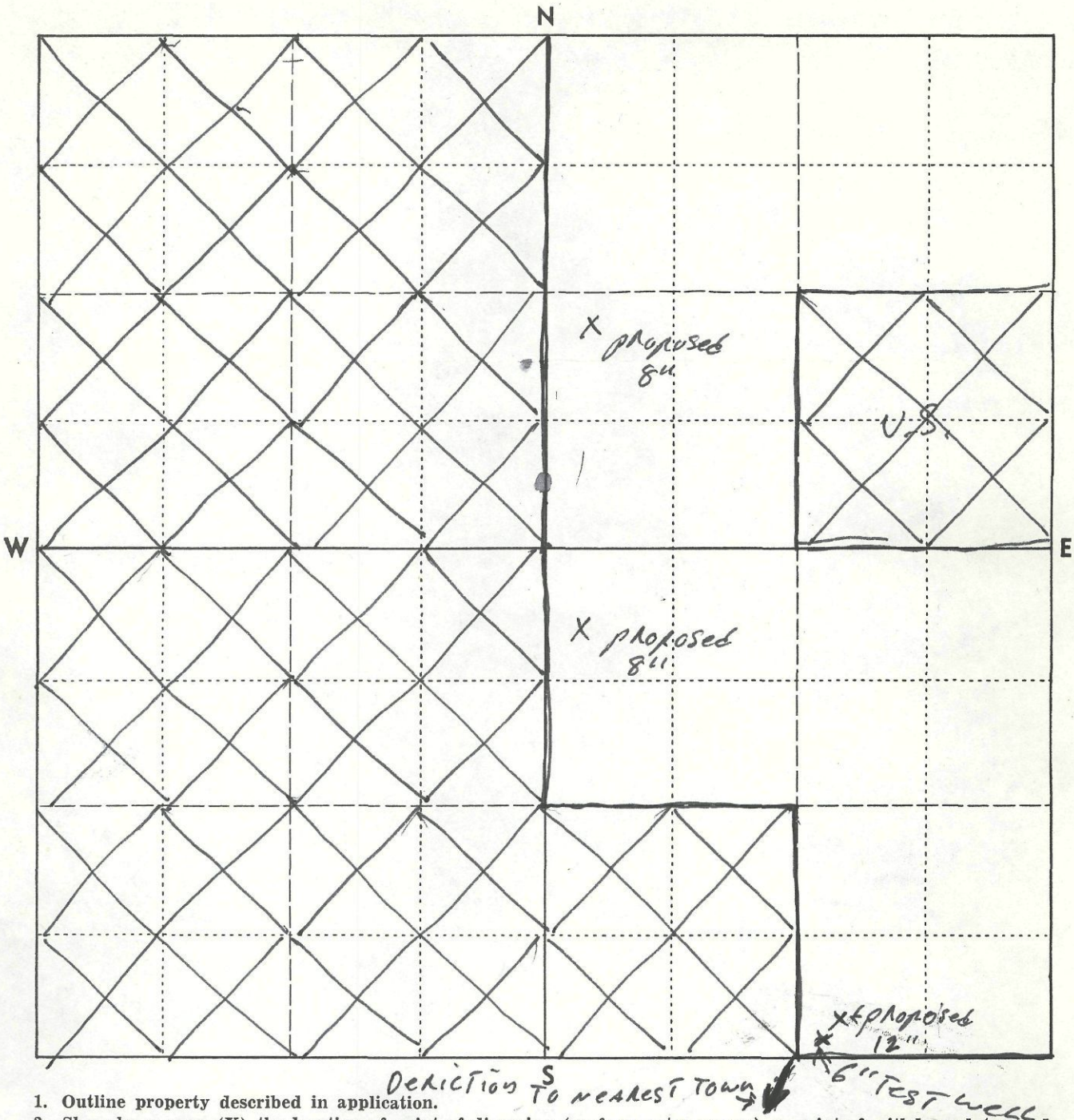
SECTION PLAT G428481

Sec. 24 Twp. 30 N N. R. 23 E



1. Outline property described in application.
2. Show by a cross (X) the location of point of diversion (surface water source) or point of withdrawal (ground water source). For ground water applications, show by a circle (O) the locations of other wells or works within a quarter of a mile.
3. Indicate traveling directions from nearest town.

Scale: 1 inch = 800 feet (each small square = 10 acres)

2 Miles from nearest Town. No wells within one quarter mile nearest Town Pateros Wa.

DEPARTMENT OF ECOLOGY CENTRAL REGION OFFICE
JUN 22 1984
RECEIVED

ECY 040-1-92

G 428481

COMPLETE THIS FORM ONLY IF THIS APPLICATION INCLUDES IRRIGATION AS A USE

In order to implement the provisions of Initiative Measure Number 59, the Family Farm Water Act which was passed by the voters on November 3, 1977, we must ask the following question:

Does the total number of acres in which you have controlling interest in the State of Washington exceed 2000 acres for the following three categories:

1. Lands that are being irrigated under water rights acquired after December 8, 1977.
2. Lands that may be irrigated under applications now on file with the Department of Ecology.
3. Lands that may be irrigated under this application.

☐ YES

☒ NO

Please sign and return Don Talley
(Signature of Landowner)

May 25 - 1984
(Date)

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CENTRAL REGION OFFICE
JUN 22 1984

ATTACHMENT TO APPLICATION

ECY 040-1-14(a)

G428481

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Donald Tetley Address 27021 SE 150th Issaquah Wa

(2) LOCATION OF WELL: County Okanogan Co. SW ¼ SW ¼ Sec. 12 T. 30 N., R. 23 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☑ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 130 ft. Depth of completed well 130 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 130 ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☑ ..." Diam. from ... ft. to ... ft.

