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GEOLOGIC LOGS

AVB38-01
AVB38-02
AVB38-03
AVB38-04

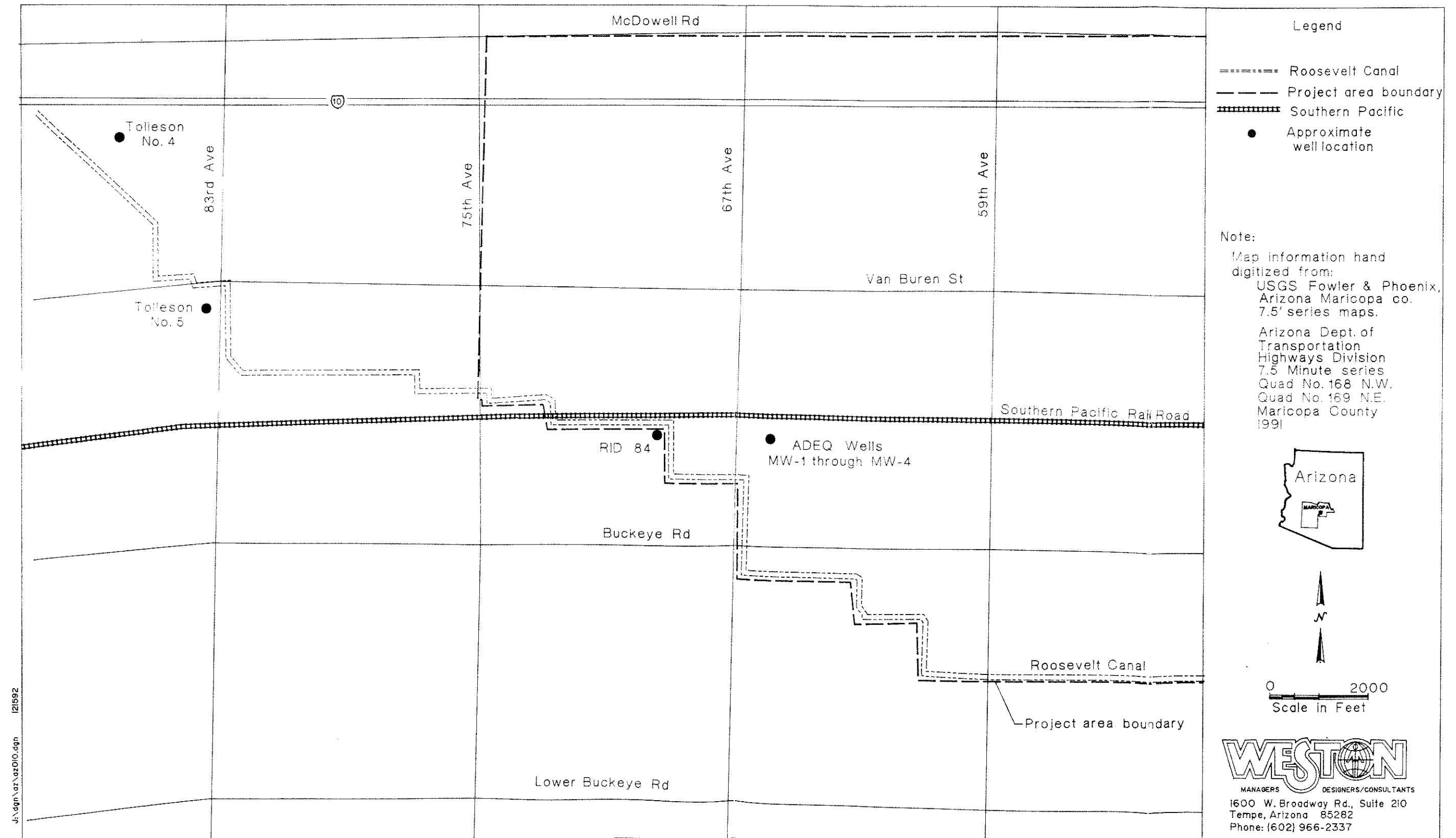


Figure N-1 Site Location map.

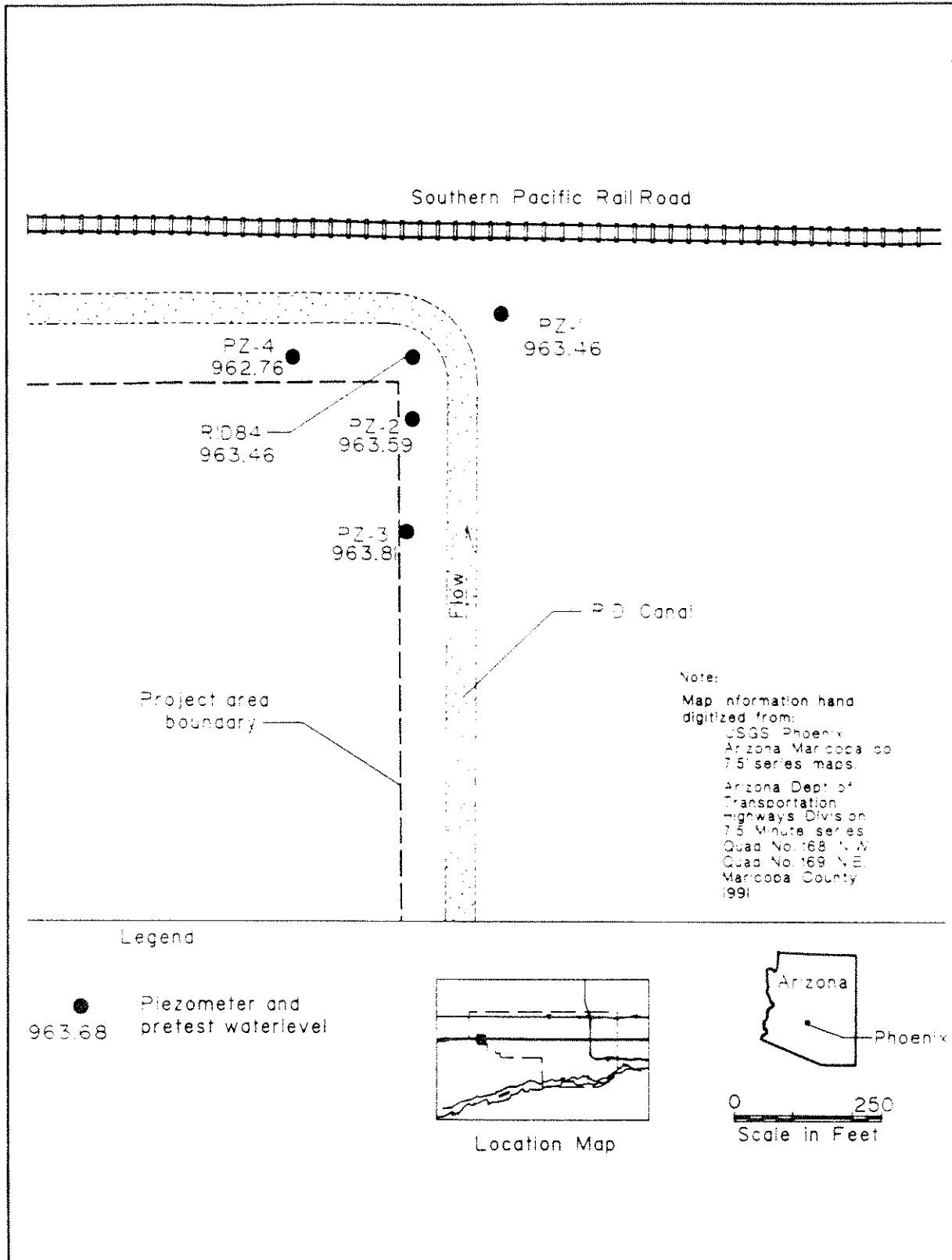


Figure N-2 Piezometer location map.

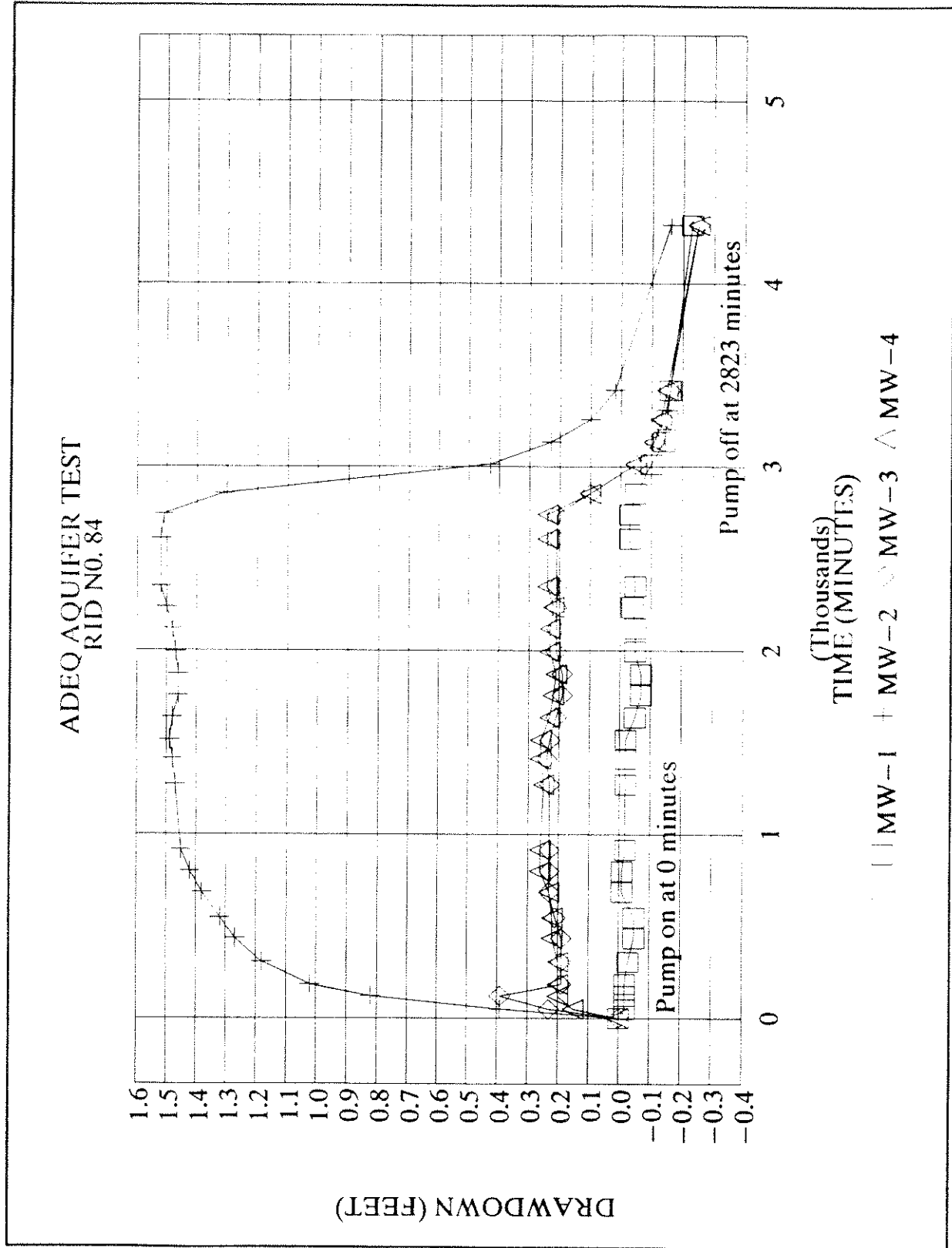


Figure N-3 Monitor well drawdown during aquifer test.

