



Strata Geological Services
Tarpley, Texas
Wm Feathergail Wilson
PG # 21

Pumping Test Analysis Report

Project: Headwaters MW-6

Number: MW-6

Client: Headwaters GWCD

Location: KerrCounty, Texas

Pumping Test: Pumping Test 1

Pumping well: Well 1

Test conducted by: WFW Strata Geological Services

Test date: 5/22/2006

Aquifer Thickness: 243.00 ft

Discharge rate: 79.58 [U.S. gal/min]

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft ² /d]	K [ft/d]	S
1	MW-6	WFW Strata Geologic	5/22/2006	Theis	Well 1	1.58×10^3	6.50×10^0	3.33×10^{-2}



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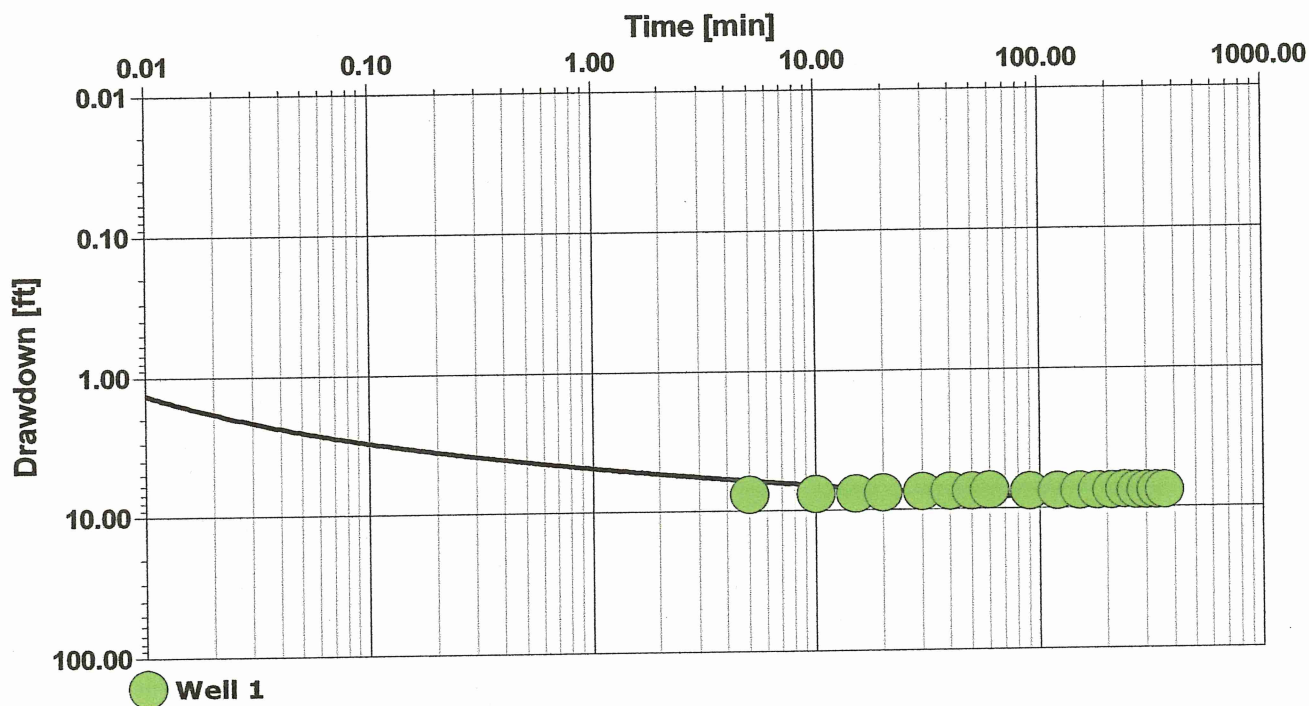
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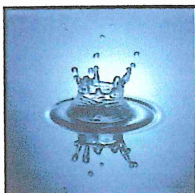


Calculation after Theis

Observation well	Transmissivity [ft ² /d]	K [ft/d]	Storage coefficient	Ratio K(v)/K(h)	Radial distance to PV [ft]
Well 1	1.58×10^3	6.50×10^0	3.33×10^{-2}	5.13×10^{-2}	0.38