Perforations: Yes ☑ No ☐
Type of perforator used Mill Knife
SIZE of perforations 3/8 in. by 2 in.
5 perforations from 125 ft. to 124 ft.
5 perforations from 82 ft. to 79 ft.
... perforations from ... ft. to ... ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type ... Model No.
Diam. ... Slot size ... from ... ft. to ... ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ... ft. to ... ft.

Surface seal: Yes ☑ No ☐ To what depth? 20 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? ... Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: ... H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 19 ft. below top of well Date 5-12-84
Artesian pressure ... lbs. per square inch Date
Artesian water is controlled by ... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 5-12-84
Bailer test 20 gal./min. with 40 ft. drawdown after 3 hrs.
Artesian flow ... g.p.m. Date
Temperature of water ... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Clay Soil Brown	0	8
Sand + Rock	8	28
Sand	28	55
Sand + Rock. W/B	55	70
Sand Coarse Rock W/B	70	84
Sand W/B	84	120
Coarse Sand + Rock. W/B	120	128
Granite Sand	128	130

Work started 5-10-84, 19.... Completed 5-12-84, 19....

DEPARTMENT OF ECOLOGY CENTRAL REGION OFFICE
RECEIVED JUN 22 1984

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME AAA+ Well Drilling (Person, firm, or corporation) (Type or print)
Address Rt 1 Box 380 Malaga Wa 98828
[Signed] ... (Well Driller)
License No. 0676 Date 6-2-84, 19....

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

DATA SET: W5

CLIENT: Don Tatley
LOCATION: Tatley Ranch
COUNTY: Okanogan, Wash.
PROJECT: Well Pumping Test Data
AQUIFER: Data from Well Report
WATER TABLE: 70.37 feet

DATE: 5 14 92
WELL NO.: 5
FLOW RATE: 5775.00 cuft/day
WELL DEPTH: 84.42 feet
THICKNESS: 14.04 feet

RADIUS OF FLOWING WELL: 4.000 in
RADIUS OF WELL CASING: 4.000 in
The following depths are from top of Aquifer:
PUMPING WELL: SCREENED FROM 0.00 TO 13.62 feet

FITTING ERROR: 11.360 PERCENT

Theis, 1935: Confined Aquifer

MODEL PARAMETERS:

STORAGE COEF: 3.690E-06 FREE TRANSM: 1585.932 sqft/day FREE

PARAMETER BOUNDS FROM EQUIVALENCE ANALYSIS

	MINIMUM	BEST	MAXIMUM
STORAGE:	2.210E-07	3.690E-06	6.162E-05
TRANSM:	1321.610	1585.932	1903.118

EQUIVALENT MODELS:

STORAGE	TRANSMISSIVITY (sqft/day)	FIT (%)
3.690E-06	1585.932	11.35971
3.690E-06	1585.932	11.35971
2.210E-07	1903.118	11.40951
6.162E-05	1321.610	12.81346

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
1	5.00	6.54	4.99	23.69
2	10.00	6.54	5.19	20.62
3	15.00	6.54	6.14	6.10
4	20.00	6.54	6.25	4.32
5	30.00	6.54	6.40	2.01
6	45.00	6.22	6.55	-5.35
7	60.00	6.22	6.65	-6.97
8	75.00	6.41	6.73	-5.00
9	120.0	6.75	6.89	-2.11
10	180.0	6.77	7.03	-3.85
11	240.0	6.79	7.12	-4.99
12	300.0	6.72	7.20	-7.21
13	360.0	6.68	7.26	-8.78
14	420.0	6.72	7.31	-8.91
15	490.0	6.75	7.37	-9.20

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

	S	T
S	0.05	
T	0.05	1.00

14-Oct-92

:	W5				
Well Depth (ft.0000):		84			
Well Depth (rem inches):		5.00			
Static FEET:		70			
Static INCHES:		4.500			CORRECTED
	b	14.04		s(feet)	S(ft)
Sounding Static FEET:		80	9.000 <--INCHES	10.38	6.54
	:10	80	9.000	10.38	6.54
		80	9.000	10.38	6.54
		80	9.000	10.38	6.54
		80	9.000	10.38	6.54
	:45	79	8.000	9.29	6.22
		79	8.000	9.29	6.22
	1:15	80	3.500	9.92	6.41
		81	8.000	11.29	6.75
		81	9.000	11.38	6.77
	4:00	81	10.500	11.50	6.79
		81	6.000	11.13	6.72
		81	4.000	10.96	6.68
		81	6.000	11.13	6.72
	8:10	81	8.000	11.29	6.75
Recovery t	:01	72	1.000	1.71	
		72	0.000	1.63	
		72	0.000	1.63	
	:05	71	11.000	1.54	
		71	9.500	1.42	
		71	8.500	1.33	
		71	7.000	1.21	
		71	5.000	1.04	
		71	4.500	1.00	
	1:00	71	4.000	0.96	
	12:25	70	6.000	0.13	

DATA SET: W5

CLIENT: Don Tatley
LOCATION: Tatley Ranch
COUNTY: Okanogan, Wash.
PROJECT: Well Pumping Test Data
AQUIFER: Data from Well Report
WATER TABLE: 70.37 feet

DATE: 5 14 92
WELL NO.: 5
FLOW RATE: 5775.00 cuft/day
WELL DEPTH: 84.42 feet
THICKNESS: 14.04 feet

RADIUS OF FLOWING WELL: 4.000 in
RADIUS OF WELL CASING: 4.000 in
The following depths are from top of Aquifer:
PUMPING WELL: SCREENED FROM 0.00 TO 13.62 feet

FITTING ERROR: 24.892 PERCENT

Theis, 1935: Confined Aquifer

MODEL PARAMETERS:

STORAGE COEF: 2.500E-01 FIXED TRANSM: 617.037 sqft/day FREE

PARAMETER BOUNDS FROM EQUIVALENCE ANALYSIS

	MINIMUM	BEST	MAXIMUM
STORAGE:	2.500E-01	2.500E-01	2.500E-01
TRANSM:	528.654	617.037	727.632

EQUIVALENT MODELS:

STORAGE	TRANSMISSIVITY (sqft/day)	FIT (%)
2.500E-01	727.632	30.27859
2.500E-01	528.654	29.64668

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
1	5.00	6.54	3.84	41.26

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
2	10.00	6.54	4.35	33.38
3	15.00	6.54	5.29	18.98
4	20.00	6.54	5.59	14.39
5	30.00	6.54	5.98	8.47
6	45.00	6.22	6.35	-2.20
7	60.00	6.22	6.61	-6.36
8	75.00	6.41	6.81	-6.30
9	120.0	6.75	7.22	-7.10
10	180.0	6.77	7.58	-12.04
11	240.0	6.79	7.83	-15.42
12	300.0	6.72	8.03	-19.52
13	360.0	6.68	8.19	-22.62
14	420.0	6.72	8.32	-23.89
15	490.0	6.75	8.46	-25.33

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

	S	T
S *	0.00	
T	0.00	1.00

DATA SET: W5R

CLIENT: Don Tatley
LOCATION: Tatley Ranch
COUNTY: Okanogan, Wash.
PROJECT: Well Pumping Test Data
AQUIFER: Data from Well Report
WATER TABLE: 70.37 feet

DATE: 5 14 92
WELL NO.: 5
FLOW RATE: 6737.50 cuft/day
WELL DEPTH: 84.42 feet
THICKNESS: 14.04 feet
DURATION OF PUMPING: 490.00 min

RADIUS OF FLOWING WELL: 4.000 in
RADIUS OF WELL CASING: 4.000 in
The following depths are from top of Aquifer:
PUMPING WELL: SCREENED FROM 0.00 TO 13.62 feet

FITTING ERROR: 14.521 PERCENT

Neuman, 1975: Par. Pen. Unconfined Aquifer

MODEL PARAMETERS:

STORAGE COEF: 4.660E-04 FREE
TRANSM: 1406.690 sqft/day FREE
ANISOTROPY [SQRT(Kz/Kr)]: 0.61760 FREE
SPECIFIC YIELD: 2.238E-02 FREE

PARAMETER BOUNDS FROM EQUIVALENCE ANALYSIS

	MINIMUM	BEST	MAXIMUM
STORAGE:	4.655E-04	4.660E-04	4.665E-04
TRANSM:	1227.368	1406.690	1581.313
SPC. YIELD:	0.000	0.022	1.905
ANISOTR.:	0.057	0.618	6.690

EQUIVALENT MODELS:

STORAGE	TRANSMISS. (sqft/day)	SPC. YIELD	ANISOTR.	FIT (%)
4.660E-04	1406.690	0.02238	0.618	14.521

4.660E-04	1406.690	0.02238	0.618	14.521
4.660E-04	1581.313	0.00306	0.321	17.328
4.660E-04	1227.368	0.22725	1.324	17.353
4.658E-04	1389.848	0.63924	3.608	14.797
4.661E-04	1423.735	0.00078	0.106	15.706
4.655E-04	1392.723	1.90479	6.690	15.034
4.665E-04	1420.796	0.00026	0.057	17.647

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
1	1.00	1.71	1.74	-1.86
2	2.00	1.63	1.68	-3.54
3	3.00	1.63	1.63	-0.557
4	5.00	1.54	1.55	-0.946
5	10.00	1.42	1.39	1.77
6	15.00	1.33	1.27	3.76
7	25.00	1.21	1.12	7.41
8	40.00	1.04	0.966	7.09
9	50.00	1.00	0.892	10.75
10	60.00	0.960	0.832	13.24
11	745.0	0.130	0.192	-48.10

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

S	0.00			
T	0.00	1.00		
B	0.00	0.00	0.27	
A	0.00	0.00	-0.38	0.79
	S	T	B	A

DATA SET: W7A

CLIENT: Don Tatley
LOCATION: Tatley Ranch
COUNTY: Okanogan, Wash.
PROJECT: Well Pumping Test Data
AQUIFER: Data from Well Report
WATER TABLE: 128.29 feet

DATE: 5 21 92
WELL NO.: 7
FLOW RATE: 39500.00 cuft/day
WELL DEPTH: 160.00 feet
THICKNESS: 31.71 feet

PUMPING WELL No: 7A
RADIUS FROM PUMPED WELL: 48.00 feet
RADIUS OF WELL CASING: 4.000 in
The following depths are from top of Aquifer:
PUMPING WELL: SCREENED FROM 16.91 TO 30.91 feet
OBSERVATION WELL: SCREENED FROM 0.00 TO 0.00 feet

FITTING ERROR: 34.299 PERCENT

Neuman, 1975: Par. Pen. Unconfined Aquifer

MODEL PARAMETERS:

STORAGE COEF: 5.905E-02 FREE
TRANSM: 12131.370 sqft/day FREE
ANISOTROPY [SQRT(Kz/Kr)]: 0.63877 FREE
SPECIFIC YIELD: 7.510E-02 FREE

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
1	5.00	0.125	0.0963	22.94
2	15.00	0.296	0.216	26.79
3	20.00	0.270	0.250	7.18
4	33.00	0.312	0.321	-2.90
5	40.00	0.270	0.352	-30.62
6	75.00	0.270	0.472	-74.95
7	100.0	0.280	0.533	-90.70
8	115.0	0.296	0.565	-90.88
9	180.0	0.375	0.668	-78.29
10	210.0	0.416	0.705	-69.54
11	270.0	0.540	0.766	-41.90
12	330.0	0.667	0.815	-22.25
13	420.0	0.790	0.875	-10.81
14	480.0	0.875	0.908	-3.85

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
15	540.0	0.960	0.938	2.26
16	600.0	1.06	0.964	9.18
17	660.0	1.16	0.989	15.17
18	720.0	1.27	1.01	20.39
19	780.0	1.39	1.03	26.12
20	840.0	1.50	1.05	29.99
21	900.0	1.54	1.06	30.77