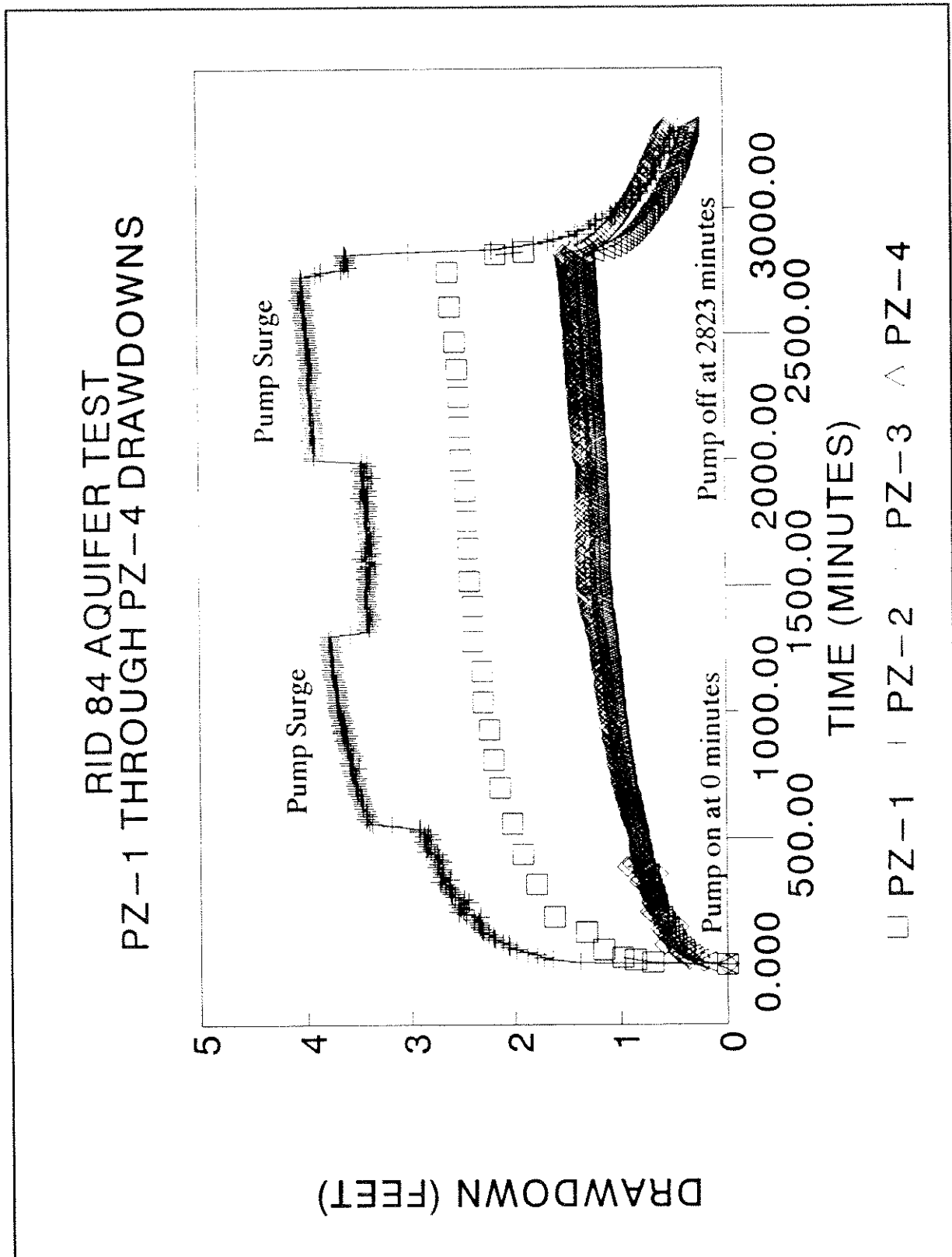


Figure N-4 Piezometer drawdown during aquifer test.

