

INTERFERENCE BETWEEN ~~N~~ 2 & 1, 5, 4

G107225

$r = 3918$ (2-1)

$S = 5 \times 10^{-4}$

$T = \frac{132,300}{104,500}$

$117,581 \text{ md ft}$

$= \frac{117,581}{1000} \times .3284147 \times \frac{57.31}{.18}$

$100,000 = 10456 \text{ gpd/ft} = 12,295 \text{ gpd/ft}$

$\approx 300^\circ\text{F}$

$t = 5 \text{ yr} = 1825 \text{ d}$

$u = \frac{1.87 \times 3918^2 \times 5 \times 10^{-4}}{12295 \times 1825} = 6.4 \times 10^{-4}$ $w(u) \approx 6.7775$

$q = \frac{114.6 \times 833 \times 6.7775}{12295} = 52.62'$
 $= 20.94 \text{ psi}$

$r = 5280$ (2-4)

$u = \frac{1.87 \times 5280^2 \times 5 \times 10^{-4}}{12295 \times 1825} = 1.16 \times 10^{-3}$ $w(u) \approx 6.2$

$q = \frac{114.6 \times 833 \times 6.2}{12295} = 48.14'$
 $= 19.16 \text{ psi}$

$r = 6160$ (2-5)

$u = \frac{1.87 \times 6160^2 \times 5 \times 10^{-4}}{12295 \times 1825} = 1.6 \times 10^{-3}$ $w(u) \approx 5.713$

$q = \frac{114.6 \times 833 \times 5.713}{12295} = 27.71'$
 $= 11.03 \text{ psi}$

#2 interf.

100	64.01
500	53.34
900	42.68

INTERFERENCE BETWEEN 2D (N). WELLS AT
RAD. EQUIV TO USGS #2 (7590')

$$r = 7590$$

$$T = \frac{75,000}{1000} \times .2284147 \times \frac{61.2}{.43} = 3506 \text{ gpd/ft}$$

$$S = .0005$$

$$t = 1825 \text{ d}$$

$$u = \frac{1.87 \times 7590^2 \times .0005}{3506 \times 1825} = 8.418 \times 10^{-3} \quad w(a) = 4.2086$$

$$a = \frac{114.6 \times 2500 \times 4.2086}{3506} = 343.9144'$$

$$= \quad \times \frac{61.2}{144} = 146.2 \text{ psi}$$

Table 1

X	Y	Q	$\Delta_0 / \log \text{ cycle}$
200	27.5	16.0	12.5
225	30.	11.25	20.0
250	43.6	13.74	18.20
300	59.7	13.16	22.80
350	73.4	12.28	28.5
400	92.2	11.76	34.0
740	130	10.00	74
5/10	800	189	10.0

$$-13.26433759 + 0.2301729558 Q$$

~~$$-2.9819 + 0.256524$$~~

dd vs Q

$\text{dd} = 15.242 - 2.9819 (Q)$
 $a_{y,x} = 18.499$ $a_0 = 11.432$ $a_1 = .02470296574$
 $r^2 = 0.9354$ $r = .8723$

100	1.8 9.75
800	11.4 170.87
500	10.7 101.82

$$-9.171247725 + 0.1112926131 Q$$

~~$$-13.05420309 + 0.1248549884 (Q)$$~~

$\frac{\Delta_0}{\log \text{ cycle}}$ vs Q

$$\frac{\Delta_0}{\log \text{ cycle}} =$$

$r^2 = 0.99498$ 1.989602138
 $a_{y,x} = 6.426164486$
 $a_0 = 1.492240391$
 $a_1 = .003224605445$
 $r = 0.99748$

150	0.574 13.09
200	11.9 46.475
500	44.37 79.86

RR6E 2

Q	$\Delta A / \log \text{cycle}$	Q	$\Delta A / \log \text{cycle}$
			-9.1713.....
200			15.282
300			12.388
400			11.317
500			10.958
600			10.416
700			10.184
750			10.094
800			10.017
250			13.403

$$dd \text{ of } S_{\text{sys}} = -13.26433759 + 0.2301729558Q + [-9.171297705$$

3.897466598

$$+ 0.1112926131 Q \text{ [} \log 2629728 - 2.5124 \text{]}$$

$$= -49.00916413 + 0.663932198 \cdot Q$$

Q	$dd \text{ sys}$	
100	17.384 + $(\frac{24}{25} \cdot 66.68)$	81.39
500	282.96 + 53.34	336.30
800	482.137 +	
900	548.52 + 42.68 = 591.20	As

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