



STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

February 9, 2001

CERTIFIED LETTER NO. Z 039 740 198 RETURN RECEIPT REQUESTED

Mr. and Mrs. Larry Wright
305 N. Jackson Street
Crystal Springs, MS 39059

RE: 305 N. Jackson Street
Crystal Springs, Copiah County, Mississippi

Dear Mr. and Mrs. Wright:

The Uncontrolled Sites Section of the Mississippi Department of Environmental Quality (MDEQ) has completed a review of the sampling report prepared by Ogden Environmental and Engineering for the above referenced property. The MDEQ requires no further action at this site at this time.

If cleanup standards change or additional data becomes available for the site, then MDEQ will notify the appropriate parties of the need for any additional investigation(s) or remedial action(s). These actions will be consistent with our need to protect human health, welfare, and/or the environment.

If you have any questions, concerning this matter, please contact Gretchen Zmitrovich at (601) 961-5240.

Sincerely,

A handwritten signature in cursive script that reads "Tony Russell".

Tony Russell, Chief
Uncontrolled Sites Section

Kuhlman Electric-305 N. Jackson Street (Wright) SNFA_2-9-01 (gz)

7 039 740 198

US Postal Service

Receipt for Certified Mail

MR AND MRS LARRY WRIGHT
305 N JACKSON STREET
CRYSTAL SPRINGS MS 39059

Postage	\$
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Return Receipt Showing to Whom & Date Delivered	
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Postmark or Date

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- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
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- The Return Receipt will show to whom the article was delivered and the date delivered.

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1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

MR AND MRS LARRY WRIGHT
305 N JACKSON STREET
CRYSTAL SPRINGS MS 39059

4a. Article Number

2 039 740 198

4b. Service Type

- Registered Certified
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STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

February 9, 2001

Mr. and Mrs. Larry Wright
305 N. Jackson Street
Crystal Springs, MS 39059

RE: soil and wipe sampling

Dear Mr. and Mrs. Wright:

Please find attached the report for the soil and wipe sampling conducted at 305 N. Jackson Street, Crystal Springs, MS. The report includes the following:

1. a map showing the sampling locations,
2. a table containing the sample results for the analysis conducted by the mobile laboratory, Environmental Chemistry Consulting Services, and
3. data sheets containing the split sample results for the analysis conducted by the fixed laboratory, Paradigm Analytical Laboratories, Inc.

In addition, please find enclosed a letter from the MDEQ stating that, based on the information collected to date, no further investigative or remedial action is required on your property in regard to contamination from the Kuhlman facility.

Please contact Gretchen Zmitrovich at 601-961-5240 if you have any questions regarding this report.

Sincerely,

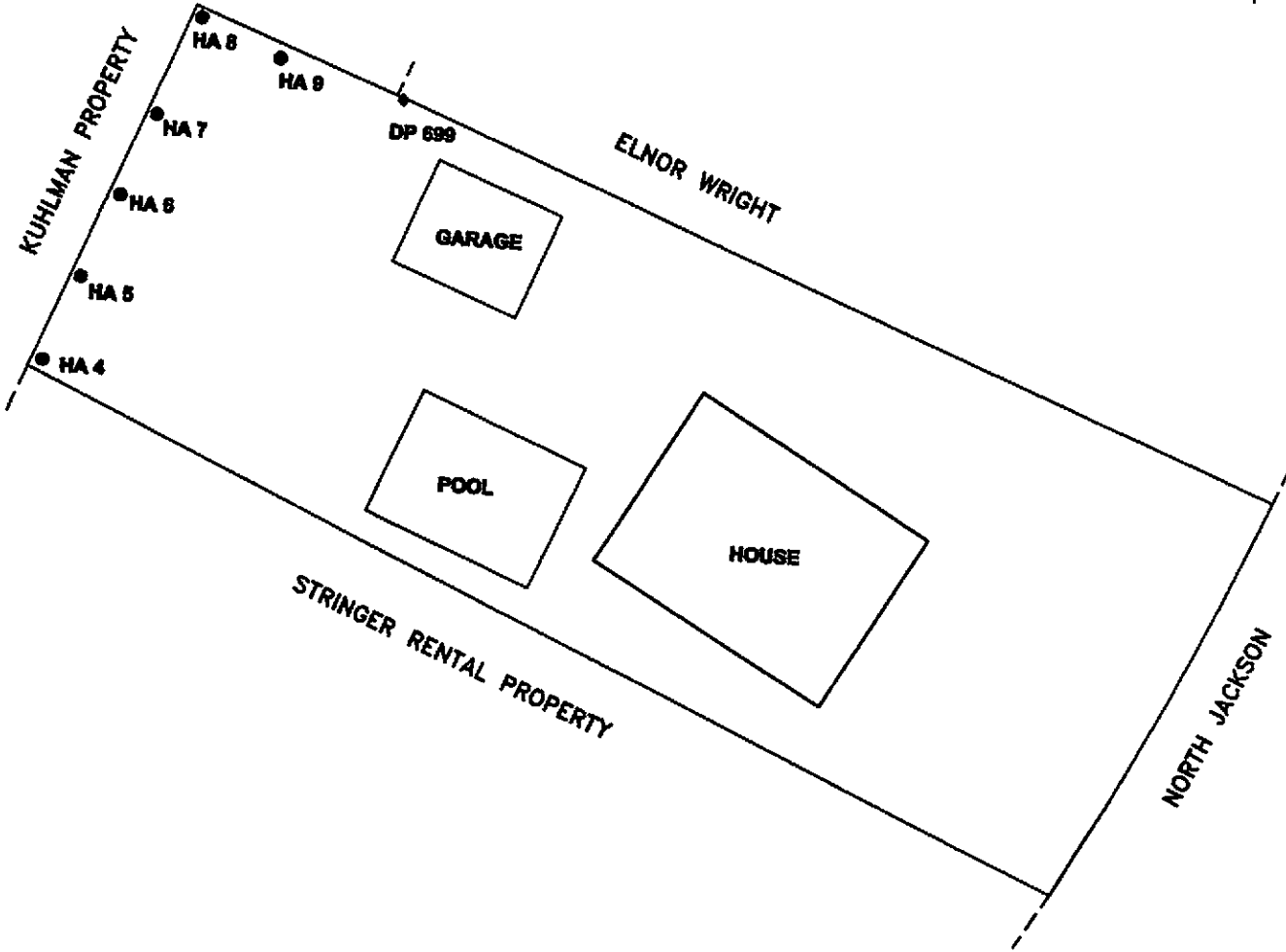
A handwritten signature in black ink that reads "Tony Russell".

Tony Russell, Chief
Uncontrolled Sites Section

Enclosures

Kuhlman Electric-305 N. Jackson (Wright) report_2-9-01 (gz)

COPY



LEGEND

- ◆ SAMPLE POINT
- DP 392 SAMPLE POINT NUMBER
- SAMPLE POINT
- HA 4-9 SAMPLE POINT NUMBER

- 1) ALL DISTANCES ARE ESTIMATED
- 2) THIS MAP WAS PREPARED FROM RECORD MAPS
- 3) THIS MAP HAS BEEN PREPARED FOR PRESENTATION PURPOSES ONLY



SAMPLE LOCATIONS FOR LARRY WRIGHT PROPERTY 305 NORTH JACKSON			
SCALE: AS SHOWN	DR MDI	CHK TF	REV BPS
PREPARED BY: OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES			
<small>200 SOUTH OLD STATEVILLE ROAD • HUNTERSVILLE, NC 28078 • 704-875-3570</small>			
PROJ: 073360000	DATE: 09/24/00	SHEET 1 OF 1	

Soil and Wipe Sample Results
 Larry Wright Property
 305 North Jackson
 Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)		HA-4	HA-4	HA-5	HA-5	HA-6	HA-6	HA-7	HA-7	HA-7
Target Analyte	Sample #	0.5	2.5	0.5	2.5	0.5	2.5	0.5	1.5	2.25
	Depth (ft)	123	124	125	126	127	128	129	130	285
	Lab #									
PCB as 1280		<0.10	<0.10	<0.10	<0.10	0.10	<0.10	0.11	0.16	<0.10
	Collection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/19/00	8/18/00	8/20/00
	Collection Time	8:39	8:43	8:48	8:54	8:57	9:01	9:05	9:19	10:49
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/19/00	8/19/00	8/19/00	8/20/00

WIPE SAMPLES (TOTAL UG)		WWW-1	WWW-2	WWW-3	WWW-4
Target Analyte	Sample #	732	733	734	735
	Depth				
	Lab #				
PCB as 1280		<0.50	<0.50	<0.50	<0.50
	Collection Date	8/30/00	8/30/00	8/30/00	8/30/00
	Collection Time	12:55	12:56	12:59	13:00
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00

Notes:

LOCATION:

- WWW1: White metal patio table, top surface.
- WWW2: Loveseat bench in backyard, rear surface.
- WWW3: Brick walkway adjacent to patio table and chairs in backyard.
- WWW4: Top section of wooden fence gate leading to backyard.

Soil and Wipe Sample Results
 Larry Wright Property
 305 North Jackson
 Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)		HA-8	HA-8	HA-9	HA-9	HA-9	HA-7	DP-699
Target Analyte	Sample #	0.5	2.25	0.5	2.5	0.1	0.1	0.1
	Depth (ft)	296	297	298	299	1115	1115	1111
	Lab #							
PCB as 1280		**<2.0	+<0.50J	<1.0	<0.50	1.1*J		0.21
	Collection Date	8/20/00	8/20/00	8/20/00	8/20/00	9/19/00	9/19/00	9/19/00
	Collection Time	10:55	11:04	11:14	11:28	10:20	10:25	10:25
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	9/19/00	9/19/00	9/19/00

* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.
 ** Lowest detection level possible due to interference from presence of chlordane, DDT, DDD, & DDE.

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for PCBs
by EPA 8082

Client Sample ID: DP-699-0.5
Client Project ID: Borg Warner Kuhlman Electric
Lab Sample ID: 95950
Lab Project ID: G185-83
Matrix: Soil

%SOLIDS: 91.0

Date Collected: 9/19/00
Date Received: 9/22/00
Date Analyzed: 10/2/00
Analyzed By: CLP
Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Arochlor-1016	240	BQL
Arochlor-1221	240	BQL
Arochlor-1232	240	BQL
Arochlor-1242	240	BQL
Arochlor-1248	240	BQL
Arochlor-1254	240	BQL
Arochlor-1260	240	BQL
Arochlor-1262	240	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	63	63

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By: 

Results for Semivolatiles
by GCMS 8270

Client Sample ID: DP-699-0.5

Client Project ID: Borg Warner Kuhlman Electric

Lab Sample ID: 95950

Lab Project ID: G185-83

Matrix: Soil

%Solids: 91.0

Date Collected: 9/19/00

Date Received: 9/22/00

Date Analyzed: 10/6/00

Analyzed By: MRC

Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Acenaphthene	410	BQL
Acenaphthylene	410	BQL
Anthracene	410	BQL
Benzo[a]anthracene	410	BQL
Benzo[a]pyrene	410	BQL
Benzo[b]fluoranthene	410	BQL
Benzo[g,h,i]perylene	410	BQL
Benzo[k]fluoranthene	410	BQL
Benzoic Acid	820	BQL
Bis(2-chloroethoxy)methane	410	BQL
Bis(2-chloroethyl)ether	410	BQL
Bis(2-chloroisopropyl)ether	410	BQL
Bis(2-ethylhexyl)phthalate	410	BQL
4-bromophenyl phenyl ether	410	BQL
Butylbenzylphthalate	410	BQL
4-Chloroaniline	410	BQL
4-Chloro-3-methylphenol	410	BQL
2-Chloronaphthalene	410	BQL
2-Chlorophenol	410	BQL
4-Chlorophenyl phenyl ether	410	BQL
Chrysene	410	BQL
Di-n-Butylphthalate	410	BQL
Di-n-octylphthalate	410	BQL
Dibenzo[a,h]anthracene	410	BQL
Dibenzofuran	410	BQL
1,2-Dichlorobenzene	410	BQL
1,3-Dichlorobenzene	410	BQL
1,4-Dichlorobenzene	410	BQL
3,3'-Dichlorobenzidine	820	BQL
2,4-Dichlorophenol	410	BQL
Diethylphthalate	410	BQL
2,4-Dimethylphenol	410	BQL
Dimethylphthalate	410	BQL
4,6-Dinitro-2-methylphenol	2000	BQL
2,4-Dinitrophenol	2000	BQL
2,4-Dinitrotoluene	410	BQL
2,6-Dinitrotoluene	410	BQL
Fluoranthene	410	BQL
Fluorene	410	520
Hexachlorobenzene	410	BQL
Hexachlorobutadiene	410	BQL
Hexachlorocyclopentadiene	820	BQL
Hexachloroethane	410	BQL
Indeno(1,2,3-c,d)pyrene	410	BQL
Isophorone	410	BQL

Results for Semivolatiles
by GCMS 8270

Client Sample ID: DP-699-0.5

Client Project ID: Borg Warner Kuhlman Electric

Lab Sample ID: 95950

Lab Project ID: G185-83

Matrix: Soil

%Solids: 91.0

Date Collected: 9/19/00

Date Received: 9/22/00

Date Analyzed: 10/6/00

Analyzed By: MRC

Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
2-Methylnaphthalene	410	BQL
2-Methylphenol	410	BQL
3- & 4-Methylphenol	410	BQL
N-Nitrosodi-n-propylamine	410	BQL
N-Nitrosodiphenylamine	410	BQL
Naphthalene	410	BQL
2-Nitroaniline	410	BQL
3-Nitroaniline	410	BQL
4-Nitroaniline	410	BQL
Nitrobenzene	410	BQL
2-Nitrophenol	410	BQL
4-Nitrophenol	2000	BQL
Pentachlorobenzene	410	BQL
Pentachlorophenol	2000	BQL
Phenanthrene	410	BQL
Phenol	410	BQL
Pyrene	410	440
1,2,3,4-Tetrachlorobenzene	410	BQL
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	410	BQL
1,2,3-Trichlorobenzene	410	BQL
1,2,4-Trichlorobenzene	410	BQL
1,3,5-Trichlorobenzene	410	BQL
2,4,5-Trichlorophenol	410	BQL
2,4,6-Trichlorophenol	410	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.3	93
2-Fluorophenol	10	5.1	51
Nitrobenzene-d5	10	8.8	88
Phenol-d6	10	6.4	64
2,4,6-Tribromophenol	10	3.7	37
4-Terphenyl-d14	10	9.1	91

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: DP-699-0.5
 Client Project ID: Borg Warner Kuhlman Electric
 Lab Sample ID: 95950
 Lab Project ID: G185-83
 Matrix: Soil %SOLIDS: 91.0


Date Collected: 9/19/00
 Date Received: 9/22/00
 Date Analyzed: 10/6/00
 Analyzed By: MRC
 Dilution: 1

Num.	Compound	CAS#	Match Probability	Result (ug/KG)
1	Aromatic, Unknown			370
2	Unknown			270
3	Aromatic, Unknown			260
4	Unknown			220
5	Unknown			210
6	Unknown			180
7				
8				
9				
10				

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak height of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak height is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

PARAMGM ANALYTICAL LABORATORIES, INC.

**Results for PCBs
by EPA 8082**

Client Sample ID: HA-7-0.1

Client Project ID: Borg Warner Kuhlman Electric

Lab Sample ID: 95949

Lab Project ID: G185-83

Matrix: Soil

%SOLIDS: 89.4

Date Collected: 9/19/00

Date Received: 9/22/00

Date Analyzed: 10/11/00

Analyzed By: CLP

Dilution: 2

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Arochlor-1016	510	BQL
Arochlor-1221	510	BQL
Arochlor-1232	510	BQL
Arochlor-1242	510	BQL
Arochlor-1248	510	BQL
Arochlor-1254	510	BQL
Arochlor-1260	510	720
Arochlor-1262	510	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	66	66

*Sample was quantitated as Aroclor 1260, but appears to contain a mixture of Aroclor 1260 and Aroclor 1262.

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By: 

PARAMGM ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: HA-7-0.1

Client Project ID: Borg Warner Kuhlman Electric

Lab Sample ID: 95949

Lab Project ID: G185-83

Matrix: Soil

%Solids: 89.4

Date Collected: 9/19/00

Date Received: 9/22/00

Date Analyzed: 10/6/00

Analyzed By: MRC

Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Acenaphthene	510	BQL
Acenaphthylene	510	BQL
Anthracene	510	BQL
Benzo[a]anthracene	510	BQL
Benzo[a]pyrene	510	BQL
Benzo[b]fluoranthene	510	BQL
Benzo[g,h,i]perylene	510	BQL
Benzo[k]fluoranthene	510	BQL
Benzoic Acid	1000	BQL
Bis(2-chloroethoxy)methane	510	BQL
Bis(2-chloroethyl)ether	510	BQL
Bis(2-chloroisopropyl)ether	510	BQL
Bis(2-ethylhexyl)phthalate	510	BQL
4-bromophenyl phenyl ether	510	BQL
Butylbenzylphthalate	510	BQL
4-Chloroaniline	510	BQL
4-Chloro-3-methylphenol	510	BQL
2-Chloronaphthalene	510	BQL
2-Chlorophenol	510	BQL
4-Chlorophenyl phenyl ether	510	BQL
Chrysene	510	BQL
Di-n-Butylphthalate	510	BQL
Di-n-octylphthalate	510	BQL
Dibenzo[a,h]anthracene	510	BQL
Dibenzofuran	510	BQL
1,2-Dichlorobenzene	510	BQL
1,3-Dichlorobenzene	510	BQL
1,4-Dichlorobenzene	510	BQL
3,3'-Dichlorobenzidine	1000	BQL
2,4-Dichlorophenol	510	BQL
Diethylphthalate	510	BQL
2,4-Dimethylphenol	510	BQL
Dimethylphthalate	510	BQL
4,6-Dinitro-2-methylphenol	2500	BQL
2,4-Dinitrophenol	2500	BQL
2,4-Dinitrotoluene	510	BQL
2,6-Dinitrotoluene	510	BQL
Fluoranthene	510	BQL
Fluorene	510	BQL
Hexachlorobenzene	510	BQL
Hexachlorobutadiene	510	BQL
Hexachlorocyclopentadiene	1000	BQL
Hexachloroethane	510	BQL
Indeno(1,2,3-c,d)pyrene	510	BQL
Isophorone	510	BQL

PARAMIGM ANALYTICAL LABORATORIES, INC.

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: HA-7-0.1

Client Project ID: Borg Warner Kuhlman Electric

Lab Sample ID: 95949

Lab Project ID: G185-83

Matrix: Soil

%Solids: 89.4

Date Collected: 9/19/00

Date Received: 9/22/00

Date Analyzed: 10/6/00

Analyzed By: MRC

Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
2-Methylnaphthalene	510	BQL
2-Methylphenol	510	BQL
3- & 4-Methylphenol	510	BQL
N-Nitrosodi-n-propylamine	510	BQL
N-Nitrosodiphenylamine	510	BQL
Naphthalene	510	BQL
2-Nitroaniline	510	BQL
3-Nitroaniline	510	BQL
4-Nitroaniline	510	BQL
Nitrobenzene	510	BQL
2-Nitrophenol	510	BQL
4-Nitrophenol	2500	BQL
Pentachlorobenzene	510	BQL
Pentachlorophenol	2500	BQL
Phenanthrene	510	BQL
Phenol	510	BQL
Pyrene	510	BQL
1,2,3,4-Tetrachlorobenzene	510	BQL
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	510	BQL
1,2,3-Trichlorobenzene	510	BQL
1,2,4-Trichlorobenzene	510	BQL
1,3,5-Trichlorobenzene	510	BQL
2,4,5-Trichlorophenol	510	BQL
2,4,6-Trichlorophenol	510	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.3	83
2-Fluorophenol	10	6	60
Nitrobenzene-d5	10	8	80
Phenol-d6	10	7	70
2,4,6-Tribromophenol	10	5.1	51
4-Terphenyl-d14	10	8.5	85

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.

Reviewed By: W

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: HA-7-0.1
 Client Project ID: Borg Warner Kuhiman Electric
 Lab Sample ID: 95949
 Lab Project ID: G185-83
 Matrix: Soil %SOLIDS: 89.4

Date Collected: 9/19/00
 Date Received: 9/22/00
 Date Analyzed: 10/6/00
 Analyzed By: MRC
 Dilution: 1

Num.	Compound	CAS#	Match Probability	Result (ug/KG)
1	Alkane, Unknown			5800
2	Alkane, Unknown			5300
3	Unknown			3100
4	Unknown			1800
5	Unknown			1900
6	Alcohol, Unknown			1800
7	Carboxylic Acid, Unknown			1500
8	Alkane, Unknown			1200
9	Unknown			1100
10	Unknown			990

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak height of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak height is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 

Results for PCBs
by EPA 8082

Client Sample ID: HA-9-0.5
Client Project ID: Kuhlman
Lab Sample ID: 93917
Lab Project ID: G185-79
Matrix: Soil

%SOLIDS: 92.0

Date Collected: 8/22/00
Date Received: 8/23/00
Date Analyzed: 8/30/00
Analyzed By: CLP
Dilution: 1

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Arochlor-1016	160	BQL
Arochlor-1221	160	BQL
Arochlor-1232	160	BQL
Arochlor-1242	160	BQL
Arochlor-1248	160	BQL
Arochlor-1254	160	BQL
Arochlor-1260	160	BQL
Arochlor-1262	160	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
TCMX	100	75	75

Comments:

BQL = Below Quantitation Limit

NA = Not applicable, surrogate diluted out.

Reviewed By: 

PARAMOUNT ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: HA-9-0.5
Client Project ID: Kuhlman
Lab Sample ID: 93917
Lab Project ID: G185-79
Matrix: Soil

Date Collected: 8/22/00
Date Received: 8/23/00
Date Analyzed: 8/31/00
Analyzed By: MRC
Dilution: 1

%Solids: 92.0

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
Acenaphthene	320	BQL
Acenaphthylene	320	BQL
Anthracene	320	BQL
Benzo[a]anthracene	320	BQL
Benzo[a]pyrene	320	BQL
Benzo[b]fluoranthene	320	BQL
Benzo[g,h,i]perylene	320	BQL
Benzo[k]fluoranthene	320	BQL
Benzoic Acid	630	BQL
Bis(2-chloroethoxy)methane	320	BQL
Bis(2-chloroethyl)ether	320	BQL
Bis(2-chloroisopropyl)ether	320	BQL
Bis(2-ethylhexyl)phthalate	320	BQL
4-bromophenyl phenyl ether	320	BQL
Butylbenzylphthalate	320	BQL
4-Chloroaniline	320	BQL
4-Chloro-3-methylphenol	320	BQL
2-Chloronaphthalene	320	BQL
2-Chlorophenol	320	BQL
4-Chlorophenyl phenyl ether	320	BQL
Chrysene	320	BQL
Di-n-Butylphthalate	320	BQL
Di-n-octylphthalate	320	BQL
Dibenzo[a,h]anthracene	320	BQL
Dibenzofuran	320	BQL
1,2-Dichlorobenzene	320	BQL
1,3-Dichlorobenzene	320	BQL
1,4-Dichlorobenzene	320	BQL
3,3'-Dichlorobenzidine	630	BQL
2,4-Dichlorophenol	320	BQL
Diethylphthalate	320	BQL
2,4-Dimethylphenol	320	BQL
Dimethylphthalate	320	BQL
4,6-Dinitro-2-methylphenol	1600	BQL
2,4-Dinitrophenol	1600	BQL
2,4-Dinitrotoluene	320	BQL
2,6-Dinitrotoluene	320	BQL
Fluoranthene	320	BQL
Fluorene	320	BQL
Hexachlorobenzene	320	BQL
Hexachlorobutadiene	320	BQL
Hexachlorocyclopentadiene	630	BQL
Hexachloroethane	320	BQL
Indeno(1,2,3-c,d)pyrene	320	BQL
Isophorone	320	BQL

PARADISE ANALYTICAL LABORATORIES, INC.

Results for Semivolatiles
by GCMS 8270

Client Sample ID: HA-9-0.5
Client Project ID: Kuhiman
Lab Sample ID: 93917
Lab Project ID: G185-79
Matrix: Soil

Date Collected: 8/22/00
Date Received: 8/23/00
Date Analyzed: 8/31/00
Analyzed By: MRC
Dilution: 1

%Solids: 92.0

Compound	Quantitation Limit (ug/KG)	Result (ug/KG)
2-Methylnaphthalene	320	BQL
2-Methylphenol	320	BQL
3- & 4-Methylphenol	320	BQL
N-Nitrosodi-n-propylamine	320	BQL
N-Nitrosodiphenylamine	320	BQL
Naphthalene	320	BQL
2-Nitroaniline	320	BQL
3-Nitroaniline	320	BQL
4-Nitroaniline	320	BQL
Nitrobenzene	320	BQL
2-Nitrophenol	320	BQL
4-Nitrophenol	1600	BQL
Pentachlorobenzene	320	BQL
Pentachlorophenol	1600	BQL
Phenanthrene	320	BQL
Phenol	320	BQL
Pyrene	320	BQL
1,2,3,4-Tetrachlorobenzene	320	BQL
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	320	BQL
1,2,3-Trichlorobenzene	320	BQL
1,2,4-Trichlorobenzene	320	BQL
1,3,5-Trichlorobenzene	320	BQL
2,4,5-Trichlorophenol	320	BQL
2,4,6-Trichlorophenol	320	BQL

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.4	104
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	10.3	103
Phenol-d6	10	9.5	95
2,4,6-Tribromophenol	10	9.4	94
4-Terphenyl-d14	10	10.7	107

Comments:

Results are corrected for %solids and dilution where applicable.

Flags:

BQL = Below Quantitation Limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: HA-9-0.5

Client Project ID: Kuhlman

Lab Sample ID: 93917

Lab Project ID: G185-79

Matrix: Soil

%SOLIDS

92.0

Date Collected: 8/22/00

Date Received: 8/23/00

Date Analyzed: 8/31/00

Analyzed By: MRC

Dilution: 1

Num.	Compound	CAS#	Match Probability	Result (ug/KG)
1	Unknown			50000
2	Unknown			47000
3	Unknown			44000
4				
5				
6				
7				
8				
9				
10				

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak height of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak height is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

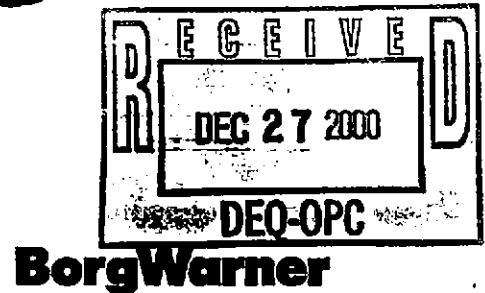
Reviewed by: 

AH-00-1638

VIA UPS NEXT DAY AIR

December 20, 2000

Ms. Gretchen Zmitrovich
Mississippi Department of Environmental Quality
Office of Pollution Control
101 West Capitol Street
Jackson, Mississippi 39201



Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.
11955 East Nine Mile Road
Warren, Michigan 48089

Re: **Progress Report of Assessment and Remediation Activities
Kuhlman Electric Corporation and Residential Properties
Crystal Springs, Mississippi**

FILE COPY

Dear Ms. Zmitrovich:

This is a progress report to summarize the assessment and remediation activities related to PCB contamination at Crystal Springs, Mississippi. BorgWarner's last update was October 31, 2000. As you are aware, pursuant to the indemnity agreement between Kuhlman Electric Corporation (KEC) and BorgWarner Inc., BorgWarner has continued the assessment at the KEC plant and began the assessment of residential properties along a drainage channel downgradient of the plant. BorgWarner has also been actively remediating those properties adjacent to the KEC plant for which access was previously granted and sampling was complete.

