

Appendix U

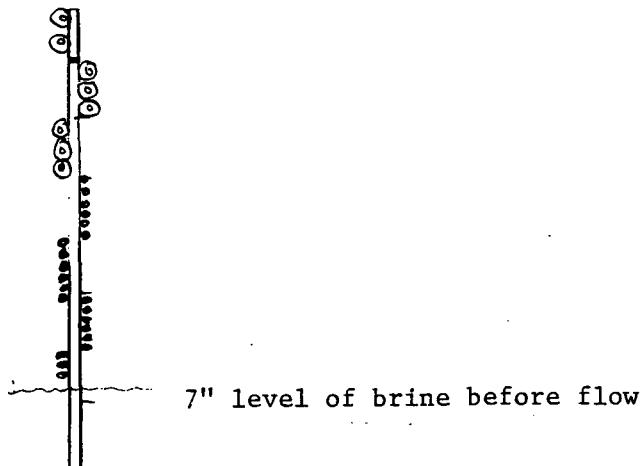


Second Flow Test Raw Field Data

FINAL FLOW TEST LOG

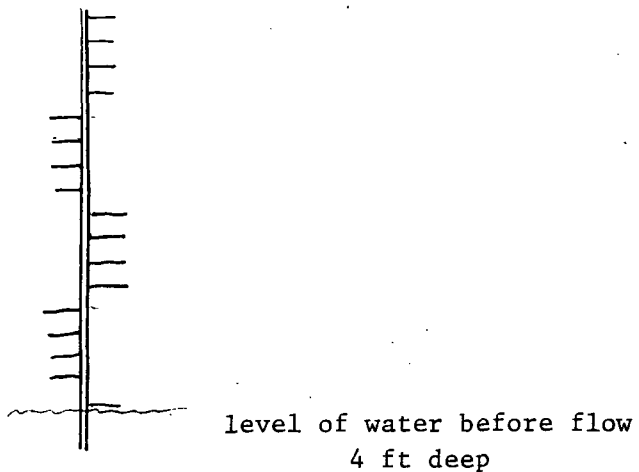
Background

Brine Pond level indicator in front of Blooey line.



Each nut is 1" diameter, distance between nuts is 1". Mark distance down from zero feet mark (top of orange band); mark in feet and inches.

Pit level indicator east of weir box.



Mark water level from zero feet level down. Distance between pegs is 3". Mark level in feet and inches.

Subtract 5" from all readings using this indicator to match readings to indicator of Blooey line.

LOG: 3-20-86

Time

0802 (Static wellhead pressure on choke manifold)
= 250 psig
0805 Closed valve V-3
0841 Choke manifold = 253 psig
0845 Opened master valve for hydrotest (leak or not)
0853 Opened PI-1 = 273 psi
0855 Open V-3 (a little bit)
0859 Choke manifold = 157 psi
0902 SP-2a = 220 psig
0903 Closed V-3 (SP-2a = open)
0905 Opened valve to mud sump (V-2)
0910 Opened valve to blooey
0916 130°F - water out, $\rho = 0.999$; PI-10 = 16 psig
0914 PI-1 = 245 psi
0919 Choke manifold = ~50 psi
0924 PI-11 = 5 psi
0936 PI-11 = ~8 psi
0939 Choke manifold = 100 psi
0942 PI-11 = ~11 psi

Bottom of weir box to top of crossbar = 16".

Bottom of weir box to top of nut on outside glass tube = 14".

1102 Put silicon oil inside the gauge
1115 Valve V-6 opened partly
Valve V-20 closed
Flow rate reduced by opening V-6 only part way -
diverting flow from Blooey line to silencer and weir
box
1121 Valve V-20 completely closed
1217 $\rho = 1.213$ (density of brine); T =
~200°F
1351-1356 Valve V-20 opened
1354-1357 Valve V-6 closed
Flow diverted from weir box to blooey line to make
repairs on leaking access door and replace warped weir
plate in weir box
1444 T1-8 - checking gauge for accuracy
1444 SP3 - hooked up below phase separator, contains
significant diesel (measurable), indicates leakage
1500 PI-9 changed

1514 Close Blooey line - V20
 Open muffler - V6
 Flow directed from Blooey line to muffler and weir box
 Muffler back is still leaking

1522 Change thermometer TI-9, TI-8

1540 Close V-15 and V-13. Open V-14

V-6 open.

PI-3	412
	408-422
TI-3	412
	418
TI-4	431
PI-4	238-292
PI-5	21
TI-5	364-367
PI-6	6
TI-6	367-368

1556

1607 Isolate the sampling area, go to bypass to change orifice plates

1419 Wellhead choke manifold taken out of service

1806 Opening sampling spools. Replaced bottom 2 psig gauges

1815 Take T-18 out for check; o.k. check out

1833 Opening sampling system fully

1909 Isolated the sampling line, to change olifices

1918 Change the rate of V-14

2028 Port SPZA - gas sampler for USC inserted

2108 Opening scientific sampling line

2129 Isolating science loop; returning to bypass;
 intermediate flow rate similar to that earlier this
 afternoon - flow, temperature and pressure are
 expected to recover

2237 Port SPZA - Kennecott taking gas and brine samples

0800-1200 Sampling

LOG: 3-21-86

Time

0235 Pit level between 2"-4". Top of foam is approximately 1" below zero mark (as in front of this log book). Last readings for LI-2 (pit level) were 7"-8" at 0136 hours. Believe earlier readings (Note from earlier readings: readings are considered accurate, discrepancy may be due to foam encroachment on measuring stick) to be in error due to constant flow rate. Reported findings to Edwardo from GeothermEx. Top of foam ~1-1/2" below zero mark. Assuming foam is 2"-3" thick

0638-0640 Valve V-15 opened; valve V-14 opened; valve V-13 closed
Sent water through sampling ports

0648 Temperature probe measured T = 483°F; gauge measurement TI-1, T = 475°F = 8°F difference

0652 TI-8 probe T = 465°F; TI-8 gauge T = 471°F = 6°F difference
Probe T = 479°F

0704 Changed gauge; TI-1 reading may have been off

0815 Valve V-14 partly closed; changed flow rate, decreased

1243 Closed V-3; well shut down. PI-1 = 475 psig

1248 Opened top valve of the well

1249 OTIS start logging spindle. Pressure log with dual tool

1331-1332 Valve V-3 start to open - opened
PI-1 = 360 psig
Well started flowing immediately

1551 Shut down well
WE ARE FREE!

1601 Well flows

1618 Isolate the scientific line; fully (max. flow) open the bypass line

1620 Water overflow from muffler

1632 Took off SPZA pressure gauge, installing a separator with a pressure gauge on it; pressure gauge may not be calibrated

1730 Returning to science loop; returning to flow prior to maximum flow

2158 Shut well down

2201 SPZA - 480-500

2203 SPZA - 505-510

2215 SPZA - 463 psig

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1400-0200 shift: Susumu Okubo
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Note: TI-7 difficult to read at night