



4158 EAGLE ROCK
BL • LOS ANGELES
CALIFORNIA 90065

GSi

(213) 255-4511

GEO THERMAL
SURVEYS, INC.

March 31, 1972

APR 3 1972

Mr. Dan A. McMillan, President
Thermal Power Company
785 Market Street
San Francisco, Calif. 94103

Dear Mr. McMillan:

Enclosed are the thermal log data for 12 test holes in the Ocotillo Wells, California area. If you have any questions, I will be back in our office this coming Thursday or you can speak with my associate Joe Birman.

Yours very truly,

GEO THERMAL SURVEYS, INC.

J. B. Indreland

Encl:

Thermal logs for 12
wells

4/5 copy - De Facca

APR 3 1972

Date: MARCH 29, 1972

Project: OCOTILLO WELLS

Probe No.: 381

Logged By: J. B. ESCOBAR

Probe Correction: 24.7 ohms
 SWL (ft.) 1 inside plastic pipe

Depth indicated when probe returned to surface (+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 1

Location: T 25 R 8 E SEC. 34
NE COR. OF NE 1/4

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	1791.3	1866.6	24.09				
20	1845.1	1720.4	26.70				
40	1764.5	1639.8	27.49				
60	1726.0	1601.3	28.10				
80	1695.4	1570.7	28.61				
100	1672.9	1548.2	29.00	1672.8	1548.1	29.00	
120	1653.6	1528.9	29.34				
140	1631.9	1507.2	29.72				
160	1611.6	1486.9	30.10				
180	1589.6	1464.9	30.50				
200	1568.4	1443.7	30.90				
220	1544.6	1419.9	31.35				
240	1519.5	1394.8	31.84				
243	1517.8	1393.1	31.87				
BTM							

Date: MARCH 29, 1972

Project: ACOTILLO WELLS

Probe No.: 381

Logged By: A. B. FURILL

Probe Correction: 124.7 ohms
SWL (ft.) 26 1/2 inside plastic pipe

Depth indicated when probe returned to surface (+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 2

Location: T 11 S, R 8 E, SEC. 2
SW COR. OF SW 1/4

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2020.5	1895.8	23.69				
20	1943.2	1818.5	24.76				
40	1844.1	1719.4	26.21				
60	1831.0	1706.3	26.42				
80	1811.4	1686.7	26.72				
100	1790.6	1665.9	27.05	1790.5	1665.8	27.05	
120	1766.2	1641.5	27.45				
140	1734.5	1609.8	27.96				
160	1702.1	1577.4	28.50				
180	1678.6	1553.9	28.91				
200	1663.8	1539.1	29.14	1663.8	1539.1	29.16	
220	1654.9	1530.2	29.32				
240	1644.6	1519.9	29.51				
249	1639.3	1514.6	29.60				
BTM							

Date: MARCH 29, 1972

Project: COCOTILLO WELLS

Probe No.: 381

Logged By: A. B. ESPILLO

Probe Correction: 124.7 ohms

Depth indicated when probe returned to surface (+ ft.) 0

SWL (ft.) 5 inside plastic pipe

WELL THERMAL LOG

Well Name/No.: 3

Location: T. 12 S., R. 2 E., SEC. 5

± 150' N of Hiway 78,

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	1972.5	1847.8	24.34				
20	1850.4	1725.7	26.13				
40	1767.1	1642.4	27.43				
60	1735.1	1610.4	27.95				
80	1701.8	1577.1	28.50				
100	1676.4	1551.7	28.95	1676.5	1551.8	28.95	
120	1657.4	1532.7	29.29				
140	1641.6	1516.9	29.56				
160	1626.7	1502.0	29.81				
180	1612.7	1488.0	30.07				
200	1600.7	1476.0	30.29	1600.6	1475.9	30.30	
220	1590.8	1466.1	30.48				
BTM.							

Date: MARCH 29 1972

Project: COOTILLIC WELLS

Probe No.: 381

Logged By: A. B. ESTILLO

Probe Correction: 1.247 ohms

Depth indicated when probe returned to surface

SWL (ft.) 1/2 inside plastic pipe.

