APPENDIX D

LEGGETTE BRASHEARS AND GRAHAM WELL TESTING REPORT PREPARED FOR THE

LONE OAK SUBDIVISON

WELL COMPLETION REPORT
LONE OAK ESTATES
TOWN OF GOSHEN, NEW YORK

Prepared For

FASA Construction Corporation

February 1999

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water & Environmental Engineering Services
126 Monroe Turnpike
Trumbull, CT 06611

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WELL COMPLETION REPORT
LONE OAK ESTATES
TOWN OF GOSHEN, NEW YORK

INTRODUCTION

Leggette, Brashears & Graham, Inc. (LBG) has conducted a multiple-well simultaneous pumping test on Wells 1, 2 and 3 on the study parcel for the Lone Oak Estates development site.

The purpose of the test was to determine the maximum yield capacity of the successful wells drilled to date. Special attention was directed to the long-term potential of the wells to provide a reliable water supply and to determine the possibility of water-level interference in the adjacent public water-supply wells operated by the Town of Goshen and in domestic wells in the surrounding region. The pump test program was approved by the Town of Goshen in accordance with the new ordinance, Article II - Well Testing.

WATER DEMAND

The proposed Lone Oak Estates is planned to consist of a maximum of 172 three-bedroom and four-bedroom detached single-family homes. The type of units and associated water demands are listed on table 1. The estimated demands are derived according to New York State Department of Health (NYSDOH) guidelines and assume that each connection is individually metered. Table 1 indicates that the proposed development would have an average water-supply requirement of about 58,050 gpd (gallons per day) or about 40.3 gpm (gallons per minute) utilizing the NYSDOH guidelines. The NYSDOH will allow a 20-percent reduction in estimated water demands for new construction utilizing water-saving fixtures. Consequently, the water-supply source will be required to demonstrate at least 46,440 gpd or 32.3 gpm.

This supply is to be developed from ground water derived from bedrock wells. Consequently, the NYSDOH guidelines require development of double the daily demand, or about 64.6 gpm.

The estimated water demands were reviewed by Kevin Scheuer, P.E. of the New York State Department of Health and his Department concurs with the estimated water demands summarized on table 1.

DRILLING EXPLORATION PROGRAM

Several bedrock test wells were drilled on the study parcel. The wells are located on figure 1. Three of the test wells (Wells 1, 2 and 3) were successful and were pump-tested in December 1997 by LBG. The well completion reports are located in Appendix I.

Well 1

In November 1996, Roarke Well Drilling, Inc. (Roarke) drilled Well 1. The 6-inch diameter test well was completed in bedrock at a depth of 500 feet. Roarke reported that the well yielded little water during drilling until the drill bit encountered a water-bearing zone at 150 ft bg (feet below grade) which yielded about 25 gpm (gallons per minute). No additional water-bearing zones were encountered and drilling was terminated at 500 feet.

Well 2

In October 1996, Roarke drilled Well 2 to a depth of 300 feet. Roarke reported that the well yielded little water during drilling until the drill bit encountered the first water-bearing zone at 174 ft bg which yielded 50 gpm. Drilling was continued and at a depth of 200 ft bg, an additional 5 gpm was encountered. No additional water-bearing zones were encountered, and at a depth of 300 feet, the total estimated yield was reported at about 55 gpm.

Well 3

In September 1996, Roarke drilled Well 3 to a depth of 600 feet. Roarke reported that the well yielded little water during drilling until the drill bit encountered the first water-bearing zone at 98 ft bg which yielded 12 gpm. Drilling was continued and at a depth of 157 feet, an additional 38 gpm was encountered. No additional water-bearing zones were encountered and, at a depth of 600 feet, the total estimated yield was reported at about 50 gpm.

PUMPING TEST PROGRAM

Simultaneous Pumping Test of Wells 1, 2 and 3

In December 1997, Mr. Fred Lehmann installed a 5-hp (horsepower) submersible pump in Well 1 at a depth of 200 feet and 10-hp submersible pumps in Wells 2 and 3 at 220 feet and 200 feet, respectively. A 1-inch diameter plastic access tube for manual measurements of water levels was installed with each pump. The flow rates of Wells 1 and 2 were measured with a 25-gallon bucket and stopwatch. The flow rate on Well 3 was measured with a pipe orifice weir.

The controlled simultaneous 72-hour pumping test on Wells 1, 2 and 3 was started at 1120 hours on December 2, 1997, when Well 3 began pumping. Well 1 began pumping at 1230 hours and Well 2 at 1445 hours the same day. LBG staff supervised the entire test, which concluded with a staggered shutdown on December 5, 1997.

Well 3

Well 3 was pumped at consecutive rates of 50 and 53 gpm. During the 50-gpm pumping rate interval, the water level declined from a pre-test condition of the water flowing over the top of the casing to a depth of 67.0 feet during the first 1270 minutes into the test. At that time, the pumping rate was increased to 53 gpm and maintained for the remainder of the test.

The water level eventually stabilized and the pumping level was 107.9 feet immediately prior to the end of the test. Substantial yield and drawdown stabilization was achieved for the last

nine hours of the test. Water-level data measured during the pumping test and plots of the data for Well 1 are given in Appendix II.

After the test was terminated, recovery measurements were made in Well 3 for a period of approximately five hours. The water-level plots in Appendix II show the water levels in the well recovered from 107.9 feet at the end of the test to a depth of 49.1 feet in five hours. Recovery continued, and in about three days, the water level had recovered to a depth of 22.5 feet.

Well 1

Prior to the startup of Well 1, the static water level was 23.67 feet below the top of the casing and there was no discernible drawdown observed resulting from pumping Well 3. Well 1 was pumped at consecutive rates of 25 and 15 gpm. During the 25-gpm pumping rate interval, the water level rapidly declined to a depth of 142.5 feet at 1,190 minutes into the test. The pump was shut off for 126 minutes to allow the water level to recover prior to a re-start of the pump. At 1316 minutes into the test, the pump was started at a reduced rate of 15 gpm and maintained for the remainder of the test. During the 15-gpm pumping interval, the water level declined at a much slower rate of decline and eventually stabilized at a depth of 132.3 feet immediately prior to the end of the test. Substantial yield and drawdown stabilization was achieved for the last 10 hours of the test. Water-level data measured during the pumping test and plots of the data for Well 2 are given in Appendix III.

After the test was terminated, recovery measurements were made in Well 2 for a period of about 3.5 hours. The water-level plot given in Appendix III shows that the water levels in Well 1 recovered from a maximum pumping level of 132.3 feet at the end of the test to a depth of 74.3 feet in 3.5 hours. Recovery continued and in about three days the depth to water was 46.0 feet.

Well 2

Prior to the startup of Well 2, there was about 3.6 feet of drawdown observed in Well 2 resulting from the pumping of Well 1. Well 2 was pumped at consecutive rates of 50 and 65 gpm. During the 50-gpm pumping rate interval, the water level declined from a pre-test static water level of 31.2 feet to a depth of 102.3 feet at 1,284 minutes into the test. At this time, the pumping rate was increased to 65 gpm and this rate was maintained for the remainder of the test. The water level eventually stabilized and the pumping level was 140.8 feet below the top of the casing immediately prior to the end of the test. Substantial yield and drawdown stabilization was achieved for the last nine hours of the test. Water-level data measured during the pumping test and plots of the data for Well 2 are given in Appendix IV.

After the test was terminated, recovery measurements were made in Well 2 for a period of one hour. The water plot given in Appendix IV shows that the water level in Well 2 recovered from a maximum pumping level of 140.8 feet at the end of the test to a depth of 115.9 feet in one hour. Recovery continued and, in approximately three days, the depth to water was 55.0 feet.

LONG-TERM YIELD OF WELLS 1, 2 AND 3

The data from the December 1997 simultaneous multiple-well pumping test indicated that Wells 1, 2 and 3 can be pumped simultaneously at 15, 65 and 53 gpm, respectively, a combined rate of 133 gpm or about 191,500 gpm.

SUPPLY ADEQUACY

Wells 1, 2 and 3 have maximum individual yield capacities of 15, 65 and 53 gpm, respectively, for a combined yield capacity of 133 gpm (191,520 gpd). The yield of either Wells 2 or 3 exceeds the average water-supply demand for the project estimated to be 32.3 gpm and the combined yield of Wells 2 and 3 (118 gpm) significantly exceeds double the daily demand

of the project estimated to be 64.6 gpm. Therefore, Wells 2 and 3 meet the requirement of the NYSDOH of two separate sources capable of meeting the estimated average water-supply demand for the project, without the use of Well 1.

The lack of complete recovery within about three days, i.e., the duration of pumping, indicates that a conservative view of the proven pumping rate should be taken for long-term projections. It is considered that 85 percent of the tested rates is a conservative "safe yield" for Wells 2 and 3, or about 100 gpm (144,000 gpd). This discounted proven yield while operated simultaneously still exceeds twice the daily average demand. Although Well 1 is not required to meet the NYSDOH requirements , the well is proposed to be developed as a back-up supply well.

WELL MONITORING PROGRAM

During the 72-hour pumping test on Wells 1, 2 and 3, a well monitoring program was conducted involving adjacent domestic wells and public water-supply wells operated by the Town of Goshen. The well monitoring program followed the guidelines of the Town of Goshen ordinance, Article II - Well Testing adopted June 12, 1997, by L.L. No. 5 - 1997.

Between November 24 and December 8, 1997, a water-level interference study was conducted to determine the magnitude of water-level drawdown induced by the pumping of the proposed wells for Lone Oak Estates. Sixteen (16) wells, four onsite (MW-1, 2, 3 and 4) and 12 offsite wells in the vicinity of the study parcel were monitored. The location of the wells monitored are shown on figure 1. Six of the offsite monitoring wells (Wells 8A, 21, 22, 51, 52 and 53) are public water-supply wells for Arcadia Hills which are owned and operated by the Town of Goshen.

The purpose of the monitoring program was to determine if the simultaneous pumping of Wells 1, 2 and 3 for 72 hours at a rate equal to or exceeding the maximum water demands of the proposed project would significantly affect water levels and/or yields of existing neighboring wells.

Onsite Wells

Four test wells drilled on the Lone Oak Estates parcel which yielded between 2 and 5 gpm were monitored during the December 1997 pumping test on Wells 1, 2 and 3. Onsite Monitor Wells 1 and 4 (MW-1 and MW-4) indicate water-level interference effects of about 15.9 feet and 10.2 feet of drawdown, respectively, resulting from pumping onsite wells. The hydrographs for onsite Wells MW-2 and MW-3 show no discernible interference effects from the pumping of Wells 1, 2 and 3.

Offsite Impacts

Table 2 summarizes the water-level interference observed as a result of pumping Wells 1, 2 and 3. The hydrographs for the monitoring wells are located in Appendix V.

The hydrographs for some wells indicated minor fluctuations in water levels from their own use. An example of fluctuation from such use is a rapid decline (drawdown) in the water level from the pumping of a well followed by a rapid rise in the water level from the pump turning off. The Town's public supply Wells 8A and 52 and the Kolk well (offsite domestic well) show good examples of water-level fluctuations from their own pumpage.

Two offsite monitoring wells indicate a maximum water-level interference drawdown of about 40.6 feet and 43.0 feet in the Corey and FASA wells, respectively (table 1). The hydrographs of these wells show an immediate decline resulting from pumping wells on the Lone Oak Estates parcel. The hydrographs indicate the water-level decline observed on these two wells coincides closely with the startup of Well 1, the closest of the three pumping wells and water-level recovery during the short period the pump in Well 1 was shut off about 24 hours into the test.

The water-level interference observed during December 1997 pumping test on Wells 1, 2 and 3 did not impair the normal performance of the Corey Well (domestic supply well). The FASA well is an unequipped test well drilled by FASA Construction Corporation (FASA) under the supervision of LBG on property owned by the Corey's. The test well (FASA well) was drilled to possibly develop an additional water-supply source offsite for the proposed Lone Oak Estates

project. Although the FASA well yielded about 30 gpm at completion of drilling, the distance of the well from the Lone Oak Estates site and moderately-low yield do not make it cost effective to develop this well at the present time but, nevertheless, this well represents an additional future supply source if ever needed. The depth of the Corey wells was not provided by the owner, however, the hydrograph indicate minimal fluctuations of the water level from their water usage. The reported drawdown did not impair the normal performance of this domestic supply.

The remaining offsite wells (Wells 8A, 21, 22, 51, 52, 53, Arden Hill, Berger, Kolk Spring and Kolk) show no discernible drawdown interference effects from the pumping test of the Lone Oak Estates wells. In addition, Mr. Jerry Gutikaiss, Town of Goshen Water Operator, reported to LBG personnel that at the end of the test none of the Arcadia Hills wells had any loss in yield capacity over the 72-hour pumping test.

Permission to monitor wells owned by Olivia Serdarevic and located within 1,000 feet of the FASA well supply was obtained prior to the pumping test. The unequipped test wells which are not presently utilized on the Serdarevic property are reported to be located between the Lone Oaks Estates property boundary and the Arden Hill well to the west. On November 25 and December 2, 1997, LBG tried to locate existing wells on the Serdarevic property. Prior to conducting the site visits, LBG requested assistance in locating the wells from Ms. Serdarevic prior to the start of the pumping test. Unfortunately, without Ms. Serdarevic's assistance, LBG could not locate the wells. After conferring with Carlton Lloyd from the Town of Goshen and Albert Fini of FASA, it was decided to proceed with the pumping test as scheduled, rather than incurring additional costs from further postponement of the test.

WATER QUALITY

Water samples were collected from Wells 1, 2 and 3 near the end of the pumping test on December 5, 1997. The samples were delivered to Orange County Laboratory and analyzed for

all parameters required for the NYSDOH Sanitary Code, Part 5, Subpart 5-1. The water-quality analysis reports for the wells are located in Appendix VI.

All constituents were found below permissible limits with the exception of odor in Wells 1 and 3. The reported odor levels for Wells 1 and 3 are 18 and 4 units, respectively. The maximum odor level permitted by the NYSDOH for odor is 3 units. Wells 1 and 3 were reported to have trace odors of hydrogen sulfide during the pumping test. Hydrogen sulfide gas commonly occurs in wells in Orange County. An effective method of treatment to remove hydrogen sulfide is chemical oxidation by chlorination, followed by filtration or aeration if high concentrations are present. All public water supplies in New York must be chlorinated. Low concentrations of hydrogen sulfide present no health risks.

The reported concentration of sodium for Wells 1, 2 and 3 is elevated. The sodium concentrations in Wells 1, 2 and 3 are reported at 48.7 mg/l (milligrams per liter), 22.7 mg/l and 23.8 mg/l, respectively. The maximum contaminant level (MCL) for sodium is 270 mg/l. The NYSDOH must be notified if sodium levels in public water supplies exceed 20 mg/l and consumers must be notified if sodium levels exceed 270 mg/l. The elevated concentration of sodium is most likely from road salt application to Route 17 as well as local roads in the surrounding area.

CONCLUSIONS

Based on the results of the 72-hour simultaneous well pump test, Wells 1, 2 and 3 can sustain a combined yield of 133 gpm (191,520 gpd). The maximum individual yield capacity of Wells 1, 2 and 3 is 15, 65 and 53 gpm, respectively. The yield of either Wells 2 or 3 significantly exceeds the average water-supply demand for the projected estimated to be 32.3 gpm and the combined yield of Wells 2 and 3 (118 gpm) significantly exceeds double the daily demand of the projected estimate to be 64.6 gpm. Even if the "safe yield" of Wells 2 and 3 is discounted by 15 percent to allow for the lack of complete water-level recovery within three days, their combined

yield still exceed twice the average daily demand. Consequently, the development of Wells 1, 2 and 3 with a combined yield of 133 gpm exceeds the NYSDOH guidelines developed of double the daily demand (64.6 gpm), and the requirement of two separate sources capable of meeting the estimated average water-supply demand of the project. Although Well 1 is not required, the well is planned to be developed as a back-up supply well.

Twelve (12) of the onsite and offsite wells monitored indicate no discernible drawdown resulting from pumping Wells 1, 2 and 3. The hydrographs of two offsite monitoring wells, the Corey and FASA wells, indicate about 40.6 feet and 43.0 feet of water-level interference effects from pumping onsite wells. Two onsite wells, MW-1 and MW-4, indicate water-level interference effects of about 15.9 feet and 10.2 feet of drawdown, respectively, from pumping the production wells. The response induced in these wells was a result of pumping Wells 1, 2 and 3 at a combined rate which exceeds double the estimated average daily demand of the project for three days. Therefore, the water-level interference in the offsite wells which occur from normal operation (12 to 18 hours daily pumping cycles) of the wells to supply to actual water demand of the project should be less than observed.

The hydrographs for MW-1 and the Corey and FASA wells indicate the drawdown decline experienced in these wells result from the pumping of Well 1 on the study parcel. The hydrographs of these three monitoring wells show an immediate decline resulting from pumping Well 1, in addition to an immediate rise in the water level resulting from the pump in Well 1 being shut off for about two hours on December 3, 1997 about 24 hours into the test. The FASA well, MW-1 and MW-4 are unsuccessful test wells drilled for the proposed project and will be properly abandoned at the appropriate time in the near future. The Corey well is presently equipped for domestic use. Considering Wells 2 and 3 can easily meet projected water demands and requirements of the NYSDOH, Well 1 will be developed as a backup supply source. Therefore, the data indicate that the pumping of Wells 2 and 3 as the main water-supply source, and developing Well 1 as a backup supply source would minimize offsite impacts and not significantly impact any offsite wells or impair water usage.

The data indicate the pumping of Wells 1, 2 and 3 at the tested pumping rates would not significantly impact the existing well supply for Arcadia Hills.

It is proposed that the operators of the Lone Oak Estates water supply implement a suitable monitoring program to collect water-level information during the early stages of operation of the well field. The program would include, but not necessarily be limited to, monitoring of pumpage and measurements of pumping and non-pumping water levels in production wells, in selected offsite domestic wells and existing public supply wells for Arcadia Hills. If at a future date the wells on the Serdarevic property are located, these wells can be included in the program. These data will be collected to further evaluate the long-term yield of the well supply developed for Lone Oak Estates and possible offsite impacts, if any.

The ground-water supply for the proposed Lone Oak Estates will require a Water Supply Application (Water Taking Permit) to the NYSDEC, and must be reviewed and approved by the NYSDOH and Orange County Department of Health.

In addition, FASA will continue to explore the site to develop high-yielding bedrock wells both onsite and in the surrounding region. In addition, Wells 1 and 2 are scheduled to be redrilled and deepened to a depth of 600 feet to possibly encounter additional water-bearing fractures and increasing the yield capacity of the wells. If the development of an additional water supply is successful, the water will be developed as a surplus supply for Lone Oak Estates or to possibly augment the Arcadia Hills water supply which is reported to experience periodic water supply deficiencies.

LEGGETTE, BRASHEARS & GRAHAM, INC.

