OAKELEY SLATE QUARRIES - LOWER QUARRY

SECTION SHOWING VARIOUS PROPOSALS FOR PUMPING SHAFT & DRAINAGE LEVEL 1889-1890
"PWMP MAWR"

1) Initial proposal to place Engine House on surface to South of Box to be safe from falls & place pump rods on surface. Vulnerable to falls
2) Proposal to sink vertical shaft from pumping engine placed as 1) to L floor and drive long level on L to workings for drainage - expensive!
3) Utilise existing shafts to C and DE then along Lefal Dwr, then sink shaft to L. Too many changes of direction! Vulnerable to falls
4) Proposal to use old chamber on G then sink shaft to L and drive connecting level on L (Adopted)
5) Modification to 4) to sink diagonally along trap rock to avoid long drive on L though trap rock - not carried out.
OAKELEY SLATE QUARRIES
LOWER QUARRY
DeWINTON'S PLAN For "PWMP MAWR"
1890

Detail of Shifting Pinion

Operating Handle 6'0" long

Steam Engine Compt.

6" Steam Pipe

Flywheel 6'0"

Door

Boilers 5'10" x 20'

Flue

Access to G Floor Sink

16" Supply Pipe 1887 Ft. long

Pump Discharge Pipe

Turbine

Discharge

Twin Belt Drive

2'11" Pulleys

7'4" Pulleys

3-Throw Crank

3 Pump Barrels at 2'6" centres

Shifting Pinion

Pump Beam

Pump Shaft to L Floor

Redrawn from an original plan signed "J.P.deW" Preliminary plan only. Later detail diagram shows reversal of arrgt. on Engine side, to move Engine House more to south - confirmed by survey on site.
DeWINTON'S PLAN For "PWMP MAWR"
1890

OAKELEY SLATE QUARRIES
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Redrawn from an original plan signed "J.P.DeW" Preliminary arrangement only - contours of chamber especially diagrammatic. Site work confirms of conventional shape. Diagram annotated and some detail transferred from other views. JDI
DeWINTON'S PLAN For "PWMP MAWR"
1890

Engine Plan View
From Amendment Drawing

Redrawn from an original plan signed "J.P.deW" Preliminary plan only.
OAKELEY SLATE QUARRIES
LOWER QUARRY (Ex-Welsh Slate)

G-Water Balance Carriage

Based on partial Quarry Drawings, Remaining tanks (tops only visible!) and other historic photographs.
OAKELEY SLATE QUARRIES
LOWER QUARRY

DE to F INCLINES
AVOIDING FALL ROUTE
CHAMBERS 14 & 20 AND
ASSOCIATED STAIRWAYS
1896

FROM O.S.R.G. PLANS