

LOG AND CORE RECORD OF GEOTHERMAL WELL OR PROSPECT WELL
(Submit in duplicate)

In compliance with rules and regulations pursuant to ORS 522 (Chapter 776, OL 1971)

Operator MAGMA ENERGY, INC. Field MAGMA - LA GRANDE #
Well No. 1, Sec. 9, T. 4 S, R. 39 E, W.B.&M.

FORMATIONS PENETRATED BY WELL

Depth to Top of Formation	Depth to Bottom of Formation	Thickness	Drilled or Cored	Recovery	Description
0	60'	60'	Drilled		Conglomerate: 90% Basalt frag; Many rounded pebbles, med. to dark gray, microxlin. Abund. coat- ings of yellow, orange, and red iron oxides. Abund. white cream fracture fillings.
60'	90'	30'	"		Abund. pebbles 10% white - cream cherty frags.
90'	150'	60'	"		Clay: Brick red to brown at base. Soft, sticky, plastic, silty, occ. sand grains. Common volcanic frag- ments at top becomes brown at base and siltier and sandier.
150'	240'	90'	"		Conglomerate. As above congl. but not weathered.
240'	270'	30'	"		Strong influx of pebbles, marble size basalt pebbles.
270'	480'	210'	"		Clay: Dark gray to black, soft, sticky, plastic, silty Occ. scattered sand grains. Sli. mica- ceous, looks lacustrine.
480'	518'	38'	"		Strong influx of basalt pebbles. Top of basalt 518'.
518'	755'	237'	"		Basalt: Dark gray to black. Occ. lt. To med. gray, occ. brn. hard microxlyn. Fresh and unweathered, Little secondary mineralization, appears to be solid basalt and not congl.
755'	800'	45'	"		Volcanic ash: Tan, crytoxlyn, tuffaceous, porcellanous, appears weathered, frag. Easily broken & sli. plastic when broken bentonitic.

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Depth to Top of Formation	Bottom of Formation	Thickness	Drilled or Cored	Recovery	Description
800'	810'	10'	Drilled		Basalt as above.
810'	845'	35'	"		Volcanic ash as above.
845'	1005'	160'	"		Basalt: Med-dark gray, some light gray or Brn. hard, microxln, fresh and unweathered. Little secondary mineralization.
1005'	1070'	65'	"		Volcanic ash, tan.. Lt. brn. Lt. reddish brn. Some white to cream microxln, Granular texture in part, some dense cryptoxln clayey, common dark red, dark brown to black circular blotches. Appears to be highly altered and baked.
1070'	1670'	600'	"		Basalt! Dark gray to black, Occ. brn. microxln Very hard & dense, fresh, unweathered, very little secondary mineralization.
1670'	1860'	190'			Lost Circ. drld. W/ no returns. No samples.
1960'	2729'	869'			Basalt as above W/ trace to 10% Greenstone. Lt. to med. green, microxln very hard and dense.