Thomas P. Cusack, PG
Associate

AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS
CERTIFICATE NUMBER
7843
AIPG
THOMAS P. CUSACK
CERTIFIED PROFESSIONAL GEOLOGIST

Reviewed by:

R. G. Slayback, CPG
President

skd
February 10, 1999
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TABLES

TABLE 1

PROPOSED LONE OAK ESTATES
GOSHEN, NEW YORK

Estimated Water Demands
New York State Department of Health Guidelines

Number/size of unit	Number of persons per unit	Gallons per day per person/per unit	Total average daily demand (gpd)
172 (3.5 bedroom)	4.5	75/337.5	58,050
TOTAL			58,050
Less 20-percent for Water-Saving Fixture			46,440

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TABLE 2

PROPOSED LONE OAK ESTATES
GOSHEN, NEW YORK

Wells Monitored During the Dec. 2-5, 1997
72-Hour Pumping Test of Wells 1, 2 and 3

Well	Approximate distance from closest pumping well (feet)	Observed water-level interference as a result of pumping Well 1, 2 and 3 (drawdown in feet)
MW-1	800 (Well 1)	15.9
MW-2	1,000 (Well 2)	ND
MW-3	1,200 (Well 3)	ND
MW-4	1,000 (Well 2)	10.2
Arden Hill	3,200 (Well 1)	ND
Corey	1,400 (Well 1)	40.6
FASA	900 (Well 1)	43.0
Kolk	1,500 (Well 1)	ND
Kolk Spring	1,400 (Well 1)	ND
Berger	1,500 (Well 2)	ND
21	1,100 (Wells 1 nd 2)	ND
22	1,100 (Wells 1 and 2)	ND
8A	2,250 (Well 2)	ND
51	300 (Well 3)	ND
52	1,050 (Well 3)	ND
53	225 (Well 3)	ND

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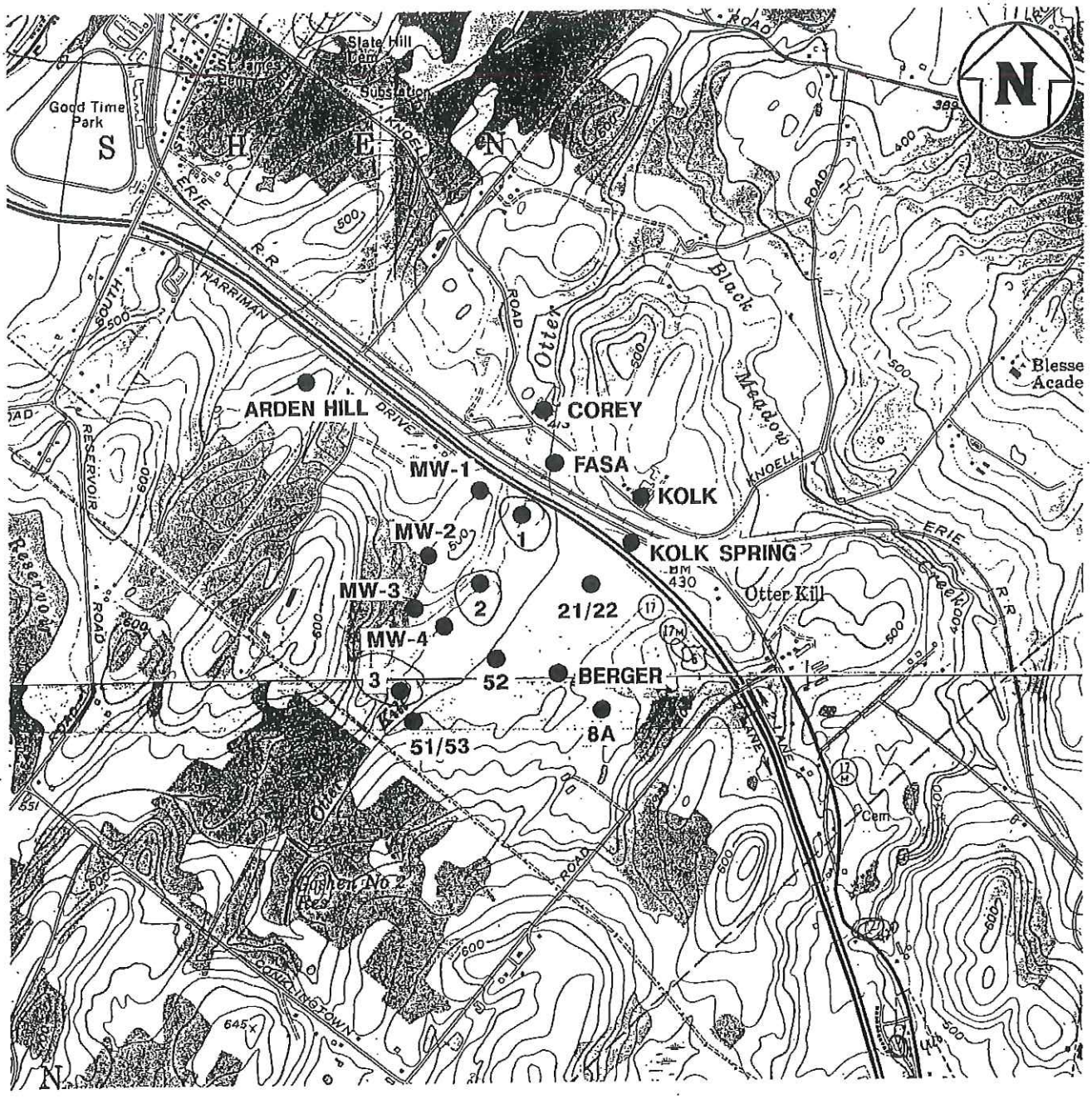
FIGURE



SOURCE: USGS TOPOGRAPHIC QUADRANGLES GOSHEN, NEW YORK (1957) AND WARWICK, NEW YORK (1957).

LEGEND

● WELL LOCATION AND
1 IDENTIFICATION

QUADRANGLE LOCATION

0 2000

SCALE IN FEET

LONE OAK ESTATES
GOSHEN, NEW YORK

WELL LOCATION MAP

DATE	REVISED	PREPARED BY:
		LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 126 Monroe Turnpike Trumbull, CT 06611 (203) 452-3100
DRAWN: TLC		CHECKED: TPC DATE: 1/30/98 FIGURE: 1

O:\DWG\FALONE\FIG1.DWG

APPENDIX I

Roarke Well Drilling, Inc.

7 James Street
Harriman, NY 10926

(914) 783-WELL (9355) or 783-2331

Member
National
Ground Water
Association

Certified by
National Ground
Water Association
Well Driller & Pump Installer

Well Location 692-5555
well # 2 near quickway
Harriman Dr.
Goshen , NY 10924

Contractor 692-5555
F.A.S.A. Construction
Fini Dr.
Middletown , NY 10940

Report on well drilled: 11/27/96

Depth Data: * Well Depth is: 500 feet. * Static water level is: 20 feet.

Well Type: Open Hole in Bedrock .

Casing Details: * Total Length: 70 feet. * Diameter: 6 inch. * Wieght per foot: 17 lb.

* Casing is set 10 feet into Slate .

* Seal : . * Joints: Threaded .

Well Yeild: * Well produces approximately 25 G.P.M.. * Well has 1 water vein(s).

* First at 150 feet with approximately 25 G.P.M..

* Second at feet with approximately G.P.M..

* Third at feet with approximately G.P.M..

* Fourth at feet with approximately G.P.M..

Pump recommended is a: model #
or equivalent, to be set at _____ feet of depth, measuring from the top of well.

Remarks:
Test Well #6 near quickway in low land area.

Signed: _____
William J. Roarke
President

_____
Charles W. Crover
Vice President

Roarke Well Drilling, Inc.

7 James Street
Harriman, NY 10926

(914) 783-WELL (9355) or 783-2331

Certified by
National Ground
Water Association
Well Driller & Pump Installer

Well Location 692-5555
well #2
Harriman Dr.
Goshen , NY 10924

Contractor 692-5555
F.A.S.A. Construction
Fini Dr.
Middletown , NY 10940

Report on well drilled: 10/21/96

Depth Data: * Well Depth is: 300 feet. * Static water level is: 40 feet.

Well Type: Open Hole in Bedrock .

Casing Details: * Total Length: 40 feet. * Diameter: 6 inch. * Wieght per foot: 17 lb.
* Casing is set 8 feet into Slate .
* Seal : . * Joints: Threaded .

Well Yeild: * Well produces approximately 55 G.P.M.. * Well has 2 water vein(s).
* First at 174 feet with approximately 50 G.P.M..
* Second at 200 feet with approximately 5 G.P.M..
* Third at feet with approximately G.P.M..
* Fourth at feet with approximately G.P.M..

Pump recommended is a: Goulds model # 70gs50
or equivalent, to be set at 200 feet of depth, measuring from the top of well.

Remarks:
est Well #3 near rock walls in low land area, 40 feet from test well #2 which provided no water.

Signed:

William J. Roarke
President

Charles W. Crover
Vice President

Roarke Well Drilling, Inc.

7 James Street
Harriman, NY 10926
(914) 783-WELL (9355) or 783-2331

Member
National
Ground Water
Association

Certified by
National Ground
Water Association
Well Driller & Pump Installer

Report on well drilled: 9/4/96 ID # _____

Well Location 692-5555
Test Well # 3
Wedgewood Rd.
Goshen , NY 10924
Sec-Bl-Lot # - -

Contractor 692-5555
F.A.S.A. Construction
Fini Dr.
Middletown , NY 10940

Depth Data: * Well Depth is: 600 feet. * Static water level is: 0 feet.

Well Type: Open Hole in Bedrock .

Casing Details: * Total Length: 20 feet. * Diameter: 6 inch. * Weight per foot: 17 lb.
* Casing is set 15 feet into Slate .
* Seal : . * Joints: .

Well Yeild: * Well produces approximately 50 G.P.M.. * Well has 2 water vein(s).
* First at 98 feet with approximately 12 G.P.M..
* Second at 157 feet with approximately 38 G.P.M..
* Third at 280 feet with approximately ____ G.P.M..
* Fourth at ____ feet with approximately ____ G.P.M..

Pump recommended is a: Goulds model # 48 gpm 5 hp
or equivalent, to be set at 200 feet of depth, measuring from the top of well.

Remarks:

Test Well #1 Nearest 3 Goshen Wells

Off Wedgewood Rd.

Bad seam of Clay in rock at 280 feet. Keep pump above it.

Signed: _____ _____

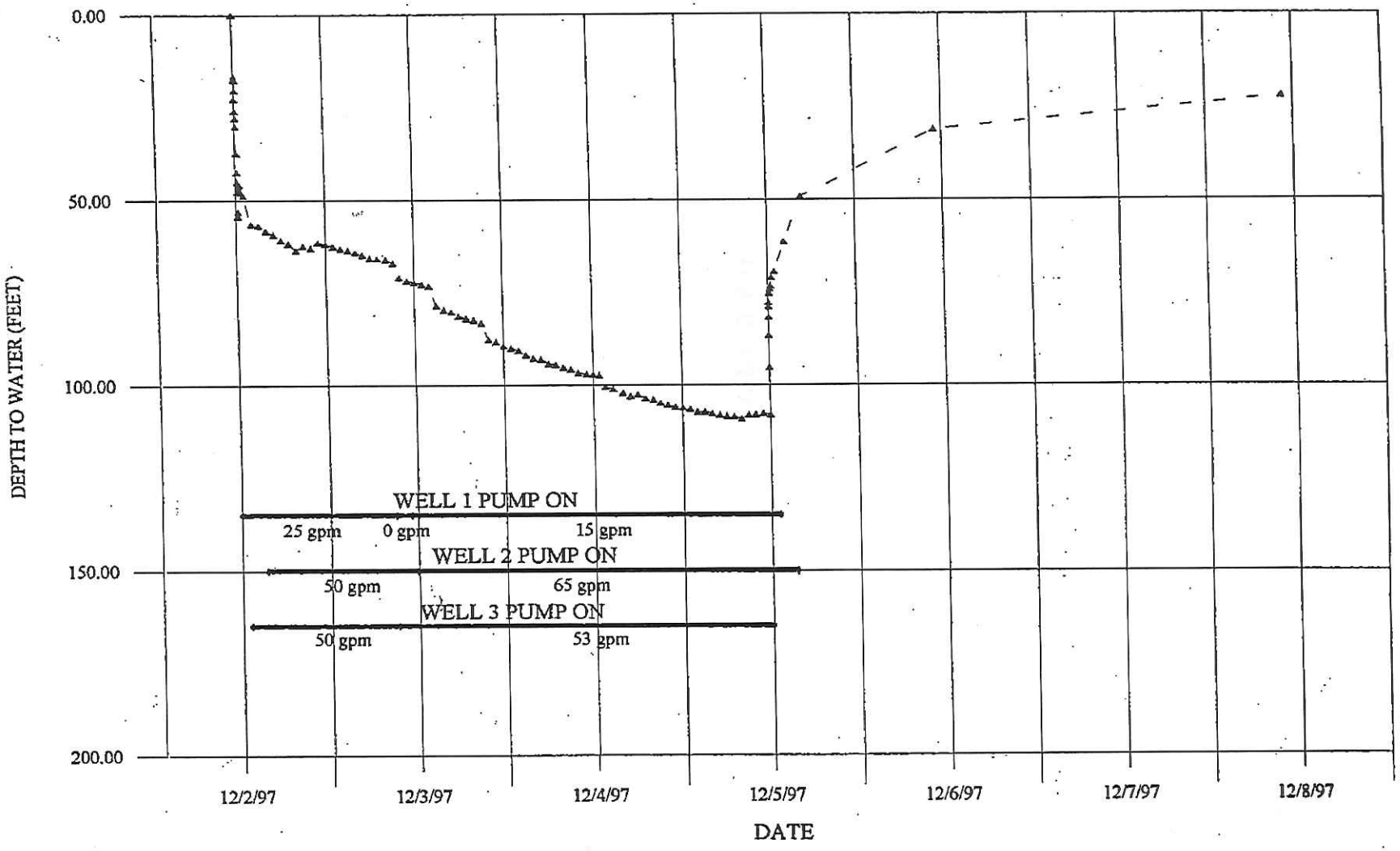
William J. Roarke
President

Charles W. Crover
Vice President

APPENDIX II

LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Production Well 3 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



Leggette, Brashears & Graham, Inc.

LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 3
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	11:15	0	-5	Pretest
12/02/97	11:20	0	0	PW-3 START UP
12/02/97	11:21	22.8	1	50 gpm
12/02/97	11:22	25.95	2	
12/02/97	11:23	17.2	3	
12/02/97	11:24	16.35	4	
12/02/97	11:25	17.4	5	
12/02/97	11:26	20.4	6	
12/02/97	11:27	27.8	7	
12/02/97	11:28	29.9	8	
12/02/97	11:29	37.15	9	
12/02/97	11:30	42.15	10	
12/02/97	11:31	44.7	11	
12/02/97	11:32	47.55	12	
12/02/97	11:33	54.15	13	
12/02/97	11:34	54.1	14	
12/02/97	11:35	52.9	15	
12/02/97	11:41	46	21	
12/02/97	11:45	47.04	25	
12/02/97	11:50	45.6	30	
12/02/97	11:55	47.30	35	
12/02/97	12:05	47.87	45	
12/02/97	12:20	48.8	60	
12/02/97	13:20	56.34	120	PW-1 Pump On
12/02/97	14:20	56.72	180	
12/02/97	15:20	58.15	240	PW-2 Pump On
12/02/97	16:20	59.30	300	
12/02/97	17:20	60.90	360	
12/02/97	18:20	61.80	420	
12/02/97	19:20	63.58	480	
12/02/97	20:20	62.45	540	
12/02/97	21:20	63.00	600	
12/02/97	22:20	61.60	660	
12/02/97	23:20	62.00	720	
12/03/97	00:20	62.63	780	
12/03/97	01:20	63.20	840	
12/03/97	02:20	63.70	900	
12/03/97	03:20	64.25	960	
12/03/97	04:20	64.81	1020	
12/03/97	05:20	65.67	1080	
12/03/97	06:20	65.85	1140	50 gpm

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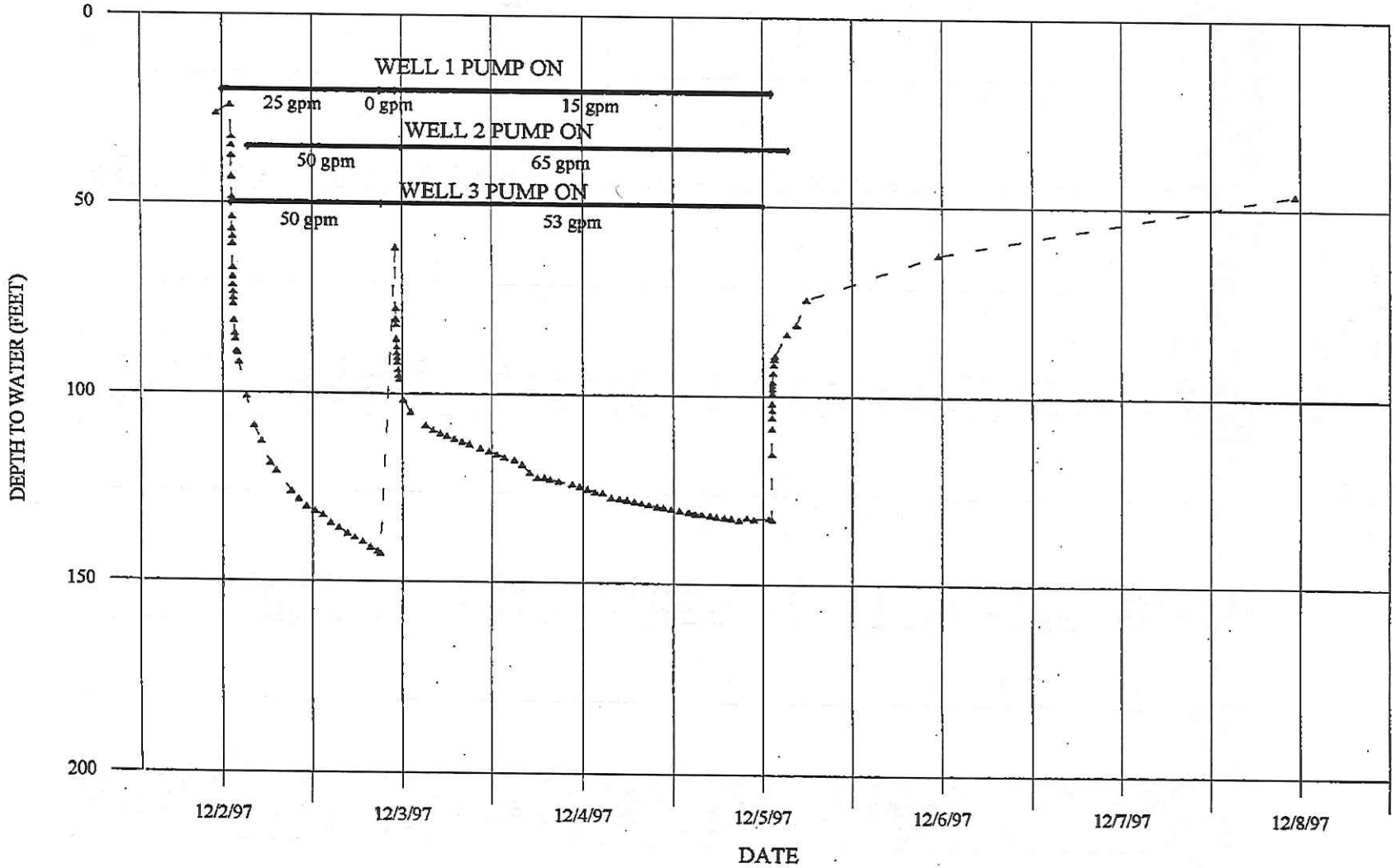
LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 3
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/03/97	07:30	66.12	1210	50 gpm
12/03/97	08:30	67.05	1270	Q increased to 53 gpm
12/03/97	09:20	71.05	1320	
12/03/97	10:20	71.90	1380	
12/03/97	11:20	72.35	1440	
12/03/97	12:20	72.82	1500	
12/03/97	13:20	73.39	1560	
12/03/97	14:20	78.75	1620	
12/03/97	15:20	79.94	1680	
12/03/97	16:20	80.40	1740	
12/03/97	17:20	81.60	1800	
12/03/97	18:20	82.20	1860	
12/03/97	19:20	82.60	1920	
12/03/97	20:20	83.40	1980	
12/03/97	21:19	87.75	2039	
12/03/97	22:20	88.50	2100	
12/03/97	23:20	89.50	2160	
12/03/97	00:20	90.17	2220	
12/04/97	01:20	90.89	2280	
12/04/97	02:20	92.00	2340	
12/04/97	03:20	92.88	2400	
12/04/97	04:20	93.10	2460	
12/04/97	05:20	94.30	2520	
12/04/97	06:20	94.60	2580	
12/04/97	07:20	95.31	2640	
12/04/97	08:20	95.82	2700	
12/04/97	09:20	96.75	2760	
12/04/97	10:30	97.00	2830	
12/04/97	11:20	97.16	2880	
12/04/97	12:10	97.45	2930	
12/04/97	13:00	100.42	2980	
12/04/97	14:00	101.03	3040	
12/04/97	15:20	102.08	3120	
12/04/97	16:20	103.00	3180	
12/04/97	17:20	102.50	3240	
12/04/97	18:20	103.60	3300	
12/04/97	19:20	103.90	3360	
12/04/97	20:20	104.80	3420	
12/04/97	21:20	105.30	3480	
12/04/97	22:20	105.82	3540	
12/04/97	23:20	106.03	3600	53 gpm

LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Production Well 1 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



Leggette, Brashears & Graham, Inc.

LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 1
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:35	26.11	-115	PW-3 Pump On
12/02/97	12:25	23.67	-5	
12/02/97	12:30	-	0	PW-1 START UP
12/02/97	12:31	32.25	1	25 gpm
12/02/97	12:32	34.5	2	
12/02/97	12:33	37.3	3	
12/02/97	12:34	43.0	4	
12/02/97	12:35	48.35	5	
12/02/97	12:36	53.65	6	
12/02/97	12:37	56.85	7	
12/02/97	12:38	58.85	8	
12/02/97	12:39	60.60	9	
12/02/97	12:40	67.0	10	
12/02/97	12:41	69.25	11	
12/02/97	12:42	71.4	12	
12/02/97	12:43	73.2	13	
12/02/97	12:44	74.7	14	
12/02/97	12:45	76.2	15	
12/02/97	12:50	80.75	20	
12/02/97	12:55	84.2	25	
12/02/97	13:00	85.54	30	
12/02/97	13:10	88.87	40	
12/02/97	13:20	89.25	50	
12/02/97	13:30	91.75	60	
12/02/97	14:30	100.72	120	
12/02/97	15:30	108.55	180	PW-3 Pump On
12/02/97	16:30	112.75	240	
12/02/97	17:40	118.28	310	
12/02/97	18:30	120.47	360	
12/02/97	20:30	125.82	480	
12/02/97	21:30	127.95	540	
12/02/97	22:33	129.94	603	
12/02/97	23:37	131.08	667	
12/03/97	00:43	132.27	733	
12/03/97	01:44	134.31	794	
12/03/97	02:50	135.67	860	
12/03/97	03:57	137.13	927	
12/03/97	04:56	138.14	986	
12/03/97	06:00	139.35	1050	
12/03/97	07:00	140.90	1110	
12/03/97	08:00	141.9	1170	25 gpm

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LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 3
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/04/97	00:20	106.42	3660	53 gpm
12/05/97	01:20	107.18	3720	
12/05/97	02:20	107.15	3780	
12/05/97	03:20	107.63	3840	
12/05/97	04:20	107.92	3900	
12/05/97	05:20	108.23	3960	
12/05/97	06:20	108.43	4020	
12/05/97	07:20	108.92	4080	
12/05/97	08:20	107.97	4140	
12/05/97	09:20	107.78	4200	
12/05/97	10:20	107.52	4260	53 gpm
12/05/97	11:20	107.91	4320	PW-3 SHUT DOWN
12/05/97	11:21	95.30	4321	Recovery
12/05/97	11:22	86.80	4322	
12/05/97	11:23	82.00	4323	
12/05/97	11:24	79.10	4324	
12/05/97	11:25	78.10	4325	
12/05/97	11:30	75.50	4330	
12/05/97	11:35	74.40	4335	
12/05/97	11:40	73.55	4340	
12/05/97	11:50	71.2	4350	
12/05/97	12:15	69.58	4375	
12/05/97	13:40	61.55	4460	
12/05/97	16:00	49.12	4600	
12/06/97	10:20	31.25	5700	
12/08/97	09:50	22.5	8550	

APPENDIX III

LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 1
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/03/97	08:20	142.45	1190	PW-1 PUMP OFF
12/03/97	10:25	61.5	1315	
12/03/97	10:26	-	1316	PW-1 PUMP ON
12/03/97	10:27	77.25	1317	15 gpm
12/03/97	10:28	80.05	1318	
12/03/97	10:29	80.25	1319	
12/03/97	10:30	81.6	1320	
12/03/97	10:33	85.45	1323	
12/03/97	10:35	87.5	1325	
12/03/97	10:37	89.05	1327	
12/03/97	10:39	90.3	1329	
12/03/97	10:41	91.5	1331	
12/03/97	10:46	93.5	1336	
12/03/97	10:51	95.0	1341	
12/03/97	10:56	96.15	1346	
12/03/97	11:26	101.62	1376	
12/03/97	12:26	104.6	1436	
12/03/97	14:26	108.25	1556	
12/03/97	15:26	109.45	1616	
12/03/97	16:26	110.35	1676	
12/03/97	17:20	111.0	1730	
12/03/97	18:20	111.77	1790	
12/03/97	19:20	112.6	1850	
12/03/97	20:20	113.24	1910	
12/03/97	21:47	114.26	1997	
12/03/97	22:56	115.02	2066	
12/03/97	23:57	115.74	2127	
12/04/97	00:56	116.58	2186	
12/04/97	02:13	117.25	2263	
12/04/97	03:17	118.45	2327	
12/04/97	04:16	120.64	2386	
12/04/97	05:15	121.94	2445	
12/04/97	06:12	121.95	2502	
12/04/97	06:58	122.36	2548	
12/04/97	08:05	122.95	2615	
12/04/97	09:55	123.75	2725	
12/04/97	10:54	124.2	2784	
12/04/97	11:55	124.88	2845	
12/04/97	12:55	125.51	2905	
12/04/97	13:55	125.85	2965	
12/04/97	15:05	127.15	3035	15 gpm

LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 1
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/04/97	16:10	127.4	3100	15 gpm
12/04/97	17:10	127.71	3160	
12/04/97	18:10	128.05	3220	
12/04/97	19:10	128.55	3280	
12/04/97	20:04	128.94	3334	
12/04/97	21:13	129.45	3403	
12/04/97	22:01	129.67	3451	
12/04/97	23:02	130.07	3512	
12/05/97	00:07	130.45	3577	
12/05/97	01:17	130.81	3647	
12/05/97	02:07	131.11	3697	
12/05/97	03:04	131.32	3754	
12/05/97	04:11	131.56	3821	
12/05/97	05:02	131.97	3872	
12/05/97	06:04	132.22	3934	
12/05/97	06:59	132.37	3989	
12/05/97	08:05	132.75	4055	
12/05/97	09:05	132.13	4115	
12/05/97	10:05	132.55	4175	15 gpm
12/05/97	12:05	132.27	4295	PW-3 Pump Off
12/05/97	12:29	132.50	4319	
12/05/97	12:30	-	4320	PW-1 SHUT DOWN
12/05/97	12:31	115.00	4321	Recovery
12/05/97	12:32	108.30	4322	
12/05/97	12:33	105.42	4323	
12/05/97	12:34	103.35	4324	
12/05/97	12:35	101.65	4325	
12/05/97	12:37	99.05	4327	
12/05/97	12:38	97.80	4328	
12/05/97	12:39	96.95	4329	
12/05/97	12:40	96.13	4330	
12/05/97	12:45	93.75	4335	
12/05/97	12:50	91.4	4340	
12/05/97	12:55	90.00	4345	
12/05/97	13:00	89.15	4350	
12/05/97	14:35	83.48	4445	
12/05/97	15:55	80.92	4525	
12/05/97	17:15	74.28	4605	
12/06/97	10:55	62.50	5665	
12/08/97	10:40	46.05	8530	

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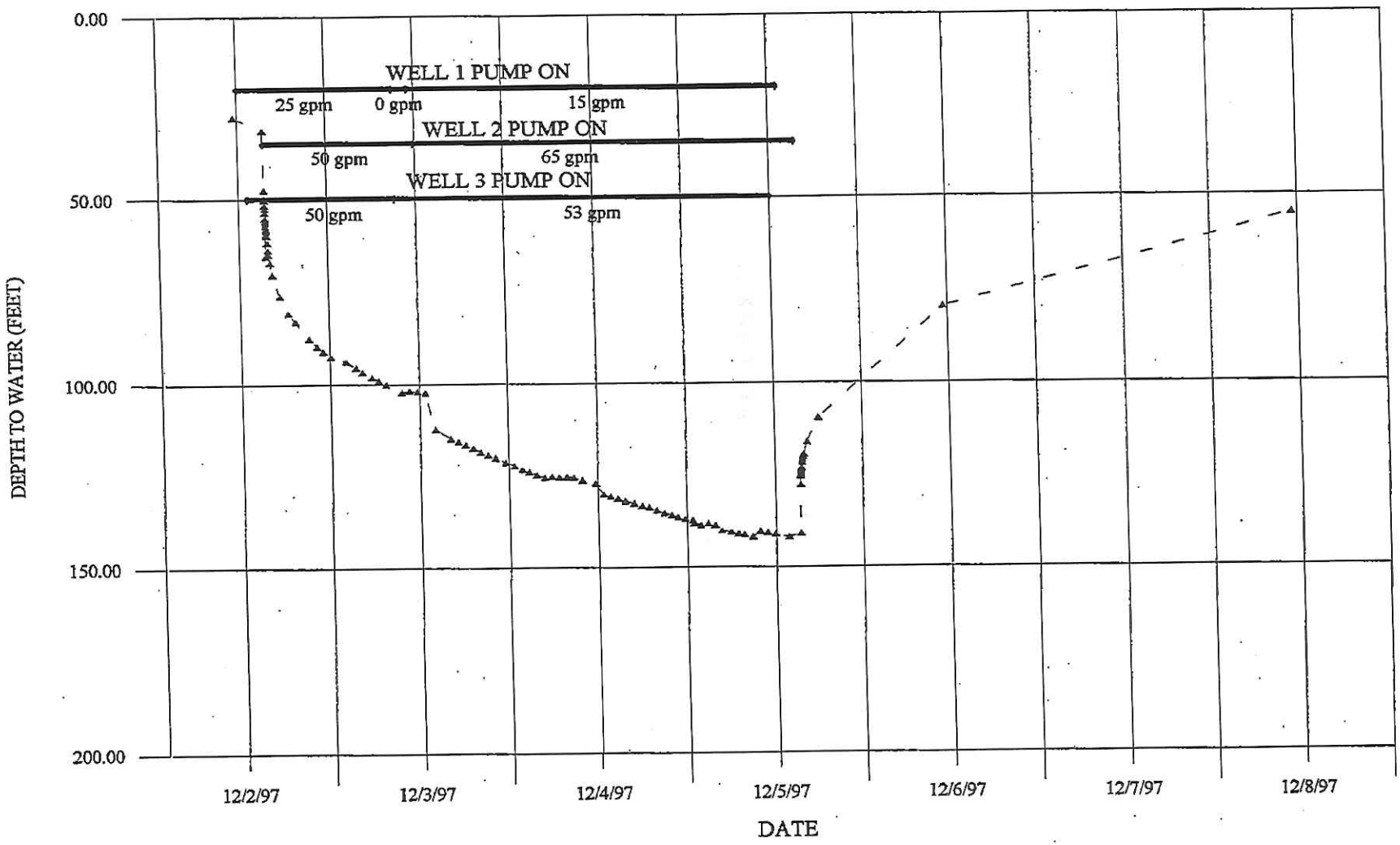
APPENDIX IV

LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Production Well 2 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 2
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:45	27.6	-240	Pretest
12/02/97	14:44	31.2	-1	PW-1,3 Pumps On
12/02/97	14:45	-	0	PW-2 START UP
12/02/97	14:46	47.55	1	50 gpm
12/02/97	14:47	49.67	2	
12/02/97	14:48	50.2	3	
12/02/97	14:49	51.6	4	
12/02/97	14:50	52.37	5	
12/02/97	14:51	53.35	6	
12/02/97	14:52	65.15	7	
12/02/97	14:53	55.0	8	
12/02/97	14:54	55.7	9	
12/02/97	14:55	56.4	10	
12/02/97	14:56	57.1	11	
12/02/97	14:57	57.82	12	
12/02/97	14:58	58.3	13	
12/02/97	14:59	59.1	14	
12/02/97	15:00	59.5	15	
12/02/97	15:05	61.5	20	
12/02/97	15:10	63.45	25	
12/02/97	15:15	64.58	30	
12/02/97	15:25	66.9	40	
12/02/97	15:45	70.15	60	
12/02/97	16:45	76.1	120	
12/02/97	17:50	80.65	185	
12/02/97	18:45	82.85	240	
12/02/97	20:35	87.48	350	
12/02/97	21:40	89.5	415	
12/02/97	22:27	90.84	462	
12/02/97	23:30	92.29	525	
12/03/97	00:33	93.75	647	
12/03/97	01:52	95.44	726	
12/03/97	02:44	96.60	778	
12/03/97	04:01	98.12	855	
12/03/97	04:51	98.98	905	
12/03/97	05:54	100.08	968	
12/03/97	08:00	102.13	1094	
12/03/97	09:00	101.75	1154	
12/03/97	10:05	101.90	1219	50 gpm
12/03/97	11:10	102.35	1284	Q increased to 65 gpm
12/03/97	12:30	112.2	1364	65 gpm

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LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 2
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/03/97	14:30	114.75	1484	65 gpm
12/03/97	15:30	115.5	1544	
12/03/97	16:30	116.4	1604	
12/03/97	17:30	117.33	1664	
12/03/97	18:30	118.3	1724	
12/03/97	19:30	119.15	1784	
12/03/97	20:30	119.96	1844	
12/03/97	21:53	121.17	1927	
12/03/97	23:01	122.07	1995	
12/04/97	00:08	123.12	2062	
12/04/97	01:01	123.87	2115	
12/04/97	02:06	124.71	2180	
12/04/97	03:08	125.45	2242	
12/04/97	04:06	125.15	2300	
12/04/97	05:08	125.32	2362	
12/04/97	06:07	125.25	2421	
12/04/97	07:04	125.50	2478	
12/04/97	08:15	126.25	2549	
12/04/97	10:05	127.03	2659	
12/04/97	11:05	130.06	2719	
12/04/97	12:00	130.68	2774	
12/04/97	13:00	131.35	2834	
12/04/97	14:00	131.9	2894	
12/04/97	15:10	132.6	2964	
12/04/97	16:15	133.3	3029	
12/04/97	17:15	133.62	3089	
12/04/97	18:15	134.5	3149	
12/04/97	19:15	135.31	3209	
12/04/97	20:17	135.81	3271	
12/04/97	21:05	136.29	3319	
12/04/97	22:07	136.80	3381	
12/04/97	23:07	137.17	3441	
12/05/97	00:15	137.95	3450	
12/05/97	01:10	138.5	3505	
12/05/97	02:11	138.02	3566	
12/05/97	03:07	138.51	3622	
12/05/97	04:02	140.01	3677	
12/05/97	05:16	140.42	3751	
12/05/97	06:13	140.85	3808	
12/05/97	07:00	141.14	3855	
12/05/97	08:10	141.80	3925	65 gpm

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LONE OAK ESTATE
TOWN OF GOSHEN
Production Well 2
Water-Level Reading During
December 2-5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/05/97	09:10	140.22	3985	65 gpm
12/05/97	10:10	140.65	4045	
12/05/97	11:15	141.00	4110	
12/05/97	13:05	141.85	4220	PW-1,3 Pumps Off
12/05/97	14:44	140.85	4319	65 gpm
12/05/97	14:45	-	4320	PW-2 SHUT DOWN
12/05/97	14:46	127.65	4321	Recovery
12/05/97	14:47	125.40	4322	
12/05/97	14:48	124.85	4323	
12/05/97	14:49	124.35	4324	
12/05/97	14:50	124.20	4325	
12/05/97	14:52	123.65	4327	
12/05/97	14:53	123.62	4328	
12/05/97	14:54	123.13	4329	
12/05/97	14:55	122.87	4330	
12/05/97	15:00	121.40	4335	
12/05/97	15:05	120.65	4340	
12/05/97	15:10	120.00	4345	
12/05/97	15:15	119.35	4350	
12/05/97	15:45	115.95	4380	
12/05/97	17:20	109.4	4475	
12/06/97	10:45	79.55	5520	
12/08/97	10:35	54.96	8390	

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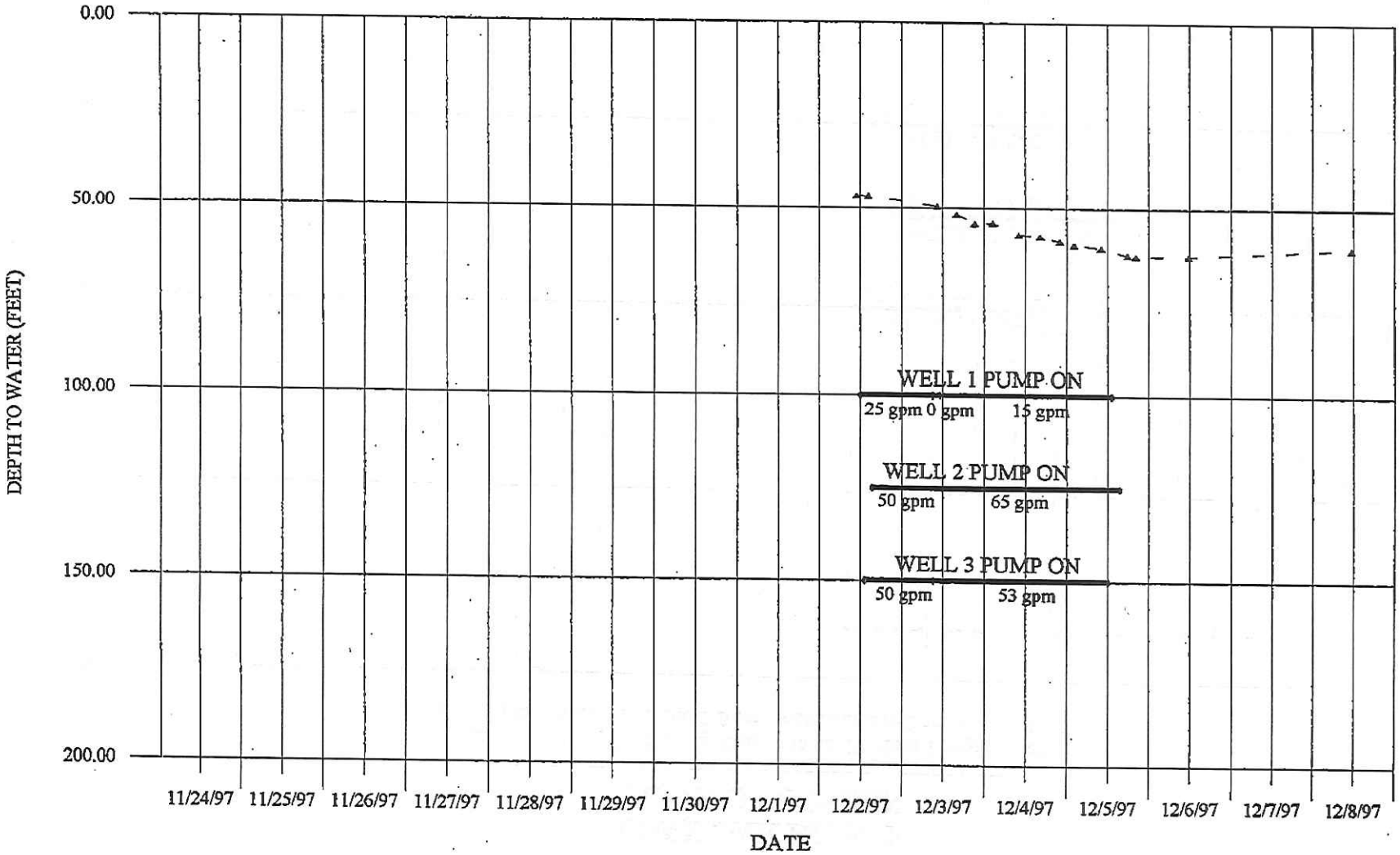
APPENDIX V

LONE OAK ESTATE
TOWN OF GOSHEN

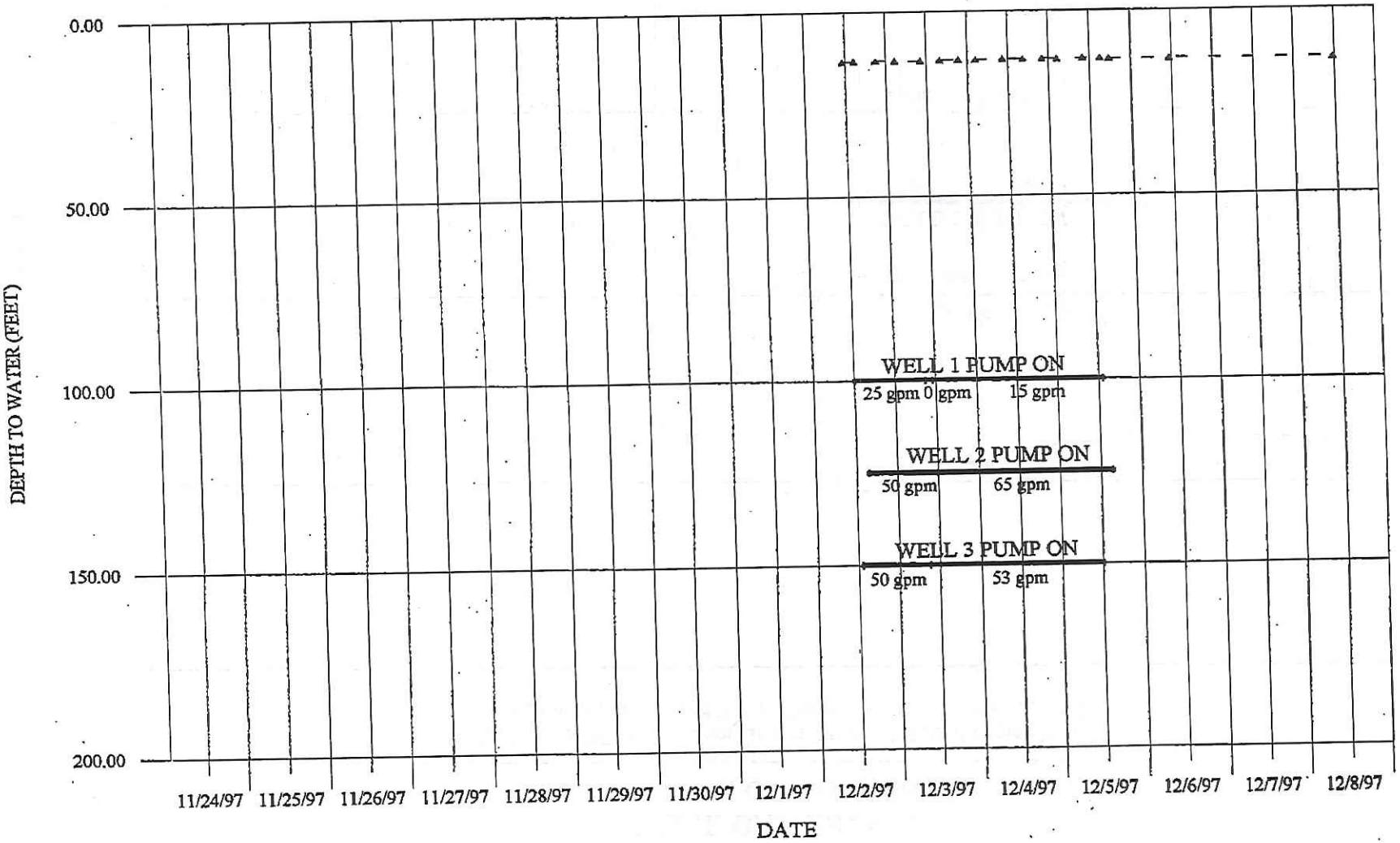
Hydrograph of MW-1 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



Leggette, Brashears & Graham, Inc.

LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of MW-2 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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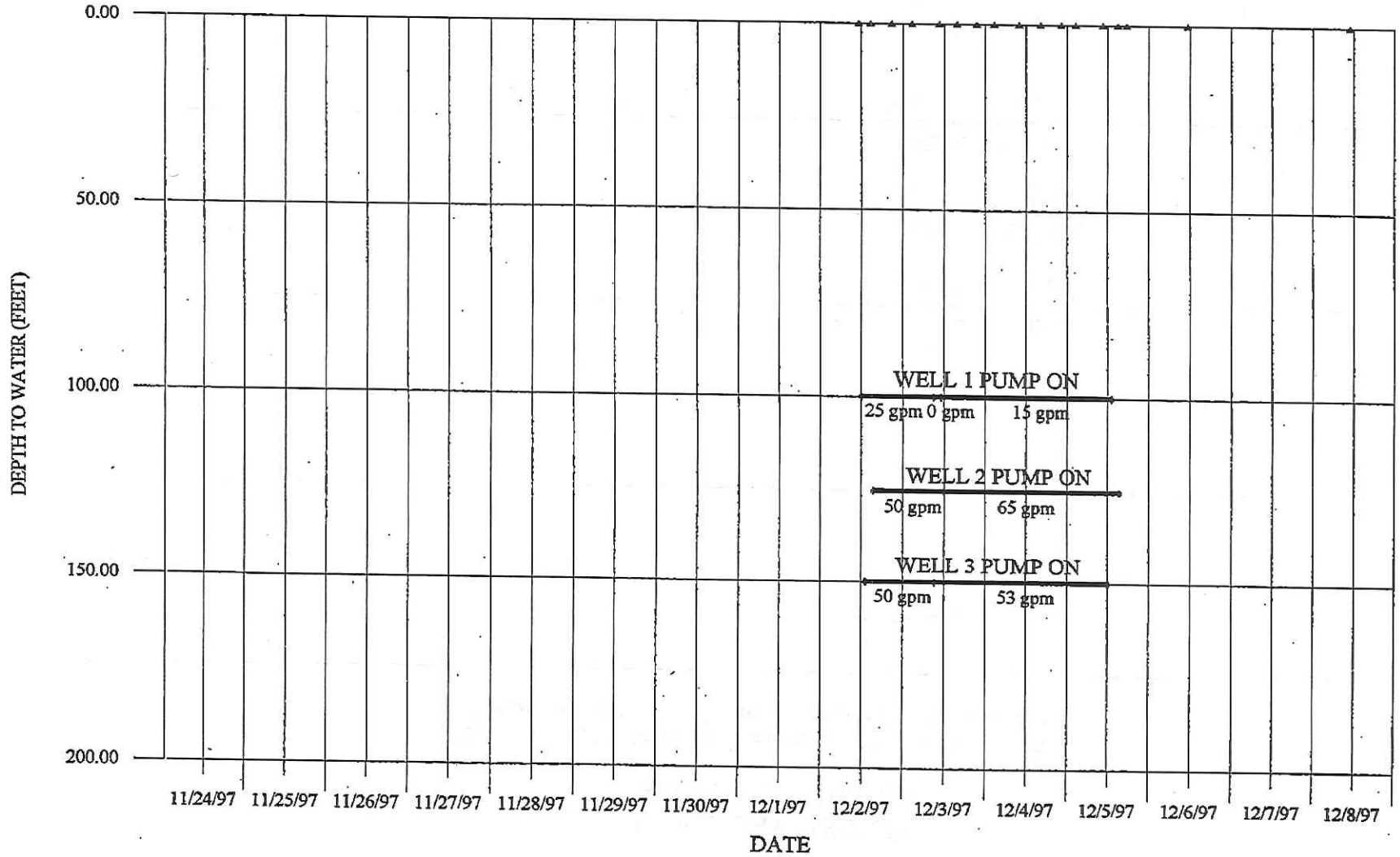
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of MW-3 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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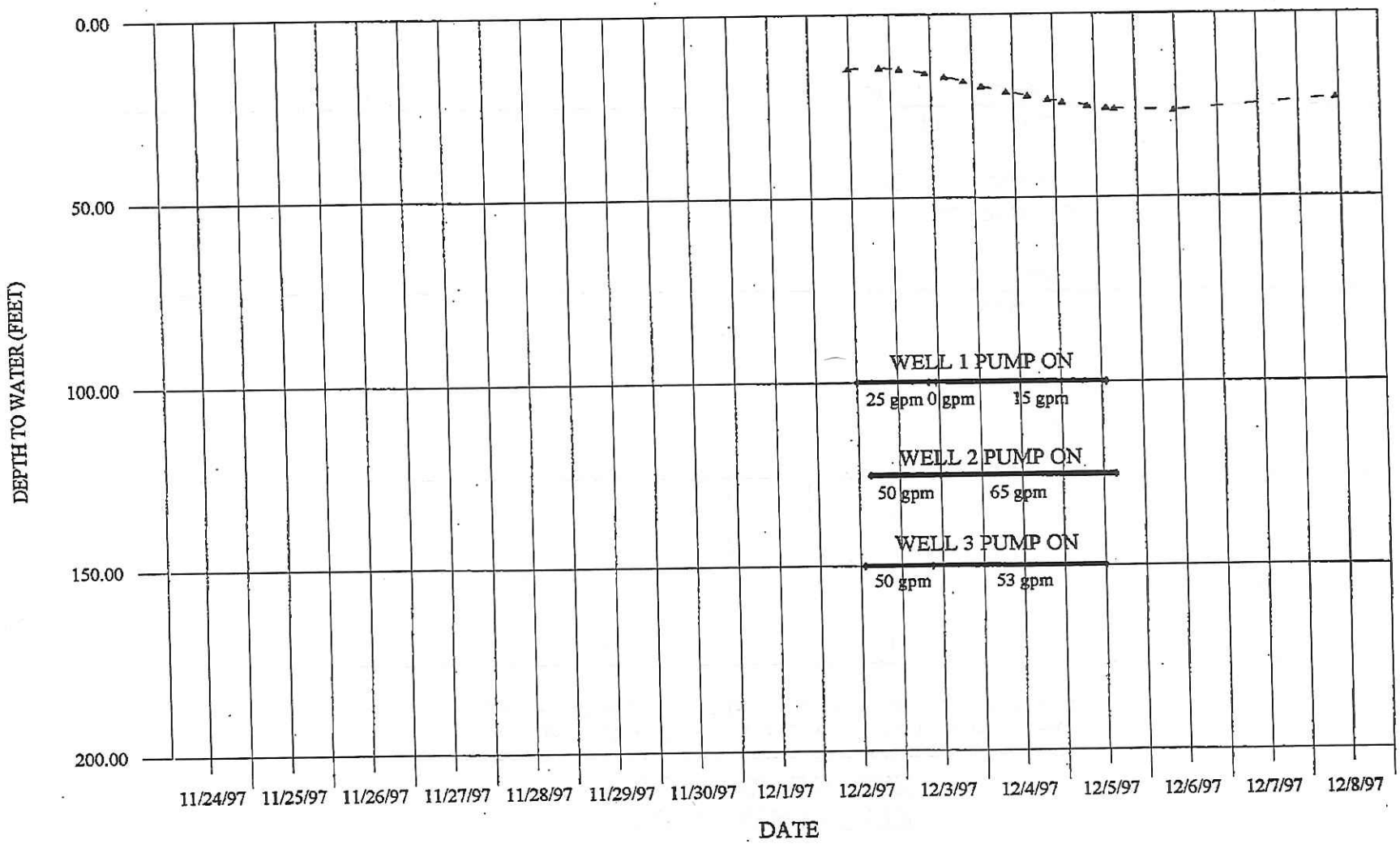
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of MW-4 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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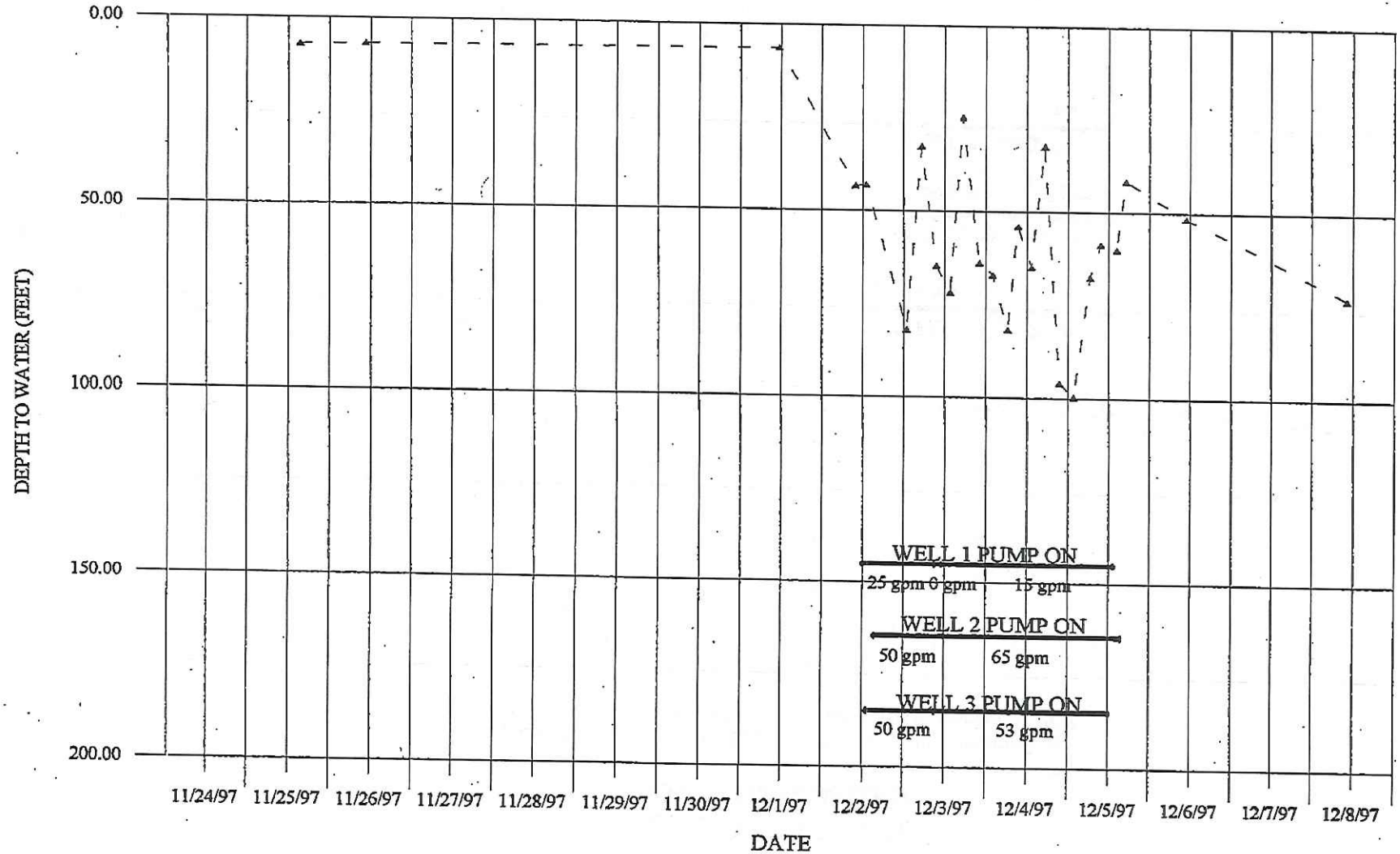
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Well 8A During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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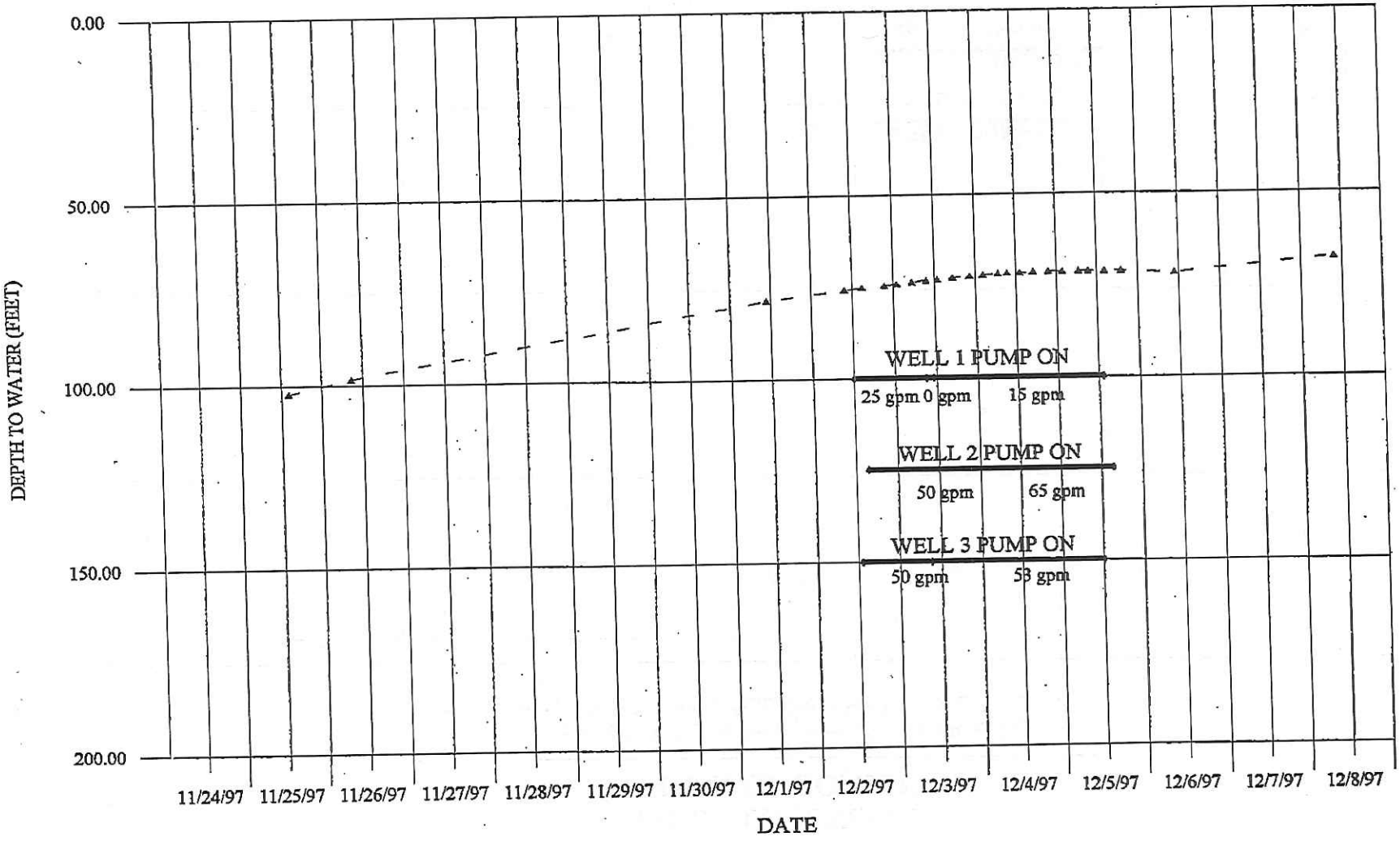
LONE OAK ESTATE
TOWN OF GOSHEN

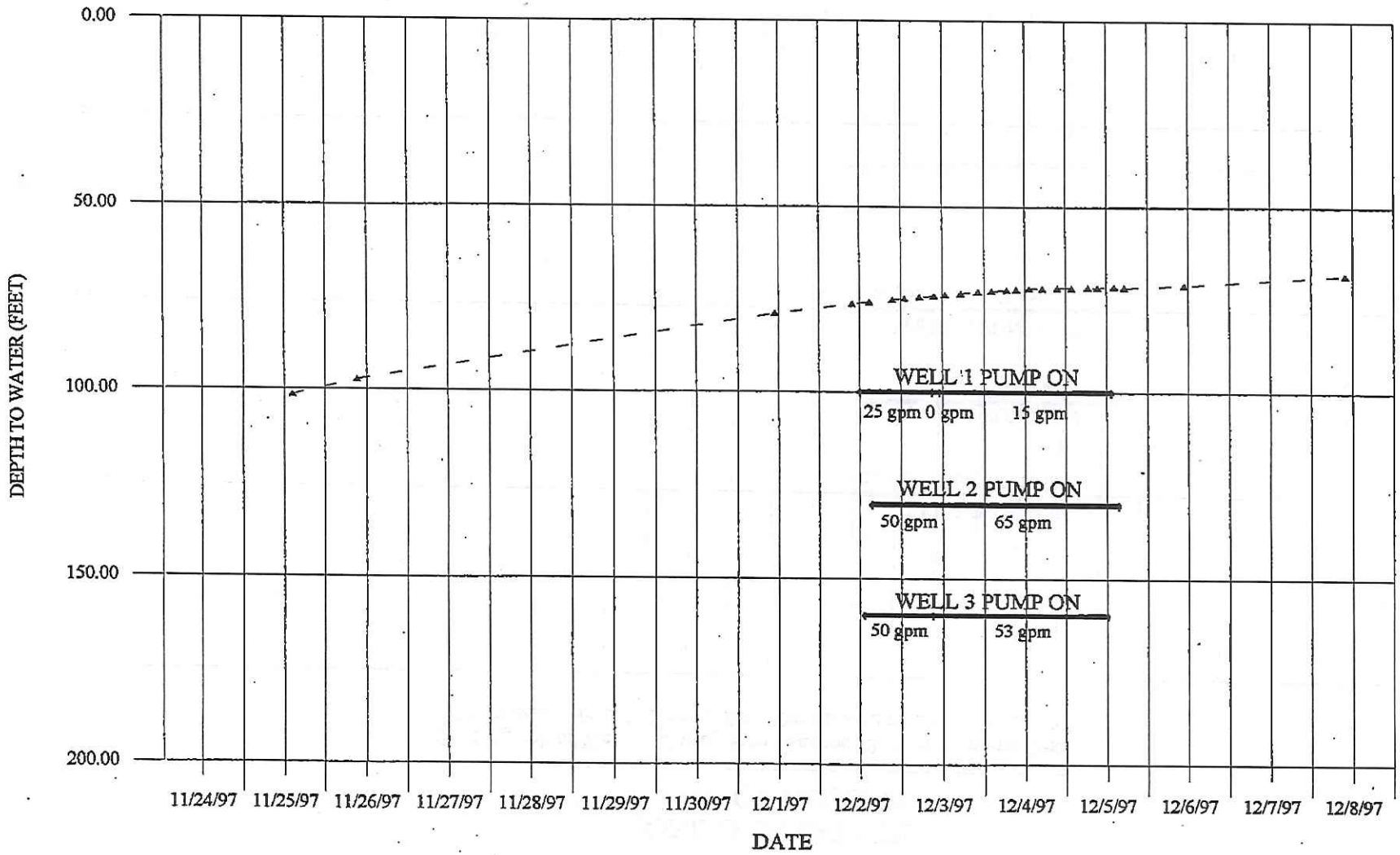
Hydrograph of Well 21 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



Leggette, Brashears & Graham, Inc.

LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Well 22 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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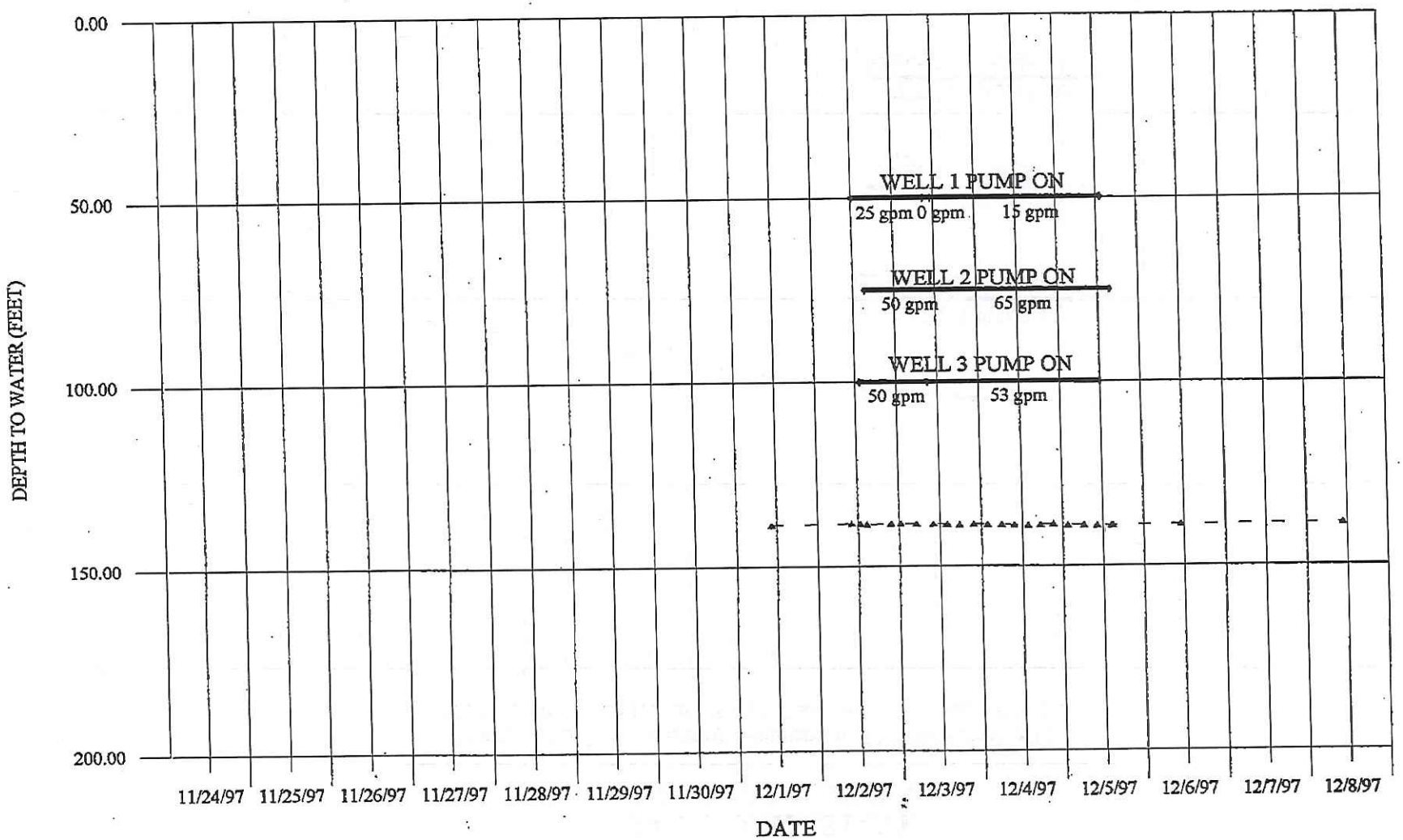
LONE OAK ESTATE
TOWN OF GOSHEN

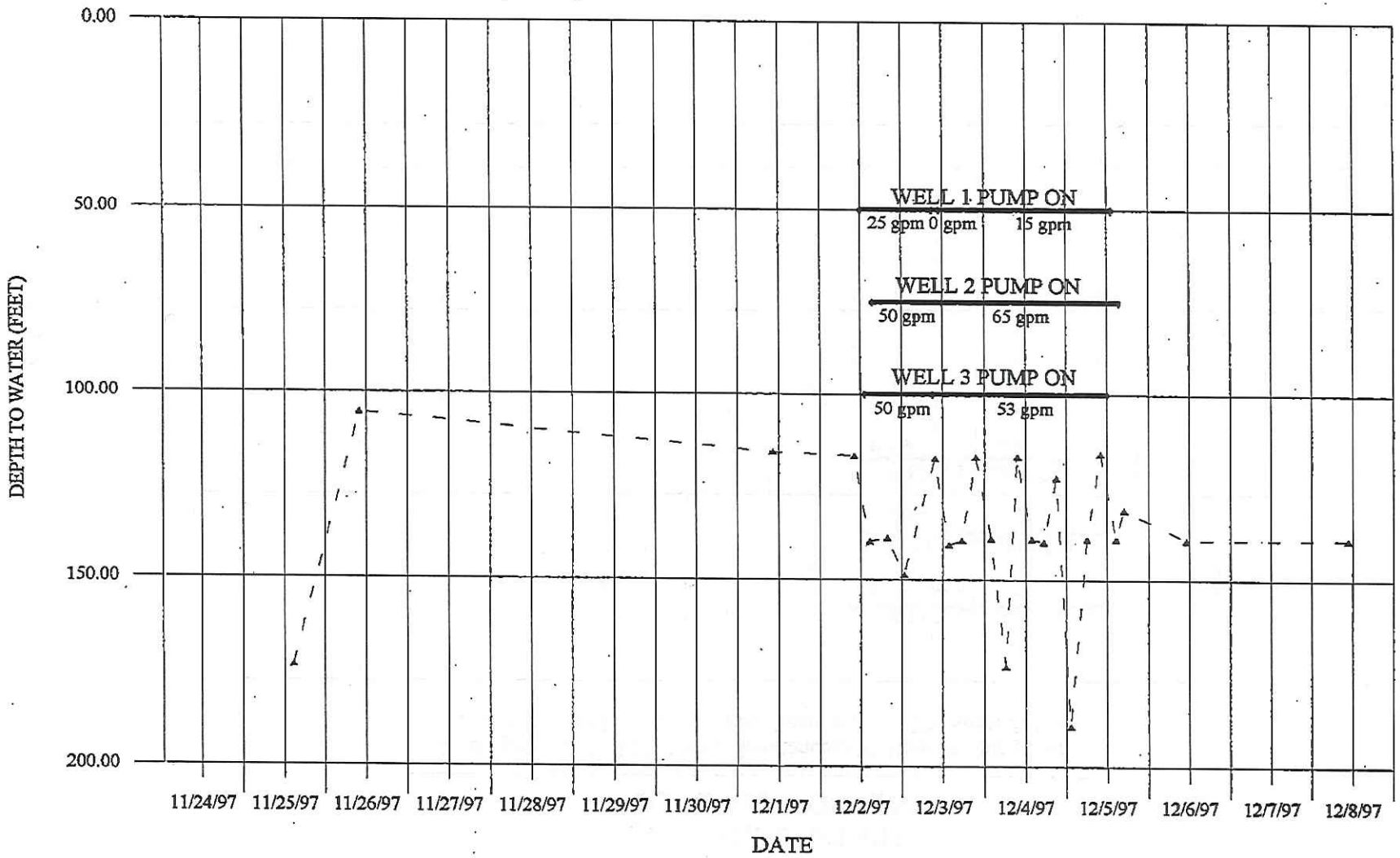
Hydrograph of Well 51 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



Leggette, Brashears & Graham, Inc.

LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Well 52 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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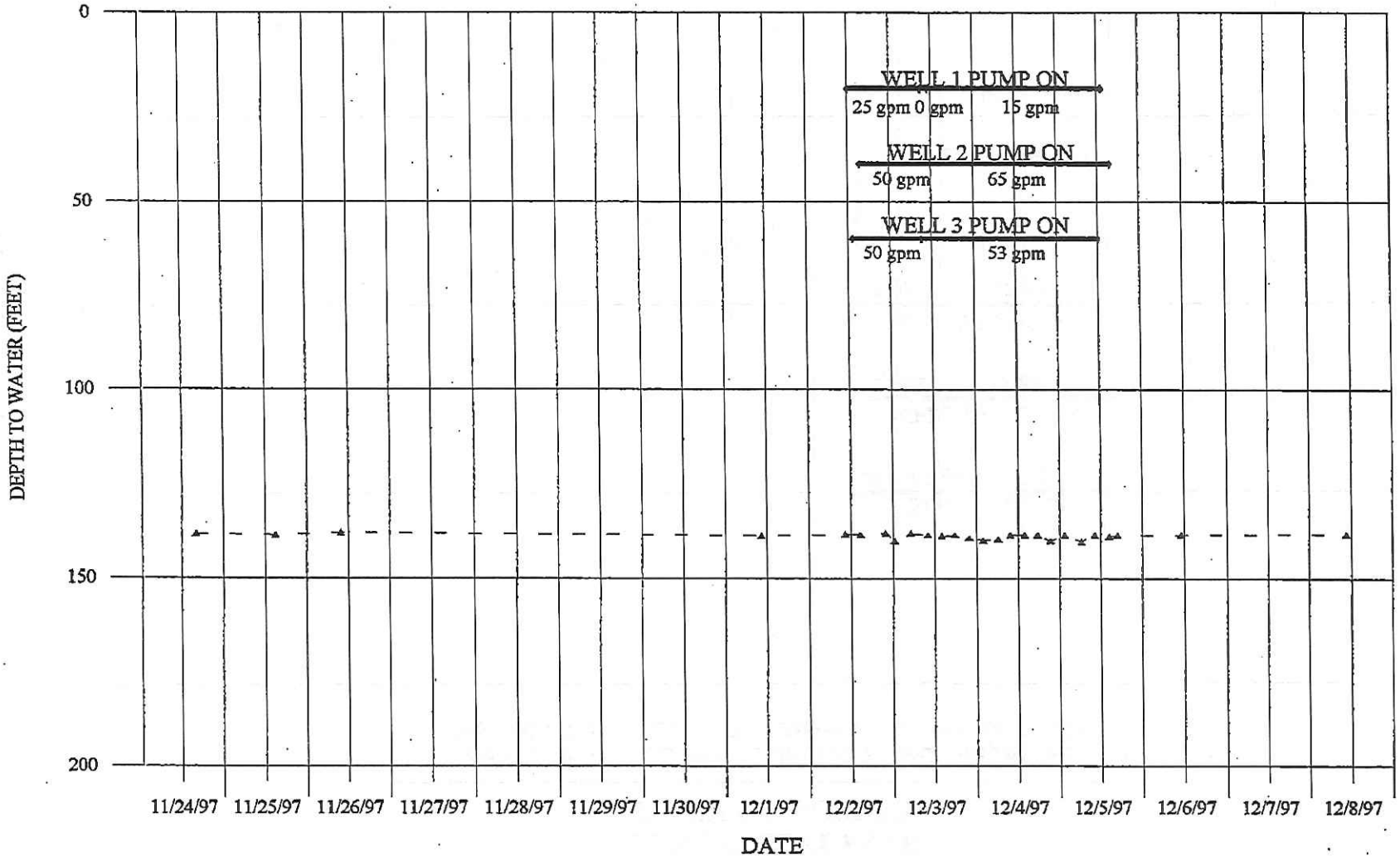
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Well 53 During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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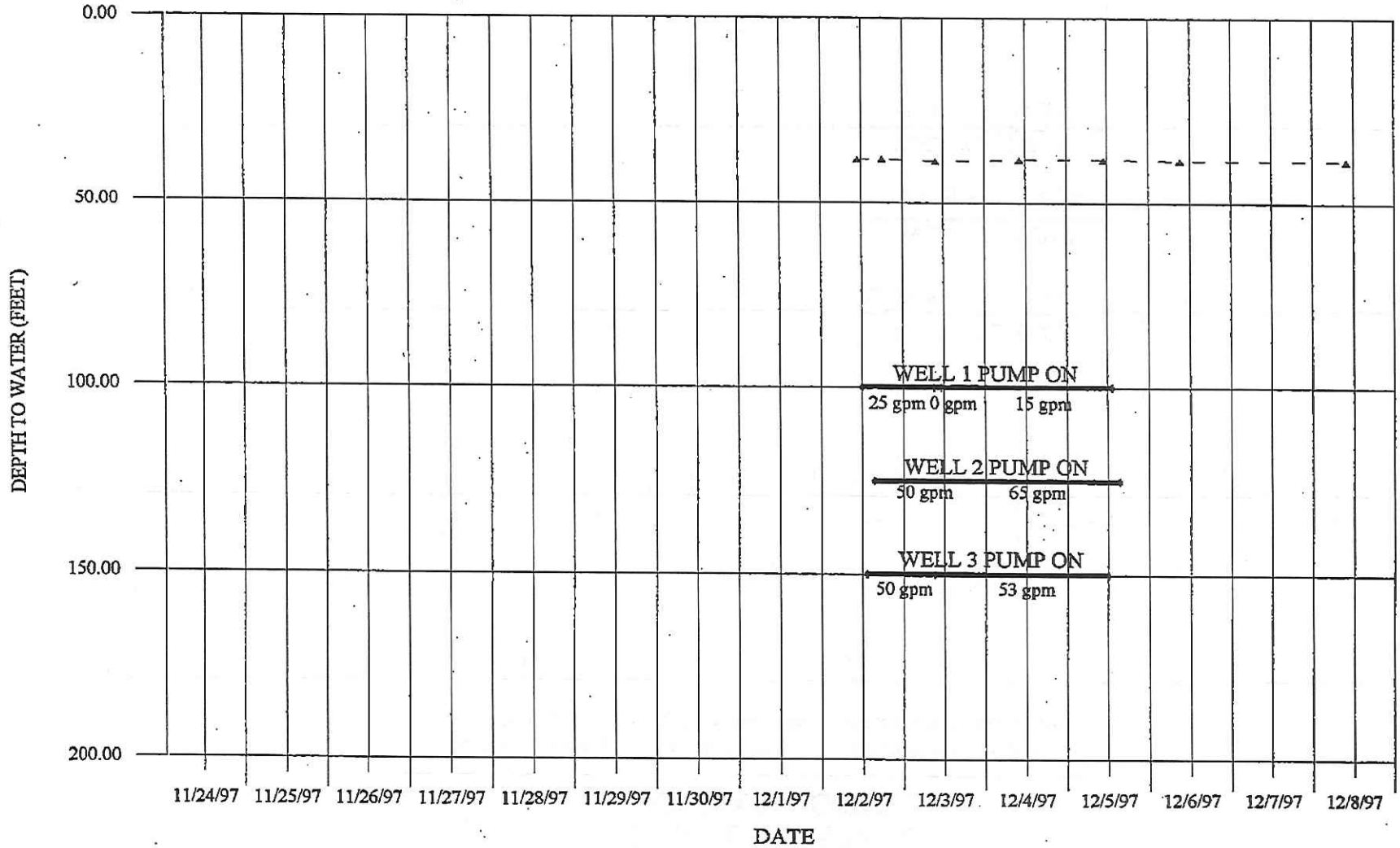
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Arden Hill Well During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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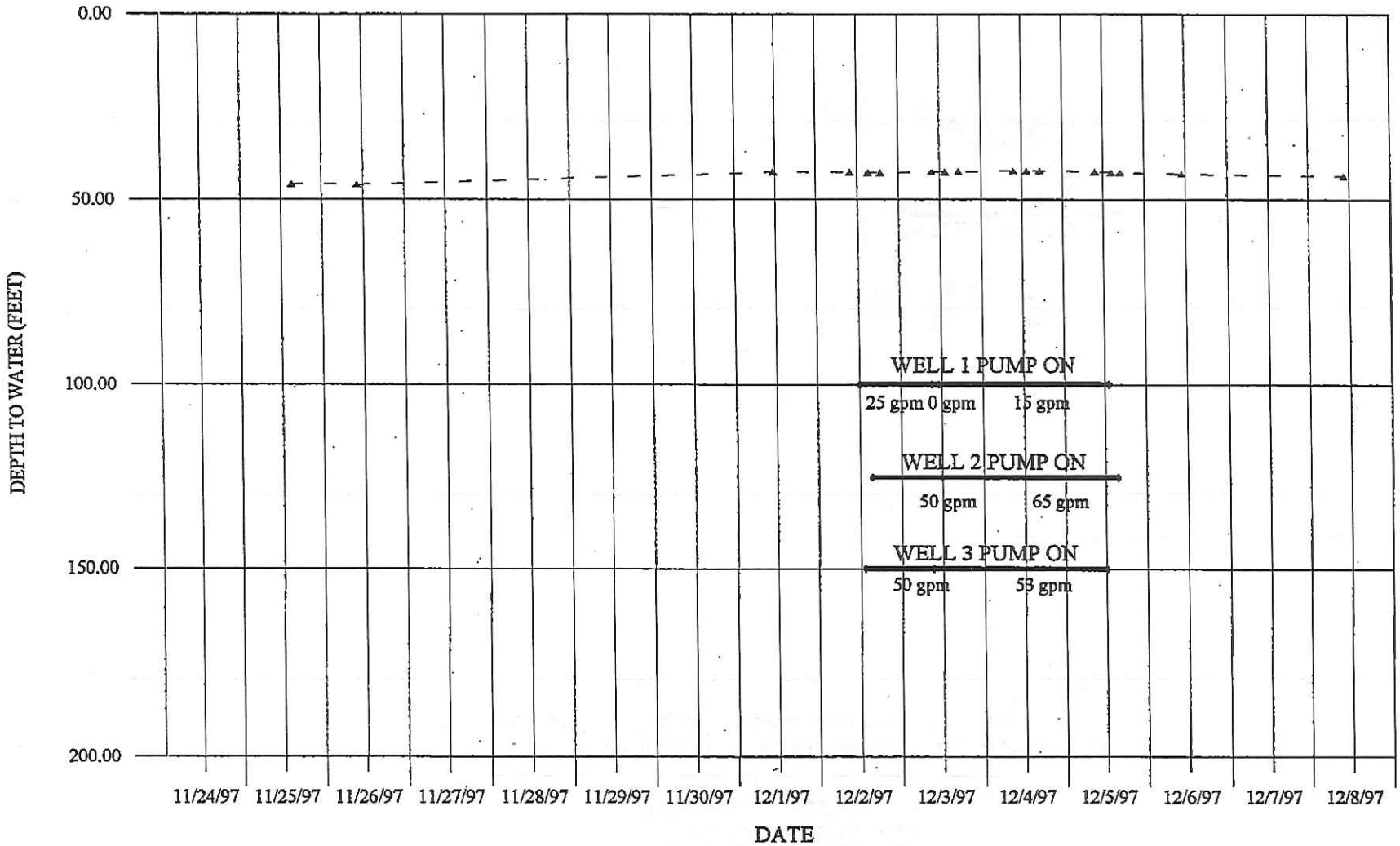
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Berger Well During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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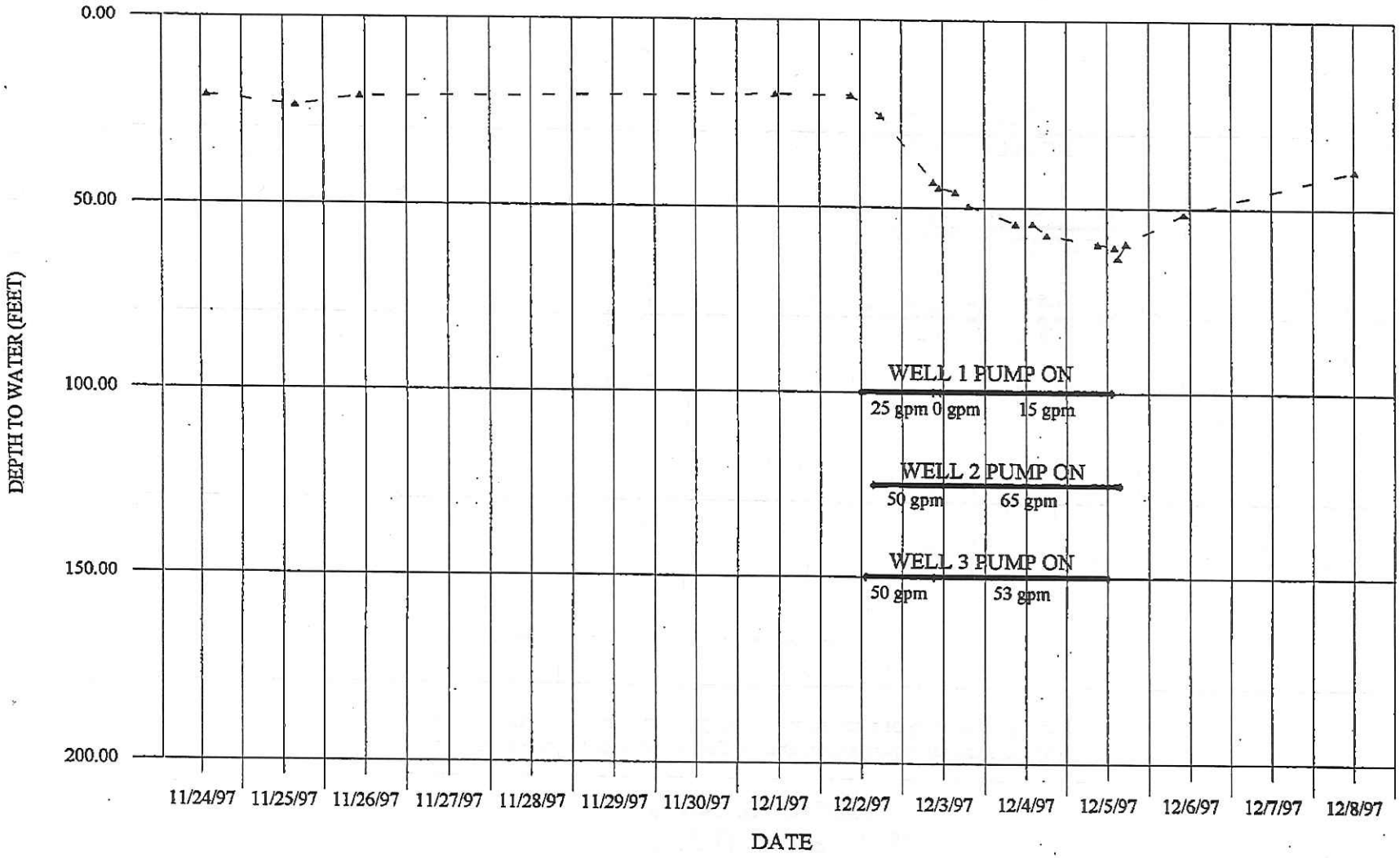
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Corey Well During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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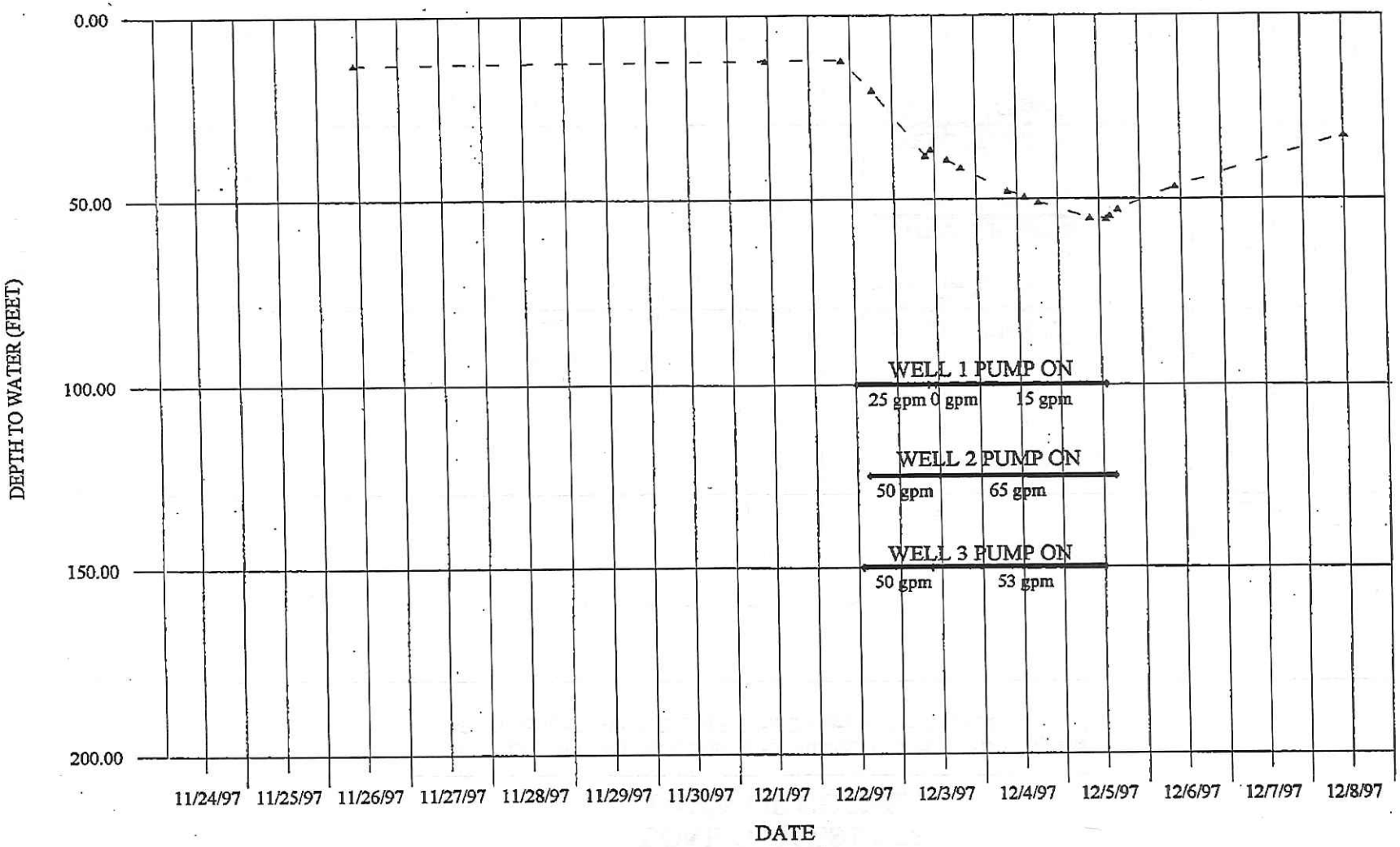
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Fasa Well During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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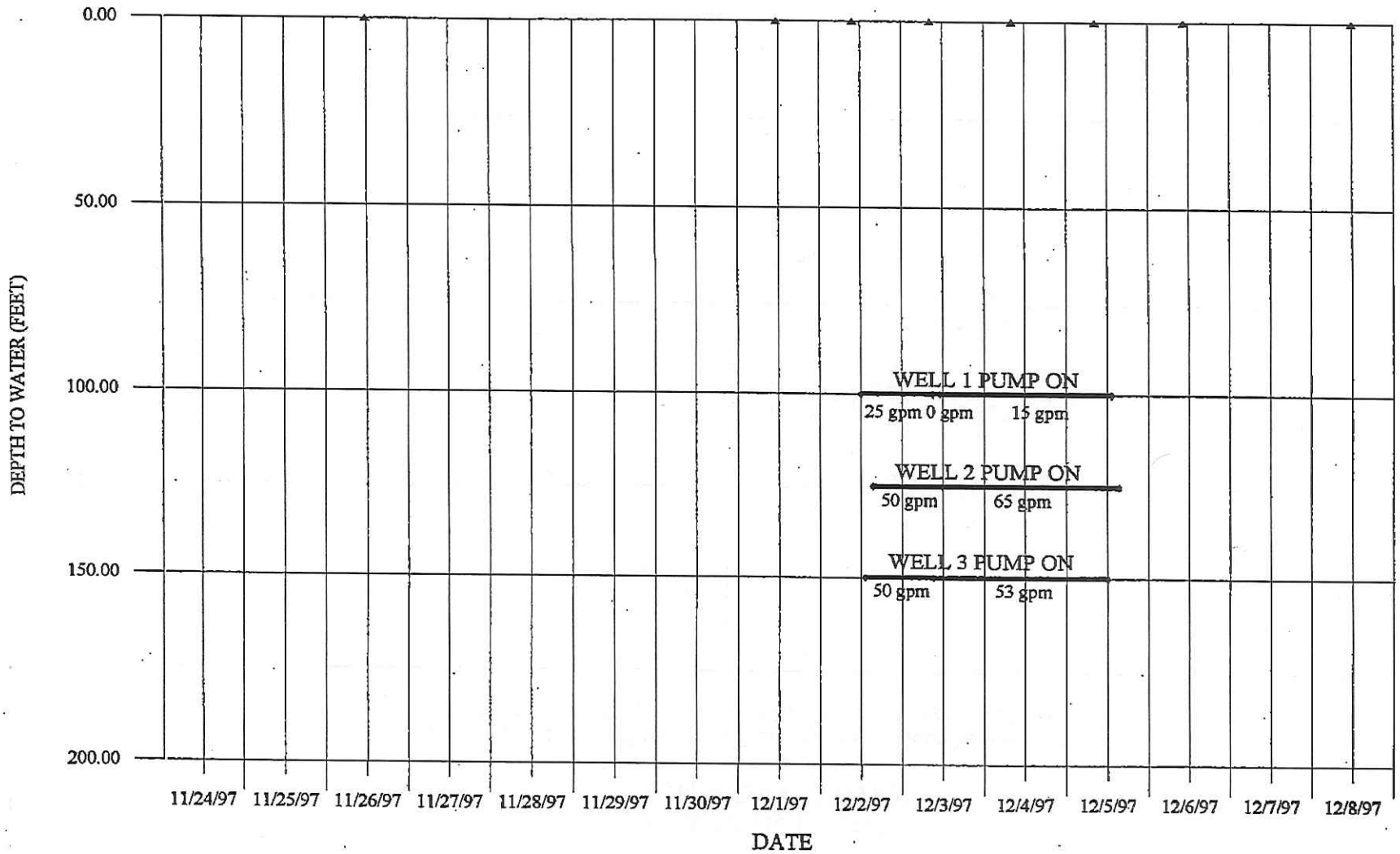
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Kolk Spring During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



