

B. & R.
SERVICE, INC.

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TEMPERATURE SURVEY

COMPANY.....EL PASO NATURAL GAS COMPANY

WELL.....HUERFANO #116.....FIELD.....

COUNTY.....SAN JUAN.....STATE.....NEW MEXICO

SEC.....11.....TWP.....46N.....RGE.....16E

APPROX. TOP CEMENT.....P.C., 1700, GALLUP, 4810, DAKOTA, 6575

Survey Begins at.....1500.....Ft. Ends at.....7014.....Ft.

Approx. Fill-Up.....Max. Temp. 188° AT 7014'

Log Measured From.....Run No.....

Casing Size.....Casing Depth.....Diam of Hole.....Depth

from.....to.....from.....to

from.....to.....from.....to

Date of Cementing.....OCTOBER 30, 1960.....Time.....

Date of Survey.....OCTOBER 31, 1960.....Time 12-MIDNIGHT

Amount of Cement.....Type.....

Amount of Admix.....Type.....

Recorded by.....DON MCGLOWAY.....Witnessed by.....T.A. COBB

REMARKS OR OTHER DATA

DAKOTA 2 1/2" SET AT 7029, CEMENTED W/8SACKS REGULAR - 2% GEL

GALLUP 2 1/2" SET AT 6276, CEMENTED W/32SACKS REGULAR - 2% GEL

P.C. 1 1/2" SET AT 2457, CEMENTED W/120 SACKS REGULAR - 6% GEL

TEMPERATURE IN DEGREES FAHRENHEIT

The figure is a temperature log graph. The vertical axis (y-axis) represents depth in feet, ranging from 1500 at the top to 7100 at the bottom, with major grid lines every 100 feet. The horizontal axis (x-axis) represents temperature in degrees Fahrenheit, ranging from 100 to 220, with major grid lines every 20 degrees. A temperature profile is plotted as a continuous line. The profile starts at approximately 1500 feet depth with a temperature of about 180°F. It drops sharply to about 1700 feet depth, where the temperature is approximately 140°F. From 1700 feet, the temperature increases gradually to about 4810 feet depth, where it reaches approximately 188°F. At this point, there is a sharp drop in temperature to about 140°F at 6575 feet depth. From 6575 feet, the temperature increases again, reaching approximately 180°F at 7014 feet depth. Three specific points on the profile are annotated: 'P.C. ANOMALY 2700'' at approximately 2700 feet depth, 'GALLUP ANOMALY 4810'' at 4810 feet depth, and 'DAKOTA ANOMALY 6575' at 6575 feet depth.