WEST VAN BUREN-MW2-T-1500 GPM-THEIS

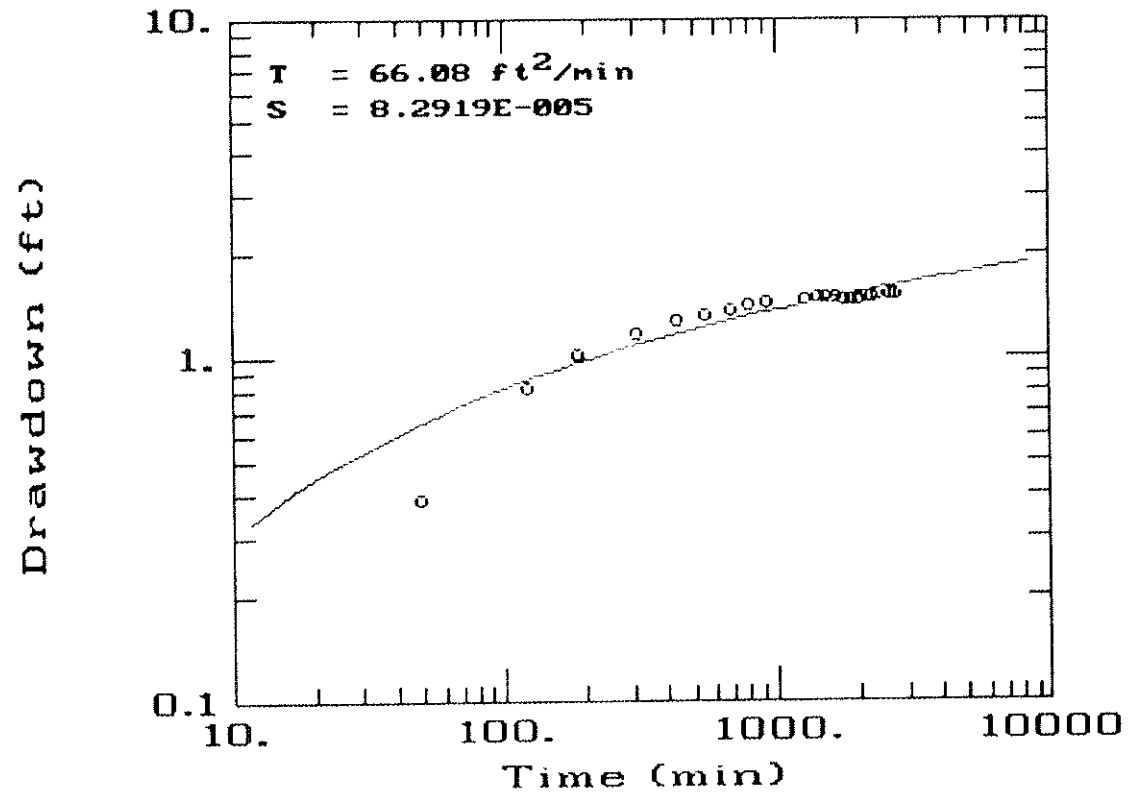


Figure N-5

WEST VAN BUREN-MW2-T-1500 GPM-COOPER-JAC

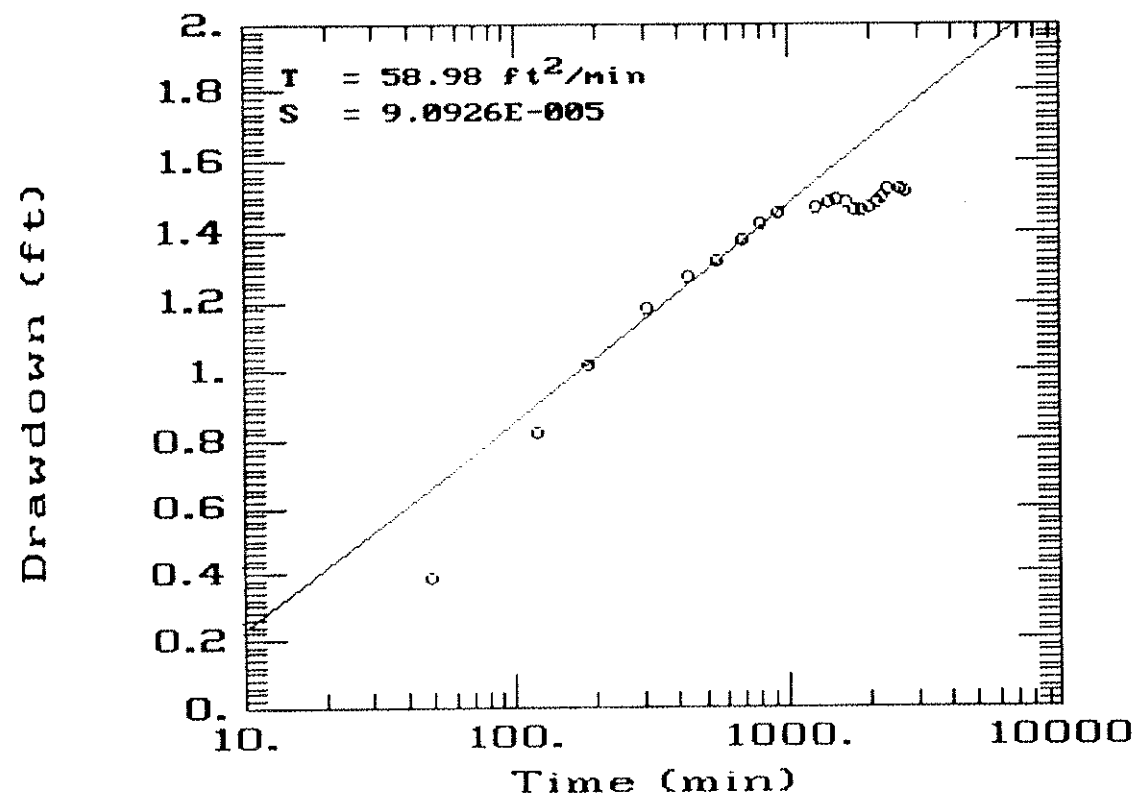


Figure N-6

WEST VAN BUREN-MW2-H(NO S IN AQTRD)-HANT

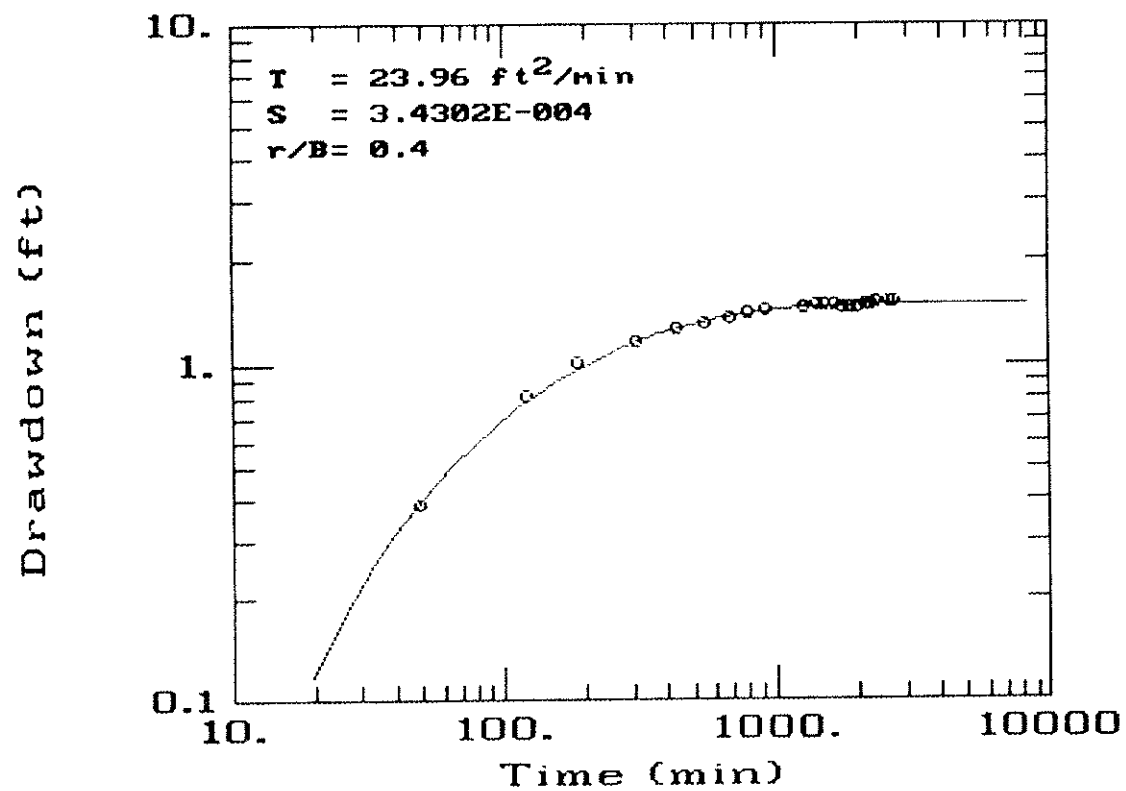


Figure N-7

WEST VAN BUREN-MW2-H(S IN AQUITARD)-HANT

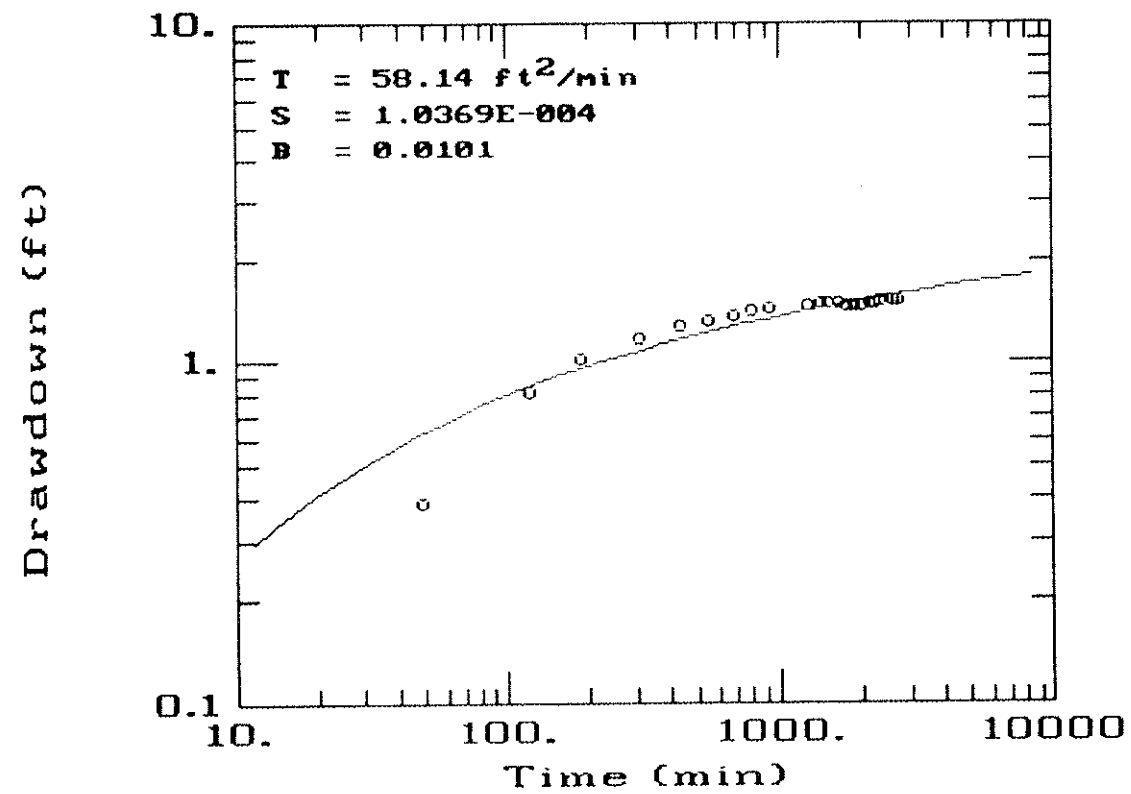


Figure N-8

WEST VAN BUREN - MW2 - (THEIS)