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

	S	T	B	A
S	0.87			
T	-0.03	0.92		
B	0.04	0.13	0.04	
A	0.14	0.12	-0.04	0.51

DATA SET: W7AR

CLIENT: Don Tatley
DATE: 5 21 92
LOCATION: Tatley Ranch
WELL NO.: 7A
COUNTY: Okanogan, Wash.
FLOW RATE: 38500.00 cuft/day
PROJECT: Well Pumping Test Data
WELL DEPTH: 160.00 feet
AQUIFER: Data from Well Report
THICKNESS: 43.00 feet
WATER TABLE: 128.29 feet
DURATION OF PUMPING: 1440.00 min
RADIUS OF FLOWING WELL: 4.000 in
RADIUS OF WELL CASING: 4.000 in
The following depths are from top of Aquifer:
PUMPING WELL: SCREENED FROM 17.00 TO 32.00 feet

FITTING ERROR: 1.624 PERCENT

Neuman, 1975: Par. Pen. Unconfined Aquifer

MODEL PARAMETERS:

STORAGE COEF: 7.043E-03 TRANSM: 4917.809 sqft/day
FREE FREE
ANISOTROPY [SQRT(Kz/Kr)]: 0.48075
FREE
SPECIFIC YIELD: 9.468E-02
FREE

PARAMETER BOUNDS FROM EQUIVALENCE ANALYSIS

	MINIMUM	BEST	MAXIMUM
STORAGE:	4.395E-03	7.043E-03	1.129E-02
TRANSM:	4670.837	4917.809	5071.326
SPC. YIELD:	0.065	0.095	0.173
ANISOTR.:	0.403	0.481	0.647

EQUIVALENT MODELS:

STORAGE	TRANSMISS. (sqft/day)	SPC. YIELD	ANISOTR.	FIT (%)
1.129E-02	4882.409	0.13841	0.574	1.730

* McFarland and Associates *

4.395E-03	4953.464	0.06477	0.403	1.786
6.749E-03	5071.326	0.08602	0.490	1.923
7.565E-03	4670.837	0.11119	0.466	1.933
1.025E-02	4839.602	0.17314	0.647	1.784
5.839E-03	4957.384	0.07001	0.414	1.811
9.241E-03	4941.201	0.15000	0.632	1.917
6.149E-03	4906.154	0.07522	0.419	1.801

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
1	3.00	2.29	2.33	-1.84
2	5.00	2.17	2.15	0.615
3	7.00	2.07	2.06	0.209
4	10.00	2.04	1.98	2.56
5	15.00	1.94	1.92	0.854
6	20.00	1.90	1.88	0.994
7	30.00	1.81	1.81	-0.449
8	40.00	1.75	1.76	-0.793
9	50.00	1.69	1.71	-1.39
10	60.00	1.65	1.66	-1.02
11	75.00	1.58	1.60	-1.43
12	90.00	1.54	1.54	-0.265
13	120.0	1.46	1.44	1.30
14	180.0	1.33	1.27	3.97

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

	S	T	B	A
S	0.56			
T	0.01	1.00		
B	-0.35	0.02	0.43	
A	-0.17	0.00	-0.28	0.83

DATA SET: W15R

CLIENT: Don Tatley
LOCATION: Tatley Ranch
COUNTY: Okanogan, Wash.
PROJECT: Well Pumping Test Data
AQUIFER: Data from Well Report
WATER TABLE: 137.25 feet

DATE: 7 14 92
WELL NO.: 15
FLOW RATE: 96100.00 cuft/day
WELL DEPTH: 178.00 feet
THICKNESS: 10.00 feet
DURATION OF PUMPING: 1440.00 min

RADIUS OF FLOWING WELL: 4.000 in
RADIUS OF WELL CASING: 4.000 in
The following depths are from top of Aquifer:
PUMPING WELL: SCREENED FROM 0.00 TO 0.00 feet

FITTING ERROR: 28.934 PERCENT

Hantush, 1960: Confined Leaky Aquifer

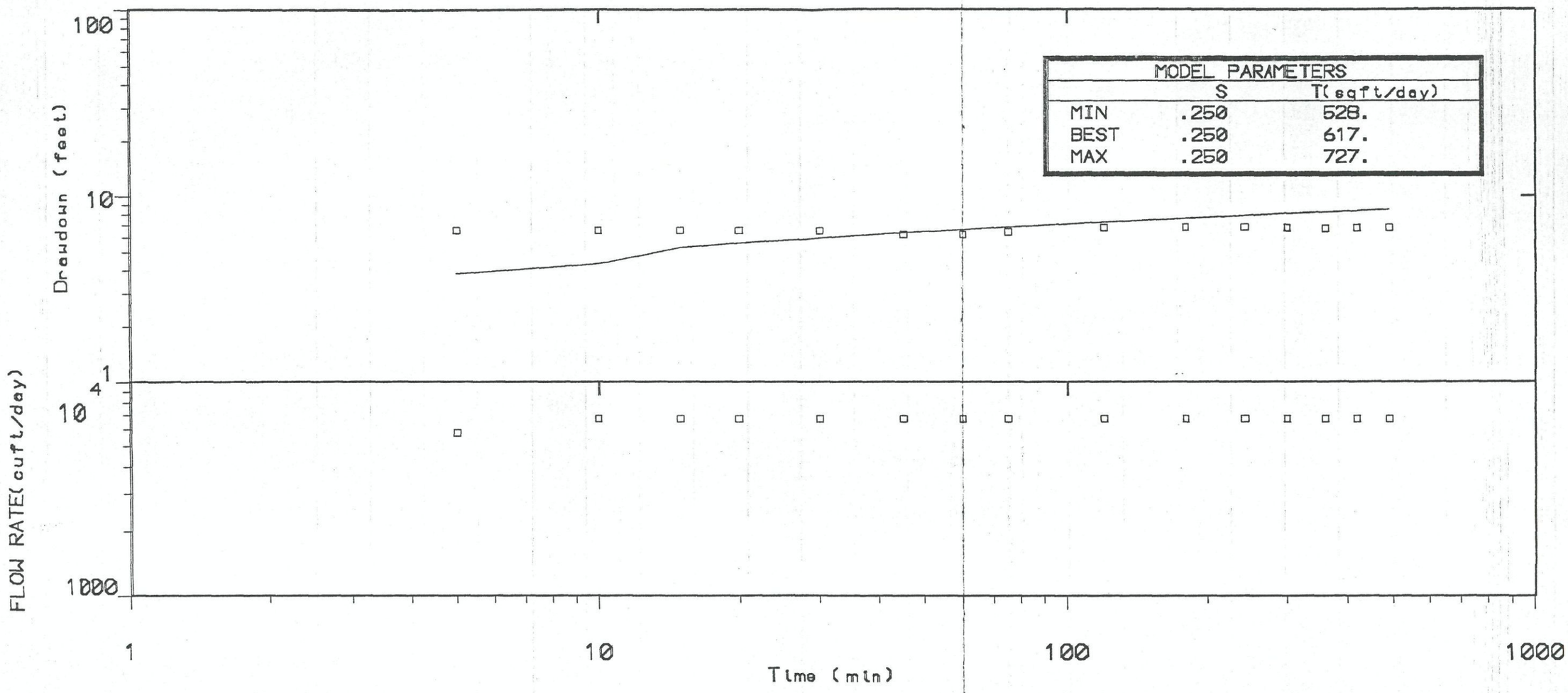
MODEL PARAMETERS:

