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MORR 1720

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OBSERVATION WELL WATER WELL REPORT STATE OF OREGON G 848

4N/27-5C(1)

State Well No. State Permit No.

(1) OWNER: STATE ENGINEER SALEM, OREGON Name U. S. Government Address Umatilla Ordnance Depot Ordnance Oregon

(2) LOCATION OF WELL: County Marrow Owner's number, if any 5 1/4 Section T. R. W.M. Bearing and distance from section or subdivision corner 75ft. South & 3500 ft. West from NE corner of Sect. 5

(3) TYPE OF WORK (check): New Well [x] Deepening [] Reconditioning [] Abandon [] If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check): Domestic [x] Industrial [] Municipal [] Irrigation [] Test Well [] Other [] (5) TYPE OF WELL: Rotary [] Driven [] Cable [x] Jetted [] Dug [] Bored []

(6) CASING INSTALLED: 24" Diam. from 122 ft. to 197 ft. Gage 20" Diam. from 197 ft. to ft. Gage

(7) PERFORATIONS: Perforated? [] Yes [x] No Type of perforator used SIZE of perforations in. by in. perforations from ft. to ft.

(8) SCREENS: Well screen installed [] Yes [x] No Manufacturer's Name Type Model No. Slot size Set from ft. to ft.

(9) CONSTRUCTION: Was well gravel packed? [] Yes [x] No Size of gravel: Gravel placed from ft. to ft. Was a surface seal provided? [x] Yes [] No To what depth? 122 ft. Material used in seal Grout Did any strata contain unusable water? [] Yes [x] No Type of water? Depth of strata Method of sealing strata off

(10) WATER LEVELS: Static level 5 1/4 ft. below land surface Date 1-22-23 Artesian pressure lbs. per square inch Date 1957

Log Accepted by: [Signed] Date 19 (Owner)

(11) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? [x] Yes [] No If yes, by whom? Yield: 1170 gal./min. with 13.5 ft. drawdown after 1 hrs.

(12) WELL LOG: Diameter of well inches. Depth drilled ft. Depth of completed well ft. Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

Table with columns MATERIAL, FROM, TO. Rows include: Brown silt with layers of sand (0' to 98'), Brown red clay (98' to 117'), Black clay (117' to 120'), Black basalt (120' to 138'), Grey basalt (138' to 174'), Dark grey basalt (174' to 181'), Grey clay (181' to 186'), Blue clay (186' to 195'), Hard grey basalt (195' to 309'), Decomposed black rock (309' to 311'), Blue clay (311' to 316'), Blue basalt (316' to 324'), Grey basalt (324' to 327'), Black basalt & clay (327' to 332'), Black basalt (332' to 379'), Red & grey basalt (379' to 411'), Grey basalt (411' to 440'), Decomposed black basalt (440' to 466'), Grey basalt (466' to 514'), Black shale (514' to 527'), Grey basalt (527' to 576'), Porous black basalt (576' to 604'), Grey basalt (604' to 672'), Red & grey porous rock, water bearing (672' to 680'), Brown basalt (680' to 682'). Work started 1 May 19 57 Completed 1 Nov 19 57

(13) PUMP: Not installed at this time Manufacturer's Name Type: H.P.

Well Driller's Statement: [x] This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. NAME R. J. Strasser Drilling Co. Address 8110 SE Sunset Lane, Portland 6, Oregon Driller's well number 3095 [Signed] Robert R. Strasser partner (Well Driller) License No. 10 Date Mar. 10 19 58