BorgWarner, as it stated in its October 31, 2000 letter to the Mississippi Department of Environmental Quality (MDEQ), remains committed to working closely with MDEQ, USEPA, local government and KEC in a cooperative manner to accomplish the tasks necessary for the protection of human health and the environment, to the extent that the circumstances are covered by its contractual indemnity to KEC. BorgWarner will continue to seek MDEQ's guidance and direction in its current and future intended activities and to promptly share information.

ACTIONS TAKEN AND PLANNED

1. Delineation of Residential Properties along Jackson and Lee Avenues

BorgWarner promptly and voluntarily began sampling and delineation activities at the residential and commercial properties, adjoining the KEC plant that appeared to or reportedly have been affected by runoff or by the removal of soil from the KEC plant prior to October 6, 1999.

Under MDEQ's supervision, BorgWarner conducted delineation activities of these properties during the month of August, 2000. A total of eighteen (18) properties were investigated, which were:

1. Perry Smith, 219 North Jackson Street
2. Stringer Funeral Home, 301 North Jackson Street
3. Stringer Rental Property, 303 North Jackson Street
4. Harold and Suzanne Warren, 403 North Jackson Street
5. Elnor Wright, 401 North Jackson Street
6. Sonny Reeves, 405 North Jackson Street
7. Brent Property, 403 Lee Avenue
8. Louie Lang/David Vinson, 407 North Jackson Street
9. Jerry Youngblood, 100 Lamar St.
10. Medical Clinic, Lee Avenue
11. Edwards Property, 406 Lee Avenue
12. Garment Shop, 414 Lee Avenue
13. Frazier Property, 405 Lee Avenue
14. Duplex Property, 408/410 Lee Avenue
15. Kellum Property, 412 Lee Avenue
16. Dabney/Smith Property, 215 North Jackson
17. Cooper Property, 409 North Jackson
18. Larry and Carol Wright, 305 North Jackson

BorgWarner acted under the continuous guidance and direction of the MDEQ with respect to delineation activities at the residential and commercial properties adjoining the KEC plant. Split samples were analyzed and QA/QC procedures were implemented by two laboratories experienced with polychlorinated biphenyl analysis. Samples were frequently split with on-site MDEQ representatives for MDEQ's independent analysis, which to our knowledge consistently correlated with BorgWarner's on-site and off-site laboratory analytical results.

The delineation activities were conducted utilizing the "US EPA, Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual," May 1996 (EISOPQAM), sampling and analytical protocols. A copy of the work plan with procedures used in the field and applicable sections of the EISOPQAM are attached to this report for reference purposes.

Upon completing the delineation activities, BorgWarner compiled and submitted the analytical results on October 2, 2000 to MDEQ and US EPA, Region IV. Subsequently, BorgWarner began to schedule the remediation of residential and commercial properties adjacent to the KEC plant and along Jackson and Lee Avenues for which access was granted with the assistance of MDEQ and City of Crystal Springs Mayor Webb and where an attorney and/or an independent consultant were not involved in performing conflicting sampling activities.

2. Remediation of Residential Properties

On October 16, 2000 BorgWarner initiated remediation activities at the **Medical Center and the Dabney/Smith properties**, which are adjacent to the KEC plant. **Remediation of the Newman Duplex, on Lee Avenue, began on November 30, 2000. Remediation of these properties involved excavation and disposal of all soil containing 1.0 part per million (ppm) or greater of PCBs in accordance with MDEQ's established clean-up criteria for residential properties. All soils containing greater than 1 ppm PCBs but less than 50 ppm PCBs were profiled and disposed of at the BFI's "Little Dixie" Subtitle D Landfill in Madison County, Mississippi after MDEQ and US EPA, Region IV approvals were obtained.**

Following excavation, all excavated areas were sampled to confirm that impacted soil had been removed. In correspondence regarding disposal requirements, Craig Brown of US EPA, Region IV, stated that the excavated soils did not meet the definition of "PCB remediation waste." Under this definition, the remediation activities fell under the management criteria and guidelines set by MDEQ. As a result, the remediation and confirmation of clean-up standards established by MDEQ guidance were adopted and implemented in all of BorgWarner's residential remediation activities. A grid with ten-foot (10) sampling point centers was used to confirm that impacted soils had been removed at each site.

The remediation of the Dabney/Smith, the Medical Center and the Newman duplex property resulted in the removal of 1400 tons of soil, which was disposed of at the BFI "Little Dixie" Subtitle D Landfill and replaced with 1500 tons of certified clean soil. During the remediation activities, the on-site laboratory analyzed 324 soil samples in the month of November and the fixed-base laboratory analyzed 32 quality control samples.

Vegetation, such as live oak trees, was treated with specialty equipment for maximum protection and to minimize damage to the root systems. Soil surrounding the live oak tree roots was removed using an "Air Shovel"[™], a unique technology adopted specifically for this purpose. The Air Shovel[™] uses a pressure spray to dislodge soil from around the roots while a vacuum system removes the soil and water by vacuuming into a tank. This method of soil removal has performed effectively with minimal damage to the tree's root system as was confirmed by the landscaping contractor and arborist. However, this process, regardless of its effectiveness, is very tedious and as a result only the tree on the Dabney/Smith property was completed during the second half of November. One other live oak tree, located on the Medical Center property, remains to be treated in a similar fashion and is scheduled for January 2001.

Landscaping and replacement of structures (sheds, car ports, etc.) on both the Medical Center and the Dabney/Smith properties are continuing and will most likely be completed by the end of December 2000. Both properties have been surveyed and the fence between the Dabney/Smith and Medical Center properties is currently being re-installed. Landscaping has been completed on the Newman duplex property.

Third party independent sampling activities commissioned by the Nutt & Associates Law Firm have interfered with planned remediation activities along Lee Avenue, specifically at the Frazier's, Edward's, and Kellum's properties. The Garment Shop is a more complicated matter for two reasons. First, the impacted soil at the Garment Shop is located at the property line between it and the Kellum residence and second, the Kellum elm tree roots extend to the Garment Shop property itself. BorgWarner has filed a Freedom of Information Act request to MDEQ in an effort to obtain a copy of the recently submitted report generated by these independent parties.

BorgWarner, after its evaluation of the sampling results and data contained within the third party report, will begin discussions with the attorney(s) representing each resident (mentioned above) along Lee Avenue in an attempt to resolve the matter, including confirmation that all sampling results have been disclosed, and whether further sampling is necessary, and confirm access to then remediate those properties. BorgWarner also plans to keep MDEQ apprised of any developments and any progress or if no progress is being made with the attorney(s) involved.

BorgWarner will schedule delineation activities for the Gas Station, which is at the corner of Lee Avenue next to the Garment Shop, Mayor Webb's residence and the drainage pathway to the south. BorgWarner will inform MDEQ of the timing for those activities.

3. Drainage Channel Properties

Beginning on October 30th through the end of November, BorgWarner collected and analyzed soil samples from nine properties situated along the drainage channel leading from the north side of KEC's plant site to Lake Chautauqua. The properties were:

1. Sojourner Property, 111 M^{rs}Pherson Street
2. Weathersby Property, 101 Forest Street
3. Robert Williams Property (Lonnie Williams' residence), 103 Forest Street
4. Flossie M^{rs}Murray Property (Ralph Williams residence), 104 Forest Street
5. Ralph Williams Rental Property, 107 Forest Street
6. Richard Williams Property, 102 Forest Street
7. Roberta Fitzgerald Estate Property, (R.P Edwards point of contact) 108 Tucker Street
Property currently is being rented to the Kendrick family.
8. Welch Property, 501 Camp Street
9. Orister Harris Property, 311 West Railroad Avenue

A total of 650 soil samples was collected from these properties and analyzed by the on-site laboratory. The fixed-base laboratory analyzed an additional 65 samples for confirmation and quality control purposes. These preliminary assessment activities were conducted in the same manner as the Kuhlman plant preliminary site assessment and the KEC plant adjacent residential properties; and utilizing the "EPA, Region IV Environmental Investigations Standard Operating

Procedures and Quality Assurance Manual", May 1996 (EISOPQAM), **sampling and analytical protocols.**

Preliminary results available at this time indicate that six of the nine **properties** that were sampled will require certain remediation. Four properties, including the **Sojourner, Williams' rental, Harris and Welch properties**, will require remediation under the MDEQ **guidelines** since the highest concentrations detected are less than 50 ppm. Two properties, including the **M^cMurray and R. P. Edwards properties**, have soil with PCB concentrations **greater than 50 ppm** and therefore will require remediation under the TSCA rules. **The following is a list of properties where concentrations greater than 1.0 ppm PCB were detected as well as the highest detected concentration on each property:**

<u>Property</u>	<u>Highest Detected Concentration</u>
Sojourner	2.6 ppm
Williams rental	30.0 ppm
Harris	1.2 ppm
Welch	8.4 ppm
M ^c Murray	70.0 ppm
R. P. Edwards	51.0 ppm

Data from this sampling event are being evaluated and once quality control measures are completed the data will be tabulated. Site-specific reports containing collected data, maps of sampling locations, and work plans for remediation, if required, for each individual site are also being prepared and will be submitted to MDEQ and US EPA, Region IV by January 12, 2001.

It is anticipated that additional sampling will be required along the drainage channel. Several undeveloped properties, either abutting the drainage channel or through which the drainage channel runs, will be sampled to delineate the extent of possibly impacted soil and determine the potential for future runoff to Lake Chautauqua. The Department will be kept apprised as to the timing for this additional investigation and sampling activity.

4. KEC Plant

After an initial phase of sampling in the areas identified by KEC's construction activities and the related equipment decontamination zone, BorgWarner conducted further, substantial sampling activities in the south and north parking lot areas as well as the former above ground storage tank area. These delineation activities, other than any possible data gaps, have been completed. The results are currently being tabulated and compared for correlation purposes between the on-site and off-site laboratories, prior to being issued to MDEQ. Should any data gaps exist, BorgWarner will conduct further sampling activities.

This additional data will be incorporated as an addendum to the *Preliminary Site Assessment Report*, submitted to MDEQ in July 2000. Comments to the *Preliminary Site Assessment Report* made by MDEQ will also be addressed and included in the addendum submittal. It is anticipated that the addendum report will be submitted to MDEQ by February 12, 2001.

5. Lake Chautauqua

BorgWarner intends to consider delineation of the sediments at Lake Chautauqua, ecological assessment, and surface water sampling, to the extent appropriate after receipt of the pending "Task Force" report. These activities will not begin on any great scale until the Task Force report is evaluated.

6. Groundwater Delineation

BorgWarner intends to delineate the nature and extent of any groundwater contamination relative to the KEC plant. Groundwater delineation will take place at the time that remediation at the KEC plant commences. It is critical that the protective cover at the KEC plant site is not disturbed for the time being and that the groundwater investigation is addressed when BorgWarner is actively remediating on the KEC plant property. This approach will ensure that sediments from the KEC Plant do not travel to the drainage channel and Lake Chautauqua.

BorgWarner remains dedicated to continuing its open communication with MDEQ and US EPA, Region IV and looks forward to the meeting with MDEQ and City of Crystal Springs Mayor Webb and other Crystal Springs representatives on January 17, 2001 (at 8:30 a.m.) to further discuss any of the above and share its plans for future activities.

Should you have any questions or comments, please contact me directly at (810) 497-4503 at your earliest convenience.

Very truly yours,



Anastasia Hamel
Director, Environmental Programs
BorgWarner Inc.

Ms. Gretchen Zmitrovich MDEQ
December 20, 2000
Page 7 of 7

Attachments:

1. Work Plan – Preliminary Assessment and Remediation
2. Craig Brown, US EPA, Region IV letter to BFI

cc: J. Banks, MDEQ
T. Russell, MDEQ
K. Dowell, Esq., MDEQ
C. Brown, US EPA Region IV
H. Webb, Mayor Crystal Springs
Laurene H. Horiszny, Esq.
Robert Martin, MSGA
Thomas D. Lupo, Esq.
Scott E. Schang, Esq.
Mickey Crockett, KEC
Al Thomas, KEC

**WORKPLAN FOR THE PRELIMINARY
ASSESSMENT AND REMEDIATION OF PCB CONTAMINATION IN SOIL
KUHLMAN ELECTRIC CORPORATION FACILITY
AND RESIDENTIAL COMMERCIAL PROPERTIES
IN CRYSTAL SPRINGS, MISSISSIPPI**

As established by the Mississippi Department of Environmental Quality (MDEQ) guidelines in connection with this project, all work related to the preliminary assessment of the extent of contamination at the Kuhlman Electric Corporation (KEC) facility and work related to the preliminary assessment and confirmation of remedial actions at KEC adjacent residential/commercial properties and residential properties along the drainage channel (leading from the north side of KEC's facility to Lake Chautauqua) has been performed in accordance with the *Environmental Protection Agency (EPA), Region IV "Environmental Investigations, Standard Operating Procedures and Quality Assurance Manual", May 1996 (EISOPQAM)*.

Copies of relevant and applicable portions of the EISOPQAM are maintained on site during all field activities and all field personnel are trained in its implementation. Remedial action confirmation sampling grids were established using *MDEQ Guidance Document, Verification of Soil Remediation, Environmental Response Division, Waste Management Division, April 1994, Revision 1*. Specifically, sampling grids were based on Part 2-Medium and Large Site Soil Cleanup Verification, "Establishing Grid Interval."

Field operations were performed under the site-specific Health and Safety Plan guidelines. Modified Level "D" Personal Protective Equipment (PPE) was utilized by all personnel working within the investigative area.

Sampling Objectives

The soil-sampling objective is to establish the vertical and horizontal **extent of contamination** resulting from historical facility operations. In the KEC facility case, the **soil-sampling objective** included historical use of polychlorinated biphenyl (PCB). All **sampling procedures** were conducted in accordance with the US EPA, Region IV EISOPQAM. **Sampling procedures** included the collection of soil samples on a twenty foot triangular grid, **where possible**, at discreet depth intervals. Surface and subsurface soil samples were collected **using GeoProbe® MacroProbe™** direct push sampling equipment. The GeoProbe® system **uses a hydraulically driven hammer** to advance a hollow, split-barrel sampler to the desired **depth**. The sampler contains an acetate liner in which a sample of the cored soil is retained. The **MacroProbe™** corer retains a 1.25-inch diameter continuous 4 feet in length core sample. **Once sampling is completed**, the direct-push boring holes are backfilled with bentonite chips in **unpaved areas**, and with grout in parking lots and other paved areas.

Throughout the delineation activities each direct-push boring was sampled at 0.5-3.0 feet below ground surface (bgs) and at 3.0-6.0 feet bgs. Selected borings were completed to depths varying from 8-12 feet bgs and sampled in these deeper intervals to evaluate the vertical distribution of **contaminants**.

Additional sampling of dust, stream and drainage ditch sediments, surface water and ground water were collected, as warranted, in accordance with applicable EISOPQAM guidelines.

Analytical Methods

Samples that were collected were analyzed for PCBs by the on-site mobile laboratory, Environmental Chemistry Consulting Services (ECCS) of Madison, Wisconsin. Initially soil samples were also analyzed for chlorinated benzenes until data confirmed that chlorinated benzene contamination is not at issue in samples with low concentrations of PCBs (generally <20 ppm). At least 10% of all samples were split and sent to a fixed-base laboratory, Paradigm Analytical Laboratories, Inc. (PAL) of Wilmington, North Carolina for analysis of the same parameters as for the on-site mobile laboratory to corroborate the results of laboratory analyses for quality control and quality assurance measures. Both the on-site and fixed-base laboratories used the same standard EPA approved analytical methods. PCBs were analyzed by Modified Environmental Protection Agency (EPA) Method 8080/81 and chlorinated benzene compounds were analyzed by EPA Method 8270. Volatile organic compounds (VOCs) were analyzed by EPA Method 8260 for samples suspected of being impacted by other industrial processes solvents unrelated to PCBs. Select soil samples were also analyzed for silver, by EPA Method 6010B, and cyanide, by EPA Method 9012A.

Surface water samples were analyzed by PAL for PCBs using EPA Method 8080/81. Semivolatile organic compounds (SVOCs) were analyzed by EPA Method 8270, Volatile Organic Compounds (VOCs) were analyzed by EPA Method 8260, silver by EPA Method 6010B, and cyanide using Standard Method 4500 Cn-E. Perched ground water was analyzed for PCBs, SVOCs, and VOCs by the same methods as indicated above for surface water.

Quality Control

The following is the list of key personnel dedicated to this project:

Project Manager:

Mr. Robert Martin, Martin & Slagle GeoEnvironmental Associates, LLC

Duties:

Responsible for management of project **including** all field coordination efforts.

Field Sample Custodian:

Mr. Robert Martin, Christine Slagle, Martin & Slagle GeoEnvironmental Associates, LLC

Duties:

Maintaining custody of samples, completing **sample** labels, Chain-of-Custody record.

Field Team Leader:

Mr. Robert Martin, Martin & Slagle GeoEnvironmental Associates, LLC

Duties:

Responsible for all activities related to the collection of samples.

Samplers:

Tim Fitzpatrick, Christine Slagle, Robert Martin

Duties:

Individuals responsible for the actual collection of samples.

Laboratory Sample

Custodian:

Mr. Michael Linskens, ECCS

Mr. Nicolas Schertz, ECCS

Ms. Erin Staagard, PAL

Duties:

Individuals responsible for accepting custody of samples from the field sample custodian.

Quality Assurance Objectives for Data

Data for this project is being generated by two separate entities. The on-site data is generated by ECCS in their mobile laboratory. The fixed-base laboratory, PAL in Wilmington, North Carolina, generates the analytical results for the split samples.

The data quality objectives are pre-defined for the ECCS data in that Mississippi considers all mobile lab data screening level data. ECCS uses the same equipment and methodology as the fixed-base laboratories with the exception of the mini-extraction modification. Mobile laboratory data is validated by comparison of a minimum of 10% split samples with PAL. Following this procedure, the data qualifies as screening data with definitive confirmation under US EPA, Region IV EISOPQAM guidelines.

All samples sent to PAL were collected as follows: The sample was transferred from the GeoProbe® clean, unused, acetate sample liner into the labeled 4 ounce (oz) amber glass soil jar. The sample jar was then transferred to the mobile lab where ECCS personnel homogenized the sample prior to taking an aliquot for analysis. Due to the limited sample volume required by the ECCS mini-extraction and the low volatility of the chemicals of concern, the initial sampling jar was resealed (after ECCS personnel removed the amount of sample needed for their analysis), refrigerated and then sent to PAL; meaning PAL analyzed the sample from the exact same sample jar as ECCS.

Equipment rinsate samples were collected for evaluation of cross-contamination potential from ineffective decontamination procedures. These were prepared by pouring distilled water over the sampling equipment after decontamination and collecting and preserving the rinsate that was generated. Equipment rinseate samples were collected in accordance with the EPA, Region IV EISOPQAM guidelines.

Field blank samples were collected by filling sampling containers that were kept in the transition zone with distilled water. Field blanks determine the presence of ambient contaminants that may not be directly related to concentrations of contaminants in the sample media.

Blind duplicate soil samples were collected for analysis and sent to both laboratories. Blind duplicates were collected by homogenizing an aliquot of sample in a disposable plastic container and splitting the homogenized sample into two containers. After ECCS took their aliquot of these samples, the remainder of the sample was sent to PAL for analysis.

SAMPLE CONTROL AND FIELD RECORDS

Sample Identification

All samples sent to PAL for analysis conform to the labeling requirements under section 3.2.1 of the EISOPQAM.

8.3.1 Chain of Custody Procedures

Samples were logged as they were collected from the geoprobe liners. Date, time and sample lithology were recorded on each log. Samples were then transferred to 4 oz amber glass jars and the jars transferred to a small sample cooler, which was taken to the mobile lab by field personnel in charge of sample handling. Sample identification (ID), date and time sampling occurred were recorded in the field logbook before transferring the samples to the mobile lab. Upon arrival at the mobile lab, the samples were transferred to the ECCS sample custodian who logged each sample on ECCS chain of custody forms. Each sample was assigned a unique ECCS internal ID number for tracking purposes. After analysis, the samples were transferred to either a sample refrigerator in the mobile lab or stored in coolers with ice until they were either shipped to PAL for confirmation analysis or readied for disposal. For samples sent to PAL, a new chain of custody form was completed by field personnel in charge of sample handling.

8.3.2 Field Records

Field records were kept in accordance with procedures and guidelines specified in section 3.5 of EISOPQAM.

8.4 Analytical Procedures

For analysis of samples in the field, ECCS used EPA Method 8082m, modified for quantitation of chlorinated benzenes and the mini extraction procedure.

PAL used EPA Method 8082 for quantitation of PCBs. For chlorinated benzenes, it used EPA Method 8270. While Method 8270 does not cover all the chlorinated benzenes, it provides confirmation of the ones it does detect and has the added benefit of supplying an analysis of a broad range of other semivolatile organic compounds.

For the analysis of cyanide EPA Method 9012A was employed and for silver EPA Method 6010B.

Selected samples were analyzed by EPA Method 8260, primarily to confirm that volatile organic compounds were not present in the samples or part of the site contaminants.

8.5 Laboratory Quality Assurance/Quality Control (QA/QC)

QA/QC procedures for both labs were found to be virtually identical. Summaries of each laboratory procedures follow.

ECCS:

- ◆ Continuous calibration standards analyzed every ten samples or less and at the end of a run.
- ◆ Blank samples and laboratory control samples (LCS) analyzed every twenty samples or less with a minimum of one per day.
- ◆ Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples analyzed every twenty samples or less with a minimum of one per day.

PAL:

- ◆ Continuous calibration standards analyzed at least once every 12 hour ~~shift~~ **plus a minimum** of every 20 samples gas chromatography/mass spectroscopy (GC/MS) **criteria** follows method specific tuning requirements per EPA Method 8270.
- ◆ Blank and LCS samples analyzed every 20 samples or less with a **minimum of one per day**.
- ◆ MS/MSD samples analyzed every 20 samples or less with a **minimum of one per day**.

8.6 Data Validation and Reporting

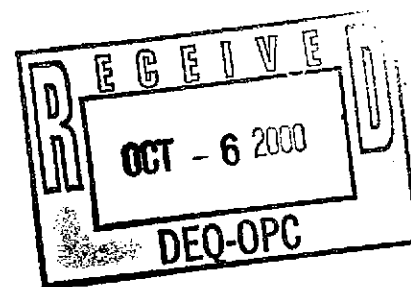
As discussed in section 8.2, the primary validation of the ECCS data was **accomplished** through comparison with the data from PAL.

Since Hexachlorobenzene and 1,2,4-Trichlorobenzene are the only chlorinated benzenes on the standard Method 8270 list, these two compounds and total PCBs were the **parameters tracked** for the data validation procedure.

Overall, the correlation to this point of the investigation and remediation activities has been excellent with the majority of sample splits showing Relative Percent Differences (RPDs) of less than 100. Considering the inherent variability of soil as a matrix, achieving 93% acceptable split data spanning several orders of magnitude of concentration serves to justify the use of the on-site data as definitive quality.

October 5, 2000

Ms. Gretchen Zmitrovich
Office of Pollution Control
Mississippi Department of
Environmental Quality
Office of Pollution Control
P.O. Box 10385
Jackson, Mississippi 39289-0385



**SUBJECT: Transmittal of Revised Analytical Data Tables for Residences
Kuhlman Electric Corporation
Crystal Springs, Mississippi**

Dear Ms. Zmitrovich:

Attached is one complete set of revised spreadsheets showing analytical results from sampling of soils by Ogden Environmental and Energy Services. The tables were revised based on your review and comments. Results for split samples are being prepared into tables and will be forwarded to you by Monday at the latest.

Please contact me at 828-669-3929 if you have any questions or comments concerning these results.

Sincerely,

Martin and Slagle GeoEnvironmental Associates, LLC

A handwritten signature in cursive script that reads "Robert L. Martin".

Robert L. Martin, P.G.
Project Manager

Cc: Anastasia Hamel, BorgWarner Inc.

Soil and Wipe Sample Results
 Larry Wright Property
 305 North Jackson
 Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)										
Target Analyte	Sample #	HA-4	HA-4	HA-5	HA-5	HA-6	HA-6	HA-7	HA-7	HA-7
	Depth (ft)	0.5	2.5	0.5	0.5	0.5	2.5	0.5	0.5	1.5
	Lab #	123	124	125	125	127	126	129	129	130
PCB as 1260		<0.10	<0.10	<0.10	<0.10	0.10	<0.10	0.11	0.16	<0.10
	Collection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00
	Collection Time	8:39	8:43	8:48	8:48	8:57	8:54	9:05	9:05	10:49
	Injection Date	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/18/00	8/19/00	8/19/00	8/20/00

WIPE SAMPLES (TOTAL UG)					
Target Analyte	Sample #	WWW-1	WWW-2	WWW-3	WWW-4
	Depth				
	Lab #	732	733	734	735
PCB as 1260		<0.50	<0.50	<0.50	<0.50
	Collection Date	8/30/00	8/30/00	8/30/00	8/30/00
	Collection Time	12:55	12:56	12:59	13:00
	Injection Date	8/30/00	8/30/00	8/30/00	8/30/00

Notes:

LOCATION: WWW1: White metal patio table, top surface.
 WWW2: Loveseat bench in backyard, rear surface.
 WWW3: Brick walkway adjacent to patio table and chairs in backyard.
 WWW4: Top section of wooden fence gate leading to backyard.

Soil and Wipe Sample Results
 Larry Wright Property
 305 North Jackson
 Crystal Springs, Mississippi

SOIL SAMPLES (MG/KG)		HA-8	HA-8	HA-9	HA-9	HA-7	DP-689
Target Analyte	Sample #	0.5	2.25	0.5	2.5	0.1	0.1
	Depth (ft)	286	287	288	289	1115	1111
	Lab #						
PCB as 1280		**<2.0	+<0.50J	<1.0	<0.50	1.1*J	0.21
	Collection Date	8/20/00	8/20/00	8/20/00	8/20/00	9/19/00	9/19/00
	Collection Time	10:55	11:04	11:14	11:28	10:20	10:25
	Injection Date	8/20/00	8/20/00	8/20/00	8/20/00	9/19/00	9/19/00

* J Estimated level, due to interference from the presence of Technical Chlordane, DDT, DDD, & DDE.
 ** Lowest detection level possible due to interference from presence of chlordane, DDT, DDD, & DDE.

FILE COPY

OGDEN ENVIRONMENTAL AND ENGINEERING SERVICES

200 South Old Statesville Road
Huntersville, NC 28078
(704) 875-3570
(704) 875-8718 Fax

Mailing Address: PO Box 3142, Huntersville, NC 28070

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Name: Gretchen Zmitrovich

Firm: MOEG

CC: _____

Fax No. _____

Total number of pages including this cover page: 2
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Sender: T. Fitzpatrick Date: 9-20-00

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Date: 11/20/00

Sample Description

MSD #

MS #

Target Analyte	MSD #	MS #	LCS	Blank	305	304	303	413	412	411	410	409	408	407	406	405	404	403	402	401	400	399	398	397	396	395	394	393	392	391	390	389	388	387	386	385	384	383	382	381	380	379	378	377	376	375	374	373	372	371	370	369	368	367	366	365	364	363	362	361	360	359	358	357	356	355	354	353	352	351	350	349	348	347	346	345	344	343	342	341	340	339	338	337	336	335	334	333	332	331	330	329	328	327	326	325	324	323	322	321	320	319	318	317	316	315	314	313	312	311	310	309	308	307	306	305	304	303	302	301	300	299	298	297	296	295	294	293	292	291	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	272	271	270	269	268	267	266	265	264	263	262	261	260	259	258	257	256	255	254	253	252	251	250	249	248	247	246	245	244	243	242	241	240	239	238	237	236	235	234	233	232	231	230	229	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	192	191	190	189	188	187	186	185	184	183	182	181	180	179	178	177	176	175	174	173	172	171	170	169	168	167	166	165	164	163	162	161	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132	131	130	129	128	127	126	125	124	123	122	121	120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1,2,4-TrCB	698	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500																								

J = Estimated
E = Ebroads calibration range

Test Taken 20
Analyzed 19

DP 698 is resample of DP 936 @ Medical Clinic
DP 699 is resample of DP 436 @ Larry Wright's house

FILE COPY

19 pages w/cover

To:
Gretchen Zmitrovich
MDEQ

From:
Tim Fitzpatrick
Ogden Environmental

Gretchen: Following are my field maps - I hope you can read them! Data will follow shortly.