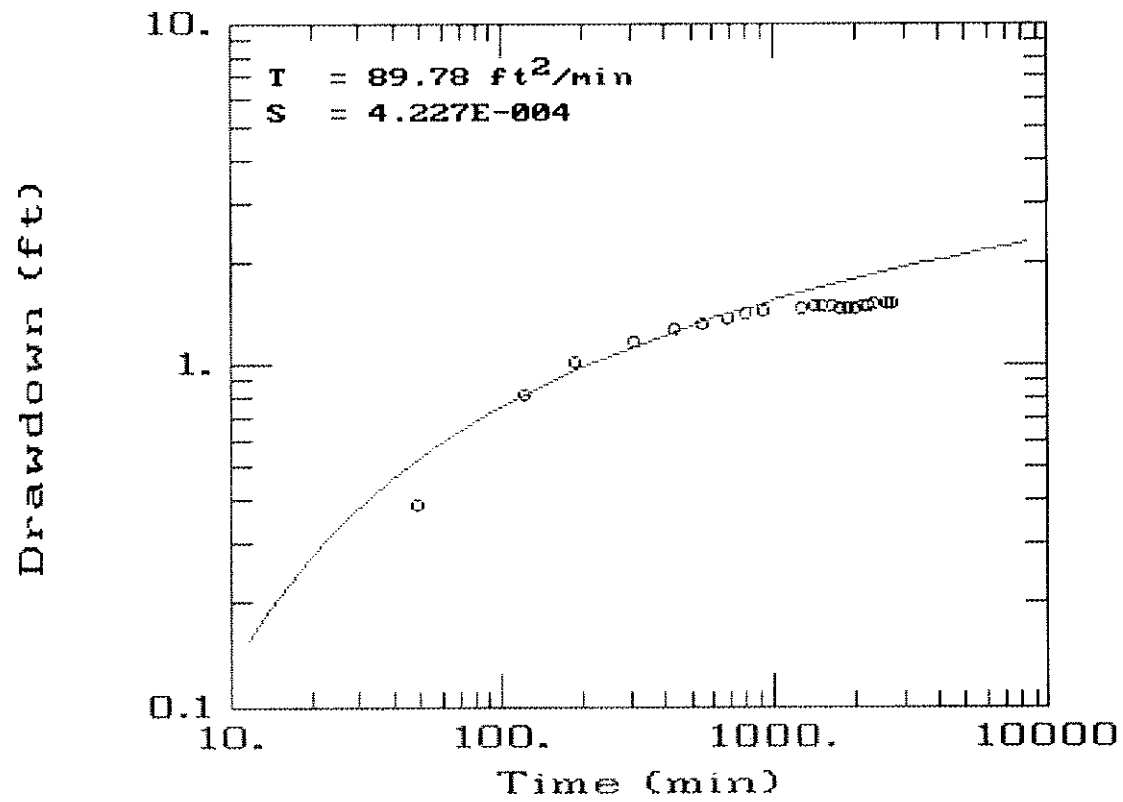


Figure N-9

WEST VAN BUREN - MW2- COOPER-JACOB

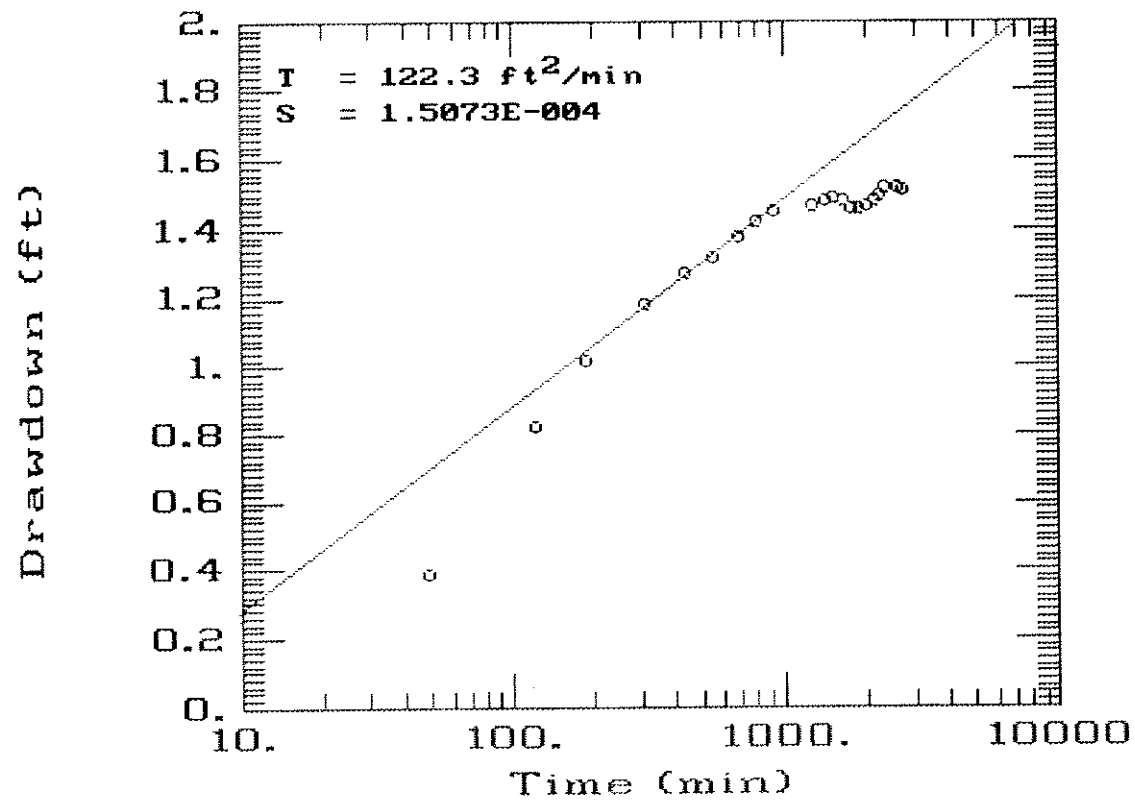


Figure N-10

WEST VAN BUREN-MW2- NO S IN AQUITARD-HAN

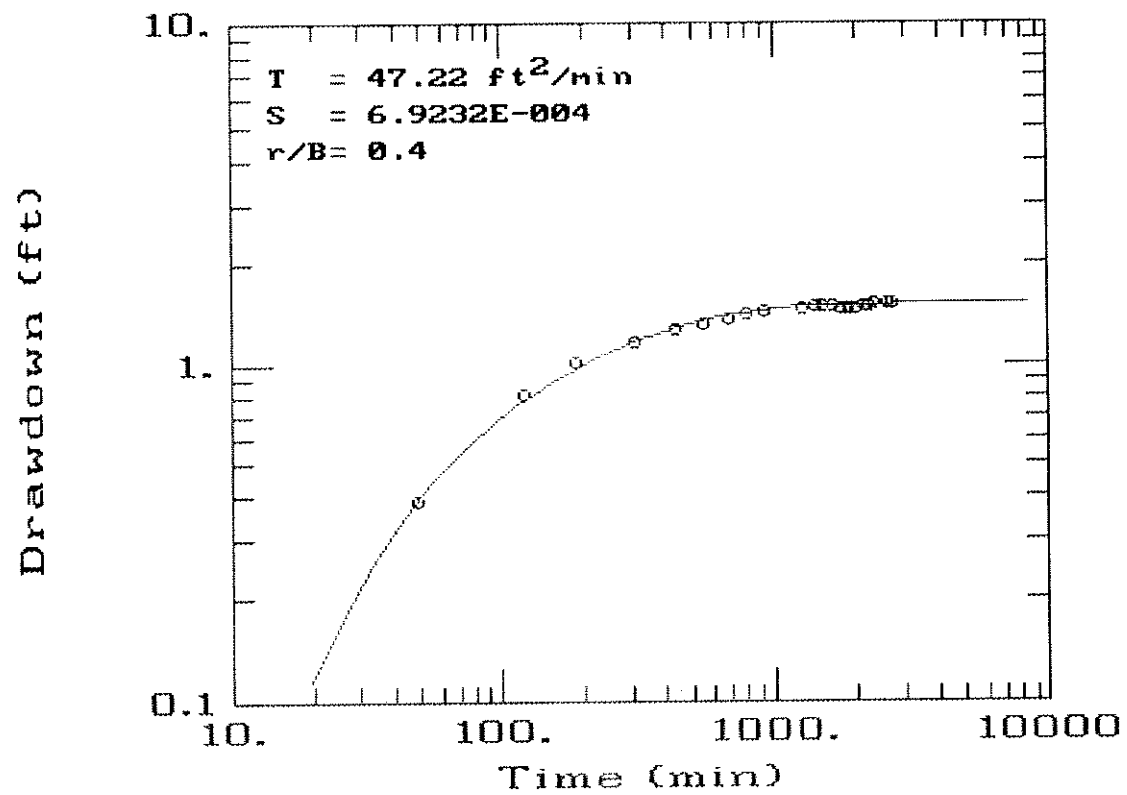


Figure N-11

WEST VAN BUREN-MW2-S IN AQUITARD-HANTUSH

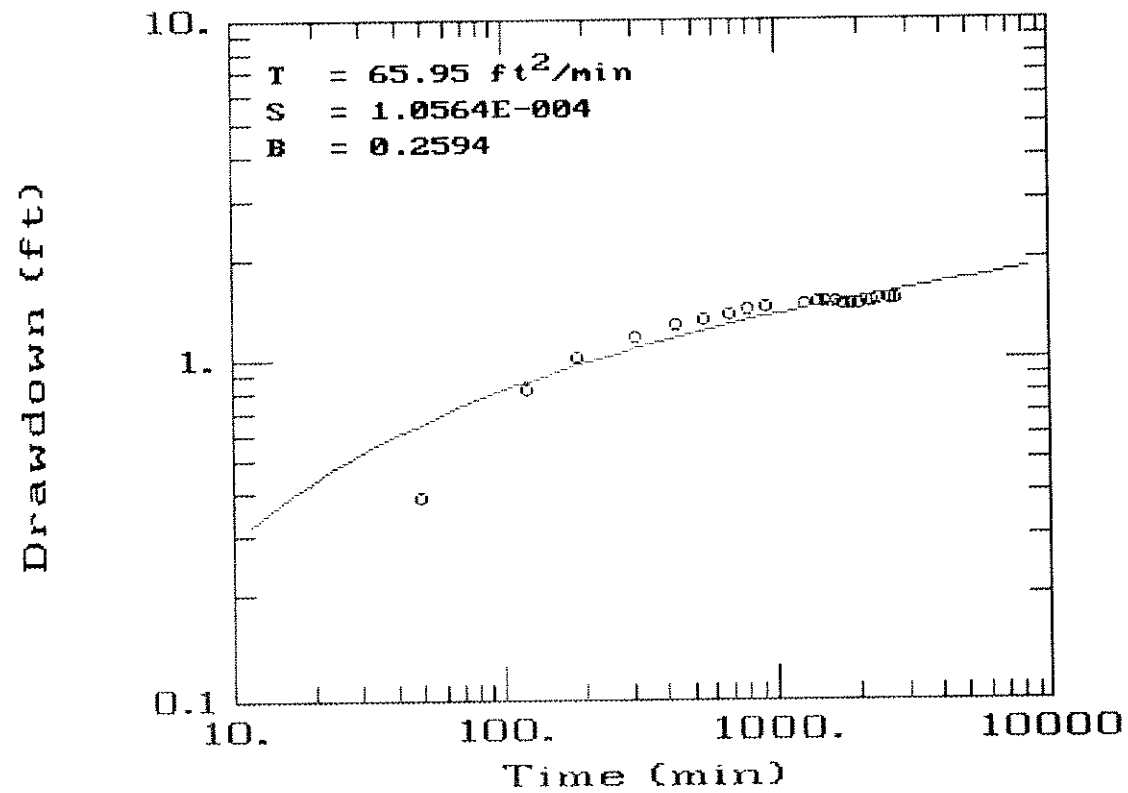


Figure N-12

WEST VAN BUREN-PZ1-T-1500 GPM-NEUMAN

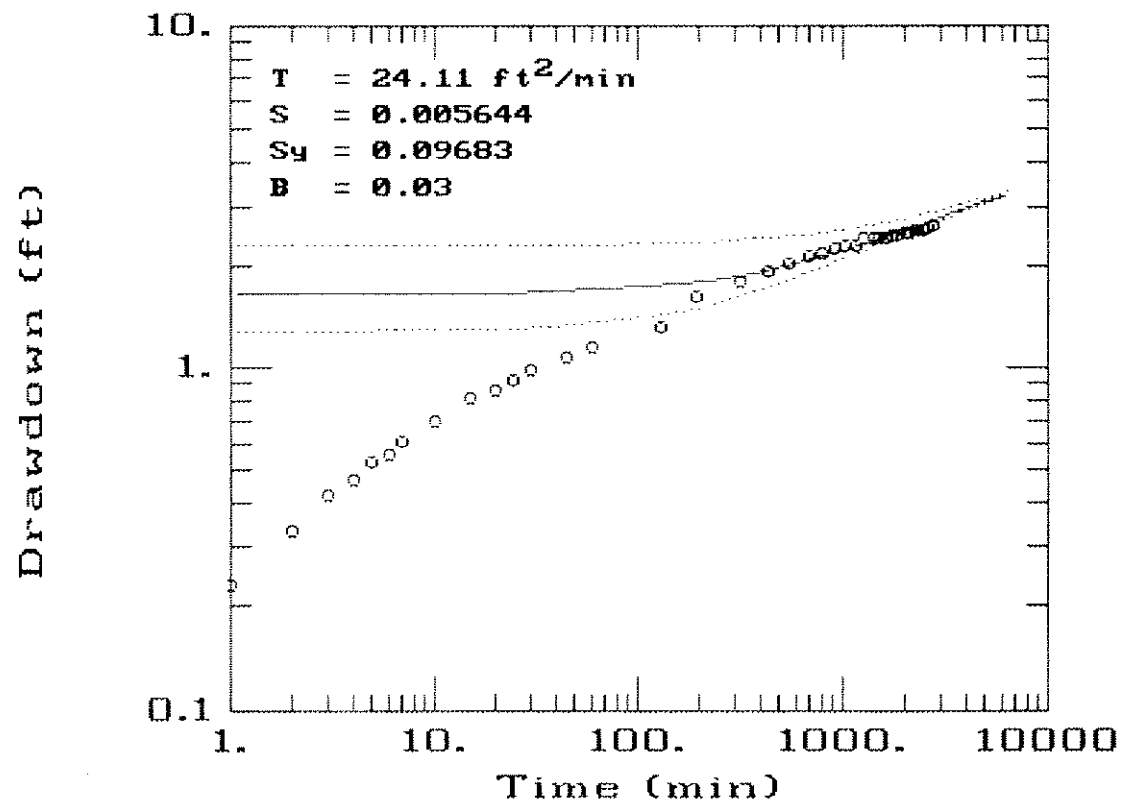


Figure N-13

WEST VAN BUREN-PZ1-ST-3000 GPM-NEUMAN

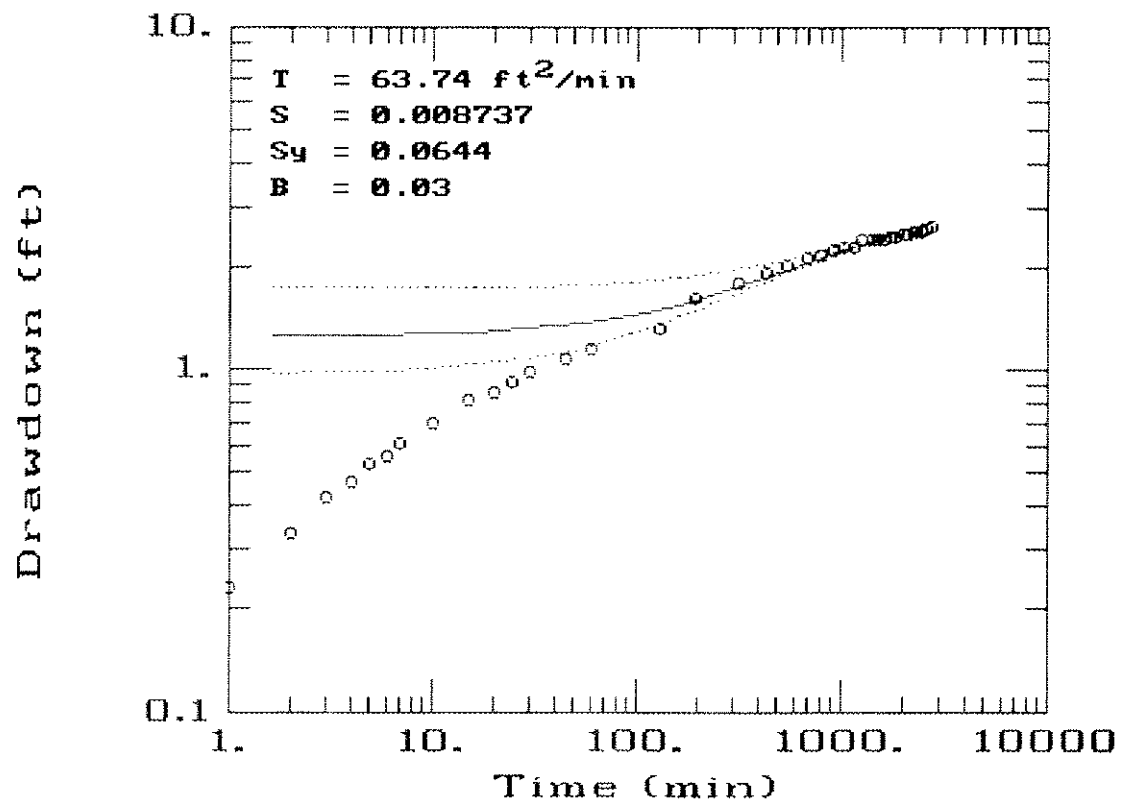


Figure N-14

WEST VAN BUREN-PZ2-ST-1500 GPM-NEUMAN

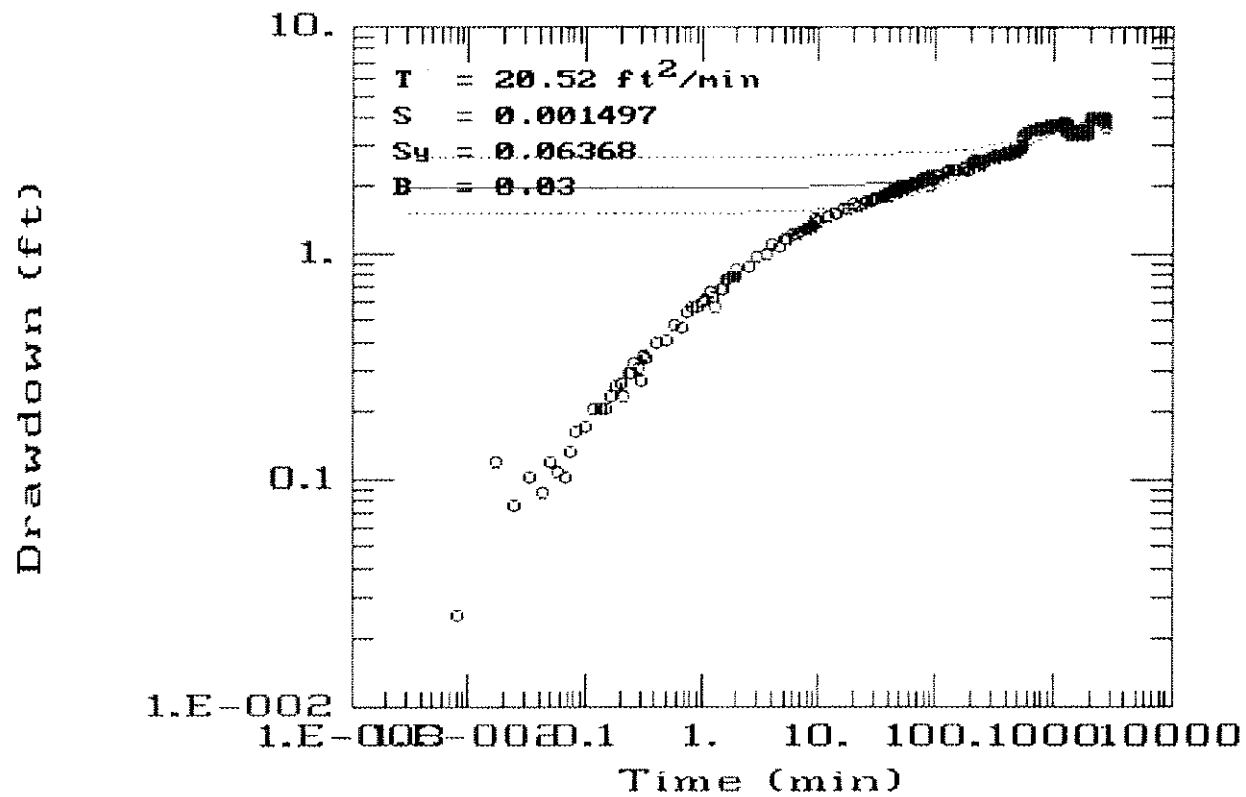


Figure N-15

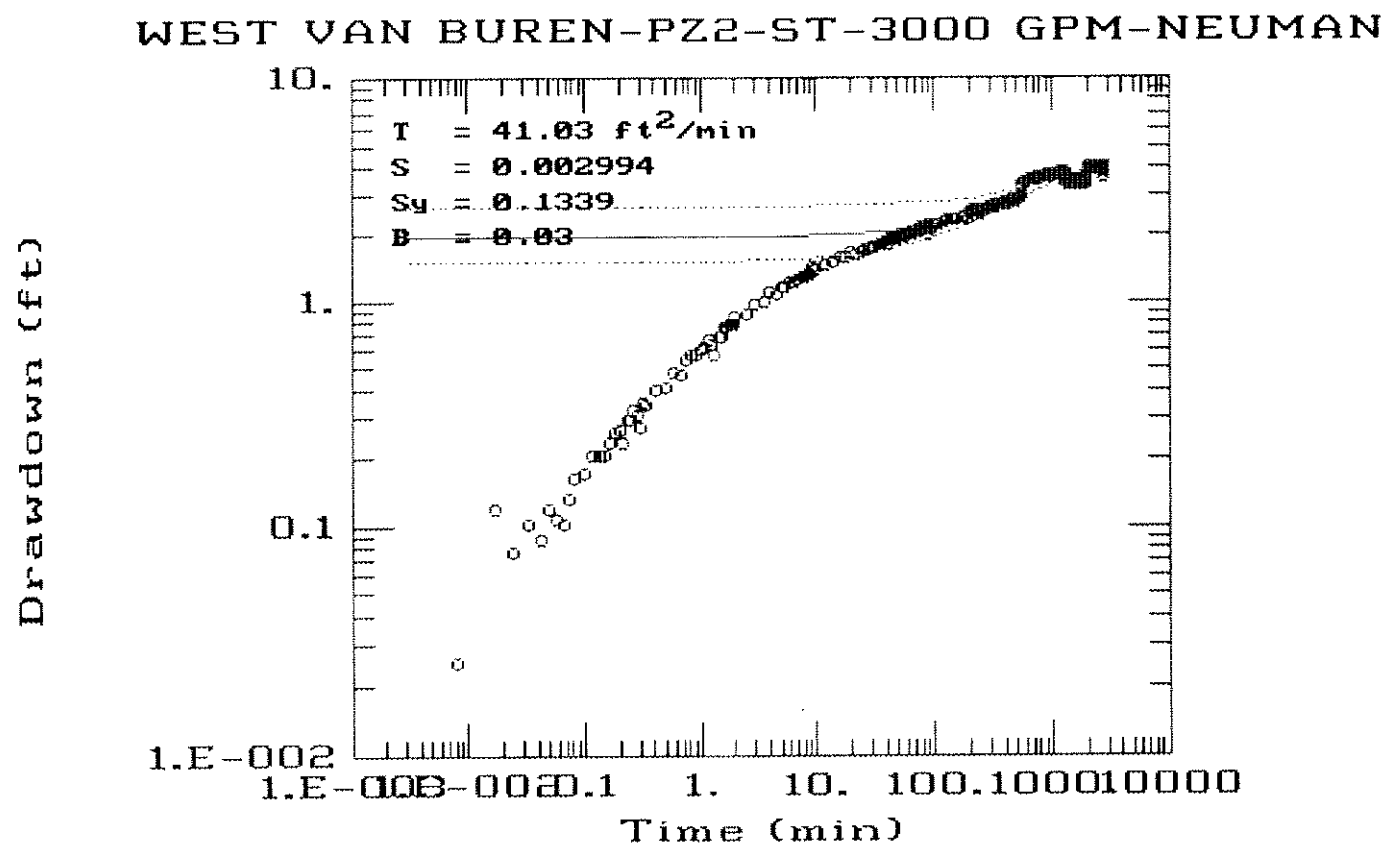


Figure N-16

WEST VAN BUREN-PZ3-ST-1500 GPM-NEUMAN

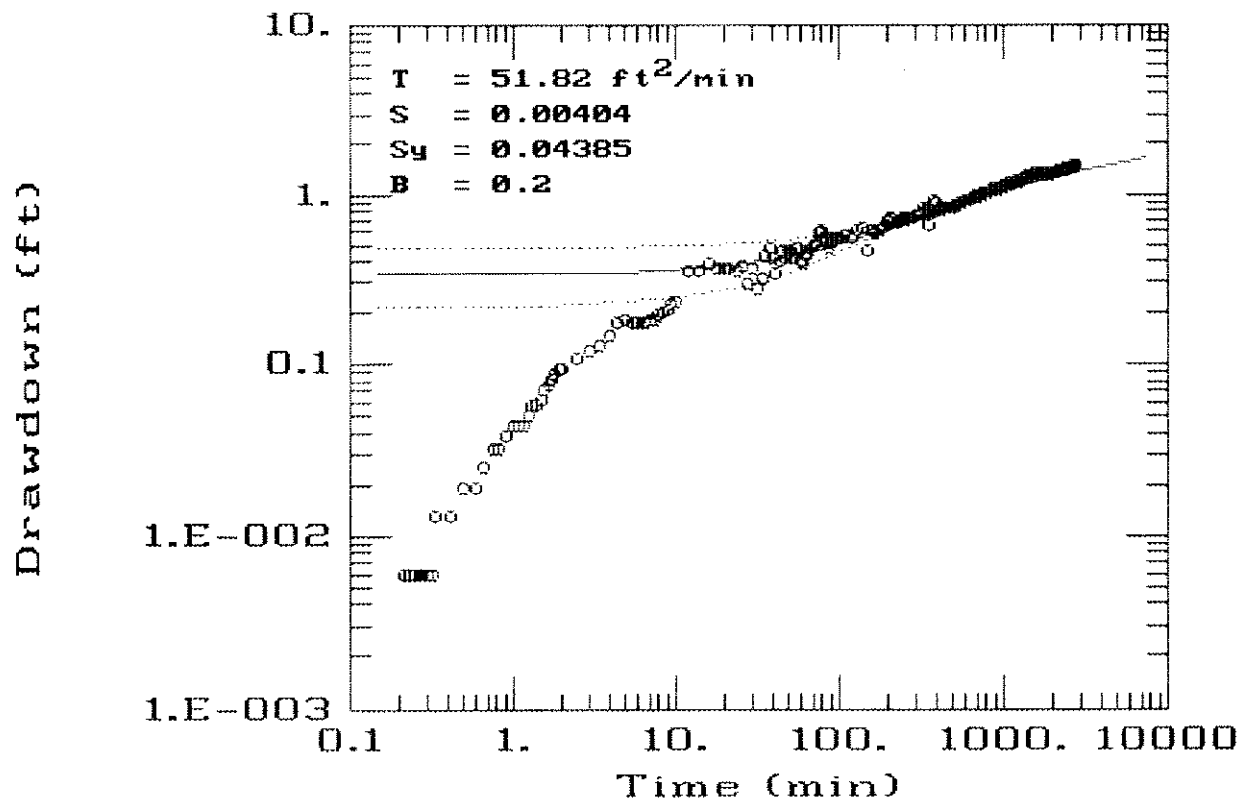


Figure N-17

WEST VAN BUREN-PZ3-ST-3000 GPM-NEUMAN

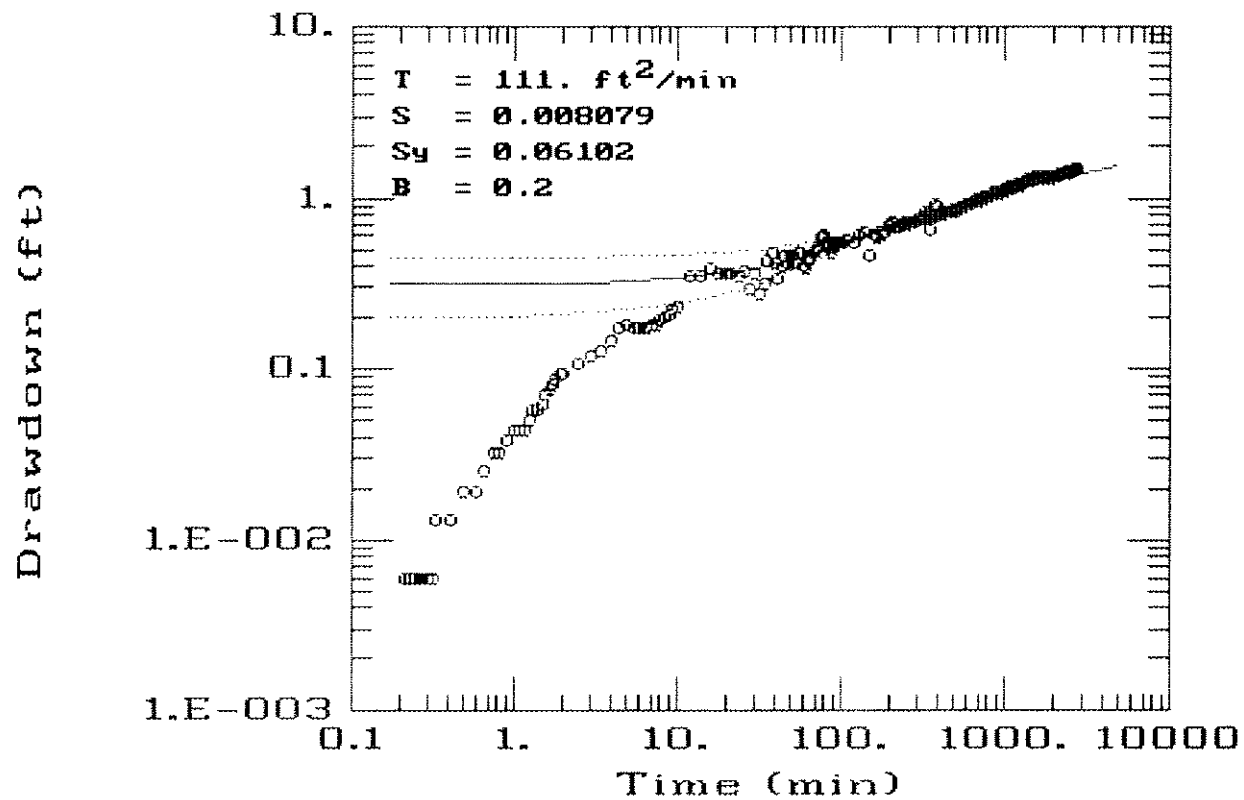


Figure N-18

WEST VAN BUREN-PZ4-ST-1500 GPM-NEUMAN

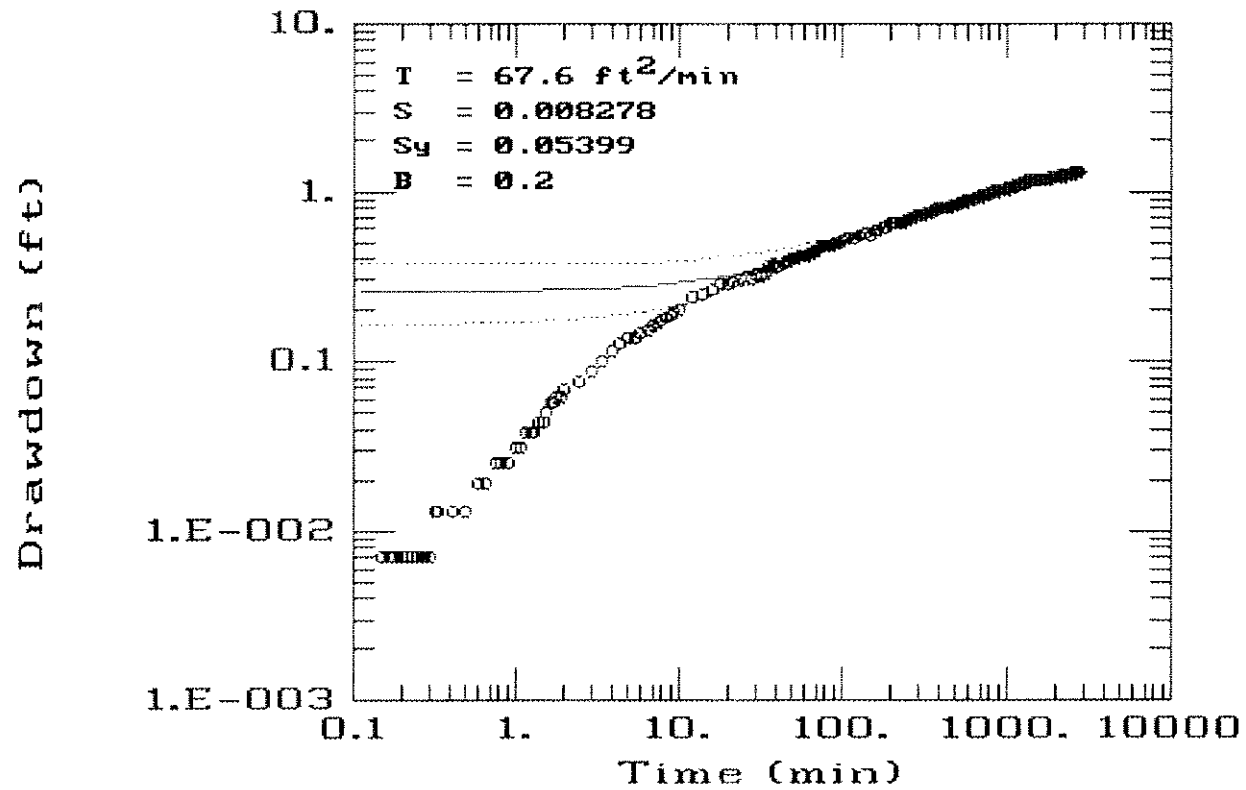


Figure N-19

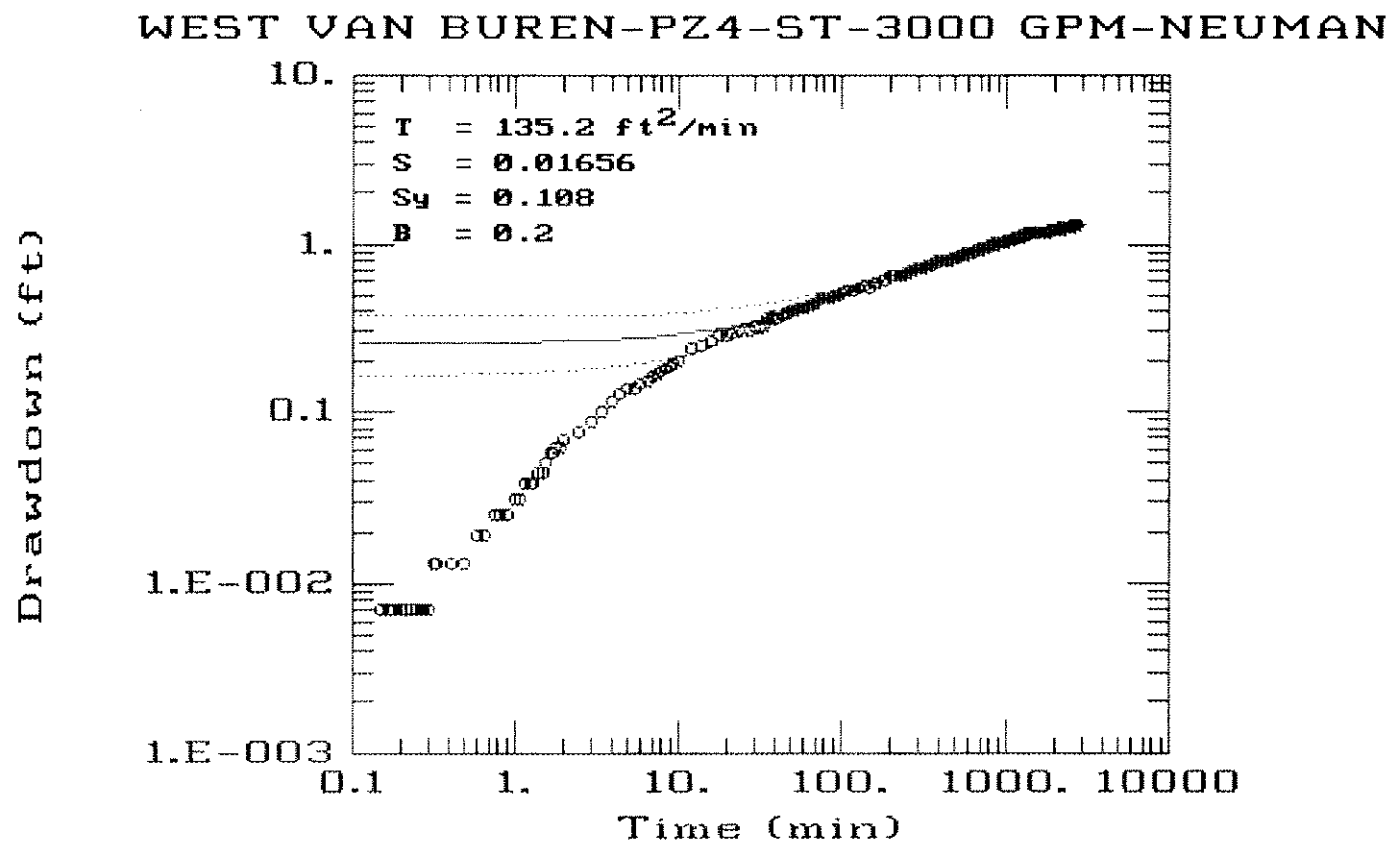


Figure N-20

BOREHOLE LOG (SOIL)

PAGE 1 OF 2

FACILITY CODE AUG38LOCATION ID 01

COORDINATES (FT):

NORTH _____ EAST _____

GROUND ELEVATION (FT MSL) _____