STORAGE COEF: 1.907E-07 FREE
TRANSM: 19664.262 sqft/day FREE
BETA: 0.06403 FREE

No.	TIME (min)	DRAWDOWN (feet) DATA	SYNTHETIC	DIFFERENCE (percent)
1	1.00	1.00	1.41	-41.27
2	5.00	0.910	1.10	-20.93
3	20.00	0.835	0.832	0.242
4	80.00	0.667	0.571	14.30
5	215.0	0.580	0.397	31.53

PARAMETER RESOLUTION MATRIX:
"*" INDICATES FIXED PARAMETER

	S	T	B
S	0.00		
T	0.00	1.00	
B	0.00	0.00	0.00



MODEL PARAMETERS		
	S	T(sqft/day)
MIN	.250	528.
BEST	.250	617.
MAX	.250	727.

for: Don Tatley

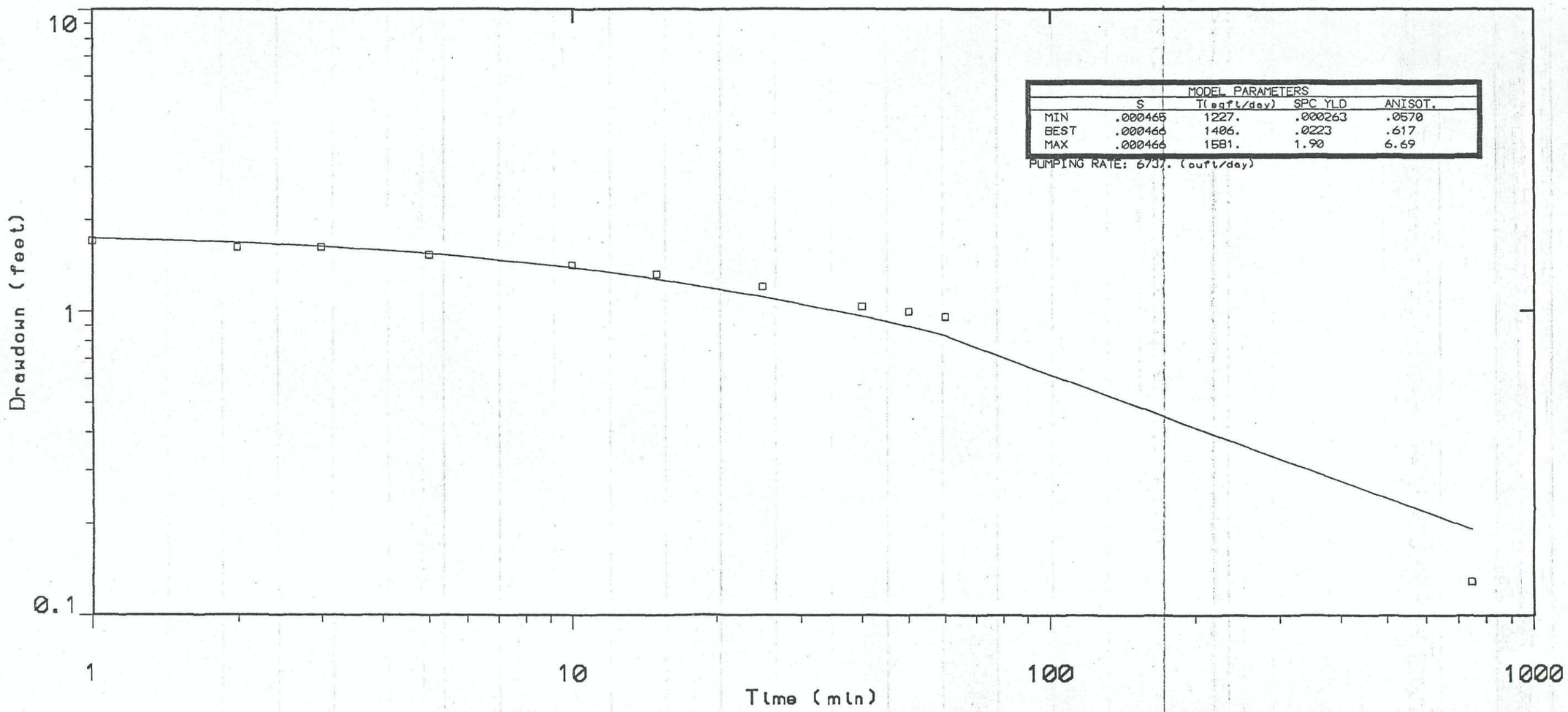
by: McFarland and Associates

Aquifer: Data from Well Report
Thickness: 14.0 Depth: 84.4 feet
Screen: Base: 13.6 Top: 0.00 feet
Casing Radius:4.00 in

Well Pumping Test Data

Tatley Ranch
Okanogan, Wash.