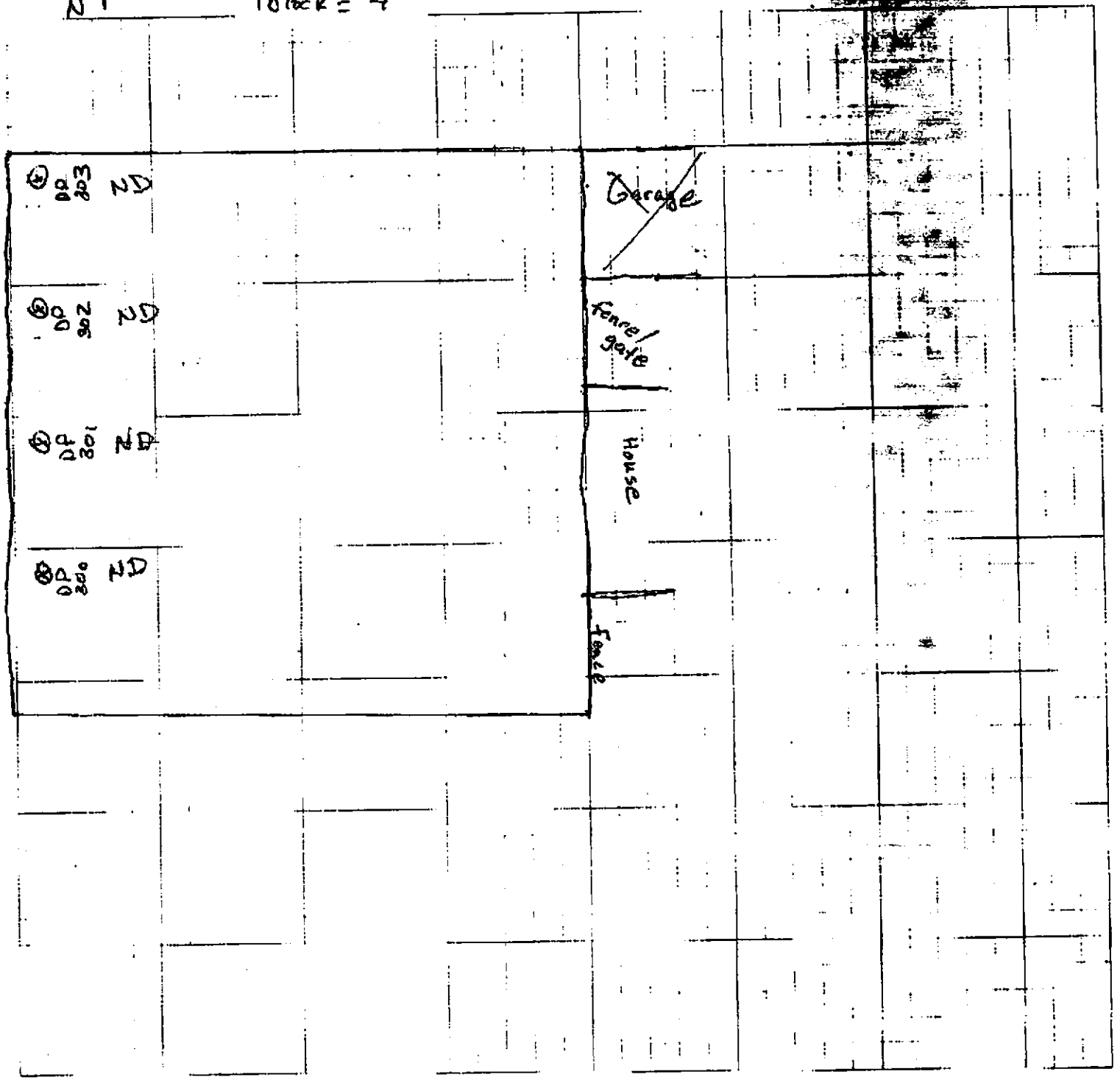
Please call after you receive this fax.

Thanks,
Tim



Job Name: Crystal Springs
Job Number:
Title: Sony Reeves backyard 405 Jackson
Computed by:
Date: 2/16/2000
Checked by:
Sheet: 11

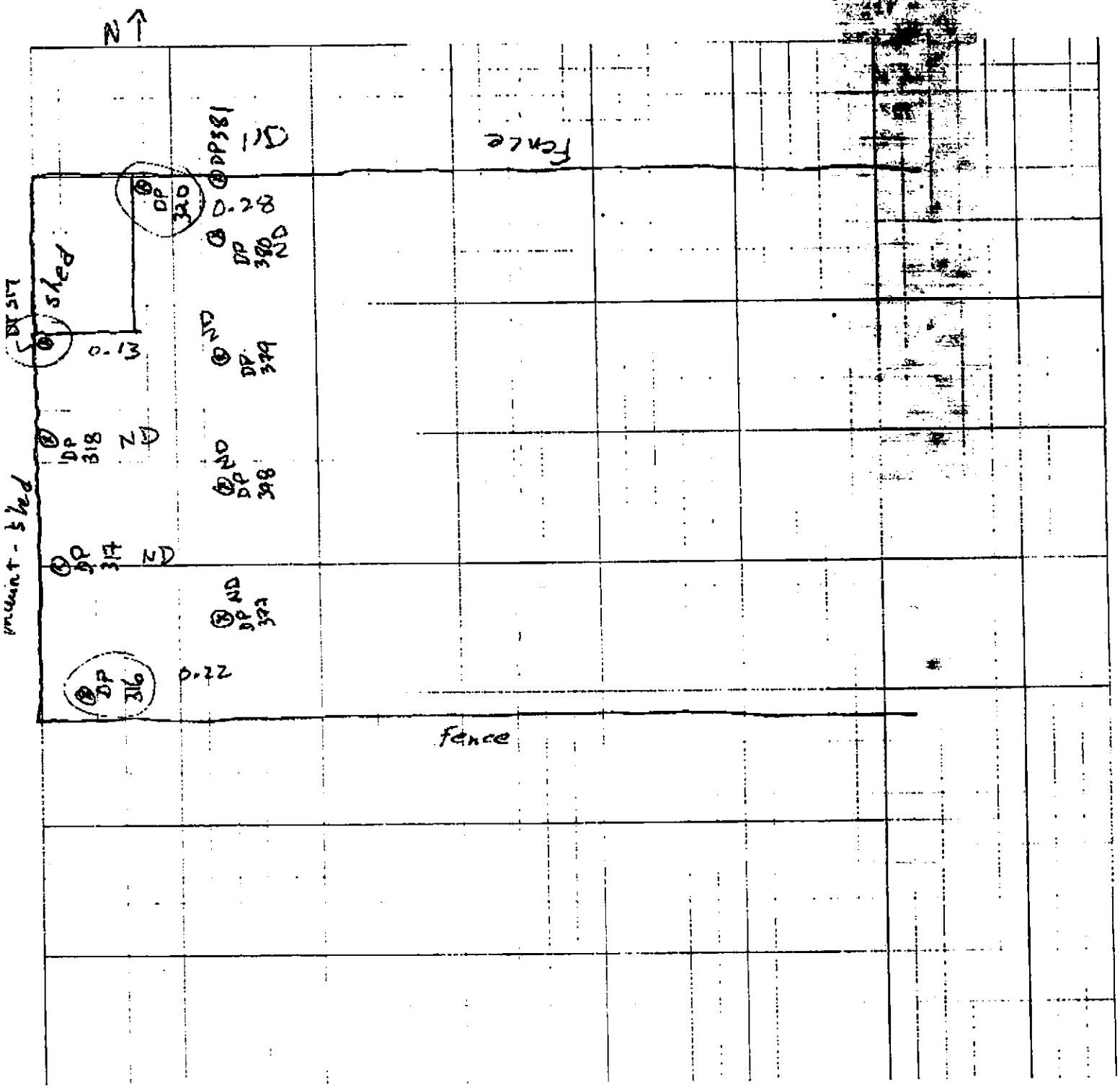
N ↑ 1 block = 4'





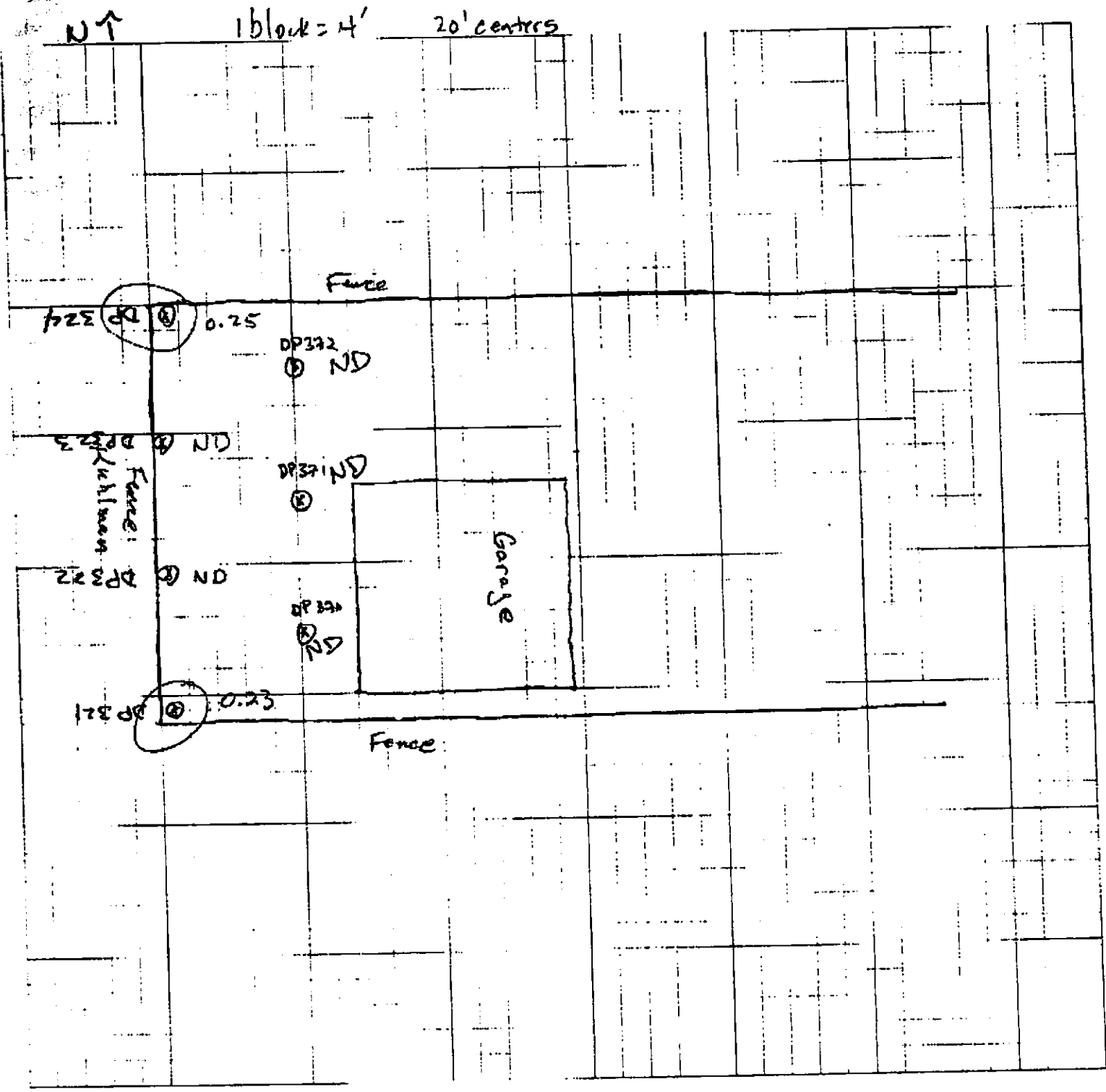
Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson Street, Bright
Computed by: [unclear]
Date: 8-16-2000

1 block = 4'





Job Name: Crystal Springs
 Job Number: _____
 Title: 407 N. Jackson Louie Lang
 Computed by: _____ Checked by: _____
 Date: 8-16-00 Sheet: 4 of: 11





Job Name: Crystal Springs

Job Number: _____

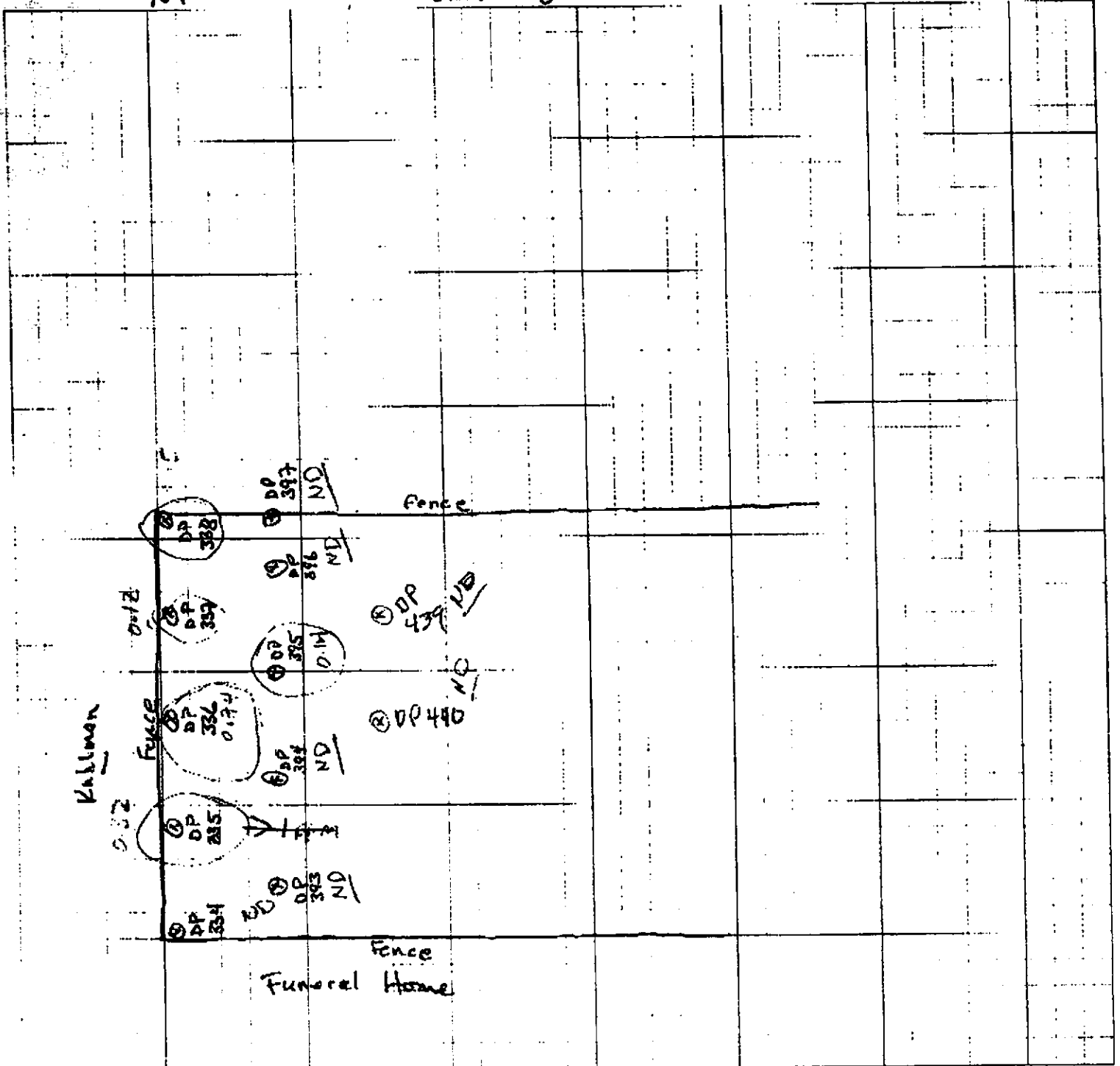
Title: 303 N. Jackson (stringer)

Computed by: _____ Checked by: _____

Date: 8-17-00 Sheet: 6 of 11

NT

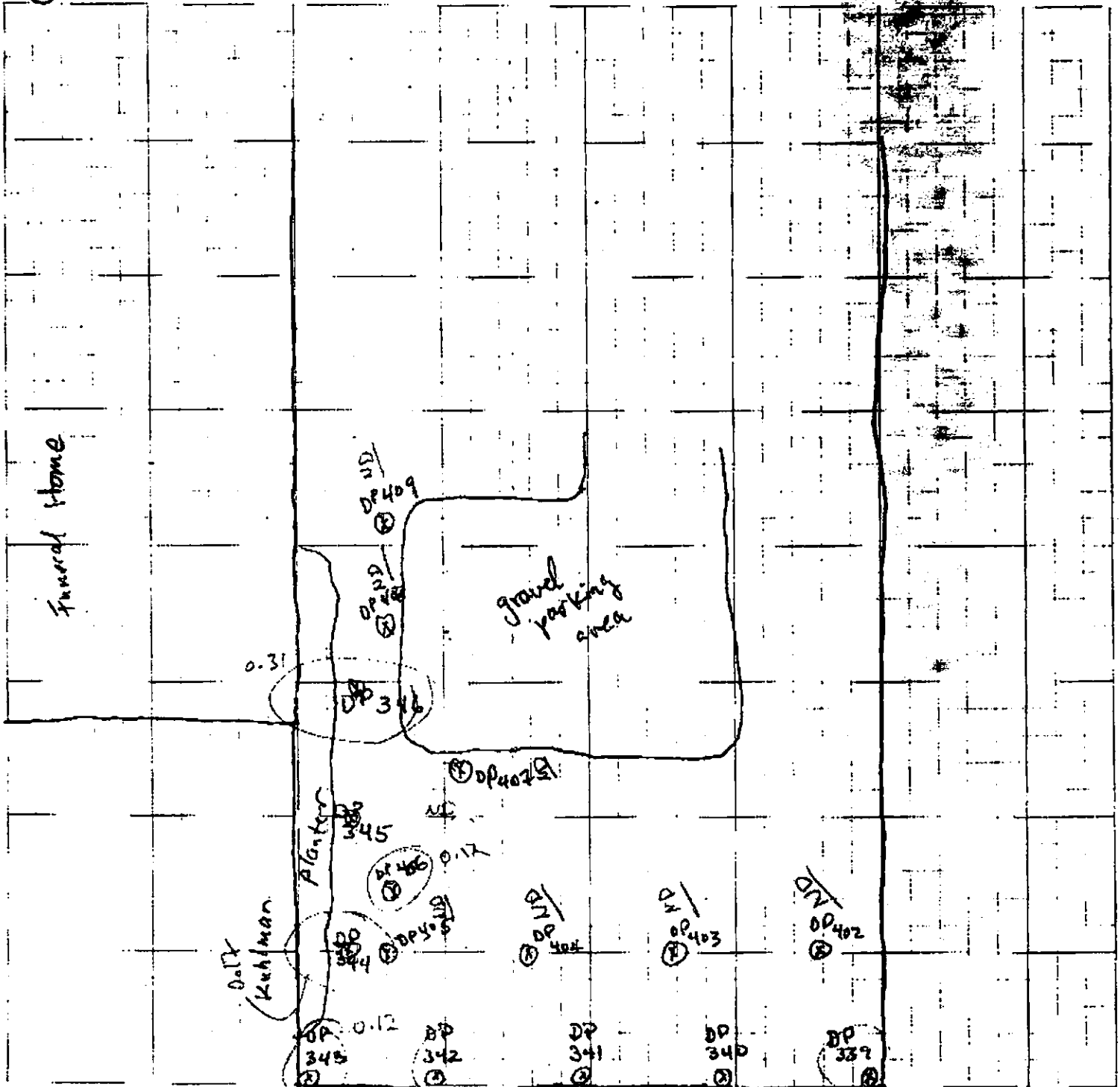
1 block = 5'





Job Name: Crystal Springs
Job Number:
Title: 219 N. Jackson, Pine Bluff
Computed by: TDF
Date: 8-17-00
Sheet: 11 of 11

1 block = 5'



Funeral Home

gravel parking area

Kuhlman
Planter

DP 409

DP 408

DP 342

DP 407

DP 345

DP 406

DP 405

DP 404

DP 403

DP 402

DP 345

DP 342

DP 341

DP 340

DP 339

0.31

0.17

0.12

0.60

Kuhlman

0.25

0.41

2



Job Name: Crystal Springs

Job Number:

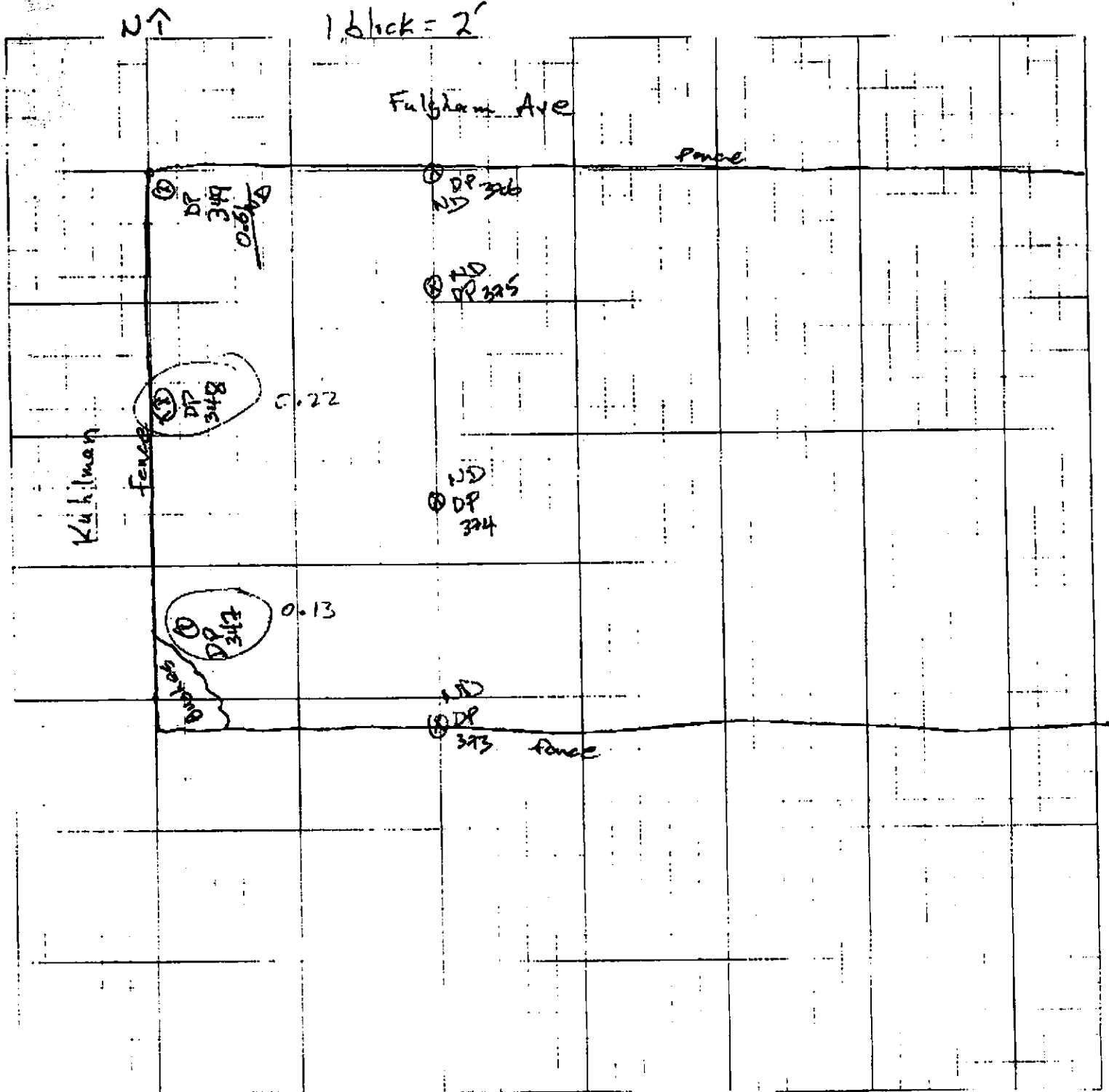
Title: 409 N. Jackson (Amy Cooper)

Computed by: RF

Checked by:

Date: 8-17-00

Sheet: 8 of 11





Job Name: Crystal Springs

Job Number:

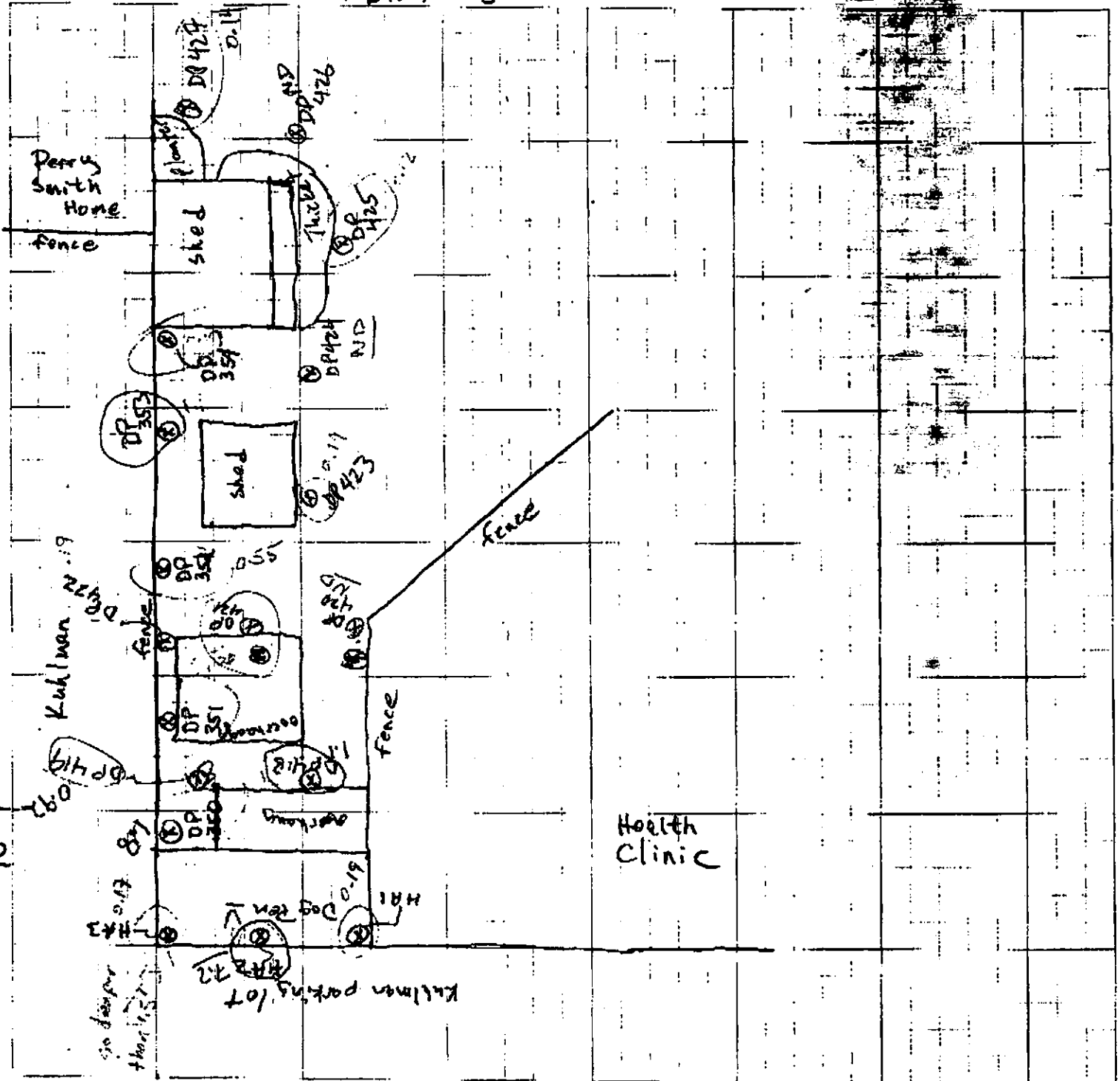
Title: Dabney Home

Computed by: TJE

Date: 8-17-00

Sheet 9 of 11

1 block = 5'