LOCATION TYPE BHCOMMENTS P2-1DRILLER CODE LAYNECOMPLETION DATE 2 JUN 92DIAMETER (IN) 10DEPTH (FTFD) 149CONSTRUCTION METHOD P

ACCEPTANCE CODE _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
<u>2 JUN 92</u>	<u>1000</u>	<u>± 87</u>

LOCATION DESCRIPTION

East of R.D. Canal at R.D.#84,
SW of 67th Ave / W. Van Buren.

LITHOLOGIC LOG

LOGGER CODE WESTON

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
<u>0-10</u>								<u>ML</u>	<u>Sandy silt. 50% silt, 50% F to F sand. Some coarser to 2 inches. Dry.</u>
<u>10-20</u>								<u>ML</u>	<u>Same as above. Dry.</u>
<u>20-30</u>								<u>ML</u>	<u>Same as above. More compacted. Dry.</u>
<u>30-35</u>								<u>ML</u>	<u>Same as above. Dry.</u>
<u>35-40</u>								<u>CL</u>	<u>Sandy lean clay. 10% medium gravel, 30% silt, 30% VF to F sand 40% clay. Slightly moist.</u>
<u>40-45</u>								<u>CL</u>	<u>Same as above. Pale yellowish brown, 104R 6/2.</u>
<u>45-50</u>								<u>SP</u>	<u>Poorly graded sand. 5% coarse</u>

ACCEPTANCE CODES: A-ACCEPTABLE R-RECONNAISSANCE U-UNACCEPTABLE N-NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
B - BORED OR AUGERED
C - CABLE-TOOL
D - DUG
