DIVISION OF WATER RESOURCES

STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLERS REPORT

Please complete this form in its entirety

22049
OFFICE USE ONLY
Log No. 14542
Permit No. 29164
Basin Pumpernickel
SEE LOG # 14609

SECTION 04CBCA

1. OWNER MAGMA ENERGY INC. ADDRESS 631 SOUTH WITMER STREET LOS ANGELES, CALIFORNIA, 90017

2. LOCATION N.W. ¼ SW ¼ Sec. 4 T. 33 N/S R. 40 E. HUMBOLDT County
PERMIT NO.

3. TYPE OF WORK	4. PROPOSED USE (GEOTHERMAL)	5. TYPE WELL
New Well ☒ Recondition ☐	Domestic ☐ Irrigation ☐ Test ☐	Cable ☐ Rotary ☒
Deepen ☐ Other ☐	Municipal ☐ Industrial ☐ Stock ☐	Other ☐

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
LAYERED CLAY W/PEA GRAVEL, COBBLES.		0	360	360
POORLY SORTED, THERMALLY ALTERED SAND & GRAVEL		360	520	160
LAYERED CLAY W/PEA GRAVEL & COBBLES		520	610	90
BROWN WEATHERED THERMALLY ALTERED SCHIST & HORNFEL		610	660	50
SLATE BLACK W/PYRITES		660	810	150
HARD FINE SALT & PEPPER QUARTZITE		810	840	30
BLACK SLATE W/CALCITE VEINS		840	1030	190
GRAY, FINE GRN. LIMESTONE		1030	1060	30
BLACK SLATE W/QUARTZ, SOME PYRITE		1060	1610	550
GRN. WELL CEMENTED FINE SANDSTONE		1610	1630	20
BLACK SLATE		1630	1650	20
DARK GRAY DIRTY SANDSTONE		1650	1800	160
BLACK SLATE W/SOME QUARTZ VEINS		1800	1940	140
FRACTURED QUARTZ W/SOME PYRITES		1940	1980	40
LOOSE COURSE SAND SOME HD. WHITE ASH		1980	2070	90
LOOSE COURSE GRN. SAND		2070	2110	140
SILVER GRAY SHALE		2110	2500	390
LOOSE MED. GRN. SAND		2500	2510	10
SILVER GRAY SHALE		2510	2600	90
GRAY FINE GR. QUARTZITE SANDSTONE		2600	2670	70
SILVER GRAY SLATE		2670	2710	40
GRAY FINE GRN. SAND		2710	2740	30
SILVER GRAY SHALE		2740	2770	30
LOOSE MED. GR SAND AS ABOVE		2770	3071	301
(NOTE – THIS WELL HAS BEEN PLUG W/ 50 SX CEMENT, CAPPED W/ ½" STEEL PLATE AND ABANDONED)				

Date started 11-20-, 19 74
Date completed 12-19-, 19 74

7. WELL TEST DATA

Pump RPM	G.P.M.	Draw Down	After Hours Pump
	NONE		

BAILER TEST

G.P.M. NONE Draw down ____ feet ____ hours
G.P.M. ____ Draw down ____ feet ____ hours
G.P.M. ____ Draw down ____ feet ____ hours

8. WELL CONSTRUCTION

Diameter hole 7 7/8" inches Total depth 3071 feet
Casing record 20" O.D AND 13 3/8" A.P.I.
Weight per foot 94# AND 48# Thickness

Diameter	From	To
20" inches	GROUND LEVEL feet	12 feet
13 3/8" inches	" " feet	209 feet
inches	feet	feet
inches	feet	feet
inches	feet	feet
inches	feet	feet

Surface seal: Yes ☒ No ☐ Type CEMENT
Depth of seal 209' TO GROUND LEVEL feet
Gravel packed: Yes ☐ No ☒
Gravel packed from ____ feet to ____ feet

Perforations:
Type perforation NONE
Size perforation
From ____ feet to ____ feet
From ____ feet to ____ feet
From ____ feet to ____ feet
From ____ feet to ____ feet
From ____ feet to ____ feet

9. WATER LEVEL

Static water level UNKNOWN Feet below land surface
Flow ARTESION G.P.M. APPROX 300
Water temperature 210 ° F. Quality UNKNOWN

10. DRILLERS CERTIFICATION

This well was drilled under my supervision and the report is true to the best of my knowledge.

Name EDWARD ZAJAC

Address 631 SO. WITMER ST. LOS ANGELES, CALIF. 90017

Nevada contractor's license number TAYLOR DRILLING CO.

Nevada driller's license number 732

Signed Edward Zajac

Date 1-15-75

USE ADDITIONAL SHEETS IF NECESSARY

5471