

APT ANALYSIS

SITE: Rainbow Ranch
 Section 14 Township 42 S Range 28 E

REPORT: Hydrogeologic Study for Rainbow Ranch
Murray Milleson Inc December 1986

GEOLOGIC DATA: pg. 5

DEPTH (LSD)	LITHOLOGY
0-10	sand, soil
10-55	sand, silt, clay
55-68	marl, micrite, sand, silt, clay, phosphate
68-95	white limestone, marl, phosphate
95 -	clay

Static Water Level at the site is approximately _____ ft. msl.
 Base of the ^{unnamed (carbonate zone?)} aquifer at the site is estimated at _____ ft. msl.

WELL DESCRIPTIONS:

Well	Diam. (in)	Total Depth	Cased Depth	Screen/ Open	Plane Coords.		
					r	X	Y
PW	8	100	68	?	-		
OB1	4	87	72	?	150		
OB2	4	85	68	?	300		

INFLUENCING FACTORS:

- Q was 100 gpm during first 4 hours of test, then reduced to 87 gpm because surging was noted at 4 hours
- unexpected interference from off-site pump and also noted at 4 hours - water level began to rise at 13 hours (.4 feet)

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Started: _____
Duration: 47 hours
Discharge: 100-87 gpm
Recovery: _____

Comments:

- 1) _____
- 2) _____
- 3) _____
- 4) _____

CONSULTANT'S ANALYSIS: pg. 19

Method: Cooper
Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' /b' ^{GPD/FT³}
<u>OB1</u>	<u>9550</u>	<u>5.4x10⁻⁴</u>	<u>-</u>	<u>4.2x10⁻³</u>
<u>OB2</u>	<u>9550</u>	<u>1.79x10⁻⁴</u>	<u>-</u>	<u>1.1x10⁻³</u>

Comments:

Method: GWAP
Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
<u>1</u>	<u>9530</u>	<u>5.482x10⁻⁴</u>	<u>-</u>	<u>-</u>
<u>2</u>	<u>10,944</u>	<u>1.618x10⁻⁴</u>	<u>-</u>	<u>-</u>

Comments:

Method: WHIP
Results: _____

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
<u>1</u>	<u>9036-13395</u>	<u>3.6-5.5x10⁻⁴</u>	<u>-</u>	<u>1.02x10⁻²</u>
<u>2</u>	<u>7,881-11,796</u>	<u>1.432-2.011x10⁻⁴</u>	<u>-</u>	<u>2.79x10⁻³</u>
<u>both</u>	<u>9,657-12,918</u>	<u>2.2-5.3x10⁻⁴</u>	<u>-</u>	<u>2.47x10⁻³ - 5.53x10⁻⁴</u>

Comments:

REANALYSIS:

Method: _____

Results:

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Comments:

Method: _____

Results:

Well	Transmissivity (GPD/FT)	S	Sy	K' /b'
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Comments:

RECOMMENDED VALUES:

Transmissivity (GPD/FT)	Storage	Sy	Leakance
9500	3×10^{-4}	/	3×10^{-3} gpd/ft ³

Aq K 51 ft/day
 CZ K' 2×10^{-2}

UWLA

REFERENCES:

Aq T-23
 B-48
 Th 25

CZ T+35
 B -23
 Th 58

location * 339800
 905950