

R. I. 4081

MAY 1947

UNITED STATES
DEPARTMENT OF THE INTERIOR
J. A. KRUG, SECRETARY

BUREAU OF MINES
R. R. SAYERS, DIRECTOR

REPORT OF INVESTIGATIONS

HIGH ALUMINA-IRON LATERITE DEPOSITS
COLUMBIA COUNTY, OREG.



BY

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APPENDIX 1, Continued

| From | Footage | | Interval Ft. | Analysis, Percent | | | | Remarks |
|--------------------------------------|---------|--------------------------------|-----------------|-------------------|------------------|------------------|------|---|
| | To | Al ₂ O ₃ | | Fe | SiO ₂ | TiO ₂ | | |
| Alder Creek Area - Drill Hole No. 14 | | | | | | | | |
| 0 | 6.5 | 6.5 | 6.5 | - | - | - | - | Overburden - pisolitic laterite and silt. |
| 6.5 | 11.5 | 5.0 | 5.0 | 32.5 | 20.5 | 14.9 | 4.60 | Laterite, red with pisolites, hard. |
| 11.5 | 15.0 | 3.5 | 3.5 | 31.0 | 23.6 | 10.6 | 5.65 | Laterite, dark red, with magnetic oolites. |
| 15.0 | 20.0 | 5.0 | 5.0 | 28.5 | 27.2 | 7.8 | 7.09 | Laterite, dark red with pisolites, hard. |
| 20.0 | 22.5 | 2.5 | 2.5 | 24.3 | 29.8 | 8.5 | 8.73 | " " " " " " |
| 22.5 | 24.0 | 1.5 | 1.5 | 23.6 | 23.7 | 19.0 | 8.74 | Laterite, dark red, no pisolites. |
| 24.0 | 26.0 | 2.0 | 2.0 | 21.5 | 28.2 | 14.9 | 9.17 | " " " " " " |
| 26.0 | 28.0 | 2.0 | 2.0 | 27.4 | 31.4 | 2.6 | 8.90 | Laterite, dark red, pisolitic, very hard. Water in hole caused abandonment at this point. |
| - | 14.0 | - | - | 30.9 | 25.7 | 9.3 | 6.40 | Special sample at 14' depth. Ign. loss 16.5 percent. App. Sp. Gravity 2.34. True specific gravity - 2.98. Total moisture 15.9 percent. |
| Alder Creek Area - Drill Hole No. 15 | | | | | | | | |
| 0 | 6.0 | 6.0 | 6.0 | - | - | - | - | Overburden. |
| 6.0 | 9.0 | 3.0 | 3.0 | 21.0 | 8.0 | 52.9 | 2.10 | Silt, red - no oolites. |
| 9.0 | 13.0 | 4.0 | 4.0 | 20.0 | 6.9 | 57.1 | 1.64 | Silt, reddish brown - no oolites. |
| 13.0 | 17.0 | 4.0 | 4.0 | 22.8 | 12.4 | 43.2 | 3.10 | Silt, red, plastic - no oolites. |
| 17.0 | 22.0 | 5.0 | 5.0 | 26.3 | 29.1 | 8.2 | 8.52 | Laterite, dark red, pisolitic. |
| 22.0 | 29.5 | 7.5 | 7.5 | 25.2 | 23.7 | 17.1 | 6.59 | Laterite, red, plastic, with basalt fragments. |

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