H - HYDRAULIC-ROTARY
J - JETTED

P - AIR-PERCUSSION
R - REVERSE ROTARY
T - TRENCHING
V - DRIVEN
W - DRIVE AND WASH
Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
U - 3" O.D. 2.42" I.D. TUBE SAMPLE
T - 3" O.D. THIN-WALLED SHELBY TUBE
O - OTHER (SPECIFY)

W. Weston 2 Jun 92
FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 2 OF 2

FACILITY CODE AUB38

LOCATION ID 01

COMPLETION DATE 2 JUNE 92

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INITIAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
45-50								SP	cont gravel, VF-F and moderate brown 54R 4/4. Cobbles to 2 inches. Slightly moist.
50-60								SW	Well graded sand with gravel. Fine to medium sands. 15% gravel. Cobbles to 2 inches Moderate yellowish brown. 104R 5/4
60-70								SW	Same as above. Cobbles to 4 inches moist
70-80								SW	Same as above
80-83								SW	Same as above Very moist
83-90								GP	Poorly graded gravel fine to coarse gravel. Cobbles to 4 inches 104R 2/4
90-100								GP	Same as above. Cobbles to 6 inches Coarse sand
100-110								GP	Same as above med to coarse sand. Cobbles to 6 inches Black water.
139-143								CL	Sandy lean clay. TD=149'