Job Name: Crystal Springs

Job Number:

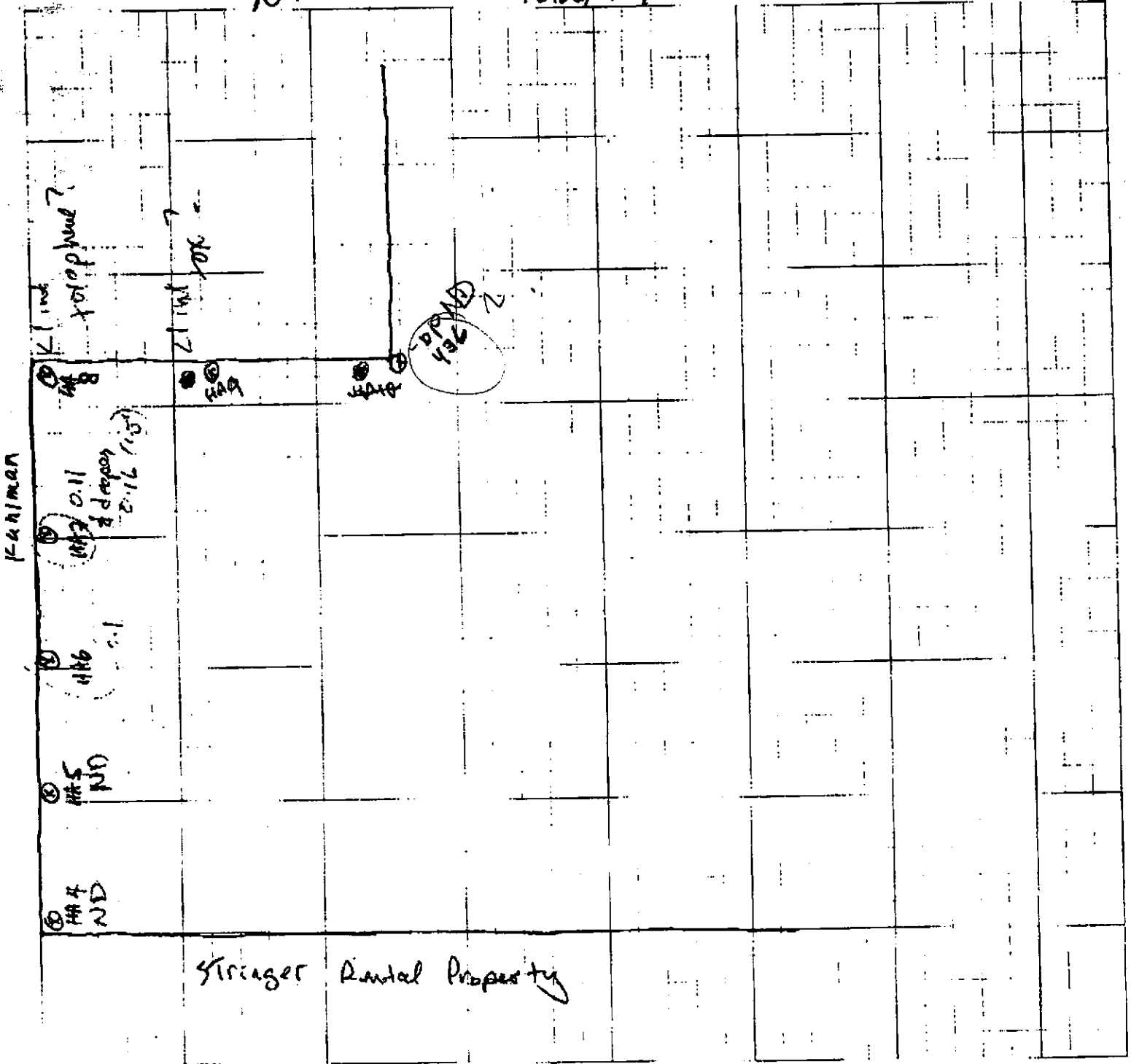
Title: Wright House

Computed by: Checked by:

Date: 8-18-00 Sheet: 10 of 11

NT

1 block = 4'



Stringer Rental Property

Kuhman

NO 1/11/17

NO 2/16/17

NO 1/11/17

NO 1/11/17

NO 1/11/17

NO 1/11/17

NO 1/11/17

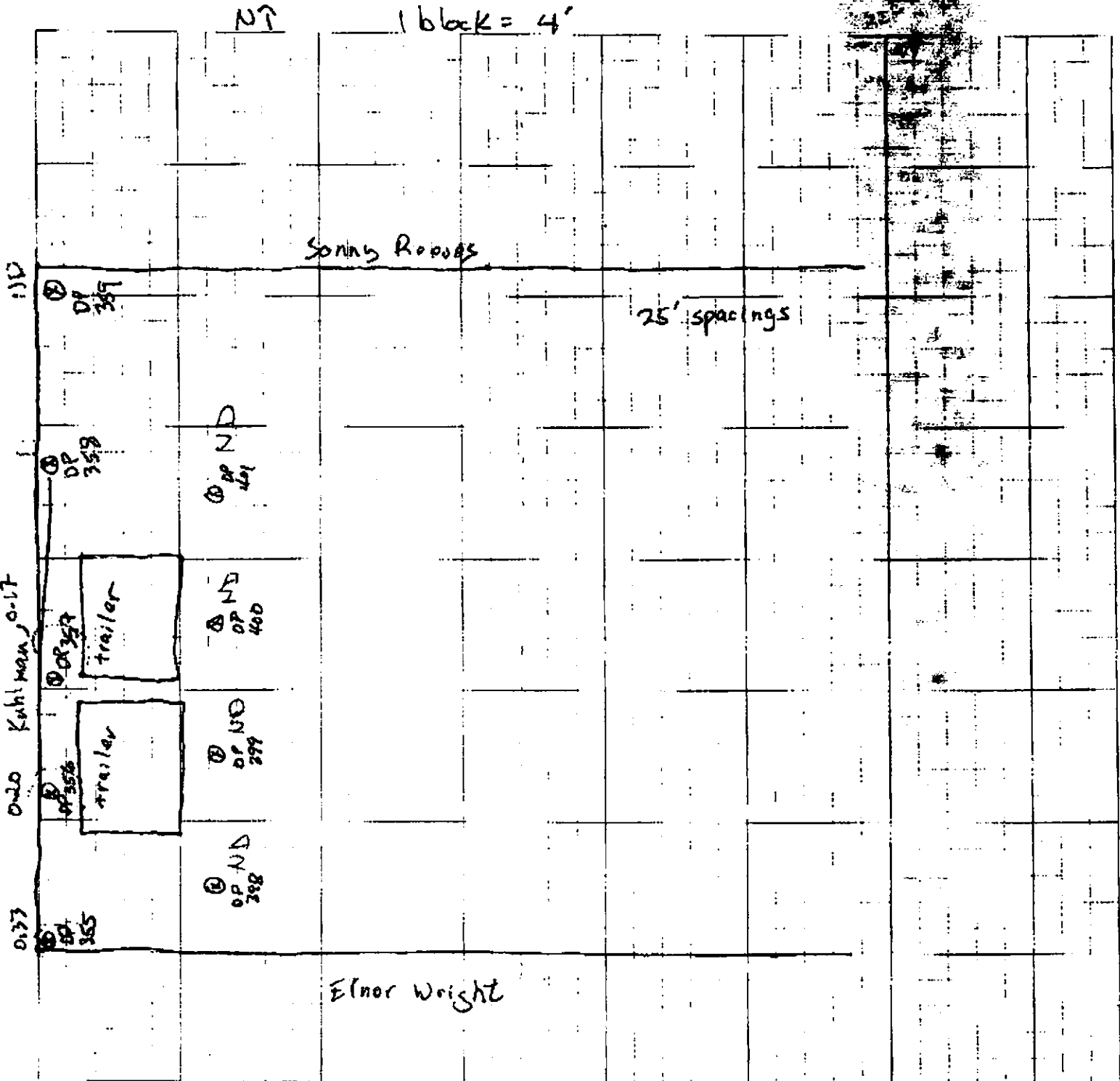
NO 1/11/17

NO 1/11/17

NO 1/11/17



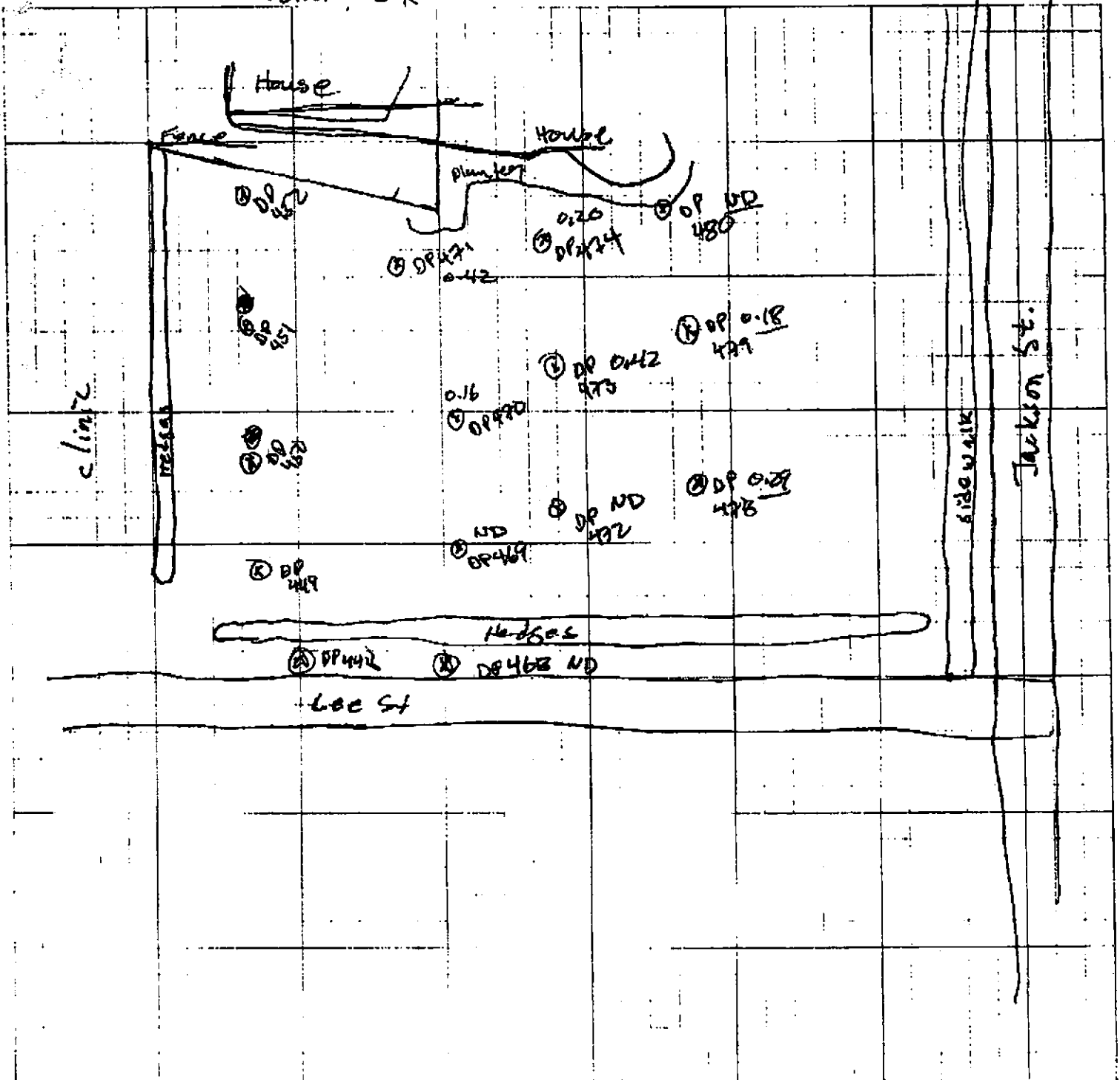
Job Name: Crystal Springs
Job Number:
Title: Harold & Suzanne
Computed by: TBF
Date: 8-18-00





Job Name: _____
 Job Number: _____
 Title: Dabney yard - south side
 Computed by: _____ Checked by: _____
 Date: 8/23/00 Sheet: 12 Of: _____

1 block = 5'





Job Name:

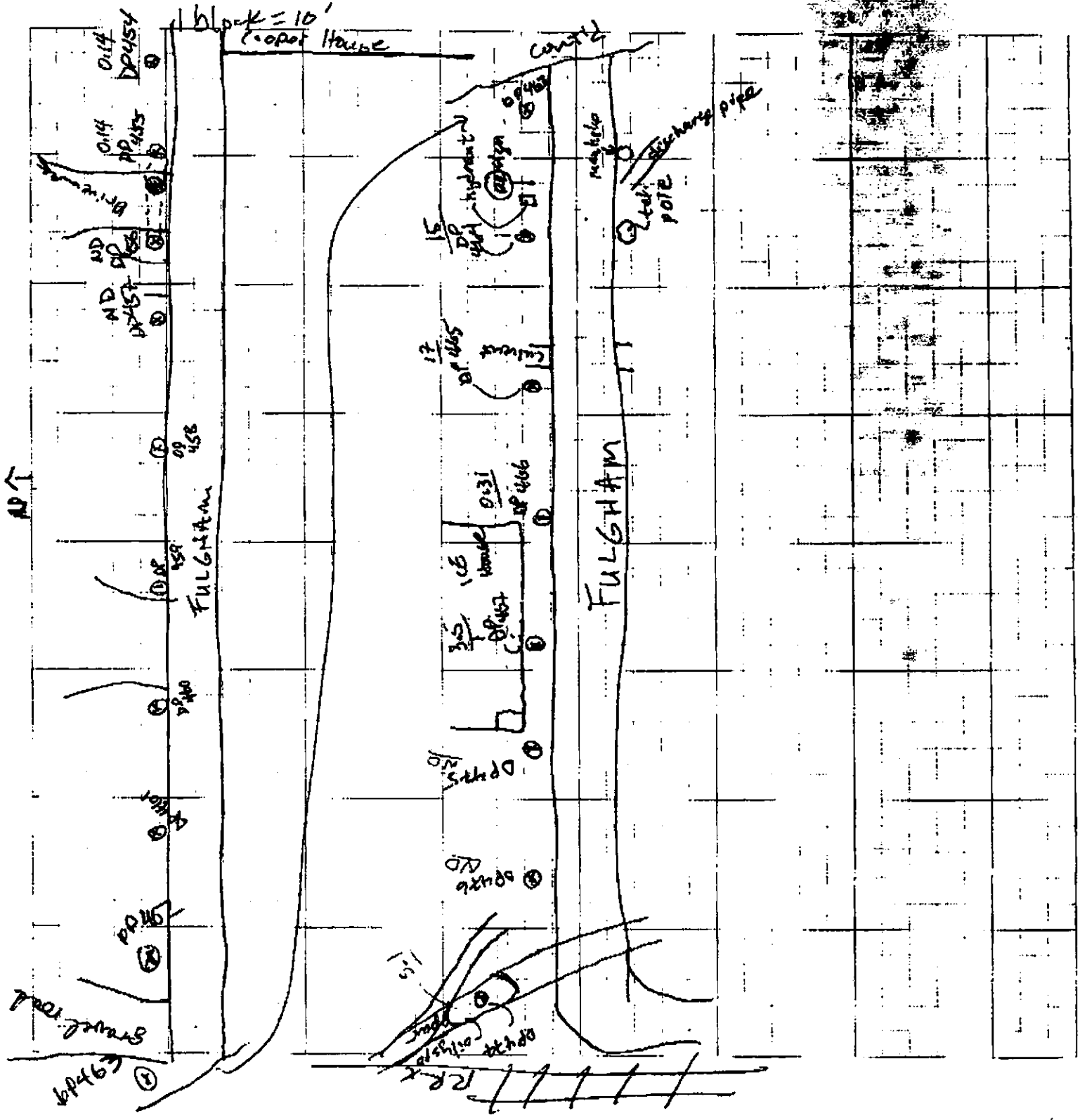
Job Number:

Title: Fulgham Ave

Computed by:

Date:

Checked by: [Signature]
Shaw [Signature]





Job Name:

Job Number:

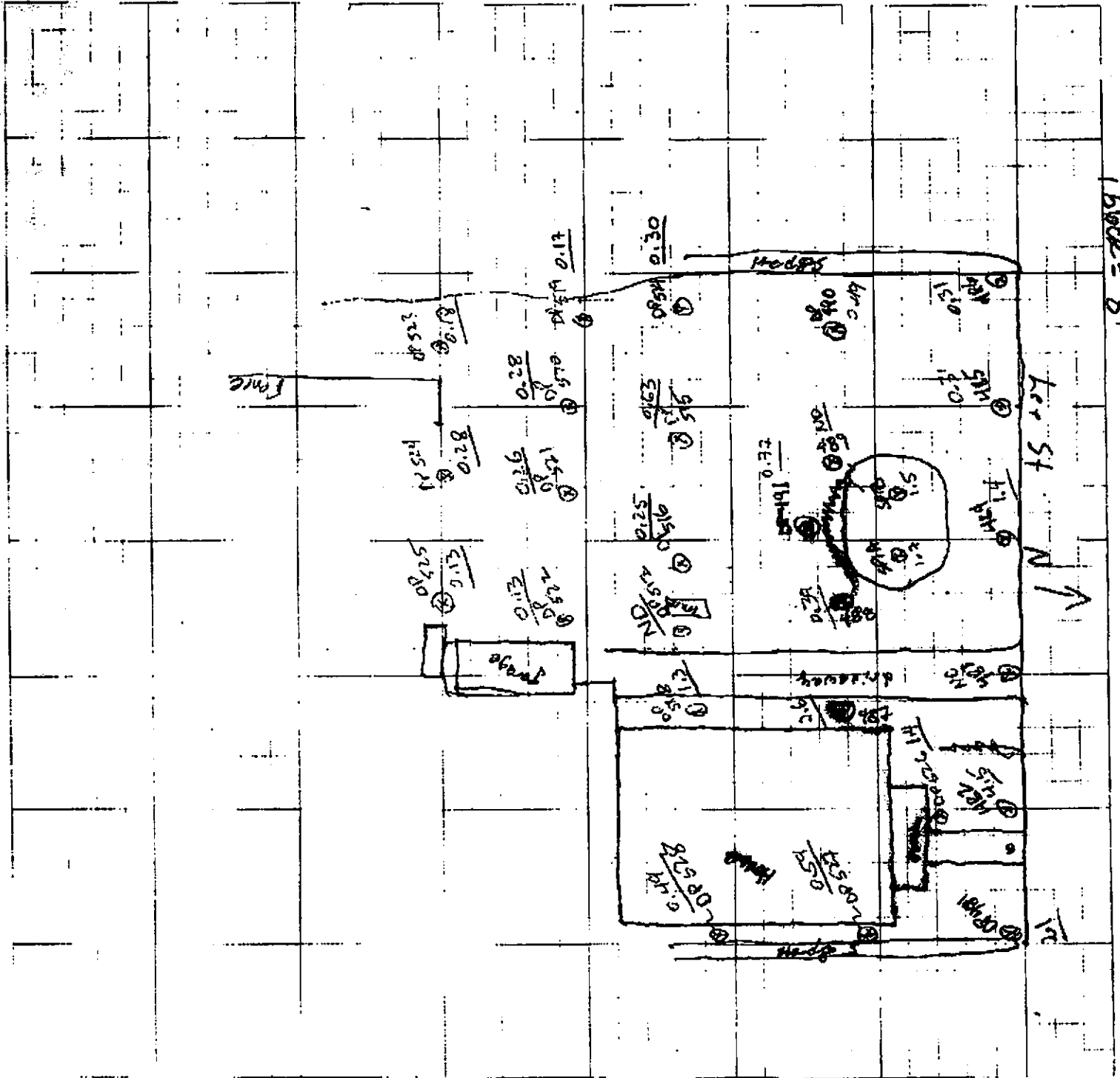
Title: *Edwards property*

Computed by: *TJF*

Checked by:

Date: *8/24/00*

Sheet: *14* Of:





Job Name:

Job Number:

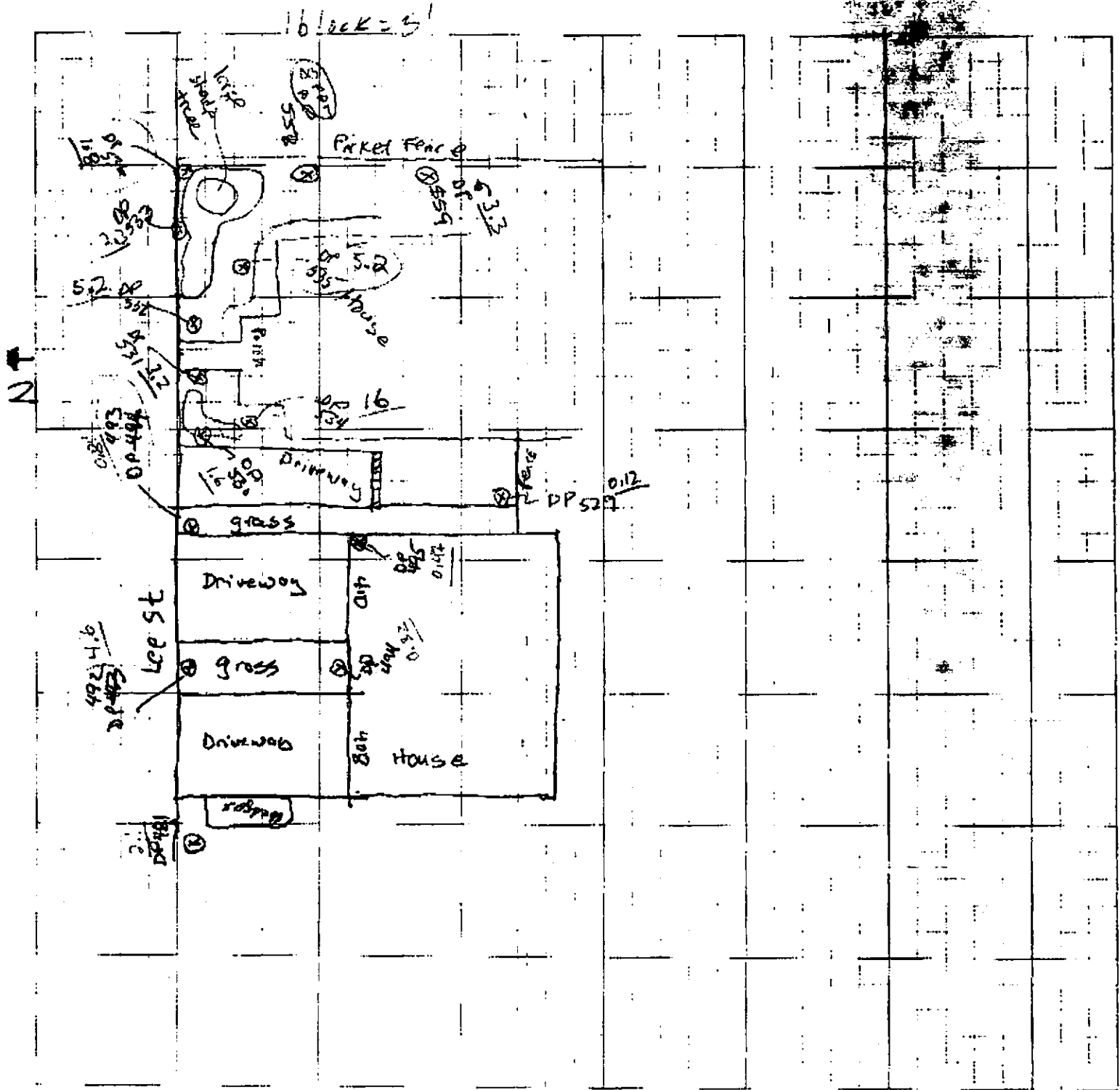
Title: 408/410 Lec 55

Computed by: TDF

Date: 8/24/00

Checked:

Sheet:





Job Name:

Job Number:

Title: Brent Property Leas

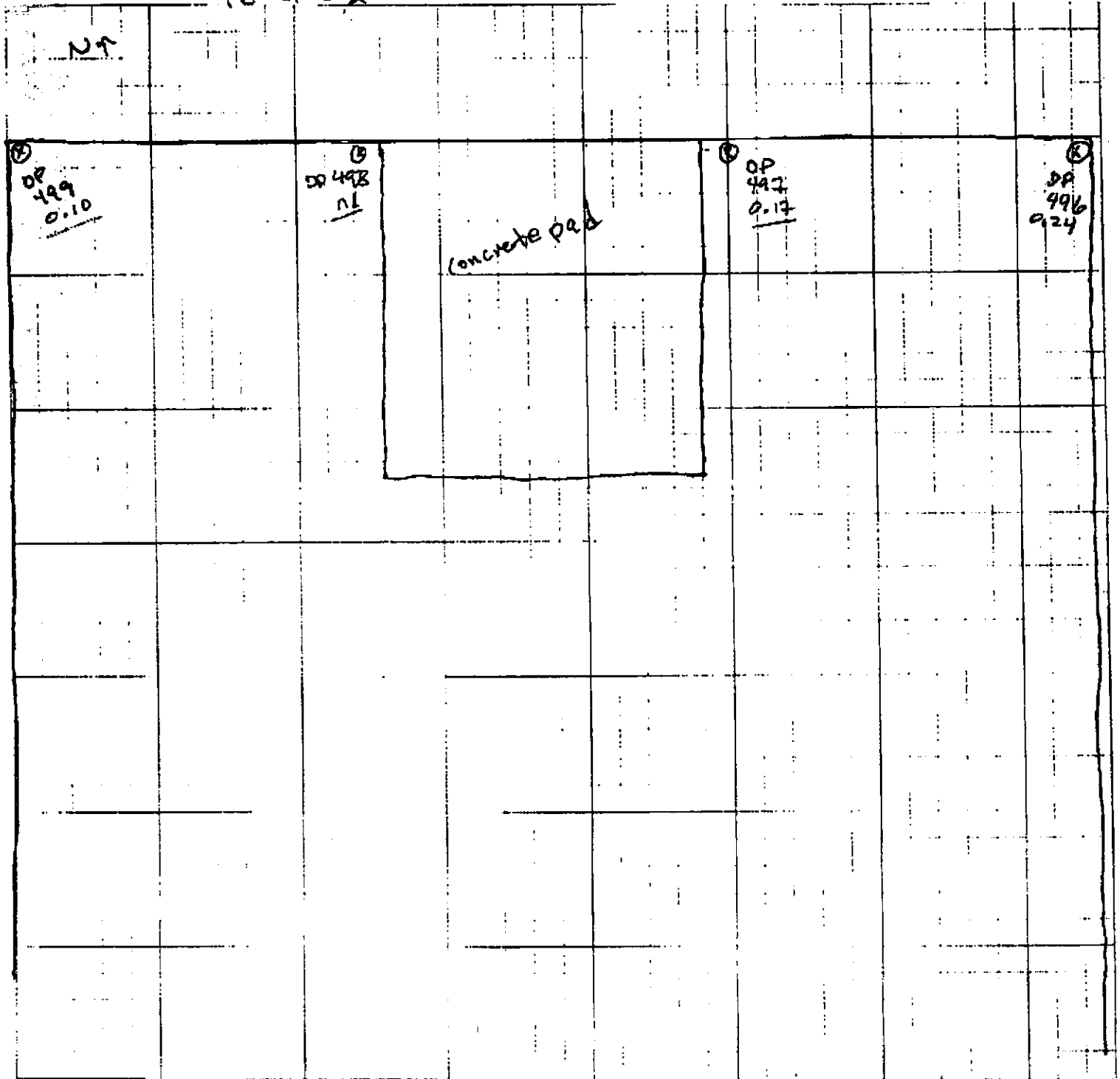
Computed by: JF

Checked by:

Date: 8/24/00

Sheet: 16 Of:

1 block = 2'

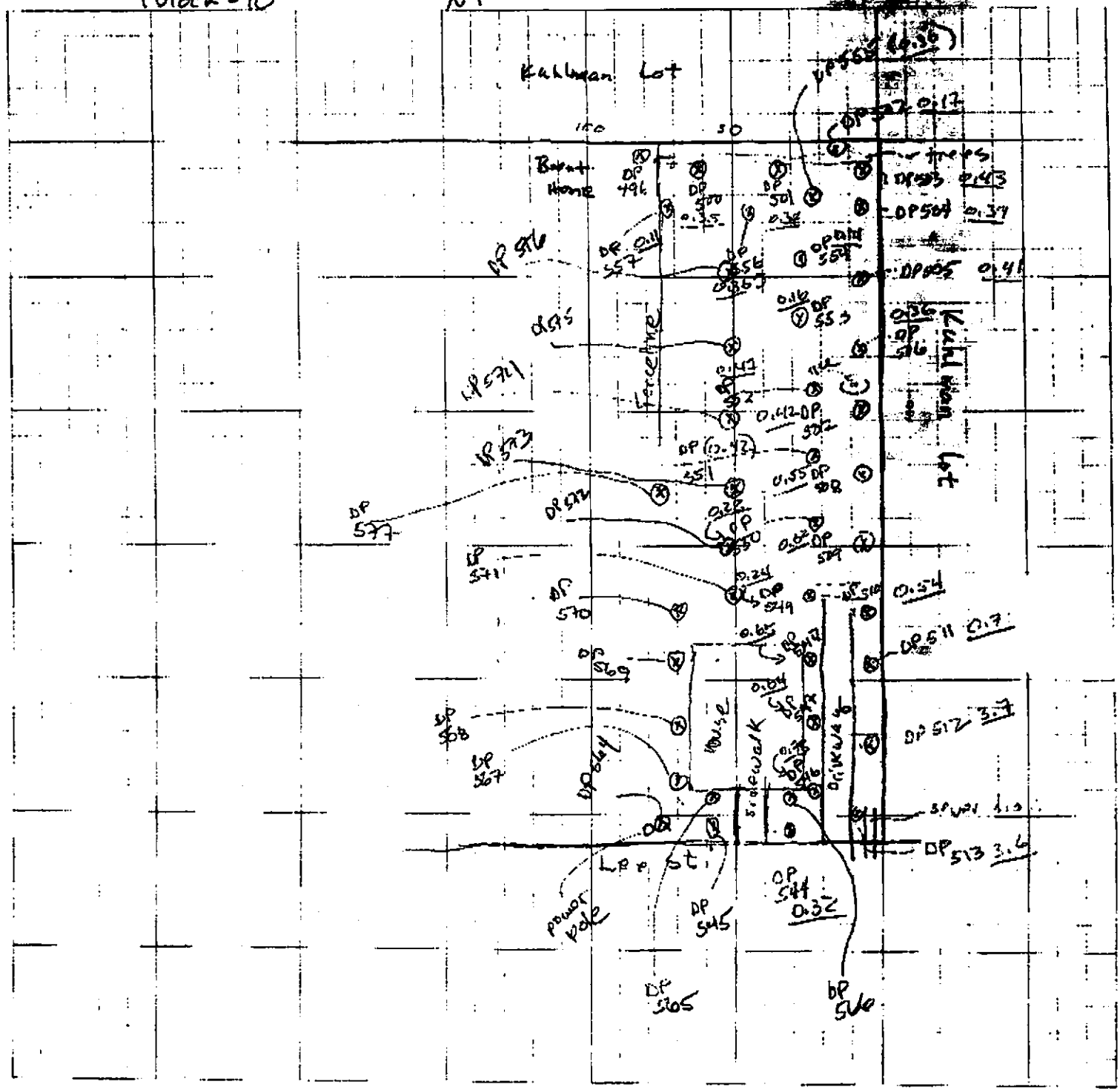




Job Name:
Job Number:
Title: Frazier Property
Computed by: TJF
Date: 8/25/00

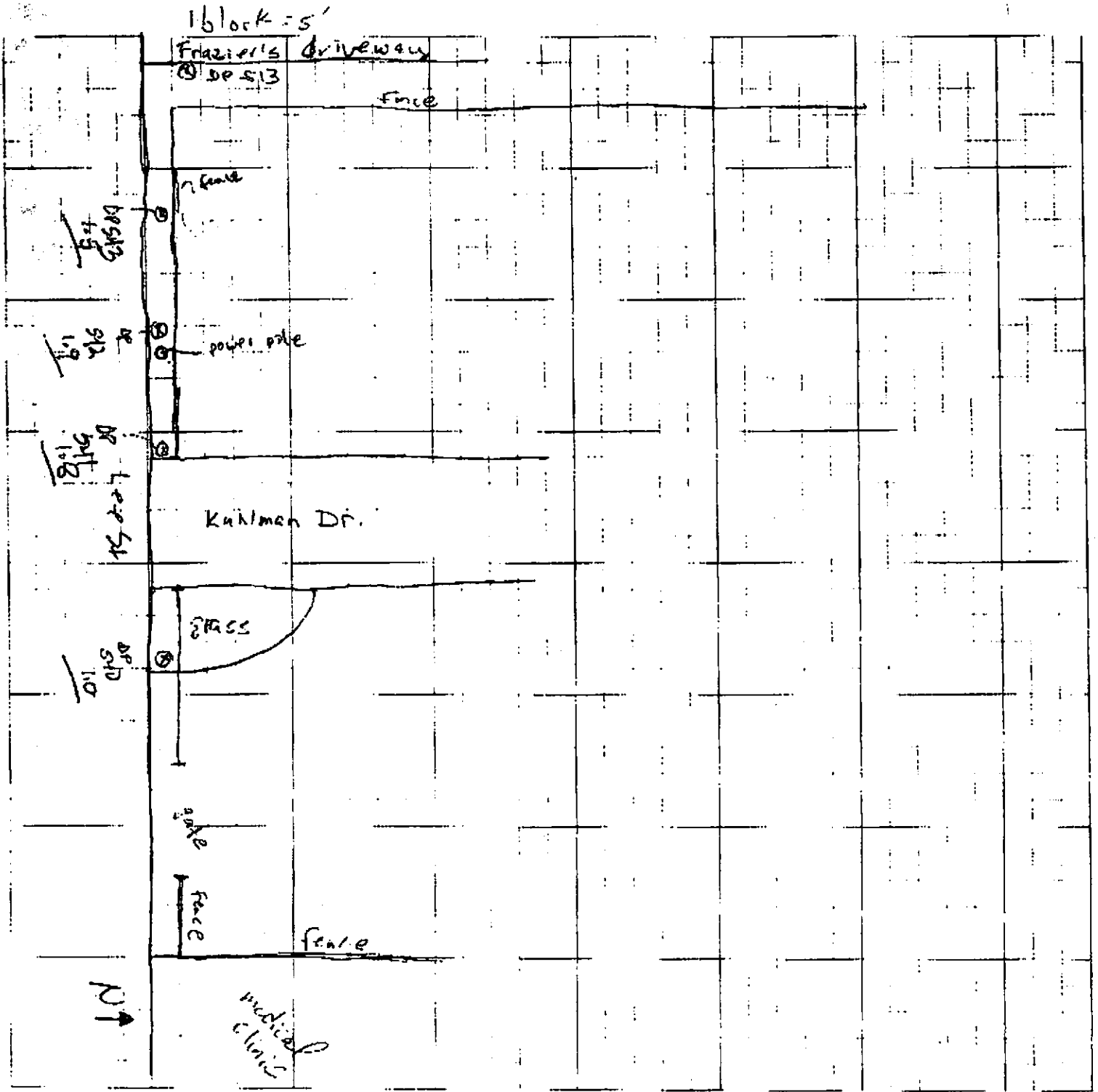
1 block = 10'

NT





Job Name: _____
 Job Number: _____
 Title: Kuhlman South Parking Lot
 Computed by: _____ Checked by: _____
 Date: 8/26/2000 Sheet: 18 Of: _____





Job Name:

Job Number:

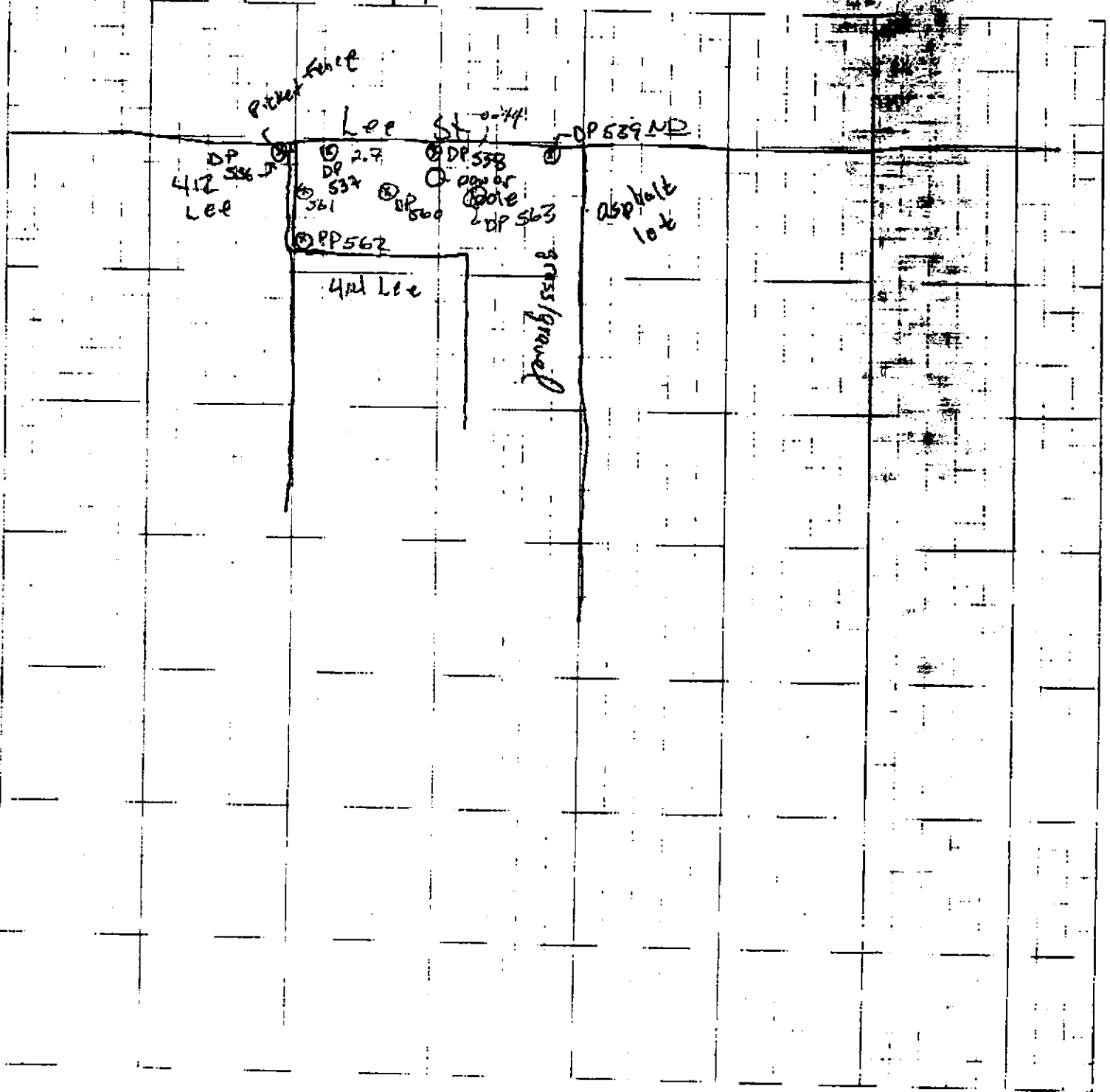
Title: 414 Lee St

Computed by: JPF

Date: 8/26/2000

(Circuit Map)
Sheet 19 of 20

1 block = 5' NT



OGDEN
■■■■■Job Name:
Job Number:
Title:
Computed by:
Date:**FILE COPY**

To: Gretchin Zmitrovich

From Tim Fitzpatrick

RE: Crystal Springs

31 pages total

Ms. Zmitrovich:

Following ~~are~~^{are} data & maps from our investigation.
We are complete at this time. Please forward the
data to Mr. Robert Martin & Ms. Anastasia Hanel
as well. Thank you

Tim Fitzpatrick

704 236 3496 (cell)

Sample Tracking Form

1-20 1-20 1-20

Date: 15 Aug 02

Target Analyte	1	2	3	Sample Description	Blank #	LCS #	MS #	MSD #
1,3,5-TrCB	1010	1010	1020	/	101	101	101	101
1,2,4-TrCB					105	105		
1,2,3-TrCB					102	102		
1,2,3,5,8,1,2,4,5					104	104		
1,2,3,4,TeCB					104	104		
Penta-CB					106	106		
Hexa-CB					111	111		
PCB as 1260	1010	1015	102		106	106	51	47
Surrogate ToxK	116	114	110		103	109	152	104
TEBP	125	111	120		118	109		142
COBNA 125								
1254								
MS 1260								
MS 1260								
15 15 15	15	15	15		15	15	15	15

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 16-AUG-2000

ACID		Sample Description														ACID	
Blank #	LCS #	MS #	MSD #													MS #	MSD #
#A	#A	#44	#44													#44	#44
101	104	150	147													150	147
	104	147	145													147	145
	104	145	143													145	143
	103	147	145													147	145
	104	143	141													143	141
	105	143	141													143	141
	102	140	138													140	138
	1010	102	101													102	101
	111	104	139													139	133
	122	104	147													147	149

185 17 17 17 17 17 17 17 17 17 17 17 17 17 17 17
 J = Estimated
 E = Exceeds calibration range
 AUG051 00

Page _____ of _____
Date: August 17, 2000

Phase P/L
1-2 1-5

Sample Tracking Form

Target Analyte	ACID		Sample Description											ACID					ACID					MS #61	MSC #61						
	325	55	325	326	326	327	327	327	328	328	328	329	329	329	330	330	330	331	331	331	332	332	332			333	333	333	334	334	334
1,3,5-TrCB	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
1,2,4-TrCB	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
1,2,3-TrCB	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
1,2,3,5,8,1,2,4,5	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
1,2,3,4,7,8-TeCB	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
Penta-CB	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
Hexa-CB	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
PCB as 1260	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
Surrogate TCMS	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
DCBP	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149
	0.5	50	0.5	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	>100	>100	>100	>100	>100	149	149	149	149

J = Estimated
E = Exceeds calibration range

Page 1 of 2

Date: August 11, 2000

Sample Tracking Form

Target Analyte	ACD										ACD										ACD																			
	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374
	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
1,3,5-TrCB																																								
1,2,4-TrCB																																								
1,2,3-TrCB																																								
1,2,3,5,8,1,2,4,5																																								
1,2,3,4-TeCB																																								
Penta-CB																																								
Hexa-CB																																								
PCB as 1260	0.32	0.10	0.12	0.10	0.06	0.10	0.15	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Surrogate TEPA	128	107	103	139	110	143	102	105	101	135	98	133	96	102	993	104	103	100	982	14	140																			
DEBP	142	117	115	112	123	109	162	117	153	112	115	116	146	108	139	101	102	114	108	110	167	158																		

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Page 1 of 1
Date: 17 AUG 80

Target Analyte	Sample Description		MSD #	MS #	LCS #	Blank #	Sample	Sample	Sample	Sample	Sample	Sample	Sample				
	345 0.5	346 4												347 0.5	348 4	349 0.5	349 4
1,3,5-TrCB	✓	✓	95	97	98	99	100	101	102	103	104	105	100	101	108	109	110
1,2,4-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,2,3-TrCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,2,3,5&1,2,4,5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1,2,3,4-TeCB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Penta-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hexa-CB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PCB as 1260	2010	2010	2010	2013	2010	2013	2010	2012	2010	2010	2010	2019	2010	2010	2010	2010	2019
Surrogate TCX	106	987	987	987	987	987	987	987	987	987	987	987	987	987	987	987	987
DCBP	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108

18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18
17

J = Estimated
E = Exceeds calibration range
AUGUST 60

Sample Tracking Form

Date: 18 Aug 00

ACID

ACID

ACID

Target Analyte	Sample Description										MS #	MSC #													
	350 0.5	350 4	351 0.5	351 4	352 0.5	352 4	353 0.5	353 4	354 0.5	354 4			MA-1 0.5	MA-1 4	1	2	2	4	3	5	5	5	5	5	Blank #
1,3,5-TrnCB	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	8	8
1,2,4-TrnCB																									
1,2,3-TrnCB																									
1,2,3,5,8,1,2,4,5																									
1,2,3,4-TeCB																									
Penta-CB																									
Hexa-CB																									
PCB as 1260	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142
Surrogate TCW	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
REP	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 18 Aug 00

Target Analyte	ACID					Sample Description												MS #	MSD #																			
	HA-LG	6	7	355	356	357	358	358	359	359	360	360	361	361	362	362	362			Blank	LCS																	
	0.5	2.5	0.5	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4	0.5	4																					
1,3,5-TrCB	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146				# 9	# 28	# 28												
1,2,4-TrCB	107	753	903	902	130	104.3	120	122.5	96.1	65.4	1019	1022	592	60.5	98	96	103	123	124	121	946	946	946	874	816	816	816	816										
1,2,3-TrCB	124	977	130	123	73.8	994	281	100	180	946	912	107	926	101	108	106	106	135	135	135	965	965	965	638	638	638	638	638										
1,2,3,5,1,2,4,5																																						
1,2,3,4-TeCB																																						
Penta-CB																																						
Hexa-CB																																						
PCB as 1260	0.10	0.10	0.11	0.16	0.33	0.20	0.20	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.22	0.22	0.10	0.10	0.11	0.10	0.10	0.10	0.12	0.12	0.10	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12					
Surrogate TNY																																						
DLRP																																						
INS Date	18	18	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19

J = Estimated
 E = Exceeds calibration range

Sample Tracking Form

Date: 18 Aug 00

Target Analyte	ACID			ACID			ACID			ACID			ACID			ACID			ACID																								
	Sample #	Volume	Concentration	Sample #	Volume	Concentration	Sample #	Volume	Concentration	Sample #	Volume	Concentration	Sample #	Volume	Concentration	Sample #	Volume	Concentration	Sample #	Volume	Concentration																						
1,3,5-TrCB	363	4	0.5	364	4	0.5	365	4	0.5	366	4	0.5	367	4	0.5	368	4	0.5	369	4	0.5	370	4	0.5	371	4	0.5	372	4	0.5	373	4	0.5	Blank #	LCS #	MS #	MSD #						
1,2,4-TrCB	147	148	0.01	149	150	0.01	151	152	0.01	153	154	0.01	155	156	0.01	157	158	0.01	159	160	0.01	161	162	0.01	163	164	0.01	165	166	0.01	167	168	0.01	169	170	0.01	171	172	0.01				
1,2,3-TrCB																																											
1,2,3,5,8,1,2,4,5																																											
1,2,3,4-TeCB																																											
Penta-CB																																											
Hexa-CB																																											
PCB as 1260	0.42	0.40	0.31	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	0.19	0.18	0.17	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Surrogate TCMY	112	92.6	119	89.1	120																																						
DXBP	129	999	129	910	120																																						

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 18 Aug 00

Target Analyte	Aro		Hco		Kco		Sample Description										Blank #	LCS #	MS #	MSD #												
	#	Lot	#	Lot	#	Lot	#	Lot	#	Lot	#	Lot	#	Lot	#	Lot					#	Lot										
1,3,5-TrCB	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
1,2,4-TrCB	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
1,2,3-TrCB	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
1,2,3,5&1,2,4,5	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
1,2,3,4-TeCB	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
Penta-CB	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
Hexa-CB	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
PCB as 1260	373	107	374	109	375	171	376	173	377	174	378	175	379	176	380	177	381	178	382	179	383	180	384	181	385	182	386	183	387	184	388	185
Surrogate TPAE	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
DCBP	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99

J = Estimated
E = Exceeds calibration range

Date: 19 Aug 00

Sample Tracking Form

Submitter:
 Lab:
 Name:

Sample #	Sample Description		MSD		MS #	LCS #	Blank #	421	421 0.5	420	420 0.5	419	419 0.5	418	418 H	417	417 4	416	416 4	415	415 4	414	414 4	413	413 4	412	412 4	411	411 III	19	20	19	20	19	20				
	421	421	420	420																																419	419	418	418
412	0.5	246	40.0	40.0	249	15	15	4	262	261	40.0	260	40.0	258	40.0	256	40.0	254	253	252	251	250	249	248	247	246	40.0	40.0	915	814	19	20	19	20	19	20			
1,3,5-TrnCB					249	891	891																																
1,2,4-TrnCB					249	891	891																																
1,2,3-TrnCB					249	891	891																																
1,2,3,5,8,1,2,4,5					249	891	891																																
1,2,3,4-TeCB					249	891	891																																
Penta-CB					249	891	891																																
Hexa-CB					249	891	891																																
PCB as 1260	0.78	40.0	40.0	40.0	40.0	40.0	40.0																																
Surrogate TCM	126	823	914	914	914	914	914																																
DABP	III	915	814	814	814	814	814																																

J = Estimated
 E = Exceeds calibration range

Sample Tracking Form

Date: 19 Aug 00

ACD

Target Analyte	Sample Description	Blank #	LCS #	MS #	M #
1,3,5-TrCB	422 0.5 265 40.01				
1,2,4-TrCB	422 4 266 40.01				
1,2,3-TrCB	423 4 267 40.01				
1,2,3,5,8,1,2,4,5	423 4 268 40.01				
1,2,3,4-TcCB	424 4 270 40.01				
Penta-CB	425 4 271 40.01				
Hexa-CB	426 4 273 40.01				
PCB as 1260	427 4 274 40.01				
Surrogate TCMA	427 4 275 40.01				
DDEP	427 4 276 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 277 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 278 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 279 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 280 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 281 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 282 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 283 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 284 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 285 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 286 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 287 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 288 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 289 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 290 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 291 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 292 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 293 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 294 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 295 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 296 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 297 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 298 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 299 40.01				
1,2,3,4,5,6,7,8,9,10,11,12	427 4 300 40.01				

see Revision Log
Rou
A

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 20 Aug 10

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101 101 101

Target Analyte	Acid		Acid		Acid		Acid		Acid		Blank	LCS	MS #	MSD #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	HA 8	HA 9	HA 9	HA 9	HA 9	HA 9	HA 9	HA 9	HA 9	HA 9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1,3,5-TrCB	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

2. Large US Federal one by the one by unit

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Date: 20 Aug 00

Target Analyte	MSL #	MS #	LCS #	Blank #	Sample Description
1,3,5-TrCB	446	446	446	447	NO LCS/MS/MSD blanks
1,2,4-TrCB	445	445	445	447	
1,2,3-TrCB	L4	0.5	0.5	4	NO LCS/MS/MSD blanks
1,2,3,5&1,2,4,5	317	318	319	320	
1,2,3,4-TeCB	401	401	401	401	NO LCS/MS/MSD blanks
Penta-CB	401	401	401	401	
Hexa-CB	401	401	401	401	NO LCS/MS/MSD blanks
PCB as 1260	0.12	0.12	0.12	0.12	
Surrogate TCMX	112	112	112	112	NO LCS/MS/MSD blanks
D-LD	112	112	112	112	
1,2,3,4,5,6	20	20	20	20	

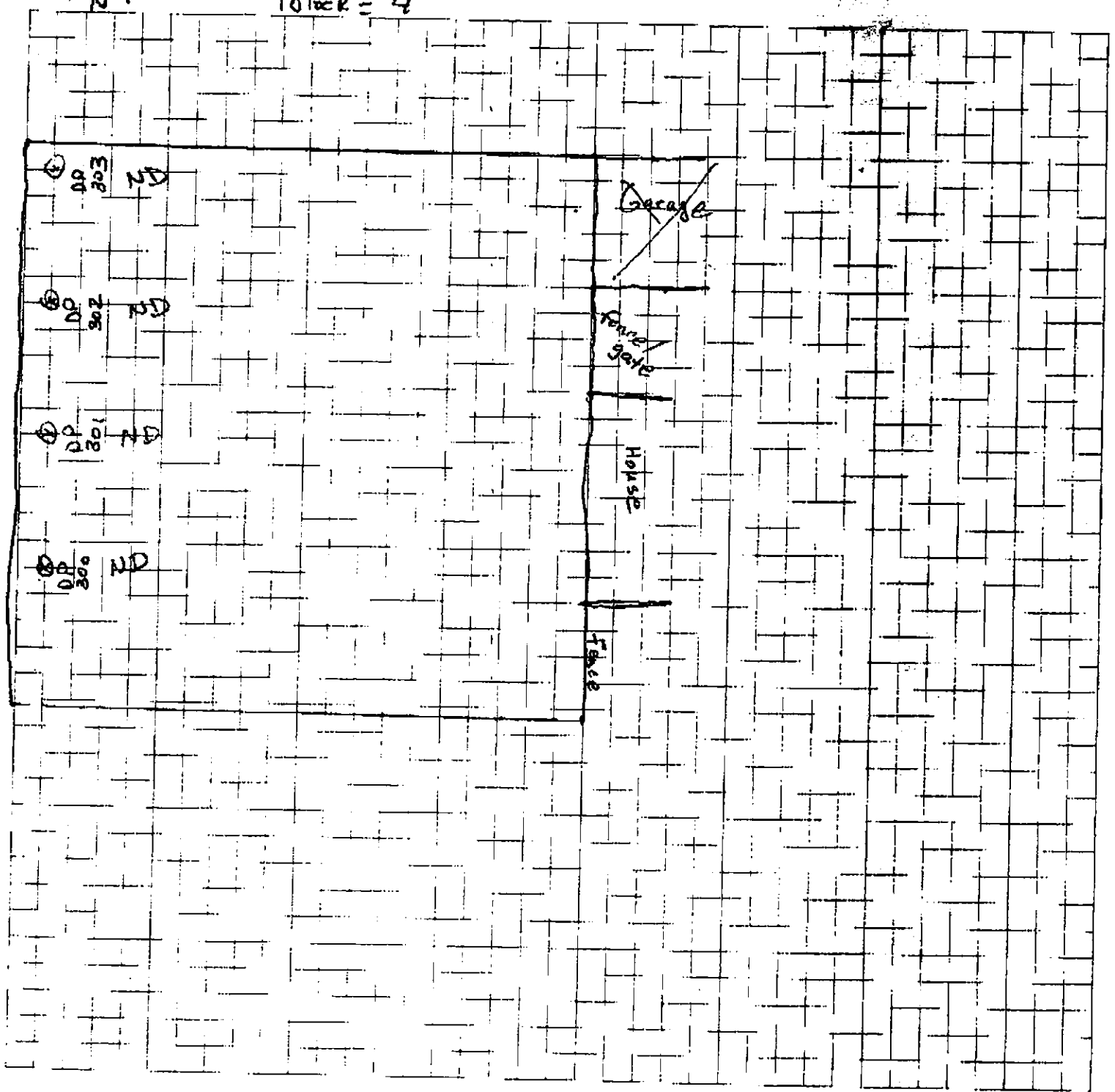
J = Estimated
E = Exceeds calibration range