(+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 4

Location: T. 2S. R. 8E. SEC. 3

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2006.7	1882.0	23.87				
20	1831.7	1707.0	26.40				
40	1759.4	1634.7	27.55				
60	1736.6	1611.9	27.93				
80	1724.0	1599.3	28.14				
100	1712.2	1587.5	28.34	1712.1	1587.4	28.34	
120	1703.9	1579.2	28.47				
140	1694.0	1569.3	28.64				
160	1687.1	1562.4	28.78				
180	1681.0	1556.3	28.88				
200	1672.9	1548.2	29.00	1672.8	1548.1	29.00	
220	1664.0	1539.3	29.16				
240	1654.0	1529.3	29.34				
252	1647.2	1522.5	29.46				
Btm.							

Date: MAR 28, 1972

Project: OCOTILLO WELLS

Probe No.: 381

Logged By: A. B. ESQUILCA

Probe Correction: 124.7 ohms
SWL (ft.) 117 inside plastic pipe

Depth indicated when probe returned to surface
(± ft.) 0

WELL THERMAL LOG

Well Name/No.: 5

Location: T11S, R8E, SEC. 19
262 ft TP, SW CORNER OF NW 1/4

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2010.8	1886.1	23.81				
20	1902.6	1777.9	25.35				
40	1842.0	1717.3	26.25				
60	1815.4	1690.7	26.66				
80	1805.7	1681.0	26.81				
100	1797.5	1672.8	26.94	1796.4	1671.7	26.96	
120	1786.6	1661.9	27.12				
140	1775.6	1650.9	27.30				
160	1764.7	1640.0	27.47				
180	1754.2	1628.5	27.65				
200	1743.0	1618.3	27.82	1743.1	1618.4	27.82	
220	1730.7	1606.0	28.01				
240	1716.1	1591.4	28.27				
254	1707.0	1582.3	28.41				

Blw.

Date: MARCH 29, 1972

Project: SCOTTLE WELLS

Probe No.: 351

Logged By: A. B. SMITH

Probe Correction: 124.7 ohms
SWL (ft.) 2 1/2 inside plastic pipe

Depth indicated when probe returned to surface (+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 6

Location: T. 10S., R. 15E., SEC. 2, NE COR. of NW 1/4

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2033.6	1908.9	23.51				
20	1834.6	1709.9	26.37				
40	1779.5	1654.8	27.23				
60	1755.9	1631.2	27.60				
80	1737.1	1612.4	27.91				
100	1717.1	1592.4	28.25	1717.2	1592.5	28.25	
120	1693.2	1568.5	28.66				
140	1669.6	1544.9	29.06				
160	1650.8	1526.1	29.39				
180	1633.6	1508.9	29.70				
200	1614.1	1489.4	30.05				
220	1595.3	1470.6	30.40				
240	1578.0	1453.3	30.71				
250	1570.1	1445.4	30.86				
Btm							

Date: MARCH 28, 1972

Project: CUOTILLO WELLS

Probe No.: 387

Logged By: A. B. EDWARDS

Probe Correction: 124.7 ohms
SWL (ft.) 18.5 inside plastic pipe

Depth indicated when probe returned to surface (+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 7

Location: T. 11 S., R. 8 E., SEC. 29
FROM 1/4 CORNER, 200' at 220° AZIMUTH

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	1985.5	1860.8	24.16				
20	1759.7	1635.0	27.55				
40	1546.1	1421.4	31.32				
60	1412.3	1287.6	34.05				
80	1323.1	1198.4	36.09				
100	1247.8	1123.1	37.90	1250.2	1125.5	37.86	
120	1209.1	1079.4	39.09				
140	1163.1	1038.4	40.24				
160	1115.0	990.3	41.64				
180	1065.0	943.3	43.09				
200	1022.6	897.9	44.59	1023.5	898.8	44.53	
220	982.7	858.0	45.91				
240	946.8	820.1	47.24				
253	927.4	802.7	48.00				
Btm.							

Date: MARCH 29, 1970

Project: BOOTHILL WELLS

Probe No.: 351

Logged By: A. B. ESMILLA

Probe Correction: 124.7 ohms
SWL (ft.) To ground level
in plastic pipe

Depth indicated when probe
returned to surface
(+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 8

Location: T.H.S. R.P.F. SEC. 23

NEAR NE COR. OF NE 1/4

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2062.9	1938.2	23.11				
20	1893.8	1769.1	25.48				
40	1776.2	1651.5	27.28				
60	1743.3	1618.6	27.81				
80	1716.3	1591.6	28.27				
100	1698.0	1573.3	28.57	1698.1	1573.4	28.57	
120	1680.4	1555.7	28.89				
140	1659.9	1535.2	29.23				
160	1643.3	1518.6	29.53				
180	1626.6	1501.9	29.82				
200	1605.7	1481.0	30.20	1605.7	1481.0	30.20	
220	1583.3	1458.6	30.61				
240	1565.9	1441.2	30.94				
251	1557.7	1433.0	31.09				
Btm							