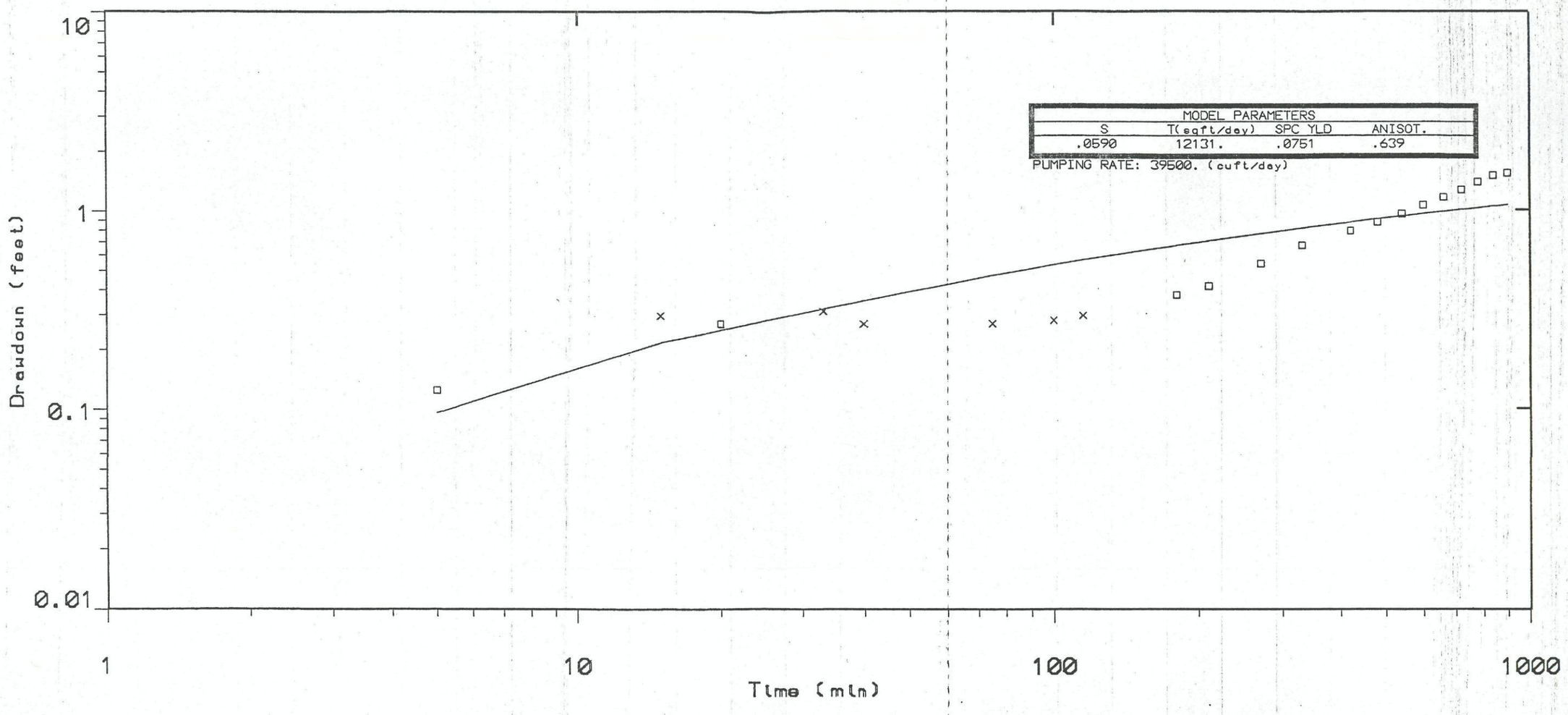
Date: 5 14 92 | Well No.: 5



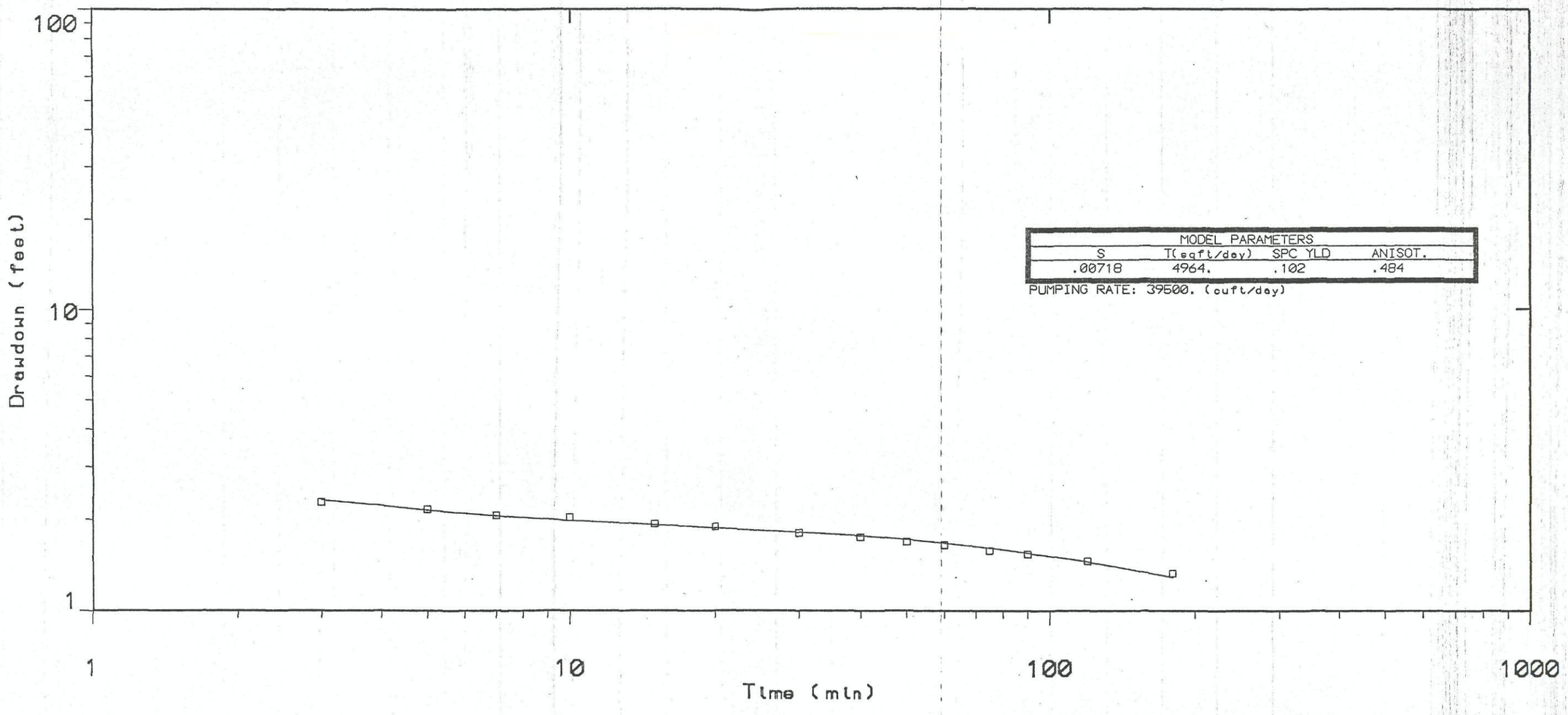
MODEL PARAMETERS	S	T(sqft/day)	SPC YLD	ANISOT.
MIN	.000465	1227.	.000263	.0570
BEST	.000466	1406.	.0223	.617
MAX	.000466	1581.	1.90	6.69

PUMPING RATE: 6737. (cuft/day)

for: Don Tatley	Well Pumping Test Data
by: McFarland and Associates	Tatley Ranch Okanogan, Wash.