Job Name: Crystal Springs
 Job Number: _____
 Title: Sony Reeves backyard 405 Jackson
 Computed by: _____ Checked by: _____
 Date: 2/16/2000 Sheet 1 of 11

N ↑

1 block = 4'

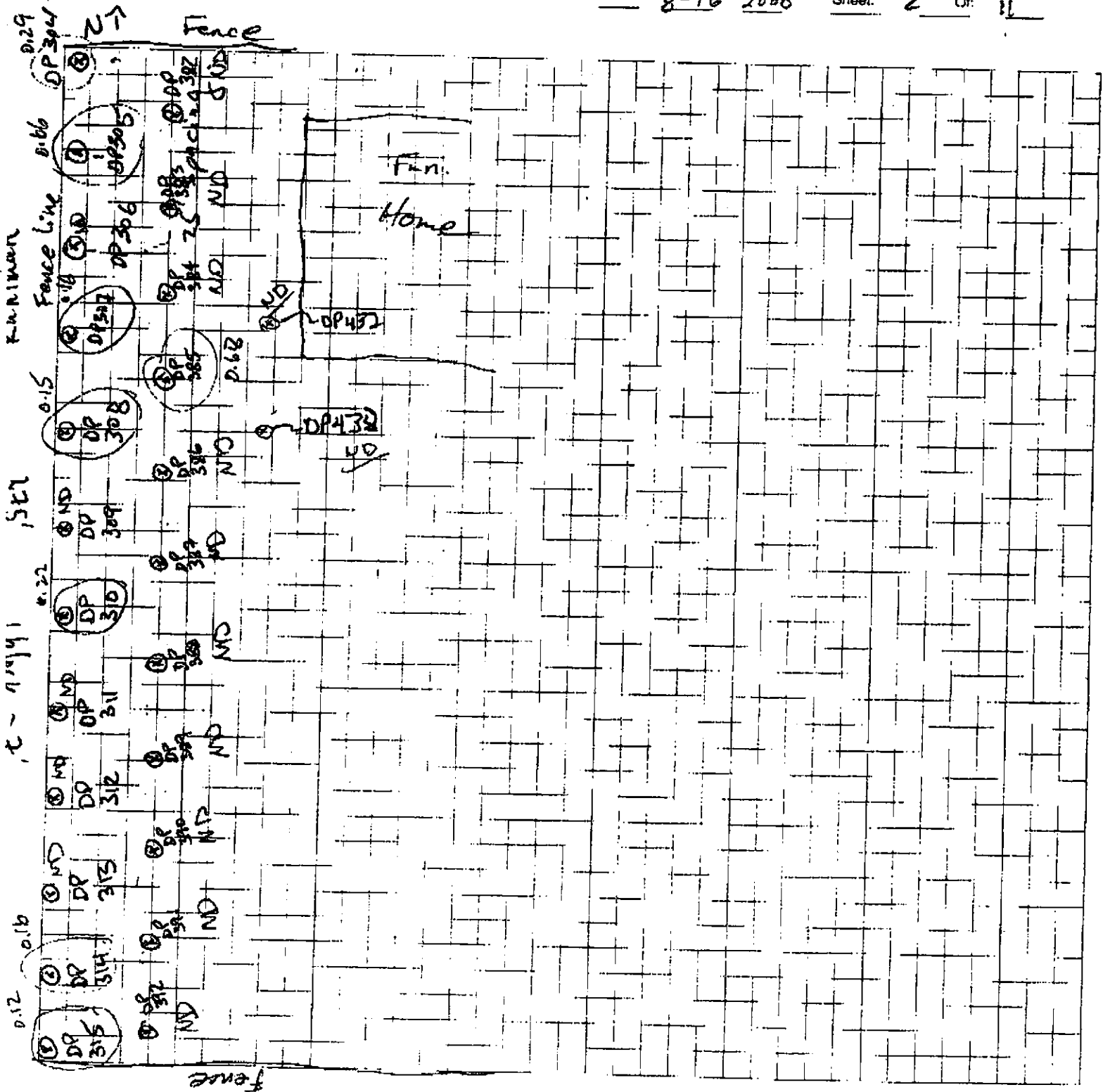


1/24/00



200
7

Job Name: Crystal Springs
Job Number: _____
Title: Stringer Funeral Home
Computed by: _____ Checked by: _____
Date: 8-16-2000 Sheet: 2 Of: 11

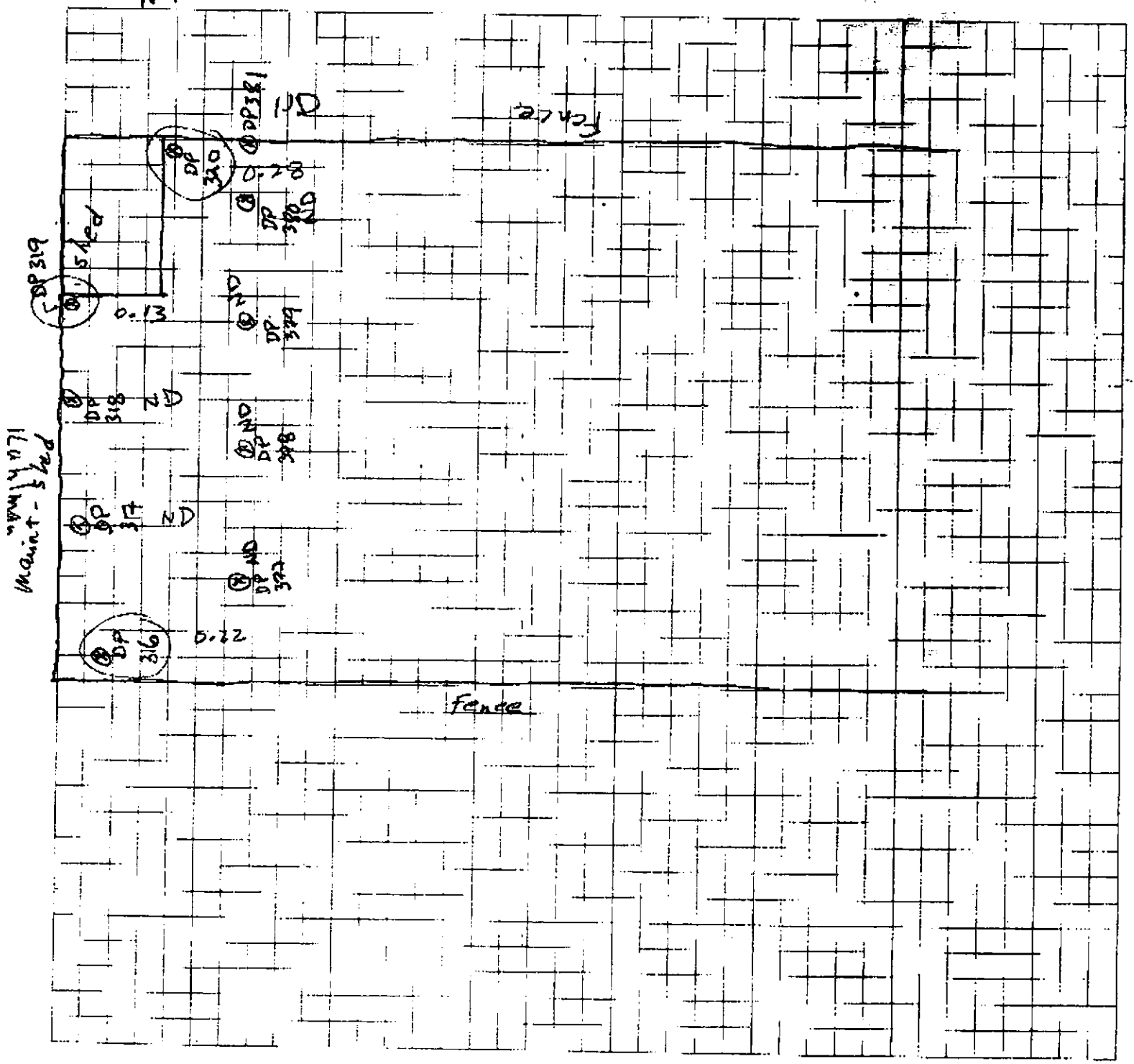




Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson, Elmer Wright
Computed by: Checked by:
Date: 8-16-2000 Sheet 3 of 11

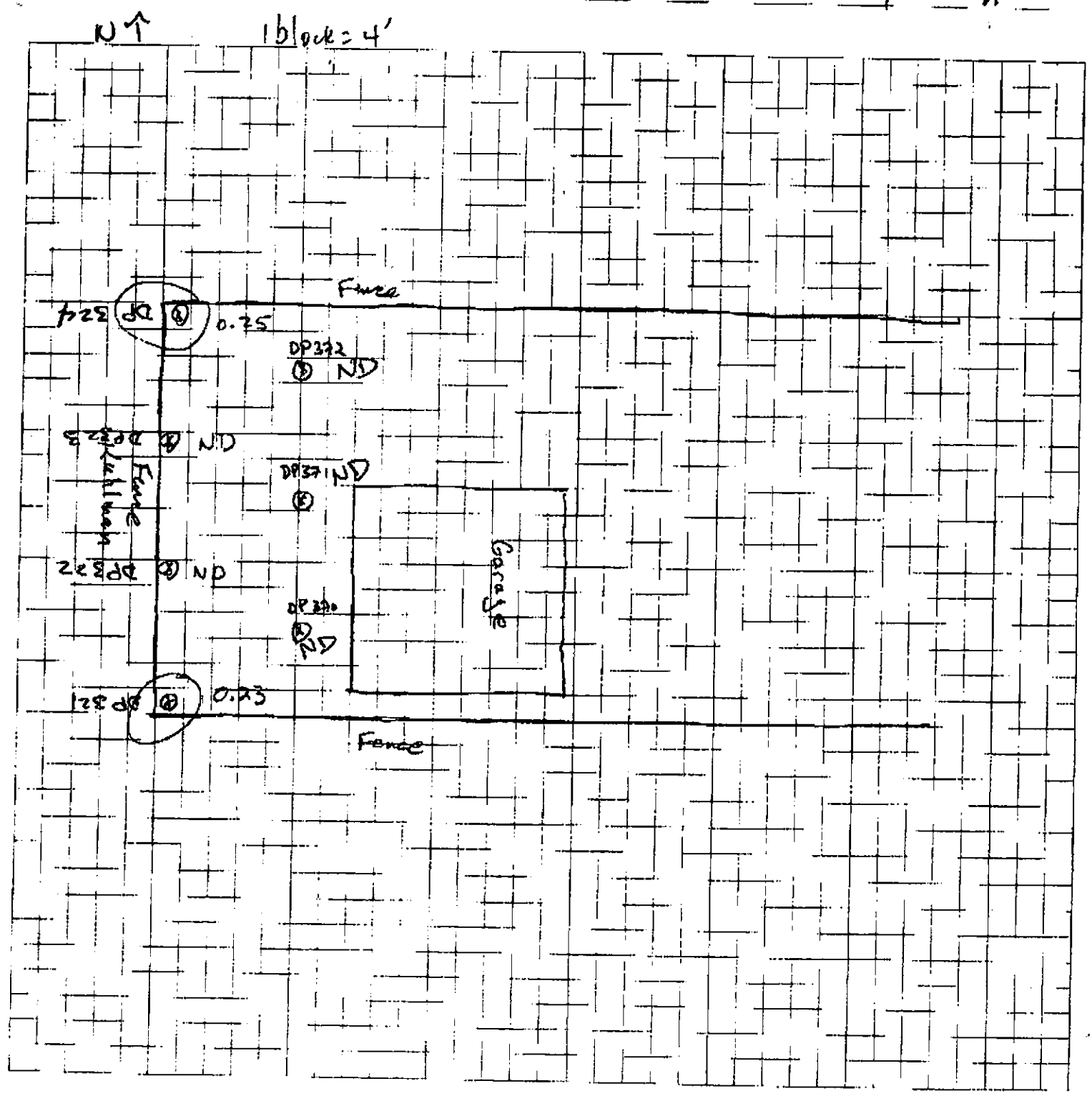
1 block = 4'

N ↑



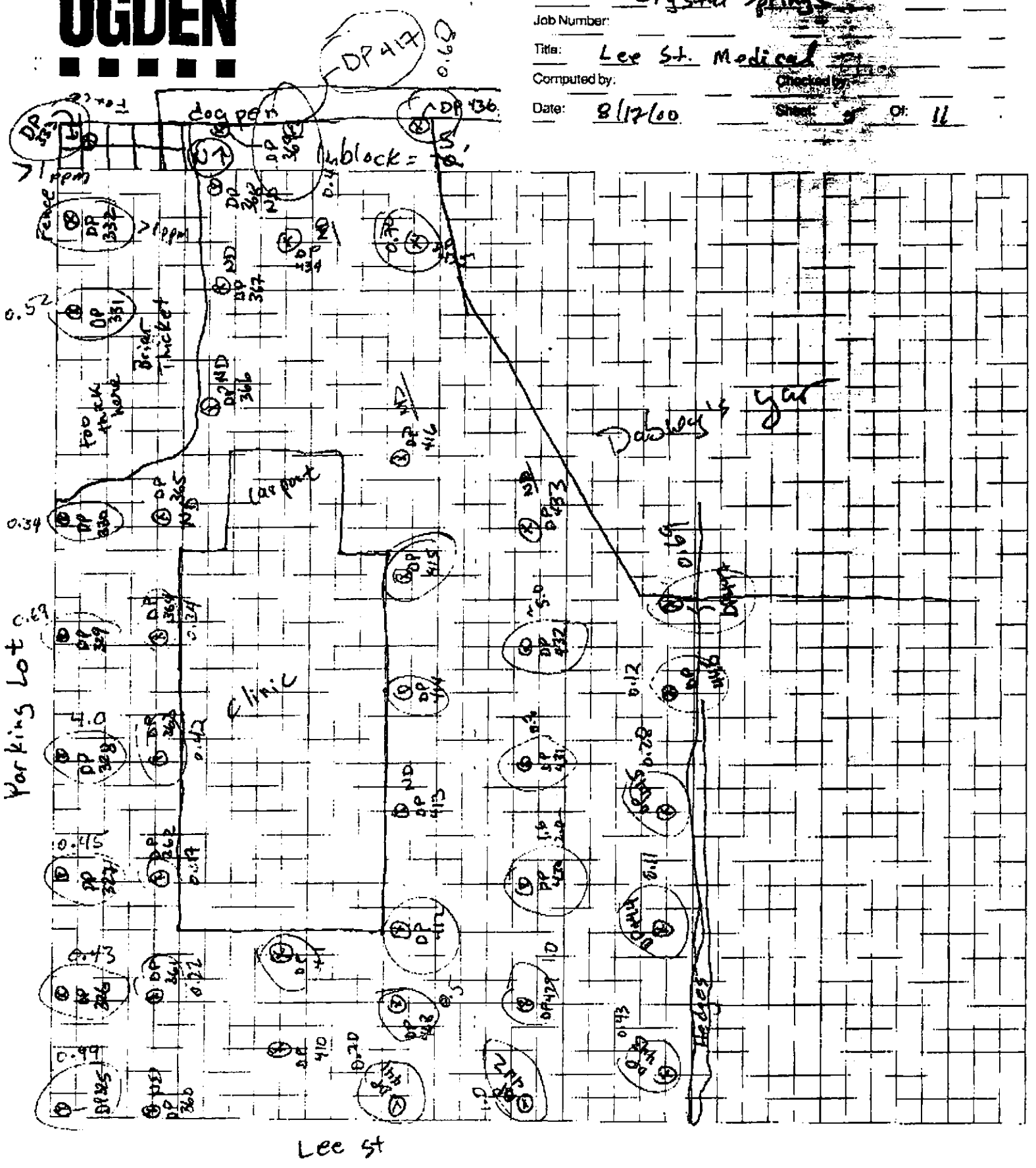


Job Name: Crystal Springs
Job Number: _____
Title: 407 N. Jackson Louie Lang
Computed by: _____ Checked by: _____
Date: 8-16-00 Sheet: 4 Of: 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Lee St. Medical
 Computed by: _____
 Date: 8/17/00 Sheet 2 of 11



Lee St



Job Name: Crystal Springs

Job Number: _____

Title: 303 N. Jackson (stringer)

Computed by: _____

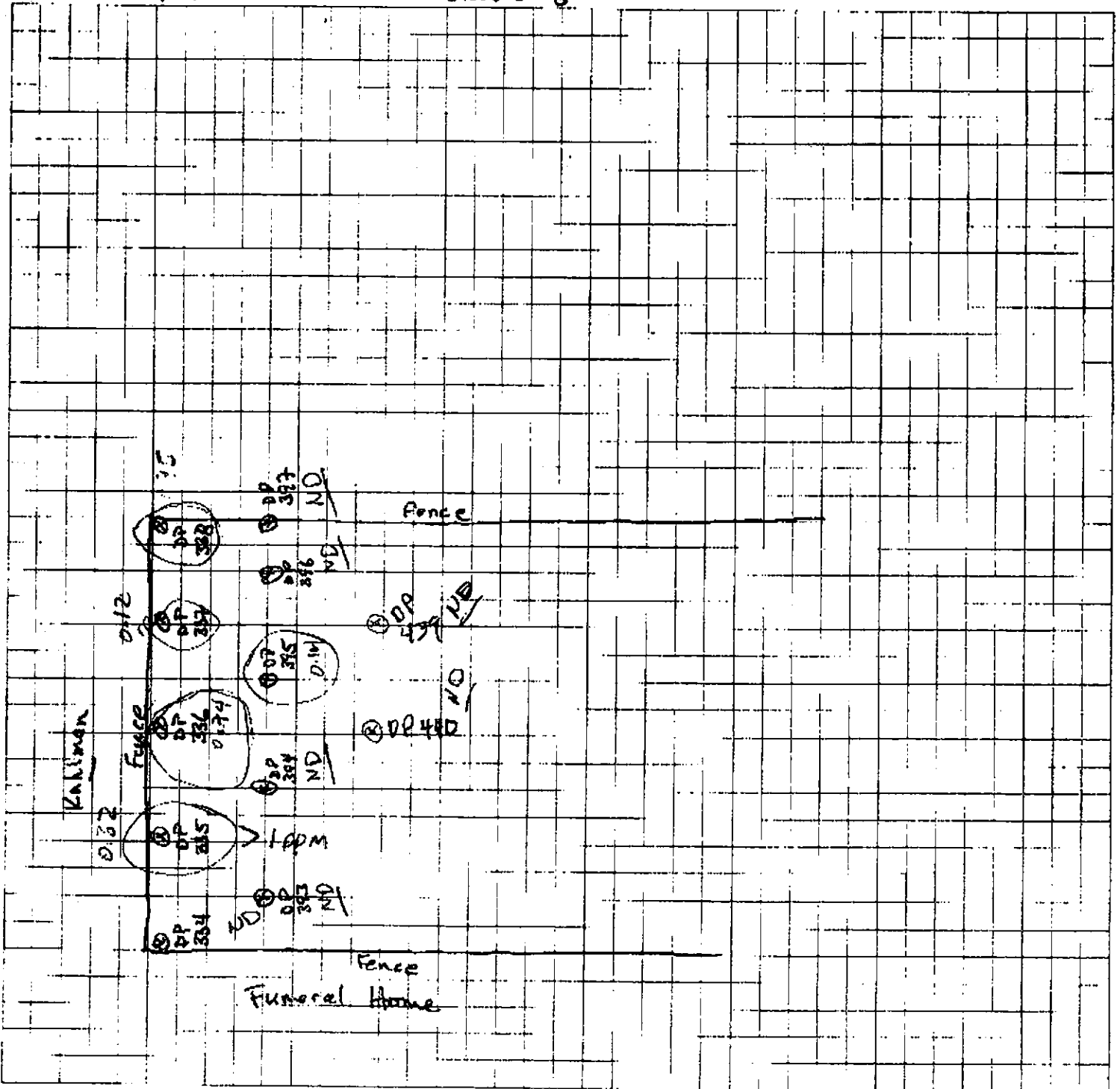
Checked by: _____

Date: 8-17-00

Sheet: 6 Of: 11

NT

1 block = 5'

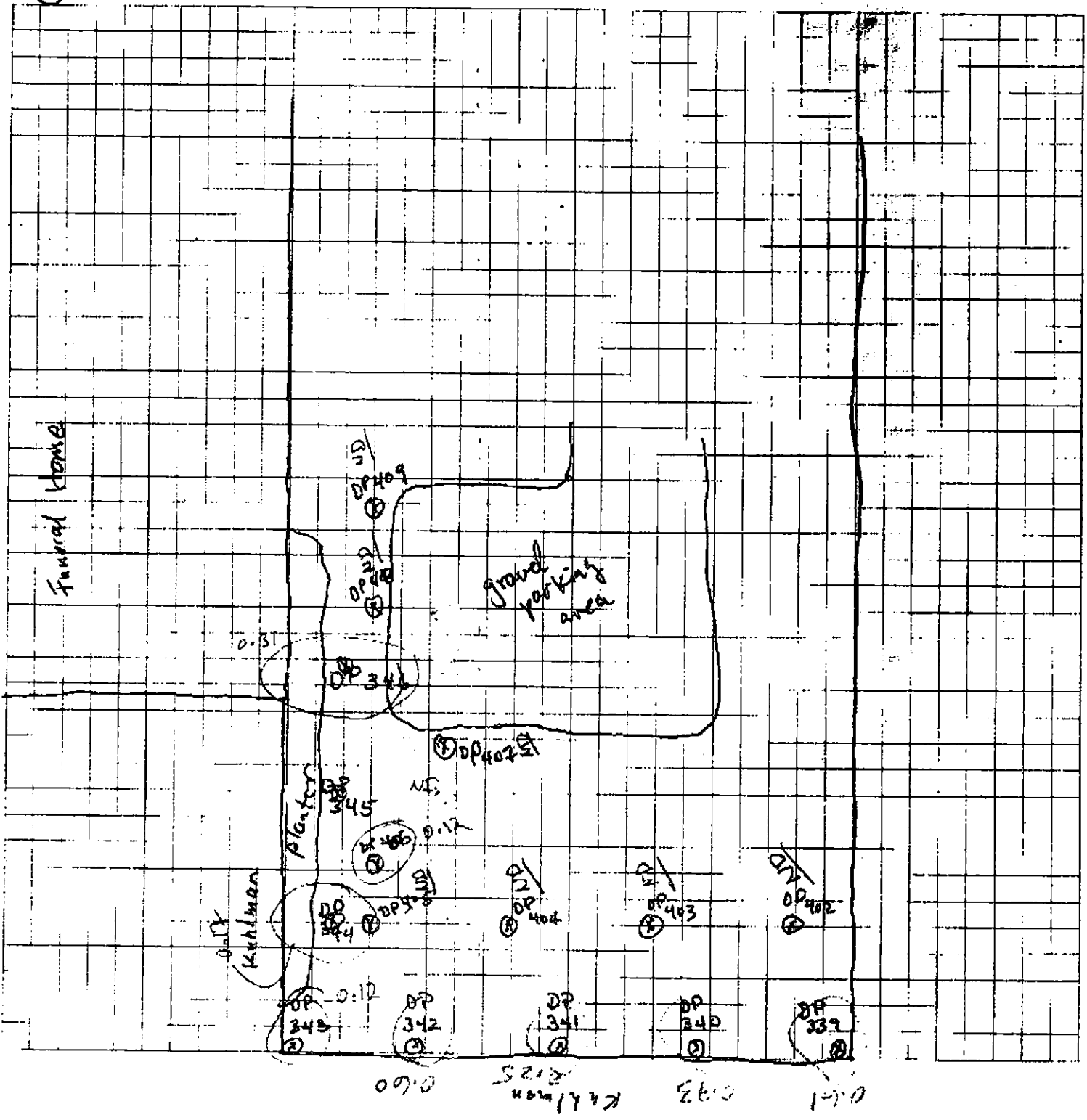




Job Name: Crystal Springs
 Job Number: _____
 Title: 219 N-Jackson - Perry Smith
 Computed by: TJF Checked by: _____
 Date: 8-17-00 Sheet 7 of 11

1 block = 5'

↑
②





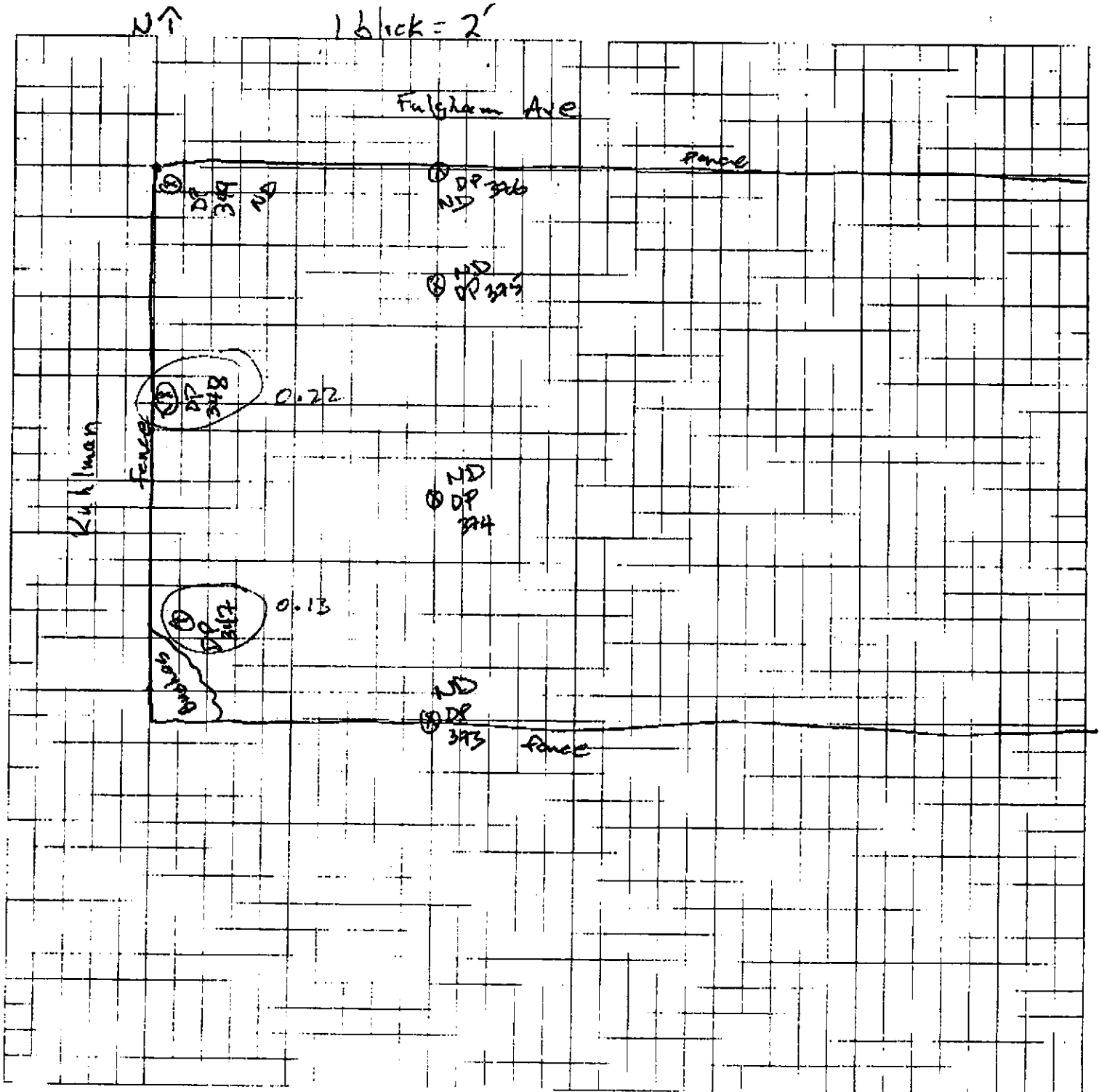
Job Name: Crystal Springs

Job Number: _____

Title: 409 N. Jackson (Amy Cooper)

