

WELL NAME _____ Yarity 1025
 OPERATOR _____ PGE
 PERMIT NUMBER _____ PAS2D013BIND
 DATE OF AN+A4:B15ALYSIS _____ 10/10/2013
 ANALYST _____ Platt

WELL AND FORMATION PARAMETERS

initial pressure at the top of the injection formation, p(i) (psia) _____
 injection rate, q (bwpd) _____
 length of injection time, (months) _____
 viscosity, mu (cp.) _____
 specific gravity of liquid _____
 formation volume factor, beta (1 for aqueous liquids) _____
 permeability, k (md.) _____
 reservoir thickness, h (ft.) _____
 compressibility, c(t) 1/psi _____
 porosity, phi, ratio _____
 surface elevation KB, (ft.) _____
 depth to injection zone, (ft) _____
 end of cross-section, (ft.) _____

CALCULATION OF CRITICAL PRESSURE RISE

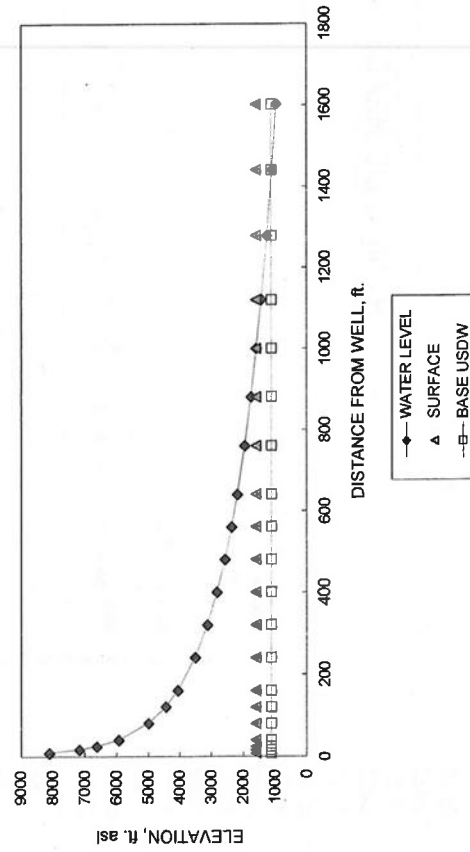
depth of concern, feet below KB (ft.) _____
 critical pressure rise to lift liquid to depth of concern, (psi) _____ 2289.7243

| DISTANCE, pressure | WATER LE SURFACE | BASE USD |
|--------------------|------------------|-----------|
| 8 | 7411.1103 | 8107.2854 |
| 16 | 6916.8053 | 7171.5625 |
| 24 | 6627.6555 | 6624.1997 |
| 40 | 6263.3697 | 5934.6042 |
| 80 | 5769.0648 | 4998.8813 |
| 120 | 5479.9149 | 4451.5185 |
| 160 | 5274.7598 | 4063.1585 |
| 240 | 4985.6099 | 3515.7957 |
| 320 | 4780.4549 | 3127.4356 |
| 400 | 4621.3242 | 2826.2001 |
| 480 | 4491.305 | 2580.0728 |
| 560 | 4381.3753 | 2371.9751 |
| 640 | 4286.1499 | 2191.7127 |
| 760 | 4163.5981 | 1959.7213 |
| 880 | 4059.0506 | 1761.8121 |
| 1000 | 3967.8886 | 1589.2418 |
| 1120 | 3887.0704 | 1436.2523 |
| 1280 | 3791.8449 | 1255.9899 |
| 1440 | 3707.8502 | 1096.9872 |
| 1600 | 3632.7143 | 954.75441 |

1425 Note: add 14.7 to psig for psia
 -1000 Note: injection is negative

120
 1
 1.22
 1
 2.2
 90
 3.00E-06
 0.03
 1610
 7532
 1600
 500

**HYDRAULIC HEAD
 RELATION TO SURFACE AND BASE OF USDW**

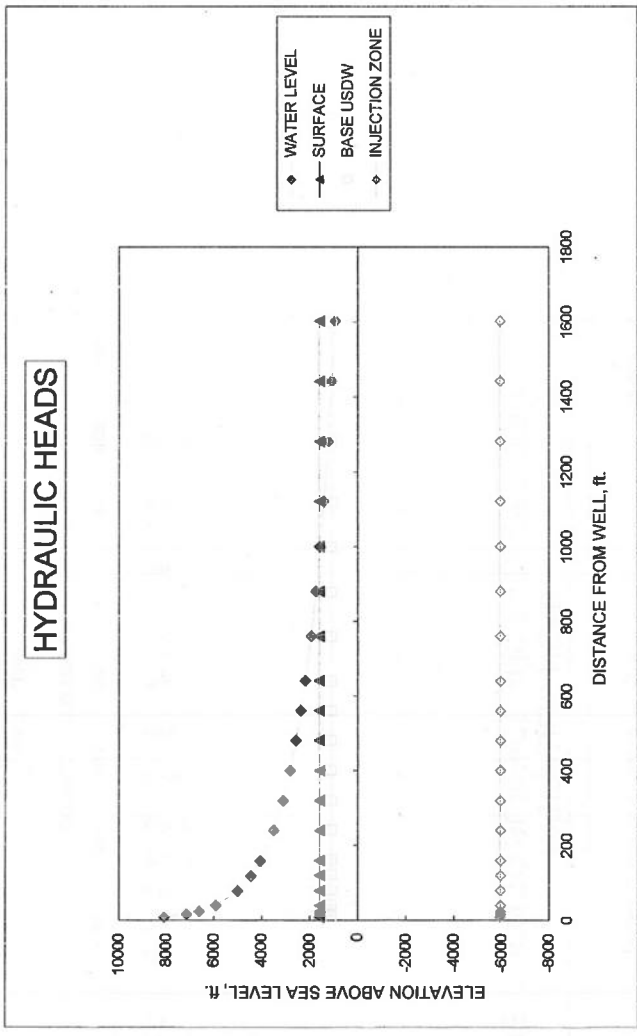


RADIAL DISTRIBUTION OF PRESSURE AROUND WELL C

linear term _____ -356.5657
 E(i) term _____ 4.489E-10

INJECTION ZONE

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