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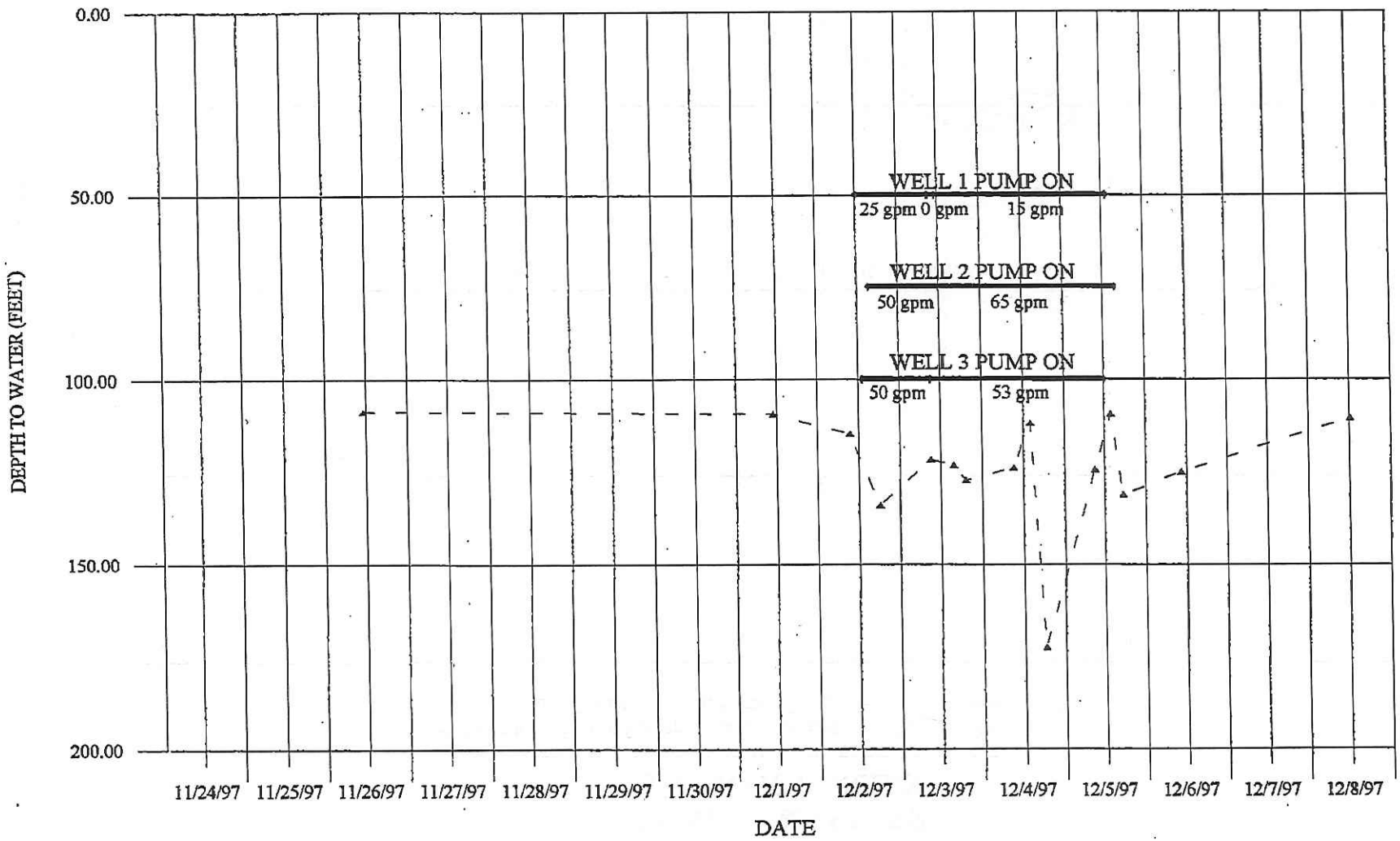
LONE OAK ESTATE
TOWN OF GOSHEN

Hydrograph of Kolk Well During Simultaneous 72-Hour Pumping Test
of Production Wells 1, 2, and 3 from December 2 to December 5, 1997



Leggette, Brashears & Graham, Inc.

LONE OAK ESTATE
TOWN OF GOSHEN
MW-1
Water-Level Readings During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:20	46.78	-60	Pretest
12/02/97	13:40	46.90	140	PW-1,3 On
12/03/97	09:45	49.6	1345	PW-1,2,3 On
12/03/97	15:20	51.75	1680	
12/03/97	20:38	54.22	1998	
12/04/97	01:51	54.08	2311	
12/04/97	09:30	57.2	2770	
12/04/97	15:40	57.58	3140	
12/04/97	21:19	58.88	3479	
12/05/97	01:32	59.74	3732	
12/05/97	09:19	60.68	4199	
12/05/97	17:05	62.45	4665	PW-1,2,3 Off
12/05/97	19:30	62.78	4810	
12/06/97	11:00	62.72	5740	
12/08/97	10:50	60.7	8610	

LONE OAK ESTATE
TOWN OF GOSHEN
MW-2
Water-Level Readings During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:25	13.35	-55	Pretest
12/02/97	13:45	13.32	145	PW-1,3 On
12/02/97	20:15	13.2	535	PW-1,2,3 On
12/03/97	01:57	13.28	877	
12/03/97	09:35	13.3	1335	
12/03/97	15:15	13.18	1675	
12/03/97	20:42	13.13	2002	
12/04/97	01:46	13.17	2306	
12/04/97	09:35	13.05	2775	
12/04/97	15:35	13.05	3135	
12/04/97	21:25	12.94	3485	
12/05/97	01:41	13.12	3741	
12/05/97	09:15	13.02	4195	
12/05/97	14:20	13.05	4500	PW-1,3 Off
12/05/97	17:00	13.28	4660	PW-1,2,3 Off
12/06/97	10:40	13.22	5720	
12/08/97	10:55	13.40	8615	

LONE OAK ESTATE
TOWN OF GOSHEN
MW-3
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:30	flowing	-50	Pretest
12/02/97	13:56	flowing	156	PW-1,3 On
12/02/97	20:00	flowing	520	PW-1,2,3 On
12/03/97	01:59	flowing	879	
12/03/97	09:50	flowing	1350	
12/03/97	15:05	flowing	1665	
12/03/97	20:52	flowing	2012	
12/04/97	02:01	flowing	2321	
12/04/97	09:15	flowing	2755	
12/04/97	15:30	flowing	3130	
12/04/97	21:33	flowing	3493	
12/05/97	01:47	flowing	3747	
12/05/97	09:54	flowing	4234	
12/05/97	14:24	flowing	4504	PW-1,3 Off
12/05/97	16:55	flowing	4655	PW-1,2,3 Off
12/06/97	10:34	flowing	5714	
12/08/97	10:15	flowing	8575	

LONE OAK ESTATE
TOWN OF GOSHEN
MW-4
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:55	14.85	-25	Pretest
12/02/97	20:10	14.70	530	PW-1,2,3 On
12/03/97	02:03	15.12	883	
12/03/97	09:33	16.25	1333	
12/03/97	15:10	17.42	1670	
12/03/97	20:48	18.67	2008	
12/04/97	01:57	20.06	2317	
12/04/97	09:15	21.6	2755	
12/04/97	15:32	22.6	3132	
12/04/97	21:31	23.67	3491	
12/05/97	01:44	24.30	3744	
12/05/97	08:56	25.33	4176	
12/05/97	14:26	25.90	4506	PW-1,3 Off
12/05/97	16:57	26.27	4657	PW-1,2,3 Off
12/06/97	10:36	26.7	5716	
12/08/97	10:20	23.5	8580	

LONE OAK ESTATE
TOWN OF GOSHEN
Well 8A
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/25/97	14:45	7	-9875	Pretest
11/26/97	09:50	6.67	-8730	Pretest
12/01/97	10:45	6.27	-1475	Pretest
12/02/97	09:10	43.24	-130	Pretest
12/02/97	12:20	42.95	60	PW-3 Pump On
12/03/97	00:11	82.15	771	PW-1,2,3 Pumps On
12/03/97	04:33	32.3	1033	
12/03/97	08:52	65	1292	
12/03/97	12:50	72.2	1530	
12/03/97	16:45	24.62	1765	
12/03/97	21:29	64.22	2049	
12/04/97	01:26	67.48	2286	
12/04/97	05:48	82.01	2548	
12/04/97	08:50	54.2	2730	
12/04/97	12:39	65.2	2959	
12/04/97	16:33	32.07	3193	
12/04/97	20:46	96.15	3446	
12/05/97	00:58	99.67	3698	
12/05/97	05:44	67.84	3984	
12/05/97	08:47	58.95	4167	
12/05/97	13:34	60.4	4454	PW-1,3 Pumps Off
12/05/97	16:22	41.35	4622	PW-1,2,3 Pumps Off
12/06/97	10:13	51.55	5693	
12/08/97	09:30	73.28	8530	

LONE OAK ESTATE
TOWN OF GOSHEN
Well 21
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/25/97	13:30	102.24	-9950	Pretest
11/26/97	08:02	98.35	-8838	Pretest
12/01/97	10:05	78.6	-1515	Pretest
12/02/97	09:00	75.8	-140	Pretest
12/02/97	14:08	75.2	168	PW-1,3 Pumps On
12/02/97	20:45	74.65	565	PW-1,2,3 Pumps On
12/03/97	00:19	74.20	779	
12/03/97	04:39	73.76	1039	
12/03/97	08:53	73.4	1293	
12/03/97	12:05	73.15	1485	
12/03/97	16:38	72.75	1758	
12/03/97	21:35	72.34	2055	
12/04/97	01:32	72.06	2292	
12/04/97	05:56	71.71	2556	
12/04/97	08:41	71.6	2721	
12/04/97	12:30	71.5	2950	
12/04/97	16:25	71.3	3185	
12/04/97	20:53	71.20	3453	
12/05/97	01:03	71.18	3703	
12/05/97	05:51	71.12	3991	
12/05/97	08:40	71.14	4160	
12/05/97	13:28	71.1	4448	PW-1,3 Pumps Off
12/05/97	18:28	71.15	4748	PW-1,2,3 Pumps Off
12/06/97	10:00	71.7	5680	
12/08/97	09:05	67.77	8505	

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LONE OAK ESTATE
TOWN OF GOSHEN
Well 22
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/25/97	13:45	101.42	-9935	Pretest
11/26/97	08:35	97.32	-8805	Pretest
12/01/97	10:15	78.9	-1505	Pretest
12/02/97	09:02	76.32	-138	Pretest
12/02/97	14:10	75.75	170	PW-1,3 Pumps On
12/02/97	20:50	75.10	570	PW-1,2,3 Pumps On
12/03/97	00:21	74.75	781	
12/03/97	04:42	74.34	1042	
12/03/97	08:55	74.05	1295	
12/03/97	12:07	73.62	1487	
12/03/97	16:40	73.35	1760	
12/03/97	21:37	72.87	2057	
12/04/97	01:36	72.65	2296	
12/04/97	05:59	72.39	2559	
12/04/97	08:45	72.2	2725	
12/04/97	12:34	72.0	2954	
12/04/97	16:27	71.9	3187	
12/04/97	20:55	71.75	3455	
12/05/97	01:06	71.80	3706	
12/05/97	05:53	71.70	3993	
12/05/97	08:42	71.65	4162	
12/05/97	13:30	71.47	4450	PW-1,3 Pumps Off
12/05/97	16:30	71.67	4630	PW-1,2,3 Pumps Off
12/06/97	10:05	71.05	5685	
12/08/97	09:15	68.23	8515	

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LONE OAK ESTATE
TOWN OF GOSHEN
Well 51
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/01/97	09:50	138.75	-1530	Pretest
12/02/97	09:25	138.40	-115	Pretest
12/02/97	11:15	138.3	-5	Pretest
12/02/97	11:52	138.3	32	PW-3 Pump On
12/02/97	13:52	138.65	152	PW-1,3 Pumps On
12/02/97	21:00	138.4	580	PW-1,2,3 Pumps On
12/02/97	23:48	138.36	748	
12/03/97	04:20	138.49	1020	
12/03/97	09:15	138.55	1315	
12/03/97	13:17	138.6	1557	
12/03/97	17:00	138.7	1780	
12/03/97	21:04	138.60	2024	
12/04/97	01:07	138.72	2267	
12/04/97	05:26	138.77	2526	
12/04/97	09:00	138.95	2740	
12/04/97	13:05	139.0	2985	
12/04/97	16:45	138.85	3205	
12/04/97	20:31	138.78	3431	
12/05/97	00:50	138.98	3690	
12/05/97	05:33	138.99	3973	
12/05/97	09:27	139.15	4207	
12/05/97	13:48	139.1	4468	PW-1,3 Pumps Off
12/05/97	14:10	139.00	4490	
12/06/97	10:25	138.8	5705	PW-1,2,3 Pumps Off
12/08/97	10:05	138.54	8565	