Chastore 2 Jan 92
FORM COMPLETED BY/DATE

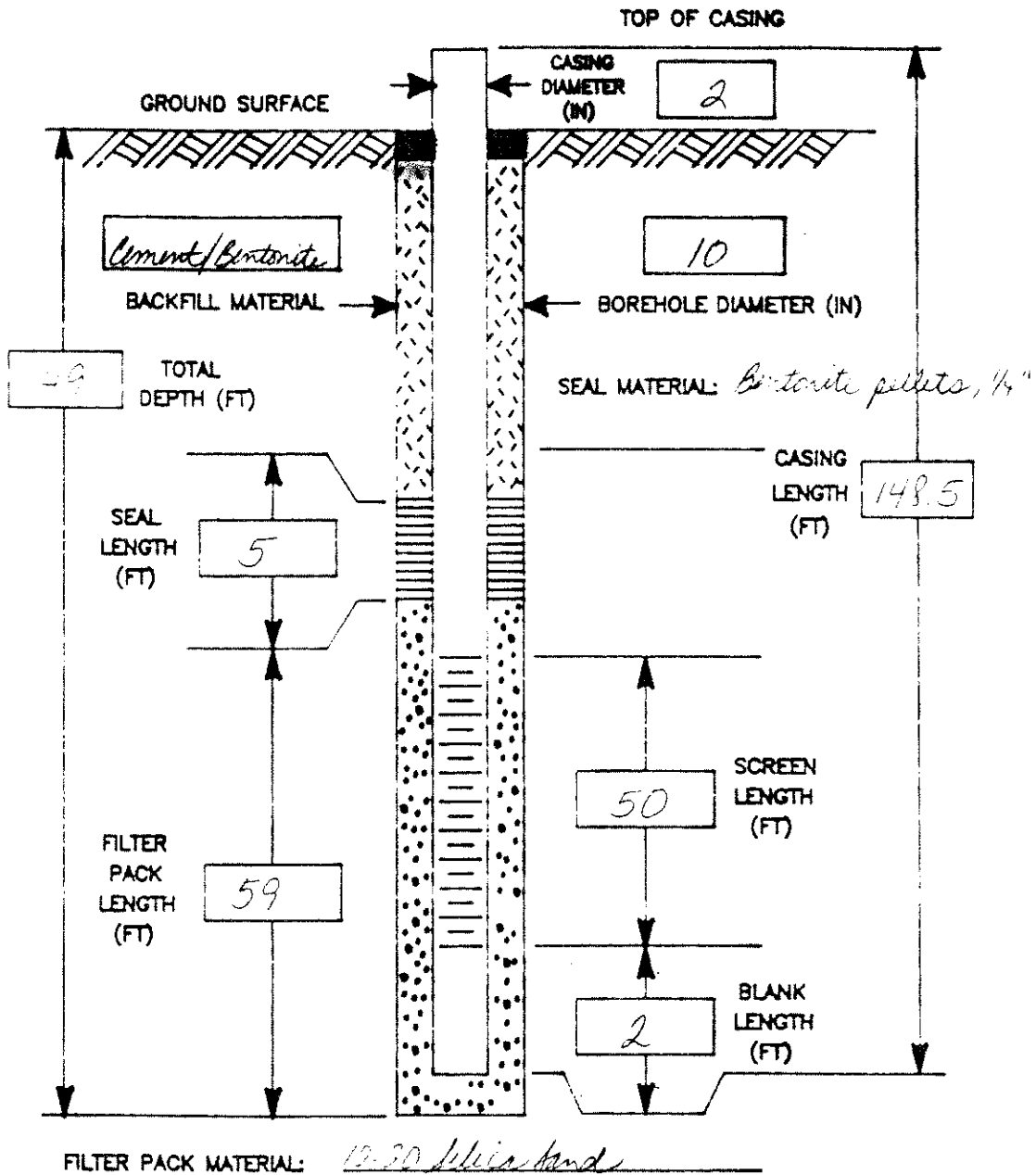
TECHNICAL REVIEWER/DATE

WELL COMPLETION INFORMATION

FACILITY CODE AUB38

LOCATION ID 01

INSTALLATION DATE 2 JUNE 92



COMMENTS _____

A. Huston 2 Jun 92
FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 1 OF 2

FACILITY CODE AUB38
 LOCATION ID 02
 COORDINATES (FT):
 NORTH _____ EAST _____
 GROUND ELEVATION (FT MSL) _____
 LOCATION TYPE BH
 COMMENTS P2-2

DRILLER CODE LAYNE
 COMPLETION DATE 3SEP92
 DIAMETER (IN) 10
 DEPTH (FTFD) 138
 CONSTRUCTION METHOD P
 ACCEPTANCE CODE _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)

LOCATION DESCRIPTION

100 ft due south of RID#84
SW of 12th Ave / Wilbur Avenue

LITHOLOGIC LOG

LOGGER CODE WESTON

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
0-10								ML	Handy silt some gravel 15% VF sand, 5% clay 104R 6/2
10-20								ML	Same as above
20-30								ML	Handy silt some gravel to 1 inch. VF to F sand 104R 6/2
30-38								ML	Same as above. Moderately cohesive. 54R 2/2
38-40									Collected Handy gravel white
40-45								Cl	Handy lean clay. 20% clay, 15% fine gravel, VF to fine sand.
45-50								SL-SM	Silty clayey sand. 15% clay

ACCEPTANCE CODES: A-ACCEPTABLE R-RECONNAISSANCE U-UNACCEPTABLE N-NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
 B - BORED OR AUGERED
 C - CABLE-TOOL
 D - DUG
 H - HYDRAULIC-ROTARY
 J - JETTED
 P - AIR-PERCUSSION
 R - REVERSE ROTARY
 T - TRENCHING
 V - DRIVEN
 W - DRIVE AND WASH
 Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
 S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
 U - 3" O.D. 2.42" I.D. TUBE SAMPLE
 T - 3" O.D. THIN-WALLED SHELBY TUBE
 O - OTHER (SPECIFY)

Weston 3/4/92
 FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 2 OF 2

FACILITY CODE AUB38

LOCATION ID 22

COMPLETION DATE 3 SEP 92

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
45-50								SC-SM	13% silt, VF to F sand, some gravel. Moderately cohesive.
50-60								SP	Poorly graded sand with gravel. Cobbles to 4 inches. F to med. sand. Slightly moist.
60-70								GP	Poorly graded gravel with sand. 40% F to med. sand. Cobbles to 6 inches. Caliche at 65-68.
70-80								GP	Same as above. Med to coarse gravel.
80-90								GP	Same as above. Moist.
90-100								GP	Same as above. Very moist.
100-110								GP	Same as above. Extruded. Med to coarse sand. Cobbles to 2 inches.
110-120								GP	Same as above.
120-129								GP	Same as above.
129-130								CL	Sandy lean clay.
130-139								CL	Same as above. TD = 139.5

Albuquerque 3 Sep 92

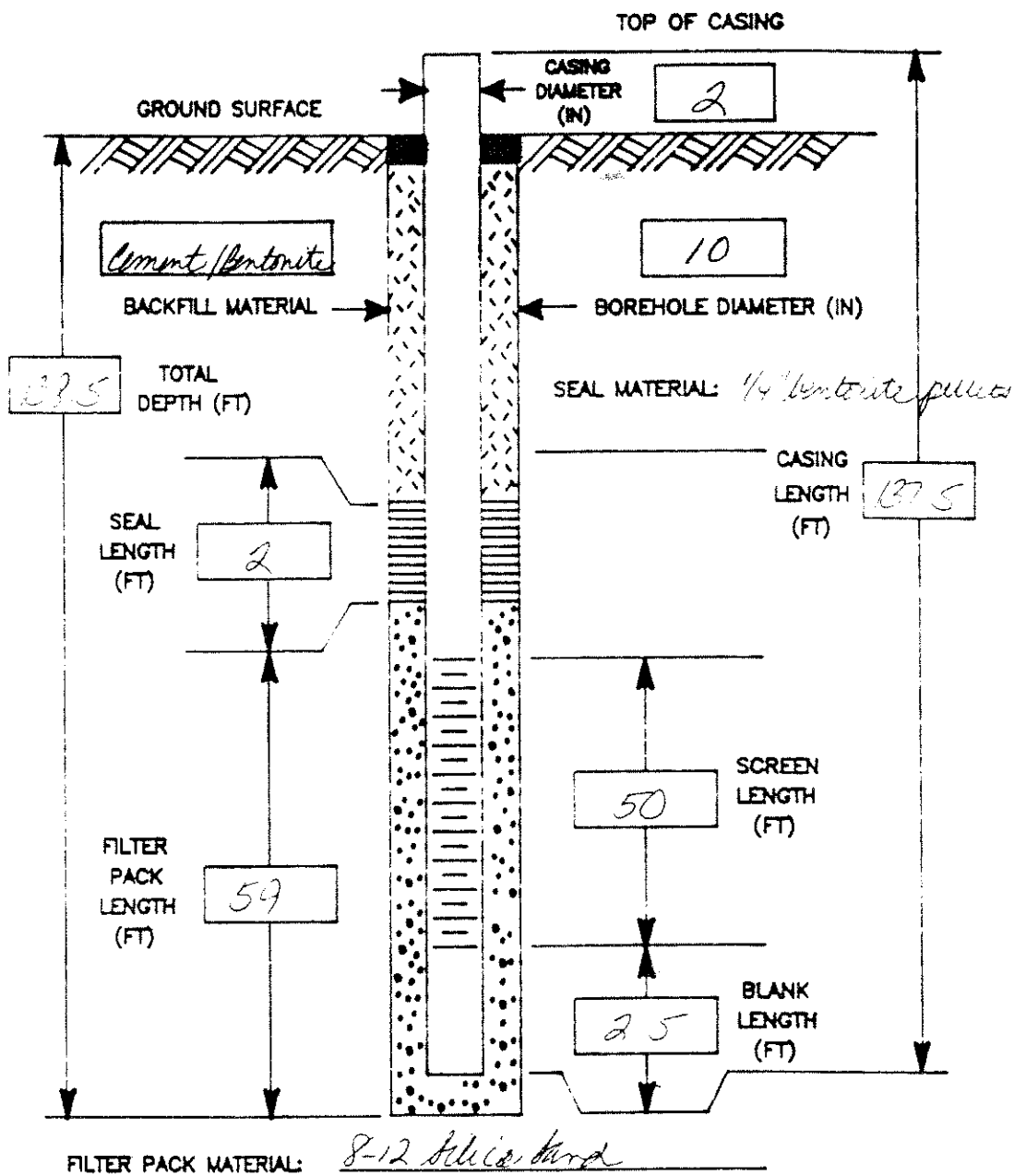
TECHNICAL REVIEWER/DATE

WELL COMPLETION INFORMATION

FACILITY CODE AVB38

LOCATION ID 02

INSTALLATION DATE 3 SEP 92



COMMENTS _____

Almustians 3 Sep 92
FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 1 OF 2

FACILITY CODE AUB38LOCATION ID 03

COORDINATES (FT):

NORTH _____ EAST _____

GROUND ELEVATION (FT MSL) _____

LOCATION TYPE BHCOMMENTS B-3DRILLER CODE LAYNECOMPLETION DATE 4SEP92DIAMETER (IN) 10DEPTH (FTFD) 138CONSTRUCTION METHOD P

ACCEPTANCE CODE _____

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
4SEP92	1109	85

LOCATION DESCRIPTION

300 feet due south of
RID# 84, SW of 67th Ave
W Van Buren

LITHOLOGIC LOG

LOGGER CODE WESTON

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
0-10								ML	Sandy silt some gravel. VF sand.
10-20								ML	Same as above.
20-30								ML	Same as above. VF to F sand. Cobble to 4 inches. Moderate yellowish brown 104R 5/4
30-40								SC-SM	Silty, clayey sand. Moderately cohesive. 50% silt and clay. 50% VF sand. Some cobble to 2 inches. Moderate brown 54R 4/4
40-50								SP	Poorly graded sand with gravel. 50% silt, 25% gravel, cobble to 4 inches. F to mid sand.