Aquifer: Data from Well Report Thickness: 14.0 Depth: 84.4 feet Screen: Base: 13.6 Top: 0.00 feet Casing Radius: 4.00 in	Date: 5 14 92 Well No.: 5



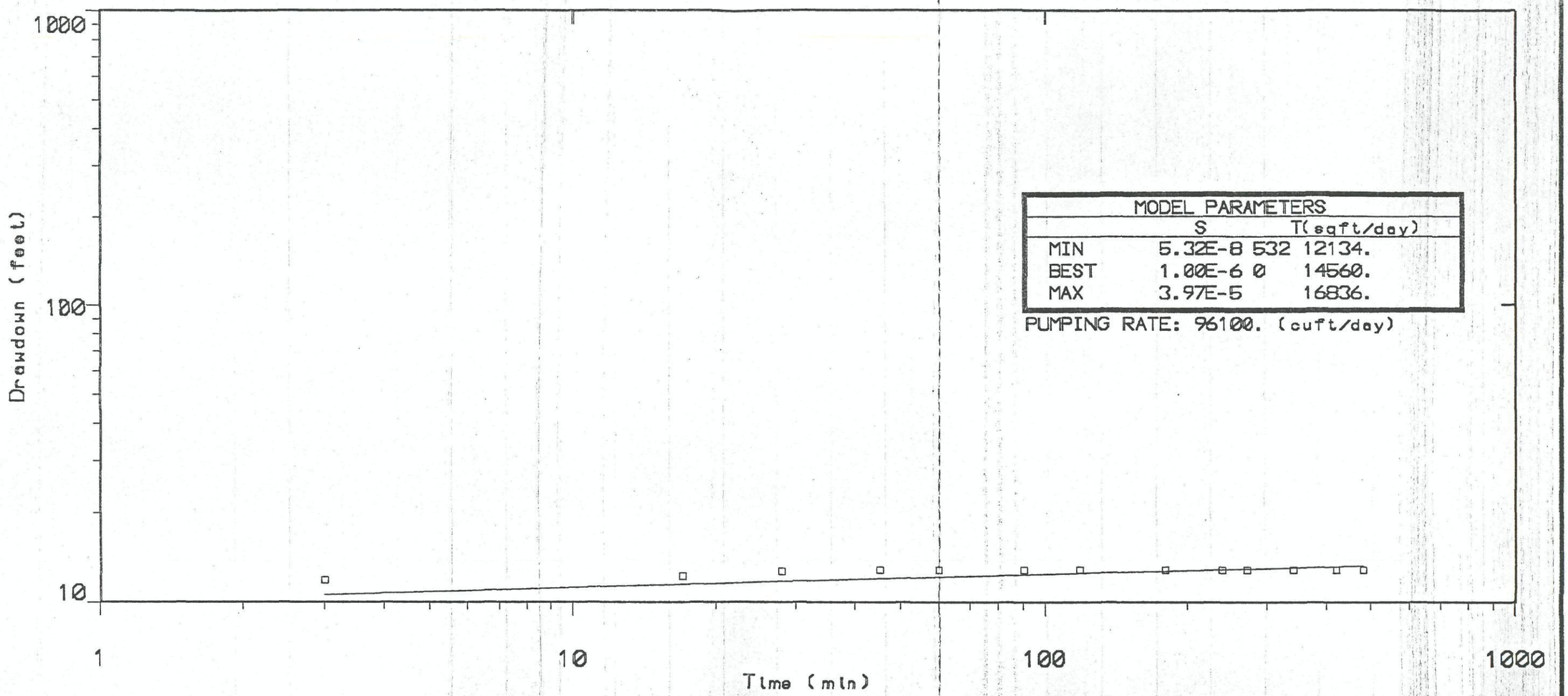
for: Don Tatley	Well Pumping Test Data
by: McFarland and Associates	Tatley Ranch Okanogan, Wash.
Aquifer: Data from Well Report Thickness: 31.7 Depth: 160. feet Screen: Base: 30.9 Top: 16.9 feet Distance: 48.0 feet Pumping well: 7A	Date: 5 21 92 Well No.: 7



