, WV 26344	5 8A 12
12	KETTERMAN JEFFREY LYNN	PO BOX 295, SHINNSTON, WV 26344	5 8A 14
13	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 8 26
14	SOUTH WESTERN WATER DISTRICT	PO BOX 96, FLEMINGTON WV 25847	5 8 81
15	EVANTO KEVIN GUY	922 EAST AVE, SHINNSTON, WV 26341	5 8 82
16	PATRIOT MINING COMPANY INC CO JG LLC ATTN: L CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 8 9
17	KINSEY JAMES A OR BEVERLY A & SIBRY	RR 1 BOX 169, FLEMINGTON, WV 25847	5 13 1
18	KINSEY JAMES A OR BEVERLY A & SIBRY	RR 1 BOX 167, FLEMINGTON, WV 25847	5 13 11
19	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 13 10
20	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 8 8
21	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 8 10.2
22	PATRIOT MINING COMPANY INC ATTN: LAVINA CONLEY	300 CORPORATE CENTER DR. SCOTT DEPOT WV 25560	5 13 3



PDC MOUNTAINEER, LLC.
 COALTRAIN WELL PAD
 7HM, 2HM, 8HM, 9HM, 12HM, AND 13HM
 TAYLOR COUNTY, WEST VIRGINIA

THRASHER ENGINEERING INC
 PHONE (304) 624-4106 FAX (304) 424-7831
 CIVIL, ENVIRONMENTAL, CONSULTING & FIELD SERVICES
 30 COLUMBIA BOULEVARD - CLARKSBURG, WV 26301

SURVEY DATE: _____ SCALE: _____
 SURVEY BY: _____ CHECKED: _____ DATE: _____
 FIELD BOOK NO. _____ APPROVED: _____ DATE: _____
 PROJECT NO. 1-01-050-4286

LAYOUT TAB: Layout1
 NO. BY DATE DESCRIPTION
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