

ABERFOYLE LIMITEDABERFOYLE - LUTWYCHE

REPORT

ON

STANDARDISATION OF REDUCED LEVELS

IN THE

ABERFOYLE - LUTWYCHE AREA

(Appendix Report by A. J. Murphy, August, 1968)

On 22nd September, 1968 a remeasurement from the shaft collar down to 13 level was carried out. From this it was established that the 13 level plat R.L. was in fact 1281.81 ft below the collar, giving a corrected R.L. above sea of 918.19 ft, which is in fact a variation of +1.74 in R.L.

All reduced levels on 13 level have since been adjusted to this new R.L. The first survey station on 13 level viz. - 13004 now has an R.L. of 925.45 ft above sea level.

SURFACE STATIONS.

It has been decided to accept for all future work the established R.Ls of surface stations 5199 and 5099 as mine A. J. Murphy to conform with the similar acceptance of standard co-ordinates Mines Superintendent. previously accepted between these stations.

Consequently, a series of levels were established from the collar of Spiers Shaft (datum point N.F. bolt, N.E. leg of headframe, R.L. 2199.36 ft) onto 5199 and 5099, viz. -

R.L. 5199 - 2198.74 ft above sea level.

R.L. 5099 - 2210.41 ft above sea level.

These levels have since been transferred, by closed level traversing, onto all established bench marks previously reported (Report, A. J. Murphy, August, 1968) and also used to determine the R.Ls of all surface drill holes previously surveyed or re-surveyed as the case may be.

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REPORT ON THE STANDARDISATION OF SURVEY LEVELS

- ABERFOYLE - LUTWYCHE -

HISTORY -

Following the standardisation of surface and underground survey bearings in and around the Aberfoyle Mine, Rossarden (see Report, August, 1968 by A. J. Murphy, Ref. 1.11.1) it has been deemed essential that a similar approach be made towards standardisation of levels, surface and underground, for both Aberfoyle and Lutwyche.

Initially the R.L. of the collar of Spiers Shaft was established as being 2200 ft above sea level and this has been accepted as datum for all levels in the area, both surface and underground.

The original R.L. for 13 level plat was apparently not measured accurately down Spiers Shaft until September, 1968. Prior to this, a measurement from the original 13 level (now 14 level) established the R.L. of the present 13 level plat at 1283.55 ft below the shaft collar.

LEVEL STANDARDISATION BETWEEN SURFACE - UNDERGROUND -

On 22nd September, 1968 a remeasurement from the shaft collar down to 13 level was carried out. From this it was established that the 13 level plat R.L. was in fact 1281.81 ft below the collar, giving a corrected R.L. above sea of 918.19 ft, which is in fact a variation of +1.74 in R.L.

All reduced levels on 13 level have since been adjusted to this new R.L. The first survey station on 13 level viz. - 13004 now has an R.L. of 925.45 ft above sea level.

SURFACE STATIONS. -

It has been decided to accept for all future work the established R.Ls of surface stations S100 and SO99 as mine datum points to conform with the similar acceptance of standard co-ordinates and mine bearing previously accepted between these stations.

Consequently, a series of levels were established from the collar of Spiers Shaft (datum point N.E. bolt, N.E. leg of headframe, R.L. 2199.36 ft) onto S100 and SO99. viz. -

R.L. S100 - 2198.74 ft above sea level.

R.L. SO99 - 2210.41 ft above sea level.

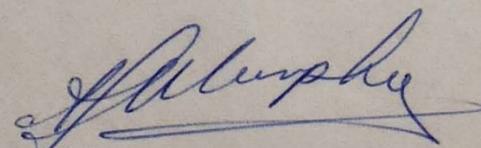
These levels have since been transferred, by closed level traversing, onto all established bench marks previously reported (Report, A. J. Murphy, August, 1968) and also used to determine the R.Ls of all surface drill holes previously surveyed or re-surveyed as the case may be.

A 100 scale plan showing the position of these surface stations together with their established R.Ls has been appended to this report.

SUMMARY OF RESULTS.

		<u>R.L. above Sea Level</u>
Original Datum	- Collar of Spiers Shaft	- 2200.00 ft
13 Level Plat	- Coach screw	- 918.19 ft
13004	- Spad in Plug - 13 Level	
	Crosscut	- 925.45 ft
Level Datum Point, N.E. bolt, N.E. leg of		
	STAND Spiers Shaft Headframe	- 2199.36 ft
S100		- 2198.74 ft
S099		- 2210.41 ft

N.B. - Also appended to this report are copies of the previously supplied survey traverse sheets showing the adjusted R.Ls recorded on them, plus all diamond drill hole pick-ups as requested by Mr. A. A. C. Mason (memo dated 22.8.68).



A. J. Murphy

Mines Superintendent.