MODEL PARAMETERS			
S	T(sqft/day)	SPC YLD	ANISOT.
.00718	4964.	.102	.484

PUMPING RATE: 39500. (cuft/day)

for: Don Tatley	Well Pumping Test Data
by: McFarland and Associates	Tatley Ranch Okanogan, Wash.
Aquifer: Data from Well Report Thickness: 43.0 Depth: 160. feet Screen: Base: 32.0 Top: 17.0 feet Casing Radius:4.00 in	Date: 5 21 92 Well No.: 7A



MODEL PARAMETERS			
	S		T(sqft/day)
MIN	5.32E-8	532	12134.
BEST	1.00E-6	0	14560.
MAX	3.97E-5		16836.

PUMPING RATE: 96100. (cuft/day)

for: Don Tatley

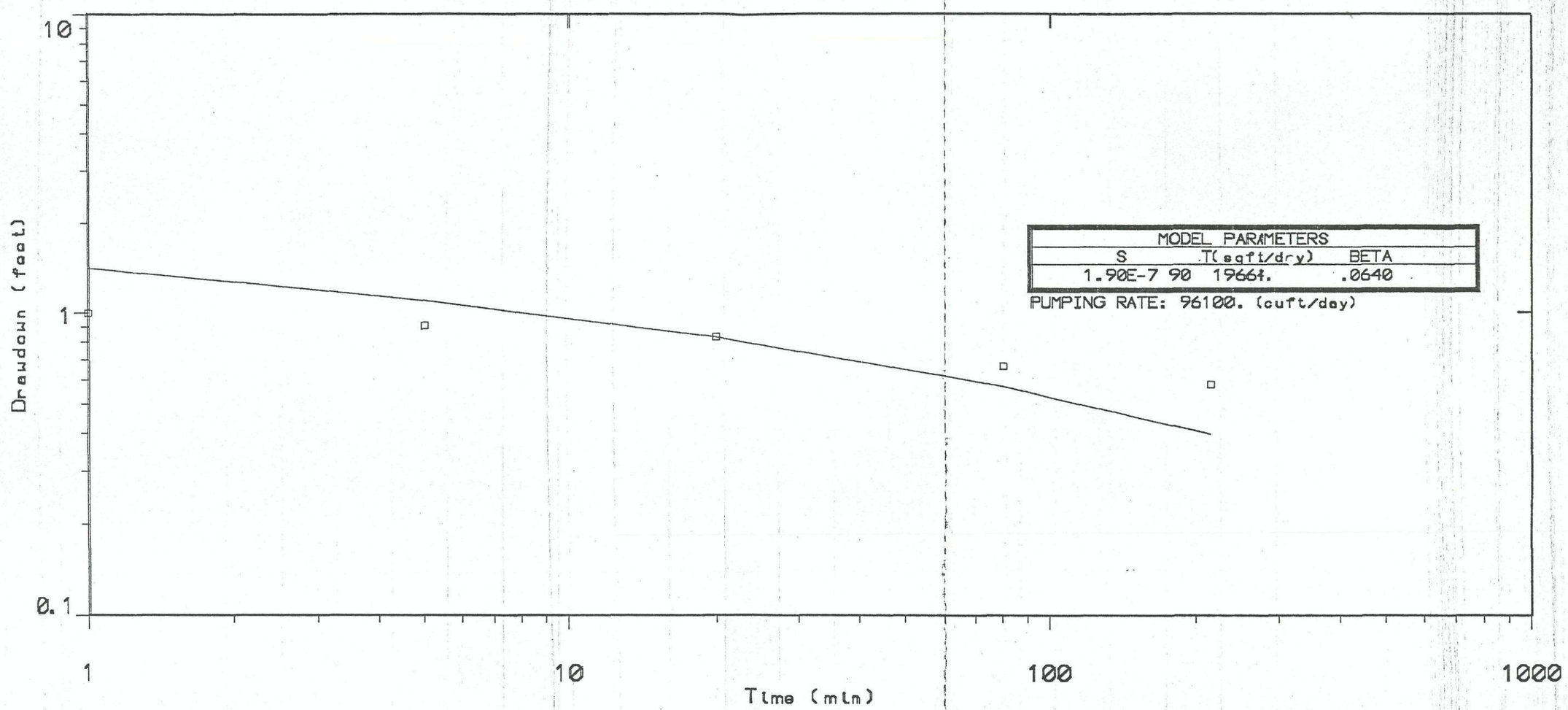
by: McFarland and Associates

Aquifer: Data from Well Report
Thickness: 10.0 Depth: 178. feet
Screen: Base: 0.00 Top: 0.00 feet
Casing Radius: 4.00 in

Well Pumping Test Data

Tatley Ranch
Okanogan, Wash.

Date: 7 14 92 | Well No.: 15



MODEL PARAMETERS		
S	T(sqft/dry)	BETA
1.90E-7 90	1966%.	.0640

PUMPING RATE: 96100. (cuft/day)

for: Don Tatley	Well Pumping Test Data
by: McFarland and Associates	Tatley Ranch Okanogan, Wash.
Aquifer: Data from Well Report Thickness: 10.0 Depth: 178. feet Screen: Base: 0.00 Top: 0.00 feet Casing Radius:4.00 in	Date: 7 14 92 | Well No.: 15