10 HP pump set @ 315'
 Water level @ 147.1'
 Total depth = 605' into Ellenburger Group
 Fully penetrating into the Hensel North sand and gravel
 S & T appear to be reasonable
 Recovery was instantaneous

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 William Feathergail Wilson, PG # 21



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Pumping Test - Water Level Data

Page 1 of 1

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Observation well: Well 1

Static water level [ft]: 0.00

Radial distance to PW [ft]: -

	Time [min]	Water Level [ft]	Drawdown [ft]
1	0	0.00	0.00
2	5	7.62	7.62
3	10	7.62	7.62
4	15	7.55	7.55
5	20	7.50	7.50
6	30	7.39	7.39
7	40	7.42	7.42
8	50	7.44	7.44
9	60	7.35	7.35
10	90	7.49	7.49
11	120	7.48	7.48
12	150	7.47	7.47
13	180	7.48	7.48
14	210	7.50	7.50
15	240	7.42	7.42
16	270	7.48	7.48
17	300	7.48	7.48
18	330	7.45	7.45
19	360	7.50	7.50



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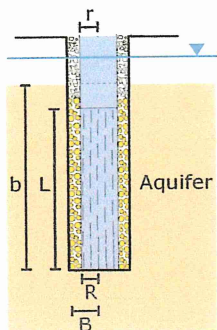
Wells

Project: Headwaters MW-6

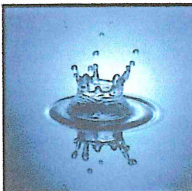
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	Name	X [ft]	Y [ft]	Elevation	Benchmark	Penetration	R [ft]	L [ft]	r [ft]	B [ft]	b [ft]
1	Well 1	300	300			Fully	0.38	250	0.38	0.75	458

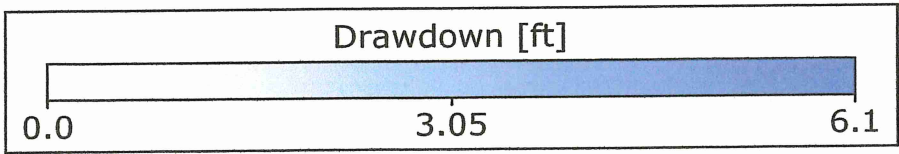
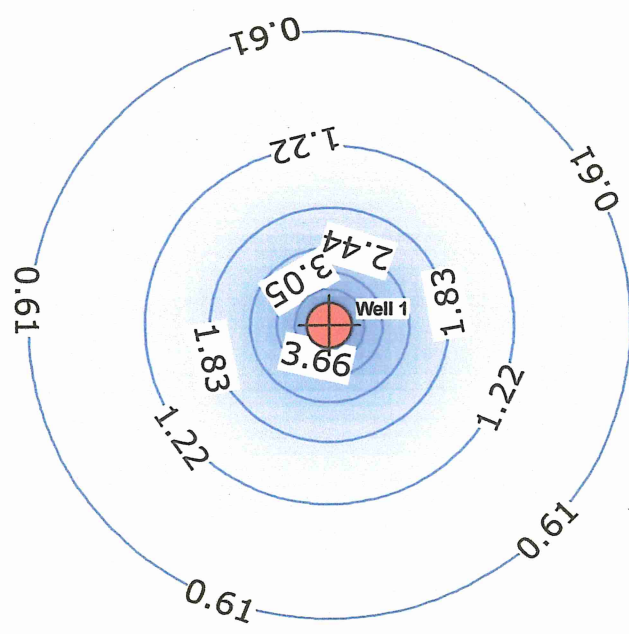


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Site Plan
Project: Headwaters MW-6
Number: MW-6
Client: Headwaters GWCD

Location: KerrCounty, Texas	Scale 1:1000	Map Origin [ft] X: 0 Y: 0
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656.17
574.15
492.13
410.1
328.08
246.06
164.04
82.02
0



0	82.02	164.04	246.06	328.08	410.1	492.13	574.15 [ft]	0
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