LONE OAK ESTATE
TOWN OF GOSHEN
Well 52
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/25/97	14:00	173.35	-9920	Pretest
11/26/97	09:15	105.53	-8765	Pretest
12/01/97	09:35	115.62	-1545	Pretest
12/02/97	09:20	116.65	-120	Pretest
12/02/97	14:00	139.5	160	PW-1,3 Pumps On
12/02/97	19:05	138.58	465	PW-1,2,3 Pumps On
12/03/97	00:02	148.65	762	
12/03/97	09:05	117.25	1305	
12/03/97	13:15	140.4	1555	
12/03/97	16:55	139.3	1775	
12/03/97	20:57	116.86	2017	
12/04/97	01:19	138.70	2279	
12/04/97	05:37	173.24	2537	
12/04/97	08:57	116.72	2737	
12/04/97	13:15	139.0	2995	
12/04/97	16:42	139.75	3202	
12/04/97	20:25	122.48	3425	
12/05/97	00:36	189.02	3676	
12/05/97	05:26	138.90	3966	
12/05/97	09:23	115.90	4203	
12/05/97	13:52	138.9	4472	PW-1,3 Pumps Off
12/05/97	16:15	131.00	4615	PW-1,2,3 Pumps Off
12/06/97	10:32	139.10	5712	
12/08/97	10:10	138.95	8570	

LONE OAK ESTATE
TOWN OF GOSHEN
Well 53
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/24/97	15:20	138.24	-11280	Pretest
11/25/97	14:15	138.5	-9905	Pretest
11/26/97	09:05	137.9	-8775	Pretest
12/01/97	09:45	138.6	-1535	Pretest
12/02/97	09:30	138.25	-110	Pretest
12/02/97	13:57	138.28	157	PW-1,3 Pumps On
12/02/97	21:15	137.9	595	PW-1,2,3 Pumps On
12/02/97	23:52	140.09	752	
12/03/97	04:25	137.96	1025	
12/03/97	09:20	138.4	1320	
12/03/97	13:20	138.65	1560	
12/03/97	17:05	138.4	1785	
12/03/97	21:10	139.22	2030	
12/04/97	01:12	139.90	2272	
12/04/97	05:30	139.49	2530	
12/04/97	09:05	138.3	2745	
12/04/97	13:10	138.28	2990	
12/04/97	16:50	138.38	3210	
12/04/97	20:37	140.01	3437	
12/05/97	00:46	138.28	3686	
12/05/97	05:37	140.23	3977	
12/05/97	09:29	138.28	4209	
12/05/97	13:45	138.7	4465	PW-1,3 Pumps Off
12/05/97	16:05	138.41	4605	PW-1,2,3 Pumps Off
12/06/97	10:23	138.32	5703	
12/08/97	09:55	138.05	8555	

LONE OAK ESTATE
TOWN OF GOSHEN
Berger Well
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/25/97	14:30	45.75	-9890	Pretest
11/26/97	09:35	46.0	-8745	Pretest
12/01/97	10:50	42.5	-1470	Pretest
12/02/97	09:15	42.55	-125	Pretest
12/02/97	14:25	42.7	185	PW-1,3 Pumps On
12/02/97	18:00	42.7	400	PW-1,2,3 Pumps On
12/03/97	09:00	42.4	1300	
12/03/97	12:55	42.43	1535	
12/03/97	16:50	42.35	1770	
12/04/97	08:53	42.25	2733	
12/04/97	12:44	42.22	2964	
12/04/97	16:37	42.23	3197	
12/05/97	08:50	42.45	4170	
12/05/97	13:38	42.55	4458	PW-1,3 Pumps Off
12/05/97	16:18	42.68	4618	PW-1,2,3 Pumps Off
12/06/97	10:17	43.05	5697	
12/08/97	09:45	43.58	8545	

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LONE OAK ESTATE
TOWN OF GOSHEN
Corey Well
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/24/97	13:00	20.9	-11420	Prtest
11/25/97	14:55	23.6	-9865	Prtest
11/26/97	09:55	20.9	-8725	Prtest
12/01/97	10:30	19.7	-1490	Prtest
12/02/97	08:35	19.96	-165	Prtest
12/02/97	17:15	25.35	355	PW-1,2,3 Pumps On
12/03/97	08:35	43.3	1275	
12/03/97	10:10	44.85	1370	
12/03/97	14:58	45.9	1658	
12/03/97	18:45	49.5	1885	
12/04/97	08:30	54.3	2710	
12/04/97	13:25	54.2	3005	
12/04/97	17:35	57.45	3255	
12/05/97	08:28	59.8	4148	
12/05/97	13;17	60.6	4437	PW-1,3 Pumps Off
12/05/97	14:15	63.4	4495	
12/05/97	16:42	59.65	4642	PW-1,2,3 Pumps Off
12/06/97	09:38	51.38	5658	
12/08/97	11:40	39.89	8660	

LONE OAK ESTATE
TOWN OF GOSHEN
Fasa Well
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/26/97	10:16	13.2	-8704	Pretest
12/01/97	10:35	12.3	-1485	Pretest
12/02/97	08:40	12.35	-160	Pretest
12/02/97	17:20	20.7	360	PW-1,2,3 Pumps On
12/03/97	08:38	38.2	1278	
12/03/97	10:13	36.6	1373	
12/03/97	15:00	39.25	1660	
12/03/97	18:50	41.5	1890	
12/04/97	08:35	47.87	2715	
12/04/97	13:30	49.43	3010	
12/04/97	17:40	50.9	3260	
12/05/97	08:30	55.2	4150	
12/05/97	13:20	55.4	4440	PW-1,3 Pumps Off
12/05/97	14:18	54.55	4498	
12/05/97	16:48	52.84	4648	PW-1,2,3 Pumps Off
12/06/97	09:42	46.65	5662	
12/08/97	11:35	33.00	8655	

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LONE OAK ESTATE
TOWN OF GOSHEN
Kolk Well
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/26/97	10:30	108.4	-8690	Pretest
12/01/97	10:25	109.15	-1495	Pretest
12/02/97	08:45	114.65	-155	Pretest
12/02/97	17:30	134	370	PW-1,2,3 Pumps On
12/03/97	08:30	121.65	1270	
12/03/97	15:05	123.3	1665	
12/03/97	18:40	127.3	1880	
12/04/97	08:25	124	2705	
12/04/97	13:20	111.75	3000	
12/04/97	17:30	172.68	3250	
12/05/97	08:25	124.45	4145	
12/05/97	13:13	109.15	4433	PW-1,3 Pumps Off
12/05/97	16:40	131.15	4640	PW-1,2,3 Pumps Off
12/06/97	09:45	125.1	5665	
12/08/97	11:30	110.23	8650	

LONE OAK ESTATE
TOWN OF GOSHEN
Kolk spring
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
11/26/97	11:00	0.0	-8660	Pretest
12/01/97	10:45	0	-1475	Pretest
12/02/97	09:00	0	-140	Pretest
12/03/97	07:45	0	1225	PW-1,2,3 Pumps On
12/04/97	07:40	0	2660	
12/05/97	07:40	0	4100	
12/06/97	09:55	0	5675	PW-1,2,3 Pumps Off
12/08/97	11:15	0.00	8635	

LONE OAK ESTATE
TOWN OF GOSHEN
Arden Hill Well
Water-Level Reading During
December 2 - 5, 1997
Pumping Test on Wells 1, 2, and 3

Date	Time (military)	Depth to water (feet)	Elapsed Time (minutes)	Remarks
12/02/97	10:05	38.15	-75	Pretest
12/02/97	17:20	38.05	360	PW-1,2,3 Pumps On
12/03/97	09:05	38.57	1305	
12/04/97	09:40	38.20	2780	
12/05/97	10:20	38.13	4260	
12/06/97	08:30	38.39	5590	PW-1,2,3 Pumps Off
12/08/97	09:20	38.42	8520	

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APPENDIX VI

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

(914) 733-1557 Fax: (914)733-1944

ELAP#10510
PADEP#68-545

OCL
Analytical Services
formerly Orange County Laboratory

Monday, December 29, 1997
Page Number : 1

Fasa Construction Corp.
33 Fini Drive
Middletown NY 10940

RECEIVED
JAN 07 1998
Leggette, Brashears, & Graham, Inc.

Client Code : 8FASACC

OCL Sample No : **56615**

System Name : **Fasa Construction Corp.**
Exact Location : **Well 1 - Goshen**
Submit By : **T Cusack**
Type Descr : SID : **000** Fed ID :

Date Collected : **12/5/97**
Time Collected : **10:30**
Date Received : **12/5/97**

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Total Coliform		absence				9223B	10510	12/5/97	HH
Chloride		1.0	mg/L	250	MCL	4500CLB	10510	12/11/97	JJ
Color	LT	5.0				2120	10510	12/5/97	JJ
Alkalinity		199	mg/L			2320	10510	12/8/97	PC
Calcium Hardness		98	mg/L			3500CaD	10510	12/5/97	JB
pH		7.76				4500H	10510	12/5/97	JJ
Corrosivity		0.053				2330	10510	12/9/97	PC
Fluoride		0.16	mg/L	2.2	MCL	340.2	10510	12/8/97	JJ
Nitrate		0.27	mg/L	10	MCL	Lachat	11216	12/10/97	IC
Odor		18				2150	10510	12/5/97	PC
TDS		248	mg/L			2540C	10510	12/8/97	PC
Sulfate		28	mg/L	250	MCL	375.4	10510	12/8/97	PC
Turbidity		0.18	ntu			2130	10510	12/5/97	JJ
Sulfide		0.39	mg/L			4500SE	10510	12/8/97	JJ
Cyanide-Total	ND	<0.010	mg/L	0.010	DL	EPA 335.4	11216	12/16/97	JP
Lead, total	ND	<0.001	mg/L	0.015	MCL	EPA 200.9	11216	12/19/97	BRJ
Silver, total	ND	<0.010	mg/L	0.05	MCL	EPA 200.7	11216	12/16/97	BRJ
Copper, total	ND	<0.005	mg/L	1.0	MCL	EPA 200.7	11216	12/16/97	BRJ
Iron, total	ND	<0.005	mg/L	0.3	MCL	EPA 200.7	11216	12/16/97	BRJ
Sodium, total		48.7	mg/L			EPA 200.7	11216	12/16/97	BRJ
Zinc, total	ND	<0.010	mg/L	5.0	MCL	EPA 200.7	11216	12/16/97	BRJ
Manganese, total		0.071	mg/L	0.3	MCL	EPA 200.7	11216	12/16/97	BRJ
Benzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromochloromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromomethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
n-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
sec-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
tert-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Carbon Tetrachloride	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Chlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR

David M. Kennedy - Director

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

ELAP#10510
PADEP#68-545

OCL
Analytical Services
formerly Orange County Laboratory

(914) 733-1557 Fax: (914)733-1944

Monday, December 29, 1997
Page Number : 2

OCL 56615

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Chloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Chloromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
2-Chlorotoluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
4-Chlorotoluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Dibromomethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,4-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Dichlorodifluoromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
cis-1,2-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
trans-1,2-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
2,2-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
cis-1,3-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
trans-1,3-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Ethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Hexachlorobutadiene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Isopropylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
p-Isopropyltoluene (p-cymene)	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Methylene Chloride	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
n-Propylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Styrene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,1,2-Tetrachloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,2,2-Tetrachloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Tetrachloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Toluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,3-Trichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,4-Trichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,1-Trichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,2-Trichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Trichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Trichlorofluoromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,3-Trichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,4-Trimethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3,5-Trimethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
p/m-Xylene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
o-Xylene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Vinyl Chloride	ND	<0.5	ug/L	2.0	MCL	EPA 502.2	11216	12/15/97	SR
Aldicarb	ND	<0.0003	mg/L	0.003	MCL	EPA 531.1	11216	12/11/97	IC
Aldicarb Sulfone	ND	<0.0003	mg/L	0.002	MCL	EPA 531.1	11216	12/11/97	IC
Aldicarb Sulfoxide	ND	<0.0004	mg/L	0.004	MCL	EPA 531.1	11216	12/11/97	IC
Carbofuran	ND	<0.0009	mg/L	0.04	MCL	EPA 531.1	11216	12/11/97	IC
Oxamyl (vydate)	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Methomyl	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
3-Hydroxycarbofuran	ND	<0.001	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Carbaryl	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Diquat	ND	<0.0002	mg/L	0.02	MCL	EPA 549	11216	12/18/97	IC

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

David M. Kennedy - Director

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

ELAP#10510
PADEP#68-545

OCL
Analytical Services
formerly Orange County Laboratory

(914) 733-1557 Fax: (914)733-1944

Monday, December 29, 1997

OCL 56615

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Glyphosate	ND	<0.008	mg/L	0.05	MCL	EPA 547	11216	12/15/97	IC
Endothall	ND	<5	ug/L	100.0	MCL	EPA 548	11216	12/12/97	RJ
Ethylene dibromide (1,2-Dibromo	ND	<0.01	ug/L	0.05	MCL	EPA 504.1	11216	12/17/97	RJ
1,2-Dibromo-3-chloropropane (D	ND	<0.01	ug/L	0.20	MCL	EPA 504.1	11216	12/17/97	RJ
Toxaphene	ND	<0.80	ug/L	3.00	MCL	EPA 508	11216	12/18/97	RJ
PCB 1016	ND	<0.20	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1221	ND	<0.15	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1232	ND	<0.20	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1242	ND	<0.25	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1248	ND	<0.25	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1254	ND	<0.25	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1260	ND	<0.35	ug/L			EPA 508	11216	12/18/97	RJ
2,4-D	ND	<1.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dalapon	ND	<10.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dicamba	ND	<1.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dinoseb	ND	<0.5	ug/L	7.0	MCL	EPA 515.1	10252	12/15/97	KK
Pentachlorophenol	ND	<0.1	ug/L	1.0	MCL	EPA 515.1	10252	12/15/97	KK
Pichloram	ND	<0.1	ug/L	1.0	MCL	EPA 515.1	10252	12/15/97	KK
2,4,5-TP (Silvex)	ND	<1.0	ug/L	10.0	MCL	EPA 515.1	10252	12/15/97	KK
Alachlor	ND	<0.20	ug/L	50.0	MCL	EPA 525.2	11216	12/16/97	RJ
Atrazine	ND	<0.20	ug/L	3.0	MCL	EPA 525.2	11216	12/16/97	RJ
Simazine	ND	<0.14	ug/L	4.0	MCL	EPA 525.2	11216	12/16/97	RJ
Benzo(a)pyrene	ND	<0.05	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Di(2-ethylhexyl) adipate	ND	<0.50	ug/L	50.0	MCL	EPA 525.2	11216	12/16/97	RJ
Di(2-ethylhexyl) phthalate	ND	<0.50	ug/L	6.0	MCL	EPA 525.2	11216	12/16/97	RJ
Hexachlorobenzene	ND	<0.10	ug/L	1.0	MCL	EPA 525.2	11216	12/16/97	RJ
Hexachlorocyclopentadiene	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Aldrin	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Chlordane (Total)	ND	<0.025	ug/L	2.0	MCL	EPA 525.2	11216	12/18/97	RJ
Heptachlor	ND	<0.10	ug/L	0.4	MCL	EPA 525.2	11216	12/16/97	RJ
Methoxychlor	ND	<0.10	ug/L	10.0	MCL	EPA 525.2	11216	12/16/97	RJ
Lindane	ND	<0.10	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Heptachlor Epoxide	ND	<0.10	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Butachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Endrin	ND	<0.10	ug/L	20	MCL	EPA 525.2	11216	12/16/97	RJ
Metolachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Metribuzin	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Propachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Dieldrin	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Arsenic, Total	ND	<0.002	mg/L	0.05	MCL	SM16-307A	11216	12/16/97	CEH
Barium, Total		0.0829	mg/L	2.00	MCL	EPA 200.7	11216	12/12/97	BRJ
Cadmium, Total	ND	<0.0010	mg/L	0.005	MCL	EPA 200.9	11216	12/12/97	BRJ
Chromium, Total	ND	<0.0040	mg/L	0.10	MCL	EPA 200.7	11216	12/12/97	BRJ
Mercury, Total	ND	<0.0002	mg/L	0.002	MCL	EPA 245.2	11216	12/22/97	CEH
Selenium, Total	ND	<0.002	mg/L	0.01	MCL	SM16-303E	11216	12/18/97	CEH
Antimony, Total	ND	<0.003	mg/L	0.006	MCL	EPA 200.9	11216	12/17/97	BRJ
Beryllium, Total	ND	<0.0010	mg/L	0.004	MCL	EPA 200.7	11216	12/17/97	BRJ
Nickel, Total		<0.0170	mg/L	0.1	MCL	EPA 200.7	11216	12/12/97	BRJ
Thallium, Total	ND	<0.001	mg/L	0.002	MCL	EPA 200.9	11216	12/18/97	BRJ

David M. Kennedy - Director

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501
FAX: (303) 278-1528

DATE	December 10, 1997
HRI PROJECT	009-456
HRI SERIES NO.	L138/97
DATE REC'D	12/8/97
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. L138/97-1

SAMPLE IDENTIFICATION: 56615 - Well 1 Goshen sampled on 12/05/97 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	160(+-50)	50	EPA 913.0	12/8/97 @ 1530	LDO

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96 sigma.
Certification Authority Lab ID's:
CO/U.S. EPA Region VIII - XM; CT - PH-0152; KY - 90076; KS - E-10265; NH - 232897-A; NY ELAP - 11417

CODES:
(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved
< = Less Than

By: _____
Robert Rostad
Laboratory Manager

Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501
FAX: (303) 278-1528

DATE	December 29, 1997
HRI PROJECT	009-456
HRI SERIES NO.	L212/97
DATE REC'D	12/11/97
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. L212/97-1

SAMPLE IDENTIFICATION: 56615 - Well 1 Goshen sampled on 12/05/97 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	0.3(+-2.1)	2.0	EPA 900.0	12/17/97 @ 0715	RPO
Gross Beta (+-Precision*), pCi/l (T)	0.0(+-3.1)	3.3	EPA 900.0	12/17/97 @ 0715	RPO
Radium-226 (+-Precision*), pCi/l (T)	0.5(+-0.4)	0.2	SM 705 (Modified)	12/17/97 @ 1010	RPO
Radium-228 (+-Precision*), pCi/l (T)	0.0(+-1.4)	1.4	EPA Ra-05	12/16/97 @ 0945	LDO

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96 sigma.
Certification Authority Lab ID's:
CO/U.S. EPA Region VIII - XM; CT - PH-0152; KY - 90076; KS - E-10265; NH - 232897-A; NY ELAP - 11417

By: Robert Rostad
Laboratory Manager

CODES:
(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved
< = Less Than

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

ELAP#10510
PADEP#68-545

OCL
Analytical Services
formerly Orange County Laboratory

(914) 733-1557 Fax: (914)733-1944

Monday, December 29, 1997
Page Number : 1

Fasa Construction Corp.
33 Fini Drive
Middletown NY 10940

Client Code : **8FASACC**

OCL Sample No : **56616**

System Name : **Fasa Construction Corp.**
Exact Location : **Well 2 - Goshen**
Submit By : **T Cusack**
Type Descr : SID : **000** Fed ID :

Date Collected : **12/5/97**
Time Collected : **10:30**
Date Received : **12/5/97**

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Total Coliform		presence				9223B	10510	12/5/97	HH
E.coli		absence				9223B	10510	12/5/97	HH
Alkalinity		202	mg/L			2320B	10510	12/8/97	PC
Chloride		4.0	mg/L	250	MCL	4500CLB	10510	12/11/97	JJ
Color	LT	5.0				2120	10510	12/5/97	PC
Corrosivity		0.132				2330	10510	12/9/97	PC
Fluoride		0.11	mg/L	2.2	MCL	340.2	10510	12/8/97	JJ
Calcium Hardness		165	mg/L			3500CaD	10510	12/5/97	JB
Nitrate		0.29	mg/L	10	MCL	Lachat	11216	12/10/97	IC
Odor		2				2150	10510	12/5/97	PC
pH		7.62				4500H	10510	12/5/97	JJ
TDS		291	mg/L			2540C	10510	12/8/97	PC
Sulfate		43	mg/L	250	MCL	375.4	10510	12/8/97	PC
Turbidity		0.82	ntu			2130	10510	12/5/97	JJ
Sulfide		0.38	mg/L			4500SE	10510	12/8/97	JJ
Cyanide-Total	ND	<0.010	mg/L	0.010	DL	EPA 335.4	11216	12/16/97	JP
Lead, total	ND	<0.001	mg/L	0.015	MCL	EPA 200.9	11216	12/19/97	BRJ
Silver, total	ND	<0.010	mg/L	0.05	MCL	EPA 200.7	11216	12/16/97	BRJ
Copper, total	ND	<0.005	mg/L	1.0	MCL	EPA 200.7	11216	12/16/97	BRJ
Iron, total		0.089	mg/L	0.3	MCL	EPA 200.7	11216	12/16/97	BRJ
Sodium, total		22.7	mg/L			EPA 200.7	11216	12/16/97	BRJ
Zinc, total		0.011	mg/L	5.0	MCL	EPA 200.7	11216	12/16/97	BRJ
Manganese, total		0.264	mg/L	0.3	MCL	EPA 200.7	11216	12/16/97	BRJ
Benzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromochloromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromomethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
n-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
sec-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
tert-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Carbon Tetrachloride	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