ACCEPTANCE CODES: A-ACCEPTABLE R-RECONNAISSANCE U-UNACCEPTABLE N-NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
 B - BORED OR AUGERED
 C - CABLE-TOOL
 D - DUG
 H - HYDRAULIC-ROTARY
 J - JETTED

P - AIR-PERCUSSION
 R - REVERSE ROTARY
 T - TRENCHING
 V - DRIVEN
 W - DRIVE AND WASH
 Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
 S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
 U - 3" O.D. 2.42" I.D. TUBE SAMPLE
 T - 3" O.D. THIN-WALLED SHELBY TUBE
 O - OTHER (SPECIFY)

Weston 4 Sep 92
 FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 2 OF 2FACILITY CODE ALB3PLOCATION ID 03COMPLETION DATE 4 SEP 92

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
50-55								SP	Same as above. Some caliche, white.
55-60								SP	Same as above. 25% rounded gravel, cobbles to 4 inches. F to med. sand. Dark yellowish brown, 104R 4/2.
60-70								SP	Same as above. Cobbles to 6 inches. F to med. sand.
70-78								SP	Same as above. Cobble to 6 inches, coarse gravel. 50% med to coarse sand.
78-80								SP-SC	Well graded sand with clay and gravel. 10% clay. Coarse gravel, med to coarse sand. Slightly sticky, slightly moist.
80-90								SP	Well graded sand with gravel. Med to coarse sand, med to coarse rounded gravel. Cobble to 6 inches. Well at 85-87 ft. approx.
90-100								SP	Same as above.
100-110								SP	Same as above.
110-120								SP	Same as above. Black water at 115'.
120-130								SP	Same as above.
130-132								SP	Same as above.
132-138								CL	Sandy lean clay. TD = 137.5'

Albuquerque 4 Sep 92

FORM COMPLETED BY/DATE

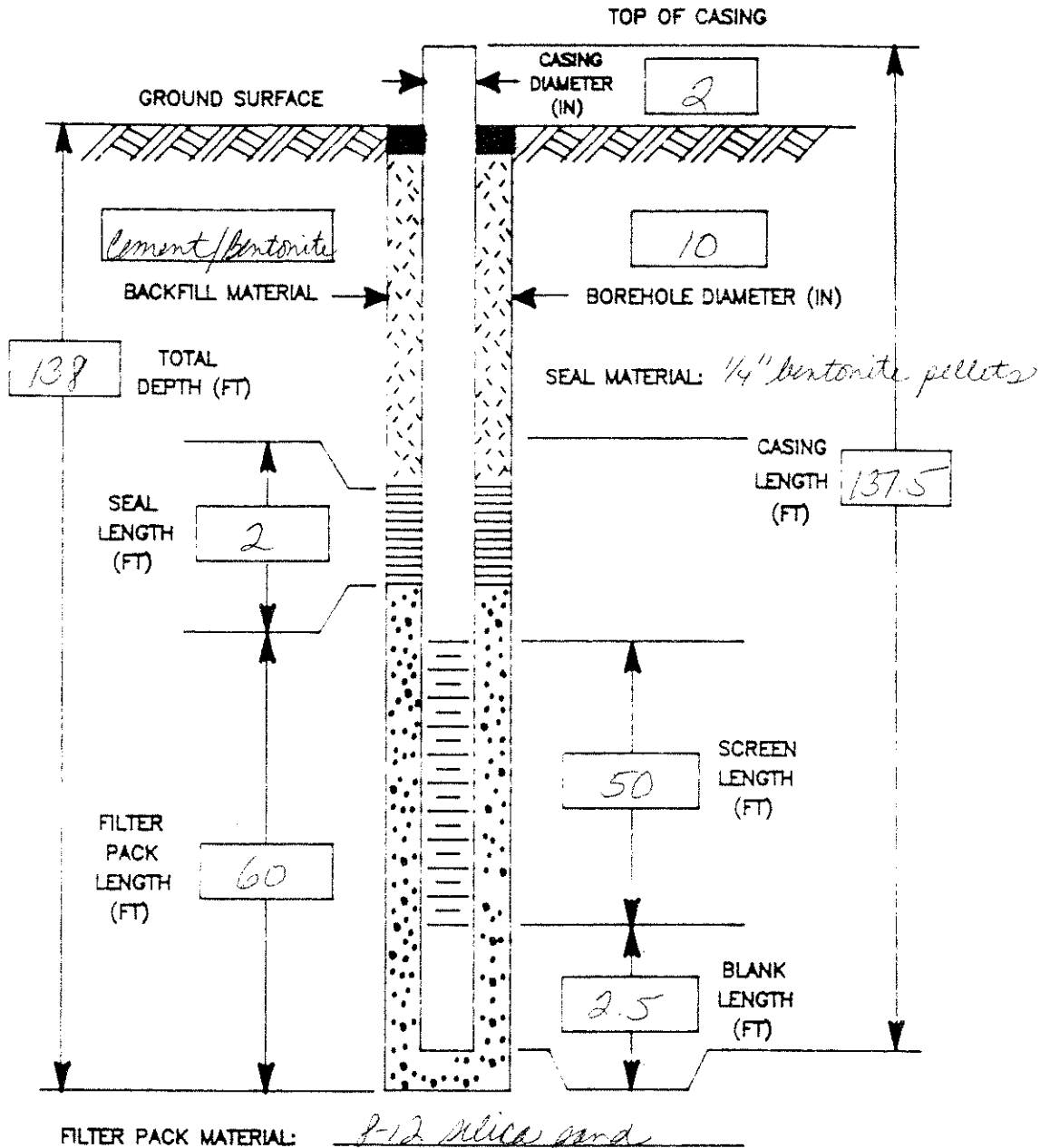
TECHNICAL REVIEWER/DATE

WELL COMPLETION INFORMATION

FACILITY CODE AUG38

LOCATION ID 03

INSTALLATION DATE 4 SEP 92



COMMENTS _____

Christine 4 Sep 92
FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 1 OF 2

FACILITY CODE AUG38DRILLER CODE LAYNELOCATION ID 04COMPLETION DATE 25SEP92

COORDINATES (FT):

DIAMETER (IN) 10

NORTH _____ EAST _____

DEPTH (FTFD) 130

GROUND ELEVATION (FT MSL) _____

CONSTRUCTION METHOD PLOCATION TYPE BH

ACCEPTANCE CODE _____

COMMENTS P2-4

GROUNDWATER LEVELS

DATE	TIME	DEPTH (FT)
25SEP92	0930	90

LOCATION DESCRIPTION

300 feet due west of RID#89
SW of 67th Ave / West Van Buren

LITHOLOGIC LOG

LOGGER CODE WESTON

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
0-10								ML	Sandy silt with gravel. 40% silt, 40% fine sand, 20% coarse gravel, cobbles to 4 inches. 104R 6/2
10-20								ML	Same as above
20-30								SM	Silty sand. 60% F to med sand, 40% silt and clay. Some cobbles to 2 inches. 104R 6/2
30-40								SM	Same as above. Moderately cohesive.
40-44								SC-SM	Silty, clayey sand. 30% silt and med clay. 60% F to med sand. 10% rounded gravel. Slightly cohesive.

ACCEPTANCE CODES: A-ACCEPTABLE R-RECONNAISSANCE U-UNACCEPTABLE N-NOT DETERMINED

CONSTRUCTION METHODS:

A - AIR ROTARY
 B - BORED OR AUGERED
 C - CABLE-TOOL
 D - DUG
 H - HYDRAULIC-ROTARY
 J - JETTED
 P - AIR-PERCUSSION
 R - REVERSE ROTARY
 T - TRENCHING
 V - DRIVEN
 W - DRIVE AND WASH
 Z - OTHER (SPECIFY)

SAMPLE METHODS:

A - AUGER CUTTINGS
 S - 2" O.D. 1.38" I.D. DRIVE SAMPLE
 U - 3" O.D. 2.42" I.D. TUBE SAMPLE
 T - 3" O.D. THIN-WALLED SHELBY TUBE
 O - OTHER (SPECIFY)

Weston 24p92
 FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE

BOREHOLE LOG (SOIL)

PAGE 2 OF 2

FACILITY CODE AVB38

LOCATION ID 04

COMPLETION DATE 2 SEP 92

LITHOLOGIC LOG

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE RECOVERY	SAMPLE RETAINED	SAMPLE METHOD	SAMPLE ID	BLOW COUNT (PER 6 IN)	N VALUE	USCS	VISUAL DESCRIPTION
44-50								SC-SM	Same as above. Some gravel. moderately cohesive. Moderate brown 54R 4/4.
50-60								SC-SM	Little clayey sand with gravel. 20% gravel, cobbles to 1 inch 54R 4/4. Slightly moist.
60-70								SP	Poorly graded sand with gravel. Cobbles to 3 inches. 3 to med sand. 104R 6/2.
70-80								SP	Same as above. Cobbles to 6 inches.
80-90								SP	Same as above. Med to coarse sand. Very moist.
90-100								GP	Poorly graded gravel with sand. 50% med to coarse sand, 50% coarse gravel. Cobbles to 6 inches.
100-110								GP	Same as above.
110-120								GP	Same as above. Cobbles to 3 inches.
120-125								GP	Same as above.
125-126								CH	Fat clay. Hard
126-								CL	Hardy lean clay. Soft 10% VF hard. TD = 130 ft

Albuquerque 2 Sep 92
FORM COMPLETED BY/DATE

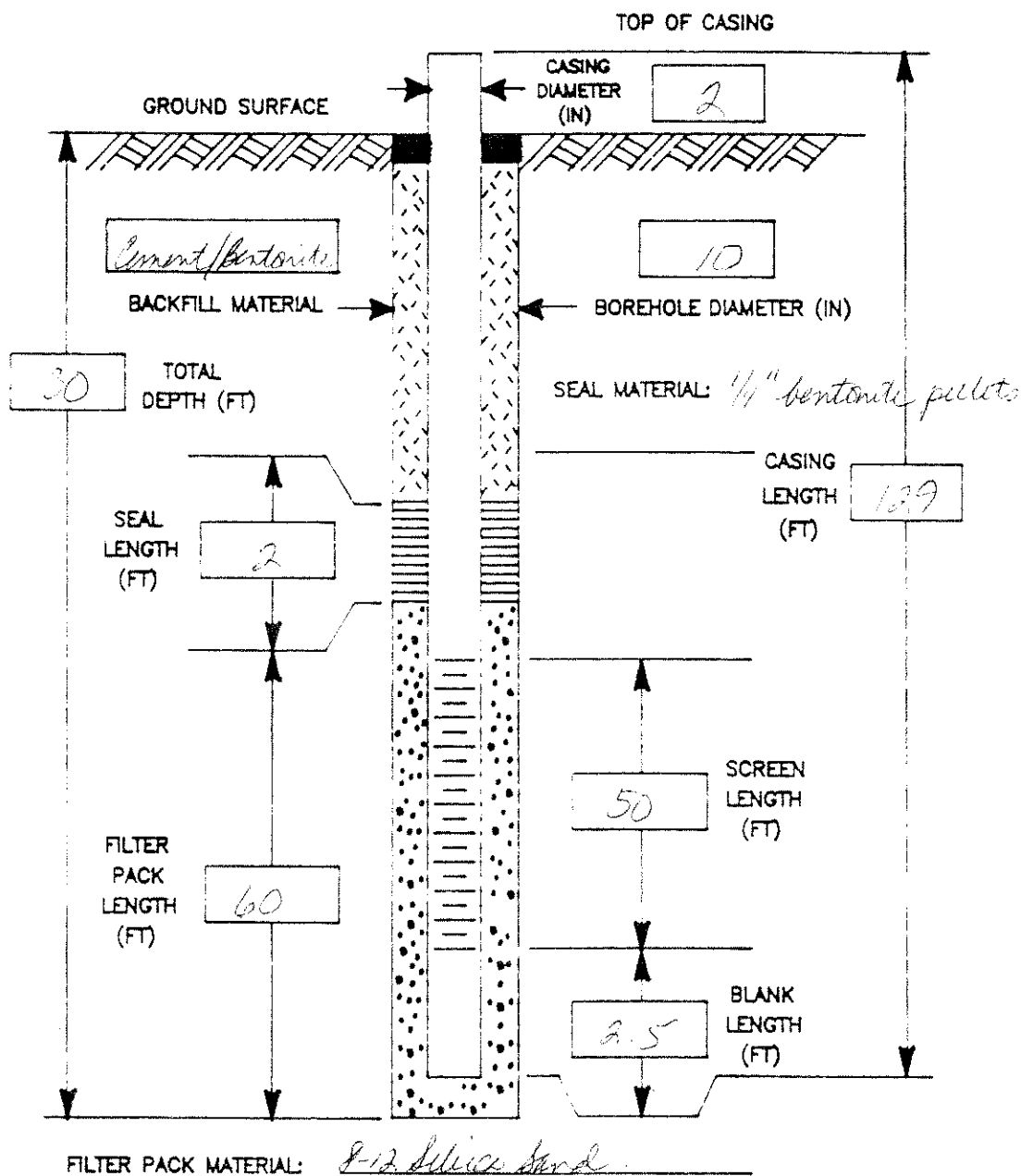
TECHNICAL REVIEWER/DATE

WELL COMPLETION INFORMATION

FACILITY CODE AUB38

LOCATION ID 04

INSTALLATION DATE 2 SEP 92



COMMENTS _____

Skutumpah 2 Sep 92
FORM COMPLETED BY/DATE

TECHNICAL REVIEWER/DATE