Computed by: AF Checked by: _____

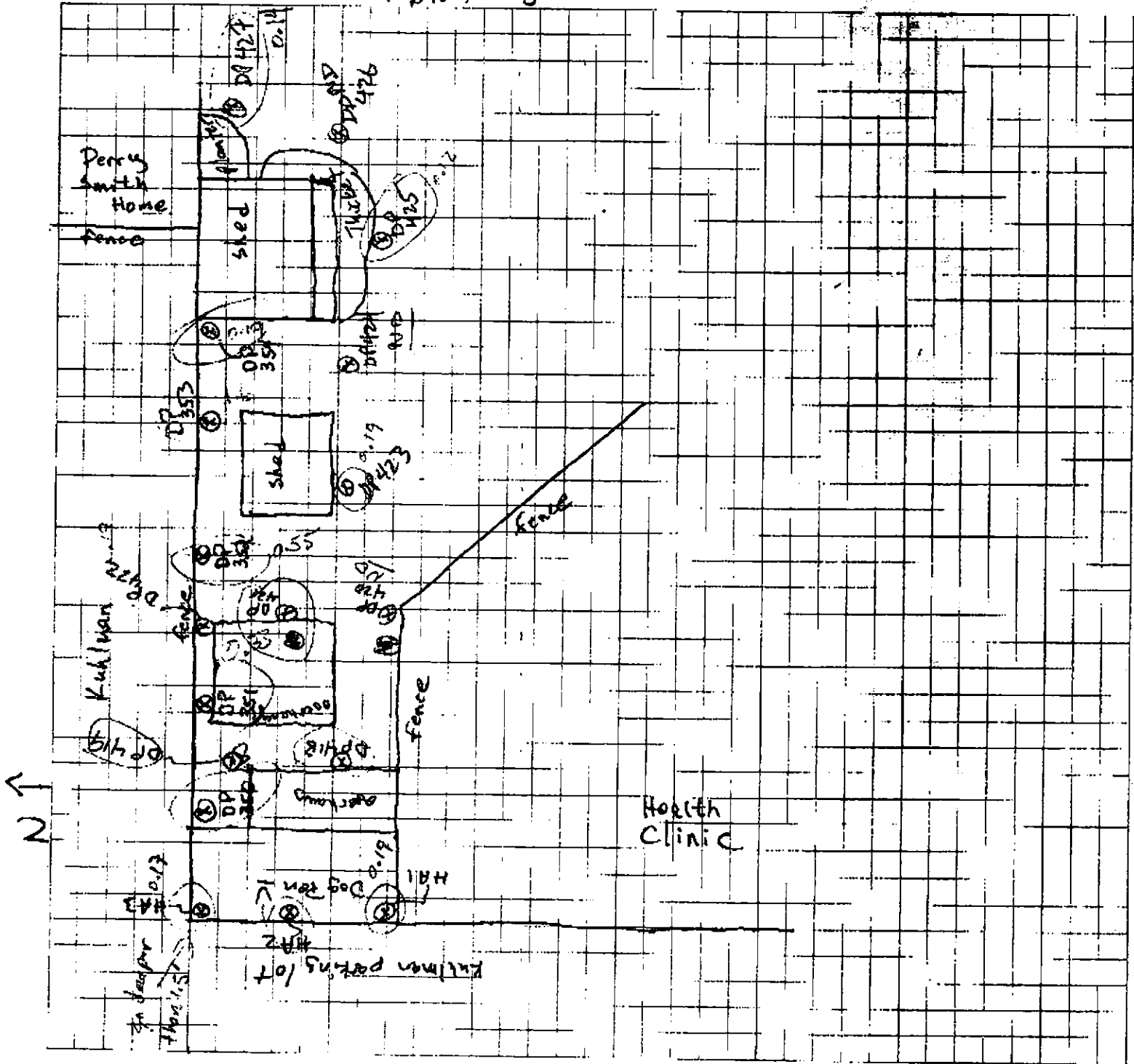
Date: 8-17-00 Sheet: 8 of: 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Dabney Home Perry
 Computed by: TJE Checked by: _____
 Date: 8-17-00 Sheet 9 of 11

1 block = 5'





Job Name: Crystal Springs

Job Number: _____

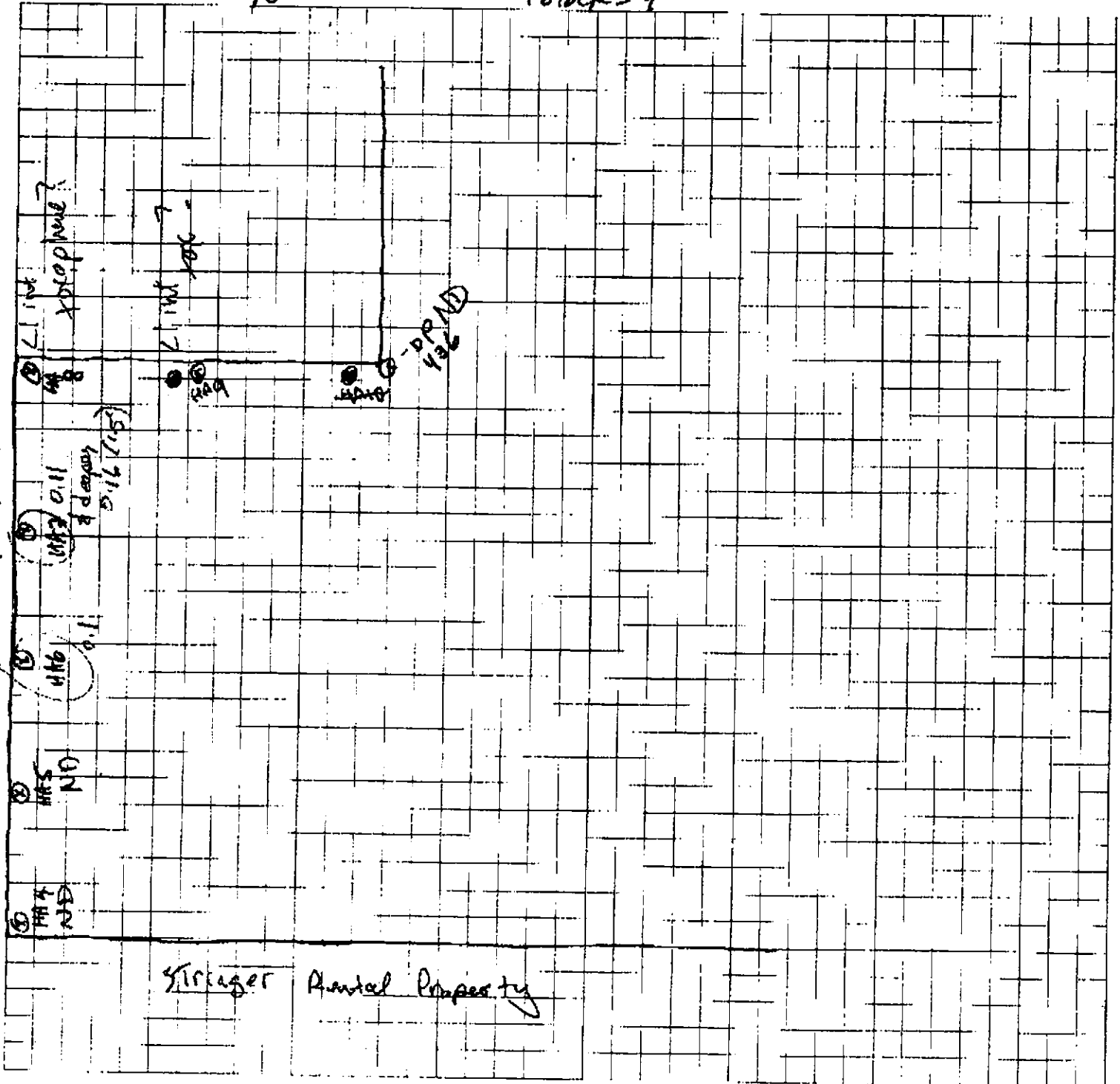
Title: Wright House

Computed by: _____ Checked by: _____

Date: 8-18-00 Sheet: 10 of: 11

NT ↑

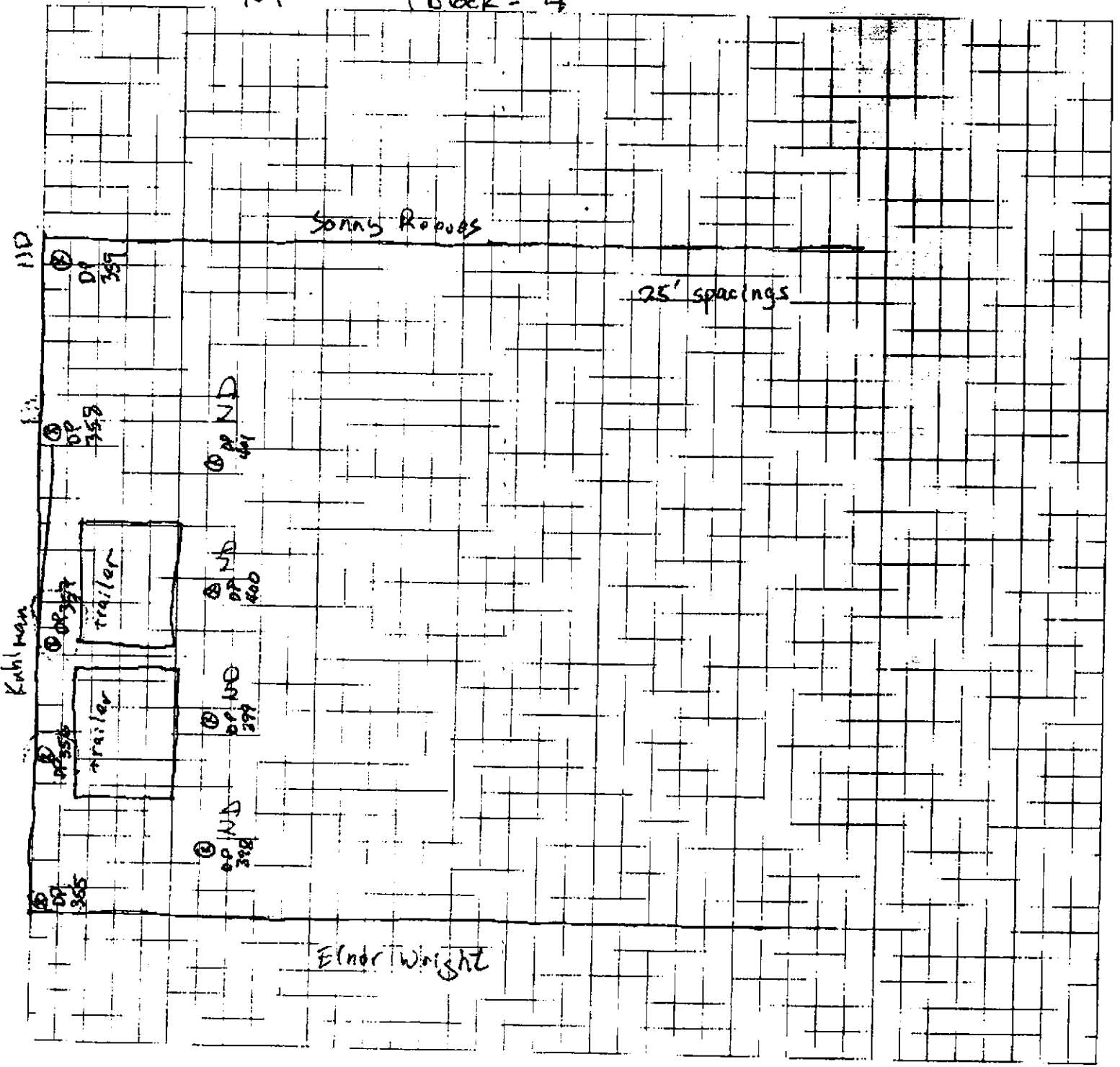
1 block = 4'





Job Name: Crystal Springs
 Job Number: _____
 Title: Harold & Suzanne Warren
 Computed by: TJF Checked by: _____
 Date: 8-18-00 Sheet 17 of 16

N↑ 1 block = 4'





Job Name:
Job Number:
Title:
Computed by:
Date:

FILE COPY
COPY

Checked by:
Sheet: Of:

Fax Coversheet

To: Gretchin Zmitrovich
MDEQ

From: Tim Fitzpatrick
Ogden Environmental

Re: Crystal Springs Data Summary

19 pages
total

Ms. Zmitrovich:

Following is all the data available as of 5:30 PM on Friday Aug 18. The mobile lab had autosampler malfunctions the previous two nights and are thus still somewhat behind.

We will be working through the weekend and you can reach me on my cell at 704-236-3496 if you like.

Best Regards,
Tim Fitzpatrick

Sample Tracking Form

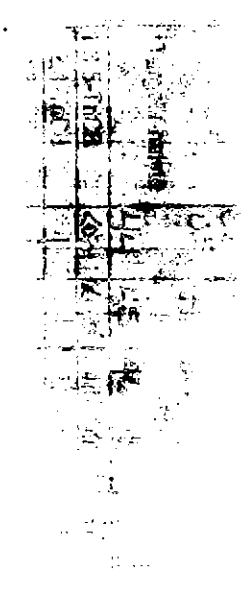
Target Analyte	Sample Description																													
	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	Blank	LCS	MS	MSD						
1,3,5-TrCB	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	4901	974	100	104				
1,2,4-TrCB																								980	101	105				
1,2,3-TrCB																								920	100	05				
1,2,3,5,8,1,2,4,5																								994	103	07				
1,2,3,4,TeCB																								101	106	108				
Penta-CB																									103	108	109			
Hexa-CB																														
PCB as 1280	0.22	4910	4910	4910	4910	4910	4910	4910	4910	4910	4910	0.13	4910	4910	4910	4910	4910	4910	4910	4910	4910	4910	4910	4910	4910	4910	100	112	107	
Surrogate #1	101	838	96	74	11	93	110	107	112	99	134	107	127	980	107	103	109	102	111	108	112	104	100	103	107					
Surrogate #2	115	102	91	79	103	106	109	114	112	105	128	112	129	101	106	107	101	111	108	120	113	107	109	107						
			TRAC		TRAC										TRAC		TRAC													
			150		150										1249		1360													

J = Estimated
E = Exceeds calibration range

Sample Tracking Form

Target Analyte	ACID		ACID		Sample Description										ACID (ACID)			
	320	320	321	321	321	321	321	322	322	322	323	323	324	324	Blank	LCS	MS	MSD
1,3,5-TrCB	44	45	46	47	48	49	50	51	52	53	54							
1,2,4-TrCB																		
1,2,3-TrCB																		
1,2,3,4-TetrCB																		
Penta-CB																		
Hexa-CB																		
PCB as 1280	928	910	923	910	910	910	910	910	910	910	910	910	910	910	102	102	101	137
Surrogate-TMx	141	112	134	107	937	103	105	106	104	99.6	107				111	101	139	133
D.B.P	155	117	137	111	105	110	116	109	113	104	107				122	104	147	149

J = Estimated
E = Exceeds calibration range



Sample Tracking Form

Page 1 of 5
 Date: August 17, 2000
 P# 1-2 P# 1-5

Target Analyte	Sample Description										Blank	LCS	MS #61	MSD #61														
	325	325	326	326	327	327	328	328	329	329					330	330	331	331	332	332	333	333	334	334	335	335	336	336
1,3,5-TrCB	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74								
1,2,4-TrCB																												
1,2,3-TrCB																												
1,2,3,5,6,1,2,4,5																												
1,2,3,4-TrCB																												
Penta-CB																												
Hexa-CB																												
PCB as 1260	0.79	2.01	0.43	2.10	0.45	2.01	4.0	2.10	0.65	2.01	0.34	2.01	0.52	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Surrogate 7,9,11	4.3	10.3	10.8	10.4	10.9	10.9	14.5	10.4	10.3	10.8	10.7	10.7	13.2	10.4	13.3	10.8	13.7	10.3	10.4	10.5	10.3	10.3	10.8	14.7	14.7	14.3	14.3	14.3
2,6-BP	13.2	10.3	10.7	11.7	11.3	11.5	15.6	10.7	10.3	11.0	12.5	11.0	13.4	11.0	14.0	10.8	12.7	11.3	11.0	11.4	11.6	12.8	15.2	13.7				
		7.782			0.1						0.2																	
		7.782			7.782						7.782																	

J = Estimated

Sample Tracking Form

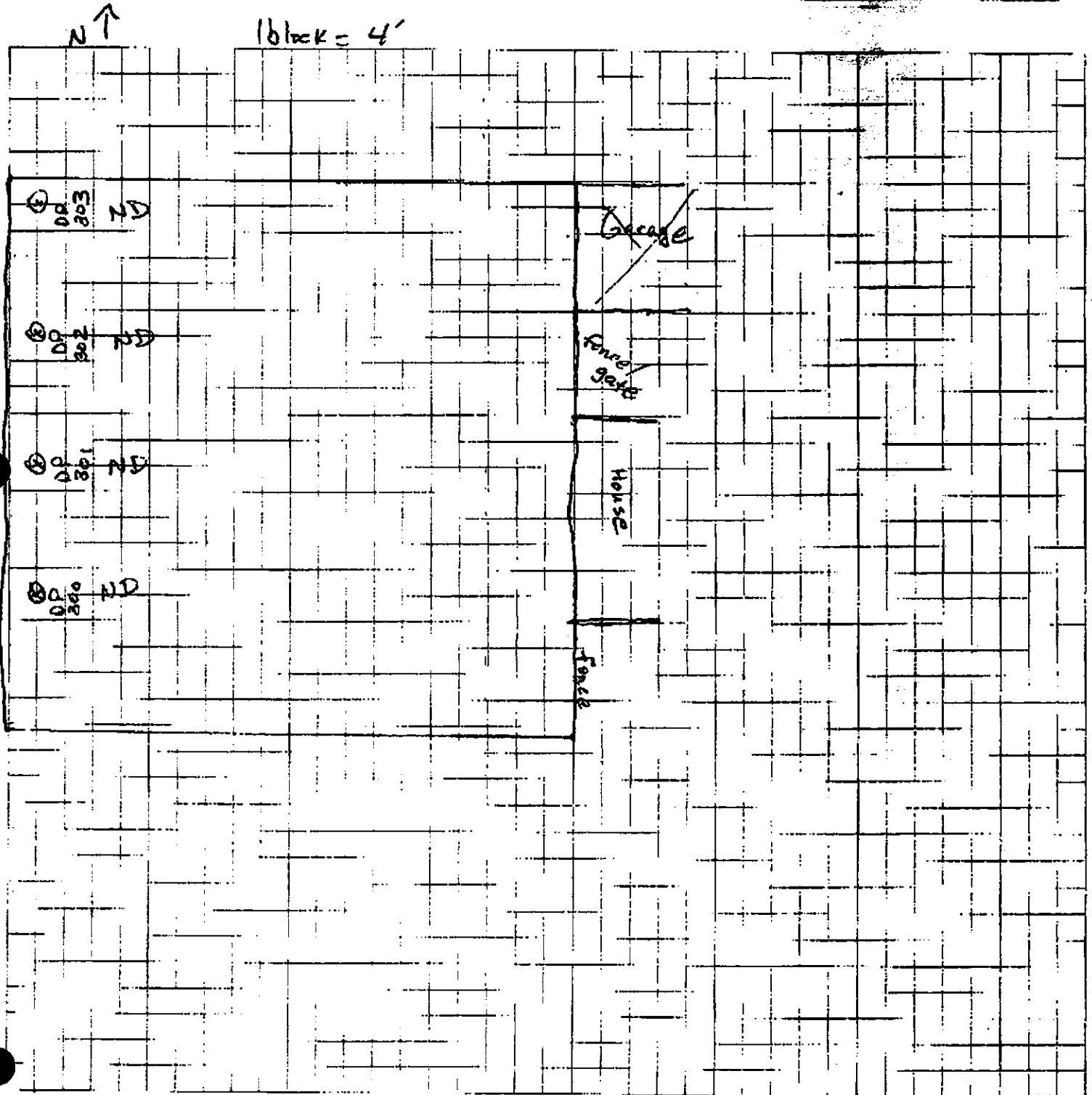
Date: August 11, 2000
Page 2 of 2

Target Analyte	Sample Description										Blank #	LCS #	MS #	MSD #								
	335	335	336	336	337	337	338	338	339	339												
1,3,5-TrCB	75	70	78	78	79	80	81	82	84	86	87	88	89	90	91	92	93	94	100	976	143	146
1,2,4-TrCB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	986	144	145
1,2,3-TrCB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	982	145	143
1,2,3,6,8,1,2,4,5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	979	146	144
1,2,3,4-TrCB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	976	147	142
Penta-CB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	986	148	142
Hexa-CB	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	978	139	138
PCB as 1260	0.32	0.10	0.10	0.24	0.12	0.10	0.75	0.10							0.12	0.10	0.17	0.10	0.10	970		134
Sumgate TPA	128	107	105	111	110	103	139	110							102	983	104	103	100	982	141	140
DCBP	142	117	115	112	123	109	162	117							102	114	108	110	120	110	142	158

J = Estimator
E = Environmental



Job Name: Crystal Springs
Job Number: _____
Title: Sony Reeves backyard 405 Jackson
Computed by: Chadler
Date: 2/16/2000 Sheet 1 of 11





200
200
7

Job Name: Crystal Springs

Job Number:

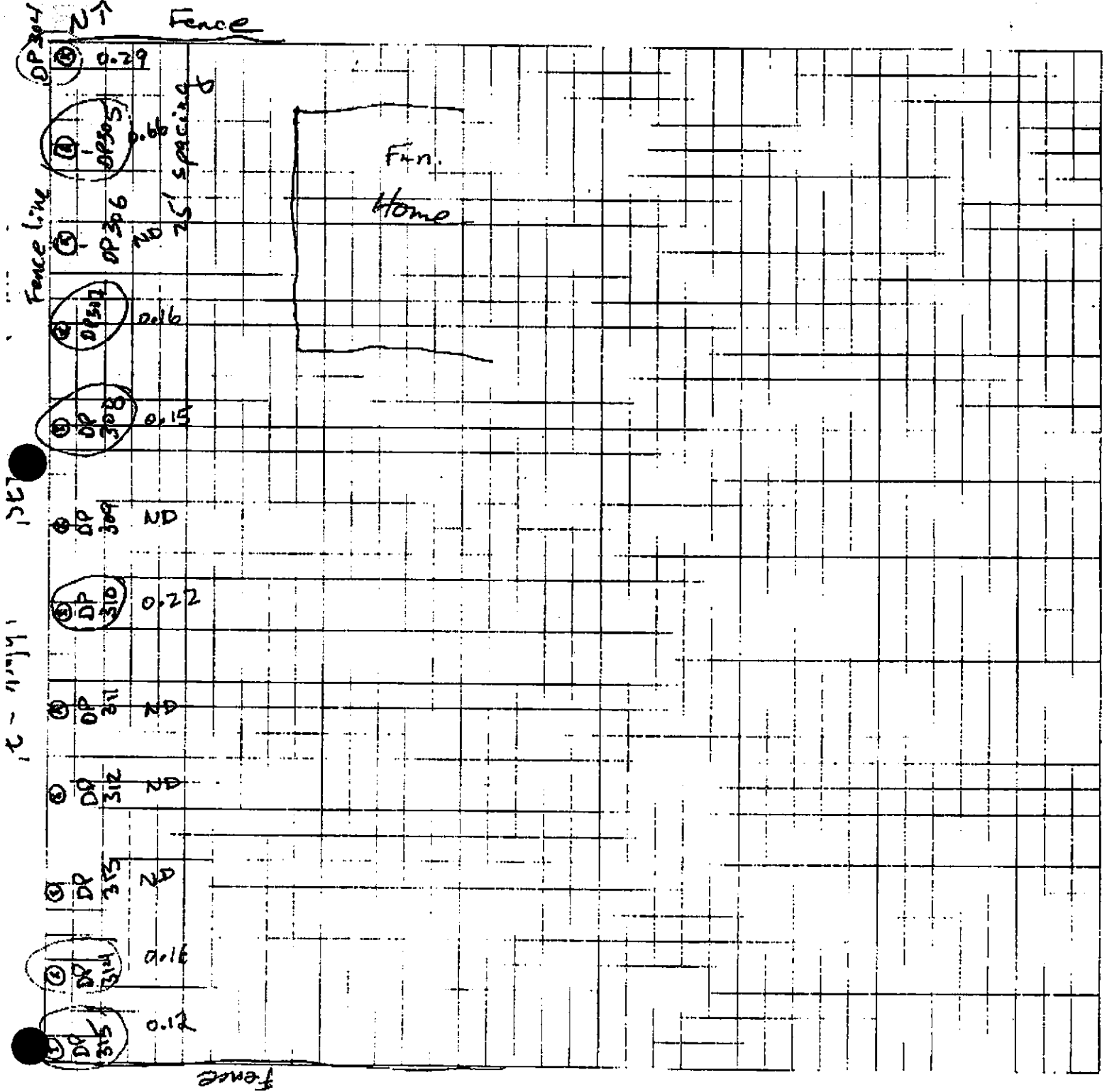
Title: Stringer Funeral Home

Computed by:

Checked by:

Date:

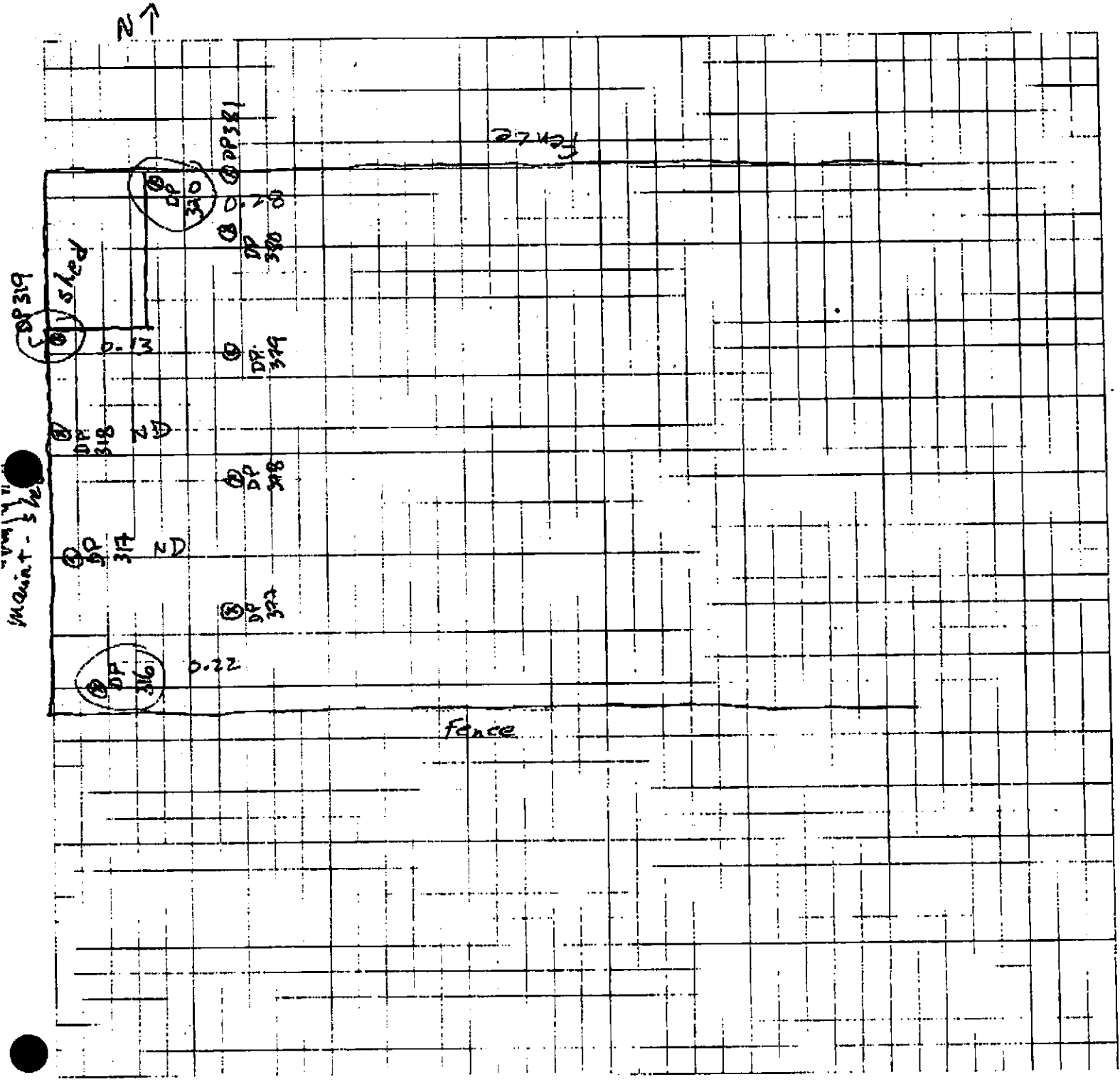
Sheet: 2 Of: 11





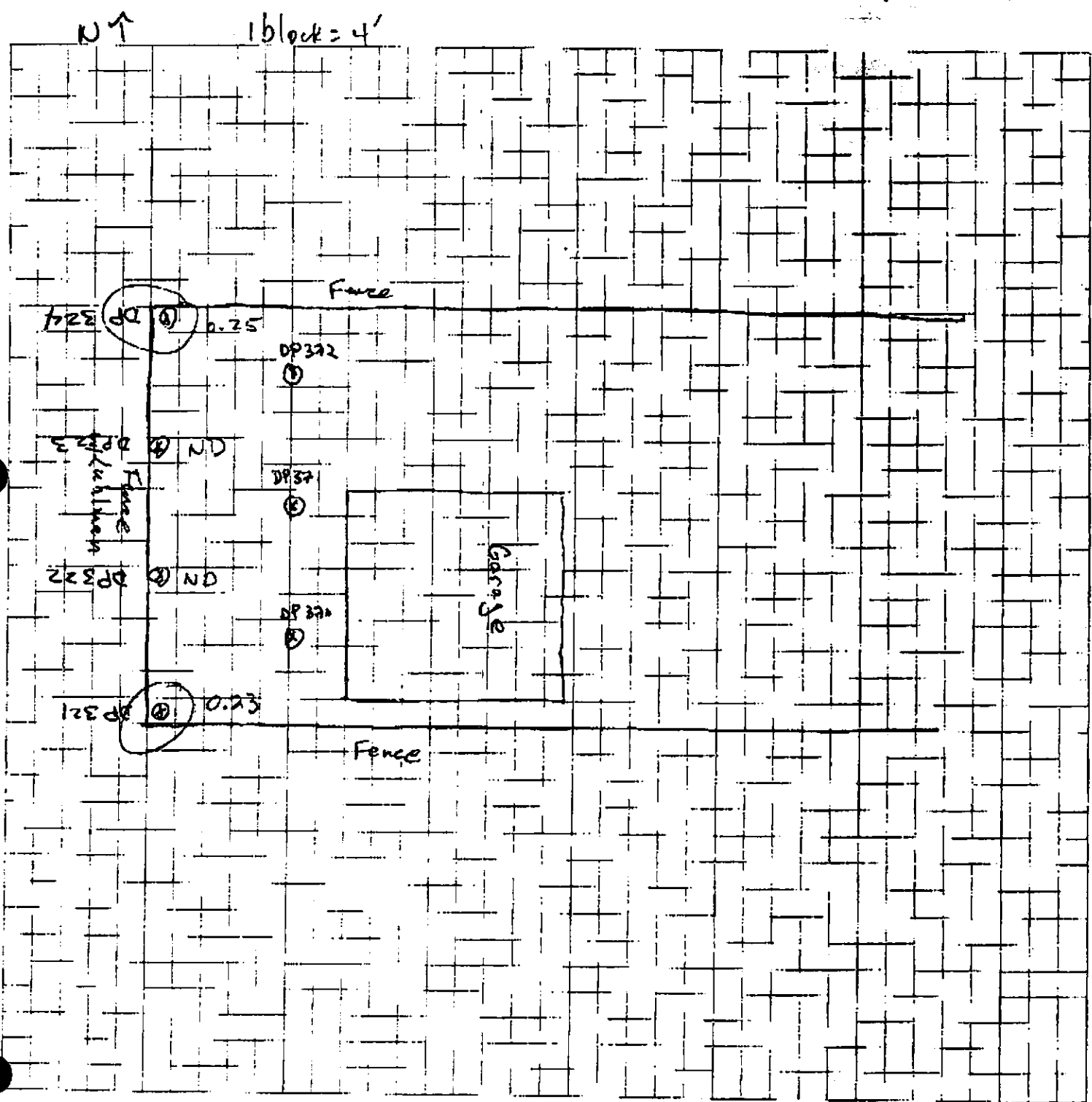
Job Name: Crystal Springs
Job Number:
Title: 401 N. Jackson Elnor Wright
Computed by: _____ Checked by:
Date: 8-16-2000 Sheet: 3 Of: 11

1 block = 4'



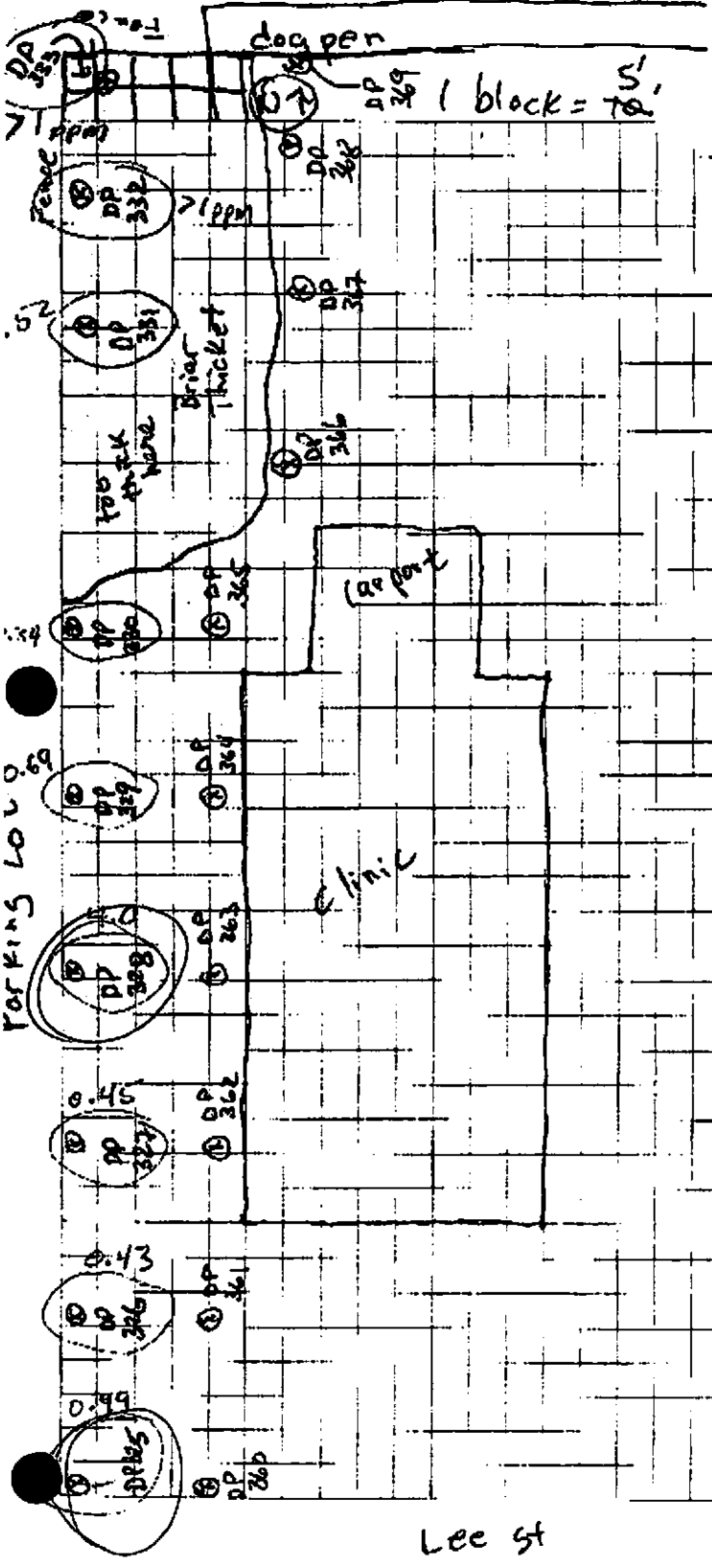


Job Name: Crystal Springs
Job Number: _____
Title: 407 N. Jackson Lewis Lang
Computed by: _____ Checked by: _____
Date: 8-16-00 Sheet: 4 of 11





Job Name: Crystal Springs
Job Number: _____
Title: Lee St. Medical
Computerd by: _____ Checked by: _____
Date: 8/17/00 Sheet: 5 Of: 16



Lee St



Job Name: Crystal Springs

Job Number:

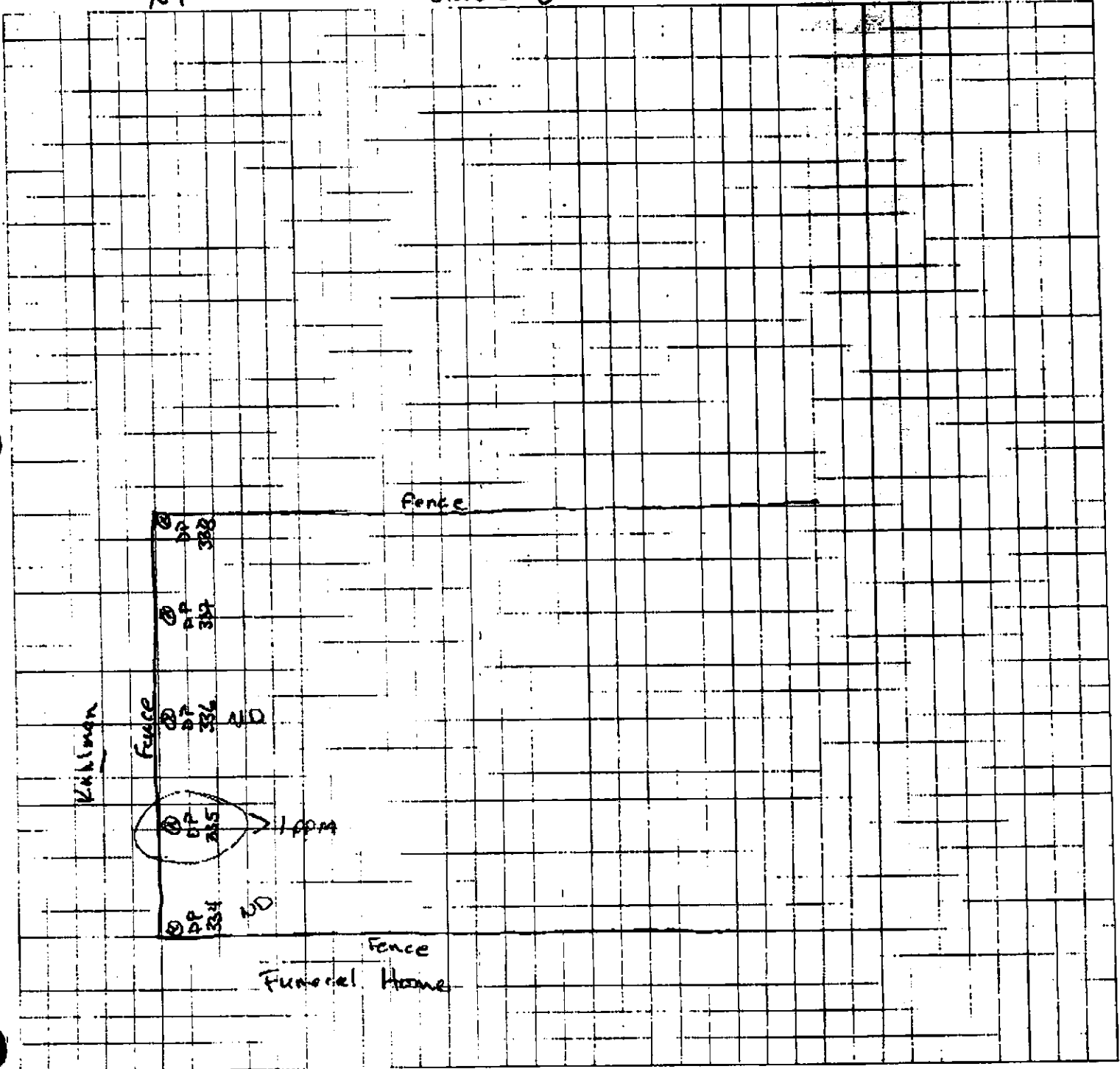
Title: 303 N. Jackson (stringer)

Computed by: Chester

Date: 8-17-00 sheet 6 of 11

NT

1 block = 5'





Job Name: Crystal Springs
 Job Number: _____
 Title: 219 N-Jackson - Perry Smith
 Computed by: TJF Checked by: _____
 Date: 8-17-00 Sheet: 7 Of: 11

1 block = 5'

②

Found Home

Kuhlman

⊙ DP 346 0.31

⊙ DP 345 AD

⊙ DP 344 0.17

⊙ DP 343 0.12 ⊙ DP 342

⊙ DP 341

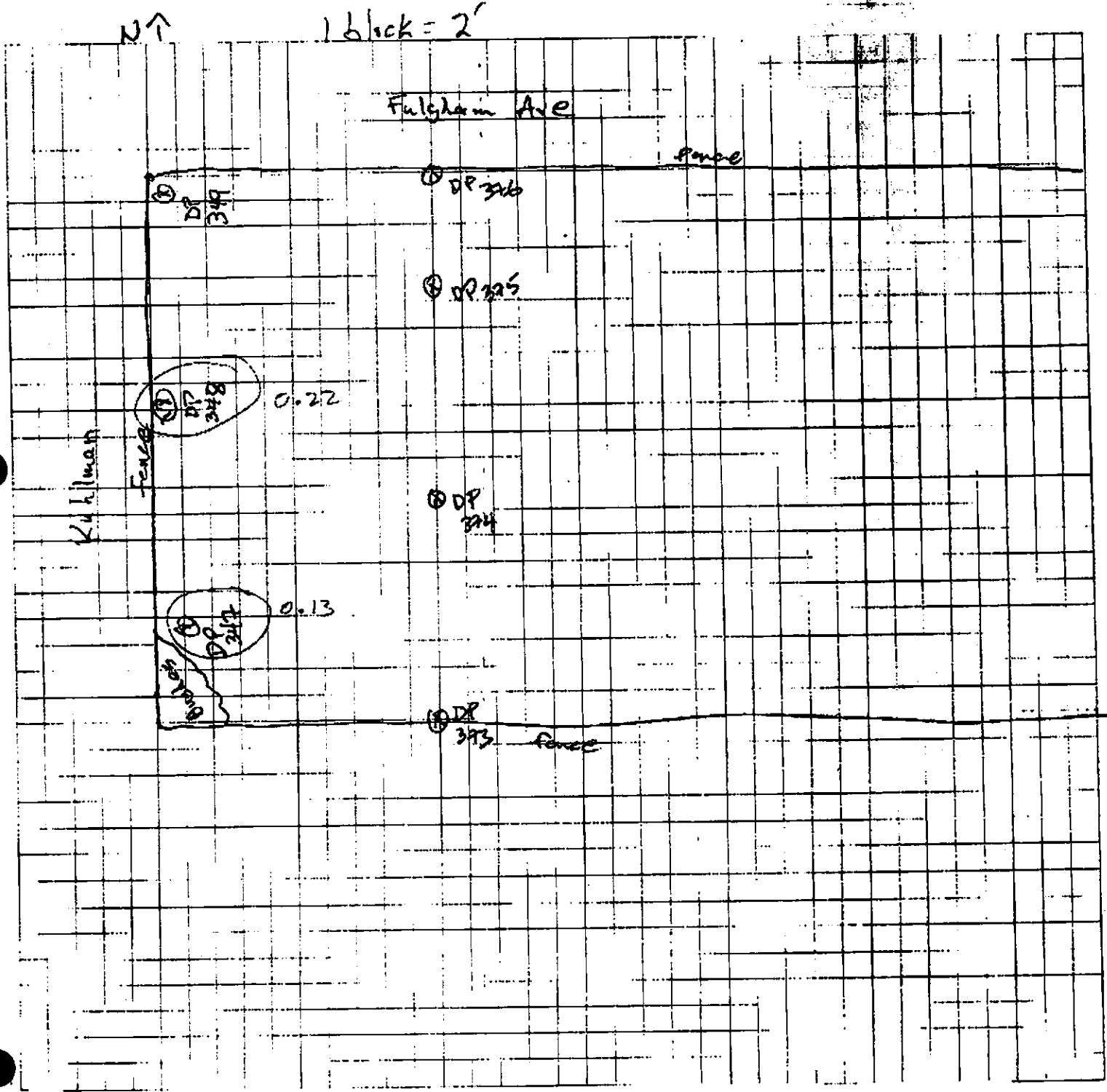
⊙ DP 340

⊙ DP 339

Kuhlman



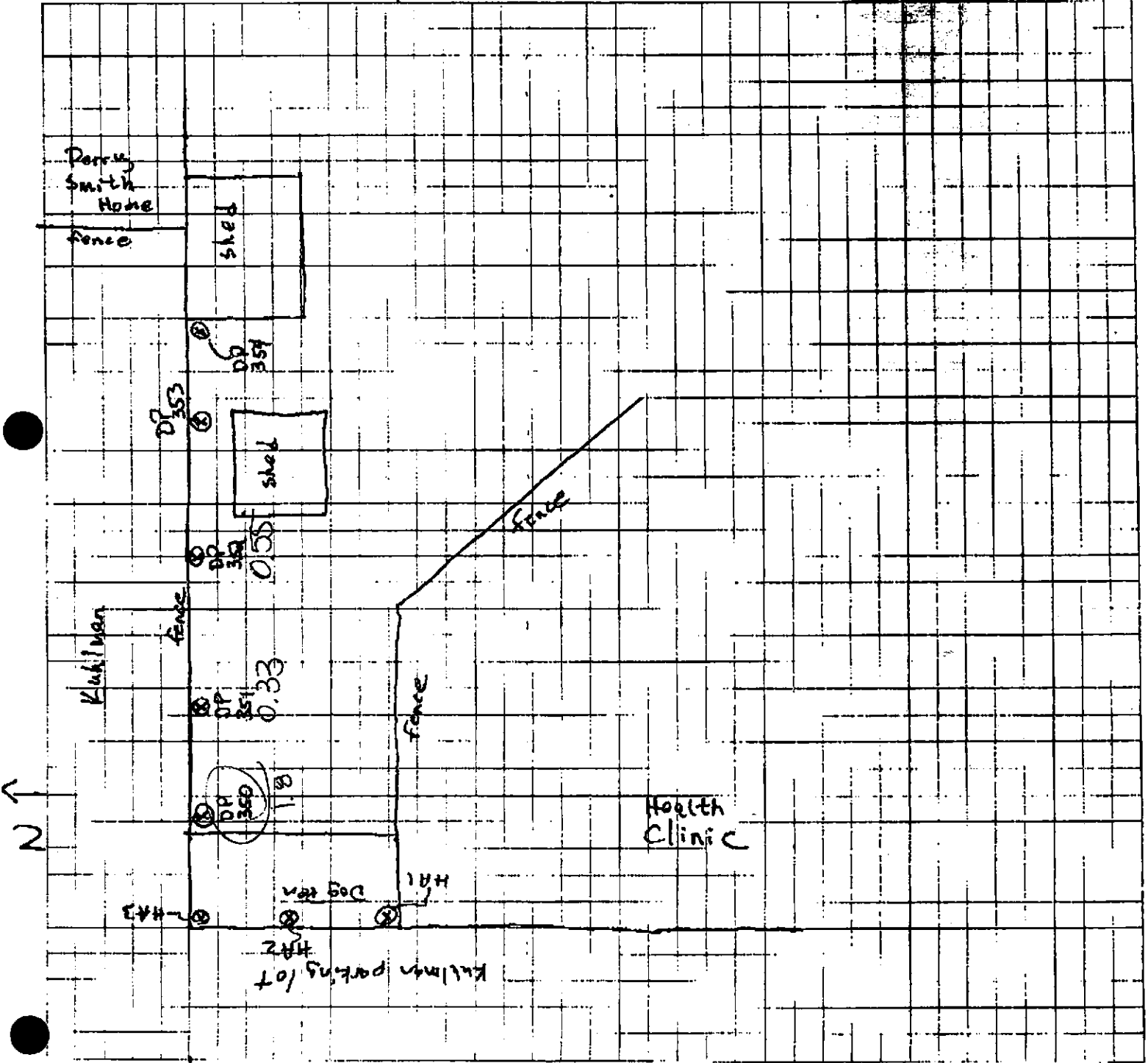
Job Name: Crystal Springs
 Job Number: _____
 Title: 409 N. Jackson (Andy Cooper)
 Computed by: BF Checked by: _____
 Date: 8-17-00 Sheet: 8 of 11





Job Name: Crystal Springs
 Job Number: _____
 Title: Dabney Home
 Computed by: TJE Checked by: _____
 Date: 8-17-00 Sheet 9 of 11

1 block = 5'



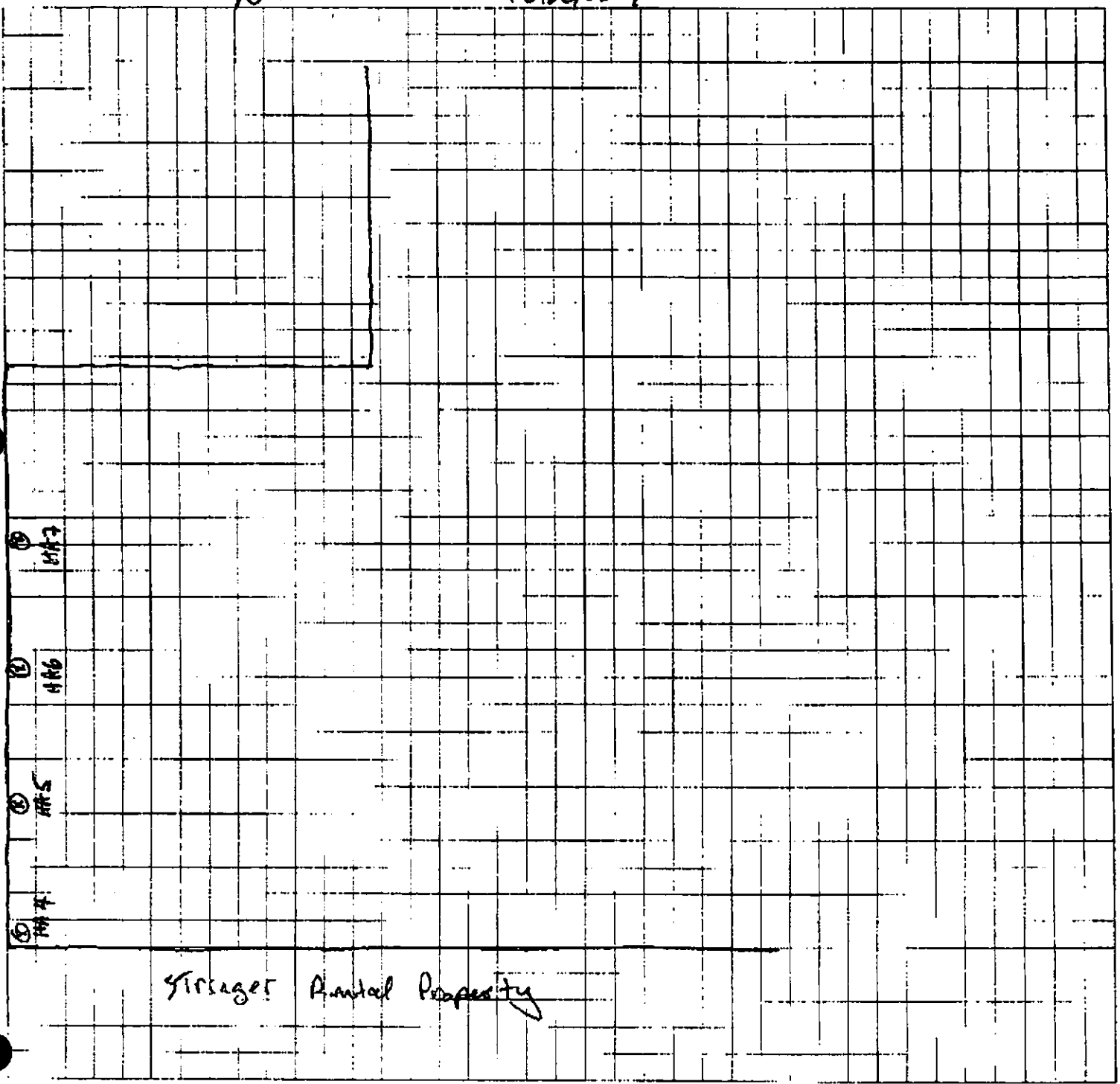


Job Name: Crystal Springs
 Job Number: _____
 Title: Wright House
 Computed by: _____ Checked by: _____
 Date: 8-18-00 Sheet: 10 of: 11

N ↑

1 block = 4'

Kuhlman



Storage Rental Property



Job Name: Crystal Springs
 Job Number: _____
 Title: Harold & Suzanne Wilson
 Computed by: TJF Checked by: _____
 Date: 8-18-00 Sheet: 15 Of: 11

N↑ 1 block = 4'