David M. Kennedy - Director

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

ELAP#10510
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Monday, December 29, 1997

OCL 56616

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Chlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Chloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Chloromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
2-Chlorotoluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
4-Chlorotoluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Dibromomethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,4-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Dichlorodifluoromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
cis-1,2-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
trans-1,2-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
2,2-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
cis-1,3-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
trans-1,3-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Ethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Hexachlorobutadiene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Isopropylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
p-Isopropyltoluene (p-cymene)	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Methylene Chloride	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
n-Propylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Styrene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,1,2-Tetrachloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,2,2-Tetrachloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Tetrachloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Toluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,3-Trichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,4-Trichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,1-Trichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,2-Trichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Trichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Trichlorofluoromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,3-Trichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,4-Trimethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3,5-Trimethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
p/m-Xylene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
o-Xylene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Vinyl Chloride	ND	<0.5	ug/L	2.0	MCL	EPA 502.2	11216	12/15/97	SR
Aldicarb	ND	<0.0003	mg/L	0.003	MCL	EPA 531.1	11216	12/11/97	IC
Aldicarb Sulfone	ND	<0.0003	mg/L	0.002	MCL	EPA 531.1	11216	12/11/97	IC
Aldicarb Sulfoxide	ND	<0.0004	mg/L	0.004	MCL	EPA 531.1	11216	12/11/97	IC
Carbofuran	ND	<0.0009	mg/L	0.04	MCL	EPA 531.1	11216	12/11/97	IC
Oxamyl (vydate)	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Methomyl	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
3-Hydroxycarbofuran	ND	<0.001	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Carbaryl	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

David M. Kennedy - Director

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

ELAP#10510
PADEP#68-545

OCL
Analytical Services
formerly Orange County Laboratory

(914) 733-1557 Fax: (914)733-1944

Monday, December 29, 1997

OCL 56616

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Diquat	ND	<0.0002	mg/L	0.02	MCL	EPA 549	11216	12/18/97	IC
Glyphosate	ND	<0.008	mg/L	0.05	MCL	EPA 547	11216	12/15/97	IC
Endothall	ND	<5	ug/L	100.0	MCL	EPA 548	11216	12/12/97	RJ
Ethylene dibromide (1,2-Dibromo	ND	<0.01	ug/L	0.05	MCL	EPA 504.1	11216	12/17/97	RJ
1,2-Dibromo-3-chloropropane (D	ND	<0.01	ug/L	0.20	MCL	EPA 504.1	11216	12/17/97	RJ
Toxaphene	ND	<0.89	ug/L	3.00	MCL	EPA 508	11216	12/18/97	RJ
PCB 1016	ND	<0.22	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1221	ND	<0.17	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1232	ND	<0.22	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1242	ND	<0.28	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1248	ND	<0.28	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1254	ND	<0.28	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1260	ND	<0.39	ug/L			EPA 508	11216	12/18/97	RJ
2,4-D	ND	<1.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dalapon	ND	<10.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dicamba	ND	<1.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dinoseb	ND	<0.5	ug/L	7.0	MCL	EPA 515.1	10252	12/15/97	KK
Pentachlorophenol	ND	<0.1	ug/L	1.0	MCL	EPA 515.1	10252	12/15/97	KK
Pichloram	ND	<0.1	ug/L	1.0	MCL	EPA 515.1	10252	12/15/97	KK
2,4,5-TP (Silvex)	ND	<1.0	ug/L	10.0	MCL	EPA 515.1	10252	12/15/97	KK
Alachlor	ND	<0.20	ug/L	50.0	MCL	EPA 525.2	11216	12/16/97	RJ
Atrazine	ND	<0.20	ug/L	3.0	MCL	EPA 525.2	11216	12/16/97	RJ
Simazine	ND	<0.14	ug/L	4.0	MCL	EPA 525.2	11216	12/16/97	RJ
Benzo(a)pyrene	ND	<0.05	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Di(2-ethylhexyl) adipate	ND	<0.50	ug/L	50.0	MCL	EPA 525.2	11216	12/16/97	RJ
Di(2-ethylhexyl) phthalate	ND	<0.50	ug/L	6.0	MCL	EPA 525.2	11216	12/16/97	RJ
Hexachlorobenzene	ND	<0.10	ug/L	1.0	MCL	EPA 525.2	11216	12/16/97	RJ
Hexachlorocyclopentadiene	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Aldrin	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Chlordane (Total)	ND	<0.028	ug/L	2.0	MCL	EPA 525.2	11216	12/18/97	RJ
Heptachlor	ND	<0.10	ug/L	0.4	MCL	EPA 525.2	11216	12/16/97	RJ
Methoxychlor	ND	<0.10	ug/L	10.0	MCL	EPA 525.2	11216	12/16/97	RJ
Lindane	ND	<0.10	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Heptachlor Epoxide	ND	<0.10	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Butachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Endrin	ND	<0.10	ug/L	20	MCL	EPA 525.2	11216	12/16/97	RJ
Metolachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Metribuzin	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Propachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Dieldrin	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Arsenic, Total	ND	<0.002	mg/L	0.05	MCL	SM16-307A	11216	12/16/97	CEH
Barium, Total		0.0754	mg/L	2.00	MCL	EPA 200.7	11216	12/12/97	BRJ
Cadmium, Total	ND	<0.0040	mg/L	0.005	MCL	EPA 200.9	11216	12/12/97	BRJ
Chromium, Total	ND	<0.0040	mg/L	0.10	MCL	EPA 200.7	11216	12/12/97	BRJ
Mercury, Total	ND	<0.0002	mg/L	0.002	MCL	EPA 245.2	11216	12/22/97	CEH
Selenium, Total	ND	<0.002	mg/L	0.01	MCL	SM16-303E	11216	12/18/97	CEH
Antimony, Total	ND	<0.003	mg/L	0.006	MCL	EPA 200.9	11216	12/17/97	BRJ
Beryllium, Total	ND	<0.0010	mg/L	0.004	MCL	EPA 200.7	11216	12/17/97	BRJ
Nickel, Total		0.0199	mg/L	0.1	MCL	EPA 200.7	11216	12/12/97	BRJ
Thallium, Total	ND	<0.001	mg/L	0.002	MCL	EPA 200.9	11216	12/18/97	BRJ

David M. Kennedy - Director

GT = greater than
LT = less than
ND = not detected

MCL = maximum contaminant level
DL = detection level

Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501
FAX: (303) 278-1528

DATE	December 10, 1997
HRI PROJECT	009-456
HRI SERIES NO.	L138/97
DATE REC'D	12/8/97
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. L138/97-2

SAMPLE IDENTIFICATION: 56616 - Well 2 Goshen sampled on 12/05/97 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	140(+-60)	50	EPA 913.0	12/8/97 @ 1532	LDO

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96 sigma.
Certification Authority Lab ID's:
CO/U.S. EPA Region VIII - XM; CT - PH-0152; KY - 90076; KS - E-10265; NH - 232897-A; NY ELAP - 11417

By: _____
Robert Rostad
Laboratory Manager

CODES:
(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved
< = Less Than

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4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501
FAX: (303) 278-1528

DATE	December 29, 1997
HRI PROJECT	009-456
HRI SERIES NO.	L212/97
DATE REC'D	12/11/97
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. L212/97-2

SAMPLE IDENTIFICATION: 56616 - Well 2 Goshen sampled on 12/05/97 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	1.5(+-2.4)	2.1	EPA 900.0	12/22/97 @ 0805	RPO
Gross Beta (+-Precision*), pCi/l (T)	0.9(+-3.0)	3.0	EPA 900.0	12/22/97 @ 0805	RPO
Radium-226 (+-Precision*), pCi/l (T)	0.4(+-0.4)	0.2	SM 705 (Modified)	12/17/97 @ 1020	RPO
Radium-228 (+-Precision*), pCi/l (T)	0.0(+-1.2)	1.4	EPA Ra-05	12/16/97 @ 0956	LDO

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96 sigma.
Certification Authority Lab ID's:
CO/U.S. EPA Region VIII - XM; CT - PH-0152; KY - 90076; KS - E-10265; NH - 232897-A; NY ELAP - 11417

CODES:
(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
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By: Robert Rostad
Laboratory Manager

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OCL
Analytical Services
formerly Orange County Laboratory

Monday, December 29, 1997
Page Number : 1

Fasa Construction Corp.
33 Fini Drive
Middletown NY 10940

Client Code : **8FASACC**

OCL Sample No : **56617**

System Name : **Fasa Construction Corp.**
Exact Location : **Well 3 - Goshen**
Submit By : **T Cusack**
Type Descr : SID : **000** Fed ID :

Date Collected : **12/5/97**
Time Collected : **10:30**
Date Received : **12/5/97**

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Total Coliform		absence				9223B	10510	12/5/97	HH
Alkalinity		120	mg/L			2320B	10510	12/8/97	PC
Chloride		3.2	mg/L	250	MCL	4500CLB	10510	12/11/97	JJ
Color		5.0				2120	10510	12/5/97	JJ
Corrosivity		0				2330	10510	12/9/97	PC
Fluoride		0.14	mg/L	2.2	MCL	340.2	10510	12/8/97	JJ
Calcium Hardness		88	mg/L			3500CaD	10510	12/5/97	JB
Nitrate		0.32	mg/L	10	MCL	Lachat	11216	12/10/97	IC
Odor		4				2150	10510	12/5/97	PC
pH		7.95				4500H	10510	12/5/97	JJ
TDS		184	mg/L			2540C	10510	12/8/97	PC
Sulfate		25	mg/L	250	MCL	375.4	10510	12/8/97	PC
Turbidity		0.57	ntu			2130	10510	12/5/97	JJ
Sulfide		0.78	mg/L			4500SE	10510	12/8/97	JJ
Cyanide-Total	ND	<0.010	mg/L	0.010	DL	EPA 335.4	11216	12/16/97	JP
Lead, total	ND	<0.001	mg/L	0.015	MCL	EPA 200.9	11216	12/19/97	BRJ
Silver, total	ND	<0.010	mg/L	0.05	MCL	EPA 200.7	11216	12/16/97	BRJ
Copper, total	ND	<0.005	mg/L	1.0	MCL	EPA 200.7	11216	12/16/97	BRJ
Iron, total		0.061	mg/L	0.3	MCL	EPA 200.7	11216	12/16/97	BRJ
Sodium, total		23.8	mg/L			EPA 200.7	11216	12/16/97	BRJ
Zinc, total	ND	<0.010	mg/L	5.0	MCL	EPA 200.7	11216	12/16/97	BRJ
Manganese, total		0.060	mg/L	0.3	MCL	EPA 200.7	11216	12/16/97	BRJ
Benzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromochloromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Bromomethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
n-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
sec-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
tert-Butylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Carbon Tetrachloride	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Chlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR

David M. Kennedy - Director

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MCL = maximum contaminant level
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OCL Analytical Services
35 Goshen Turnpike
Bloomingburg, NY 12721

ELAP#10510
PADEP#68-545

OCL
Analytical Services
formerly Orange County Laboratory

(914) 733-1557 Fax: (914)733-1944

Monday, December 29, 1997

OCL 56617

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Chloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Chloromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
2-Chlorotoluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
4-Chlorotoluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Dibromomethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,4-Dichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Dichlorodifluoromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
cis-1,2-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
trans-1,2-Dichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
2,2-Dichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
cis-1,3-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
trans-1,3-Dichloropropene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Ethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Hexachlorobutadiene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Isopropylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
p-Isopropyltoluene (p-cymene)	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Methylene Chloride	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
n-Propylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Styrene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,1,2-Tetrachloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,2,2-Tetrachloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Tetrachloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Toluene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,3-Trichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,4-Trichlorobenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,1-Trichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,1,2-Trichloroethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Trichloroethene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Trichlorofluoromethane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,3-Trichloropropane	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,2,4-Trimethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
1,3,5-Trimethylbenzene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
p/m-Xylene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
o-Xylene	ND	<0.5	ug/L	5.0	MCL	EPA 502.2	11216	12/15/97	SR
Vinyl Chloride	ND	<0.5	ug/L	2.0	MCL	EPA 502.2	11216	12/15/97	SR
Aldicarb	ND	<0.0003	mg/L	0.003	MCL	EPA 531.1	11216	12/11/97	IC
Aldicarb Sulfone	ND	<0.0003	mg/L	0.002	MCL	EPA 531.1	11216	12/11/97	IC
Aldicarb Sulfoxide	ND	<0.0004	mg/L	0.004	MCL	EPA 531.1	11216	12/11/97	IC
Carbofuran	ND	<0.0009	mg/L	0.04	MCL	EPA 531.1	11216	12/11/97	IC
Oxamyl (vydate)	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Methomyl	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
3-Hydroxycarbofuran	ND	<0.001	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Carbaryl	ND	<0.0003	mg/L	0.05	MCL	EPA 531.1	11216	12/11/97	IC
Diquat	ND	<0.0002	mg/L	0.02	MCL	EPA 549	11216	12/18/97	IC

GT = greater than
LT = less than
ND = not detected
MCL = maximum contaminant level
DL = detection level

David M. Kennedy - Director

OCL Analytical Services
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PADEP#68-545

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Monday, December 29, 1997

OCL 56617

Analysis		Result	Units	MCL/DL		Method	Lab	Date	By
Glyphosate	ND	<0.008	mg/L	0.05	MCL	EPA 547	11216	12/15/97	IC
Endothall	ND	<5	ug/L	100.0	MCL	EPA 548	11216	12/12/97	RJ
Ethylene dibromide (1,2-Dibromo	ND	<0.01	ug/L	0.05	MCL	EPA 504.1	11216	12/17/97	RJ
1,2-Dibromo-3-chloropropane (D	ND	<0.01	ug/L	0.20	MCL	EPA 504.1	11216	12/17/97	RJ
Toxaphene	ND	<0.81	ug/L	3.00	MCL	EPA 508	11216	12/18/97	RJ
PCB 1016	ND	<0.20	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1221	ND	<0.15	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1232	ND	<0.20	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1242	ND	<0.25	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1248	ND	<0.25	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1254	ND	<0.25	ug/L			EPA 508	11216	12/18/97	RJ
PCB 1260	ND	<0.35	ug/L			EPA 508	11216	12/18/97	RJ
2,4-D	ND	<1.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dalapon	ND	<10.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dicamba	ND	<1.0	ug/L	50.0	MCL	EPA 515.1	10252	12/15/97	KK
Dinoseb	ND	<0.5	ug/L	7.0	MCL	EPA 515.1	10252	12/15/97	KK
Pentachlorophenol	ND	<0.1	ug/L	1.0	MCL	EPA 515.1	10252	12/15/97	KK
Pichloram	ND	<0.1	ug/L	1.0	MCL	EPA 515.1	10252	12/15/97	KK
2,4,5-TP (Silvex)	ND	<1.0	ug/L	10.0	MCL	EPA 515.1	10252	12/15/97	KK
Alachlor	ND	<0.20	ug/L	50.0	MCL	EPA 525.2	11216	12/16/97	RJ
Atrazine	ND	<0.20	ug/L	3.0	MCL	EPA 525.2	11216	12/16/97	RJ
Simazine	ND	<0.14	ug/L	4.0	MCL	EPA 525.2	11216	12/16/97	RJ
Benzo(a)pyrene	ND	<0.05	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Di(2-ethylhexyl) adipate	ND	<0.50	ug/L	50.0	MCL	EPA 525.2	11216	12/16/97	RJ
Di(2-ethylhexyl) phthalate	ND	<0.50	ug/L	6.0	MCL	EPA 525.2	11216	12/16/97	RJ
Hexachlorobenzene	ND	<0.10	ug/L	1.0	MCL	EPA 525.2	11216	12/16/97	RJ
Hexachlorocyclopentadiene	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Aldrin	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Chlordane (Total)	ND	<0.025	ug/L	2.0	MCL	EPA 525.2	11216	12/18/97	RJ
Heptachlor	ND	<0.10	ug/L	0.4	MCL	EPA 525.2	11216	12/16/97	RJ
Methoxychlor	ND	<0.10	ug/L	10.0	MCL	EPA 525.2	11216	12/16/97	RJ
Lindane	ND	<0.10	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Heptachlor Epoxide	ND	<0.10	ug/L	0.2	MCL	EPA 525.2	11216	12/16/97	RJ
Butachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Endrin	ND	<0.10	ug/L	20	MCL	EPA 525.2	11216	12/16/97	RJ
Metolachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Metribuzin	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Propachlor	ND	<0.10	ug/L	50	MCL	EPA 525.2	11216	12/16/97	RJ
Dieldrin	ND	<0.10	ug/L	5.0	MCL	EPA 525.2	11216	12/16/97	RJ
Arsenic, Total	ND	<0.002	mg/L	0.05	MCL	SM16-307A	11216	12/16/97	CEH
Barium, Total		0.0801	mg/L	2.00	MCL	EPA 200.7	11216	12/12/97	BRJ
Cadmium, Total	ND	<0.0010	mg/L	0.005	MCL	EPA 200.9	11216	12/12/97	BRJ
Chromium, Total	ND	<0.0040	mg/L	0.10	MCL	EPA 200.7	11216	12/12/97	BRJ
Mercury, Total	ND	<0.0002	mg/L	0.002	MCL	EPA 245.2	11216	12/22/97	CEH
Selenium, Total	ND	<0.002	mg/L	0.01	MCL	SM16-303E	11216	12/18/97	CEH
Antimony, Total	ND	<0.003	mg/L	0.006	MCL	EPA 200.9	11216	12/17/97	BRJ
Beryllium, Total	ND	<0.0010	mg/L	0.004	MCL	EPA 200.7	11216	12/17/97	BRJ
Nickel, Total		0.0163	mg/L	0.1	MCL	EPA 200.7	11216	12/12/97	BRJ
Thallium, Total	ND	<0.001	mg/L	0.002	MCL	EPA 200.9	11216	12/18/97	BRJ

DMKennedy
David M. Kennedy - Director

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DL = detection level

Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501
FAX: (303) 278-1528

DATE	December 10, 1997
HRI PROJECT	009-456
HRI SERIES NO.	L138/97
DATE REC'D	12/8/97
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. L138/97-3

SAMPLE IDENTIFICATION: 56617 - Well 3 Goshen sampled on 12/05/97 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Radon (+-Precision*), pCi/l (T)	500(+-60)	60	EPA 913.0	12/8/97 @ 1534	LDO

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96 sigma.
Certification Authority Lab ID's:
CO/U.S. EPA Region VIII - XM; CT - PH-0152; KY - 90076; KS - E-10265; NH - 232897-A; NY ELAP - 11417

CODES:
(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved
< = Less Than

By: _____
Robert Rostad
Laboratory Manager

Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501
FAX: (303) 278-1528

DATE	December 29, 1997
HRI PROJECT	009-456
HRI SERIES NO.	L212/97
DATE REC'D	12/11/97
CUST. P.O.#	None Rec'd

OCL Analytical Services
David Kennedy
35 Goshen Turnpike
Bloomingburg, NY 12721

REPORT OF ANALYSIS

SAMPLE NO. L212/97-3

SAMPLE IDENTIFICATION: 56617 - Well 3 Goshen sampled on 12/05/97 @ 1030

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	0.5(+-2.1)	2.0	EPA 900.0	12/17/97 @ 0718	RPO
Gross Beta (+-Precision*), pCi/l (T)	0.0(+-2.9)	3.1	EPA 900.0	12/17/97 @ 0718	RPO
Radium-226 (+-Precision*), pCi/l (T)	0.1(+-0.2)	0.2	SM 705 (Modified)	12/17/97 @ 1030	RPO
Radium-228 (+-Precision*), pCi/l (T)	0.0(+-1.2)	1.3	EPA Ra-05	12/16/97 @ 0958	LDO

*Variability of the radioactive disintegration process (counting error) at the 95% confidence level, 1.96 sigma.
Certification Authority Lab ID's:
CO/U.S. EPA Region VIII - XM; CT - PH-0152; KY - 90076; KS - E-10265; NH - 232897-A; NY ELAP - 11417

By: Robert Rostad
Laboratory Manager

CODES:
(T) = Total (D) = Dissolved
(S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved
< = Less Than