Date: MARCH 28, 1972

Project: OCOTILLO WELLS

Probe No.: 351

Logged By: A. P. ESPINOSA

Probe Correction: 124.7 ohms
SWL (ft.) 1 inside plastic pipe

Depth indicated when probe returned to surface (+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 9

Location: T. 11 S., R. 8 E., SEC. 17

31° 12' N. at 32° 16' W. 260 ft from Fault Wash & Cut Across Trail Monument ^{Creek}

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2080.8	1956.1	22.88				
20	1948.5	1823.8	24.68				
40	1842.0	1717.3	26.25				
60	1831.9	1707.2	26.40				
80	1818.1	1693.4	26.62				
100	1806.1	1681.4	26.81	1806.2	1681.5	26.81	
120	1792.5	1667.8	27.02				
140	1780.0	1655.3	27.21				
160	1766.1	1641.4	27.45				
180	1752.7	1628.0	27.66				
200	1736.0	1611.3	27.94	1736.2	1612.5	27.92	
220	1720.2	1595.5	28.20				
240	1706.7	1582.0	28.43				
251	1696.6	1571.9	28.60				
Btm							

Date: MARCH 28, 1972

Project: OLD FILL WELLS

Probe No.: 381

Logged By: A. P. SMITH

Probe Correction: 124.7 ohms
SWL (ft.) To ground level inside plastic pipe

Depth indicated when probe returned to surface (+ ft.) +1

WELL THERMAL LOG

Well Name/No.: 10

Location: T 11 S, R. 8 E, SEC. 9, SE 1/4

2250', N 2° 12' from bank benchmark

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2131.3	2006.6	22.23				
20	1952.1	1827.4	24.63				
40	1851.1	1726.4	26.11				
60	1830.6	1705.9	26.43				
80	1813.6	1688.9	26.70				
100	1796.3	1671.6	26.96	1795.2	1670.5	26.98	
120	1777.7	1653.0	27.25				
140	1763.5	1638.8	27.49				
160	1741.9	1617.2	27.84				
180	1727.1	1602.4	28.09				
200	1712.2	1587.5	28.34	1712.2	1587.5	28.34	
220	1692.1	1567.4	28.69				
240	1674.4	1549.7	28.99				
250	1666.8	1542.1	29.11				
Bottom							

Date: MARCH 28, 1972

Project: RECTIFIED WELLS

Probe No.: 381

Logged By: A. B. ESMILLA

Probe Correction: 124.7 ohms
SWL (ft.) 11 inside plastic pipe

Depth indicated when probe
returned to surface
(+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 11

Location: T. 11 S., R. 8 E., SEC. 5, SE corner of NE 1/4

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2093.9	1969.2	22.70				
20	1881.5	1756.8	25.66				
40	1843.7	1719.0	26.23				
60	1823.0	1698.3	26.55				
80	1798.7	1674.0	26.93				
100							
94	1786.9	1662.2	27.12				
Hole blocked at 94 ft. depth							

Date: MARCH 28, 1972Project: OCOTILLO WELLSProbe No.: 381Logged By: A. B. ESMILLAProbe Correction: 124.7 ohmsDepth indicated when probe
returned to surfaceSWL (ft.) 8' inside plastic pipe(+ ft.) 0

WELL THERMAL LOG

Well Name/No.: 12Location: T11S, R8E, SEC. 32200' from corch. B.M. at 230'

Depth (ft.)	Reading (ohms)	Corrected Reading	Temp. °C.	Withdrawal Check			Remarks
				Reading (ohms)	Corrected Reading	Temp. °C.	
10	2009.6	1884.9	23.83				
20	1889.6	1764.9	25.54				
40	1861.6	1736.9	25.96				
60	1840.0	1715.3	26.29				
80	1820.7	1696.0	26.58				
100	1801.9	1677.2	26.87	1801.6	1676.9	26.89	
120	1782.0	1657.3	27.19				
140	1762.6	1637.9	27.51				
160	1743.9	1619.2	27.80				
180	1724.0	1599.3	28.14				
200	1705.1	1580.4	28.45	1708.3	1583.6	28.40	
220	1684.7	1560.0	28.80				
240	1665.0	1540.3	29.14				
252 BTM.	1654.5	1529.8	29.33				