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EarthFax

**EarthFax
Engineering Inc.**
Engineers/Scientists

7324 South 1300 East
Suite 100
Midvale, Utah 84047
Telephone 801-561-1555

October 5, 1987

Re: Contract 85-5323
September Monthly Report

Mr. Rick Summers
Reclamation Hydrologist
Utah Division of Oil, Gas, and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Rick:

The project tasks completed on Contract 85-5323 in September include: chart changes on the water level recorders and the recording rain gage, the water quality results from the morby and Boyer wells was received, and a water quality sample was collected from the New Well.

Stream Stations

Charts were changed on the Chalk Creek and intermittent stream water level recorders. The intermittent channel at SS-4 is dry. SS-6 on Chalk Creek has 1.00' of water above the inlet. Copies of the charts are included in Appendix A.

Recording Rain Gage

The chart on the recording rain gage has changed. Copies of the charts are included in Appendix B.

Ephemeral Streams

The ephemeral stream flow is non existent at this time of year. No runoff events had occurred at the new location on SS-3.

Water Quality Samples

A water quality sample was collected from the New Well. The results of the laboratory data for the September 10 sampling of the new well are located in Appendix C.

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Mr. Rick Summers
October 5, 1987
Page 2

Old Well

The standing water in the Old Well is 55.81' below the top of the casing.

New Well

The standing water level in the new well is 58.92' below the top of the casing.

Angus Pace has requested that anyone entering his property inform him prior to their visit (336-5375). He has had some recent problems with trespassing and is trying to restrict entry onto his property. If you have any questions or need additional information, please call.

Sincerely,



Randolph B. Gainer
Project Manager

Enclosures

EarthFax Engineering, Inc.
7324 South 1300 East Suite 100
Midvale, Utah 84047

October 1, 1987

INVOICE NO. 14

Client: Utah Division of Oil, Gas and Mining
EarthFax Project No.: C-30

Pay Item 02 (Contract Extension)

Labor:

Vicky S. Bailey	2.00 hr @ \$13.90	\$ 27.80
Daniel N. Gainer	8.50 hr @ \$22.30	189.55
Randolph B. Gainer	5.00 hr @ \$34.40	172.00
John D. Garr	3.00 hr @ \$22.30	66.90

Expenses:

D.N. Gainer Expense Report	\$ 38.62	
J.D. Garr Expense Report	38.53	
In-house Photocopies	1.05	78.20

Subcontractor:

Chemtech		300.00
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Total \$ 834.45

[Handwritten signature]
[Handwritten initials]
10/7/87

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Appendix A
Streamflow Information

OFF 28 Aug 87
11:45

007 7 1967

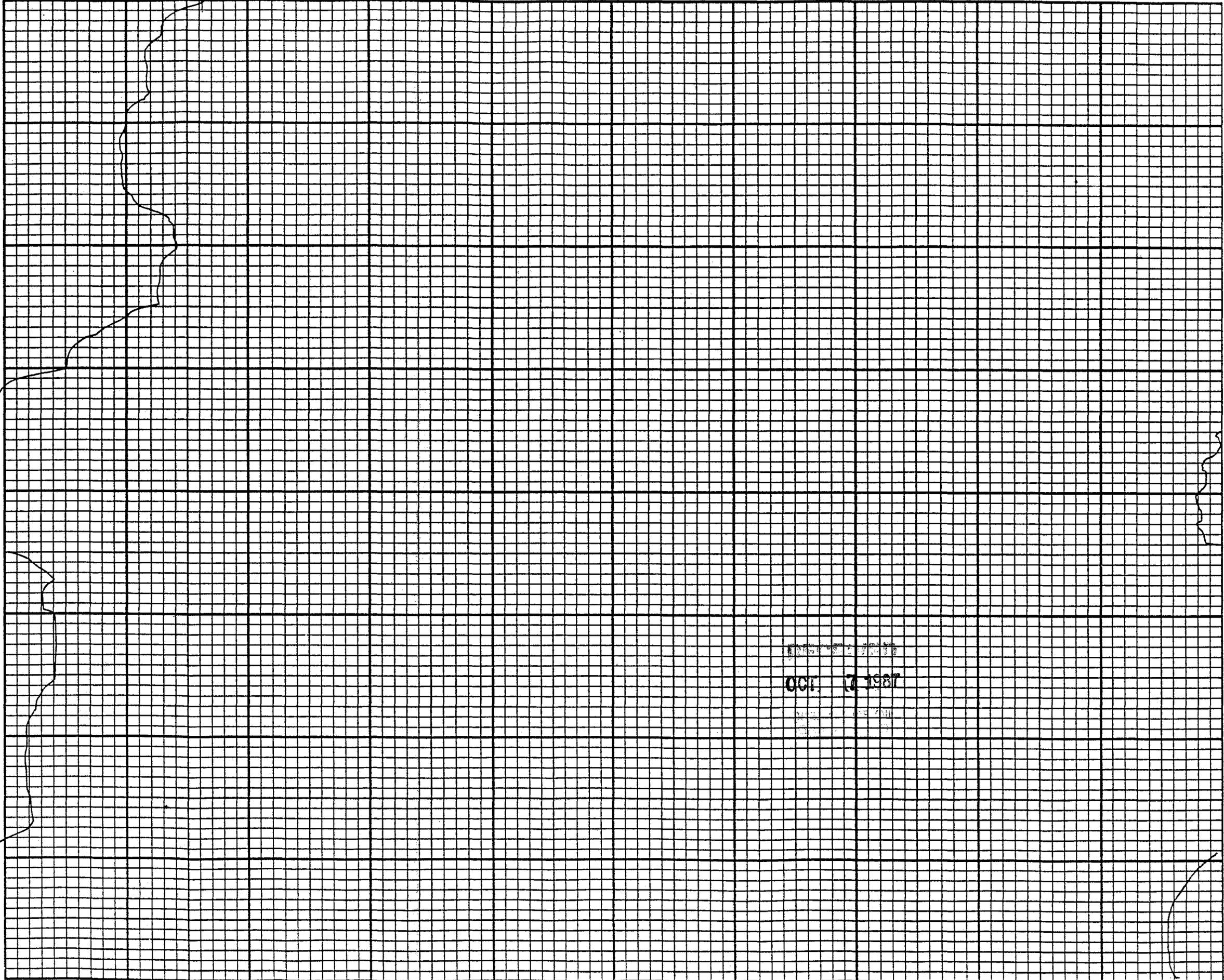
WATER



ON 28 AUG 87 11:20 am Leupold & Stevens, Inc., Beaverton Ore.

SS-6

Printed in U.S.A.



11:20 AM
 OCT 2 1987
 11:20 AM

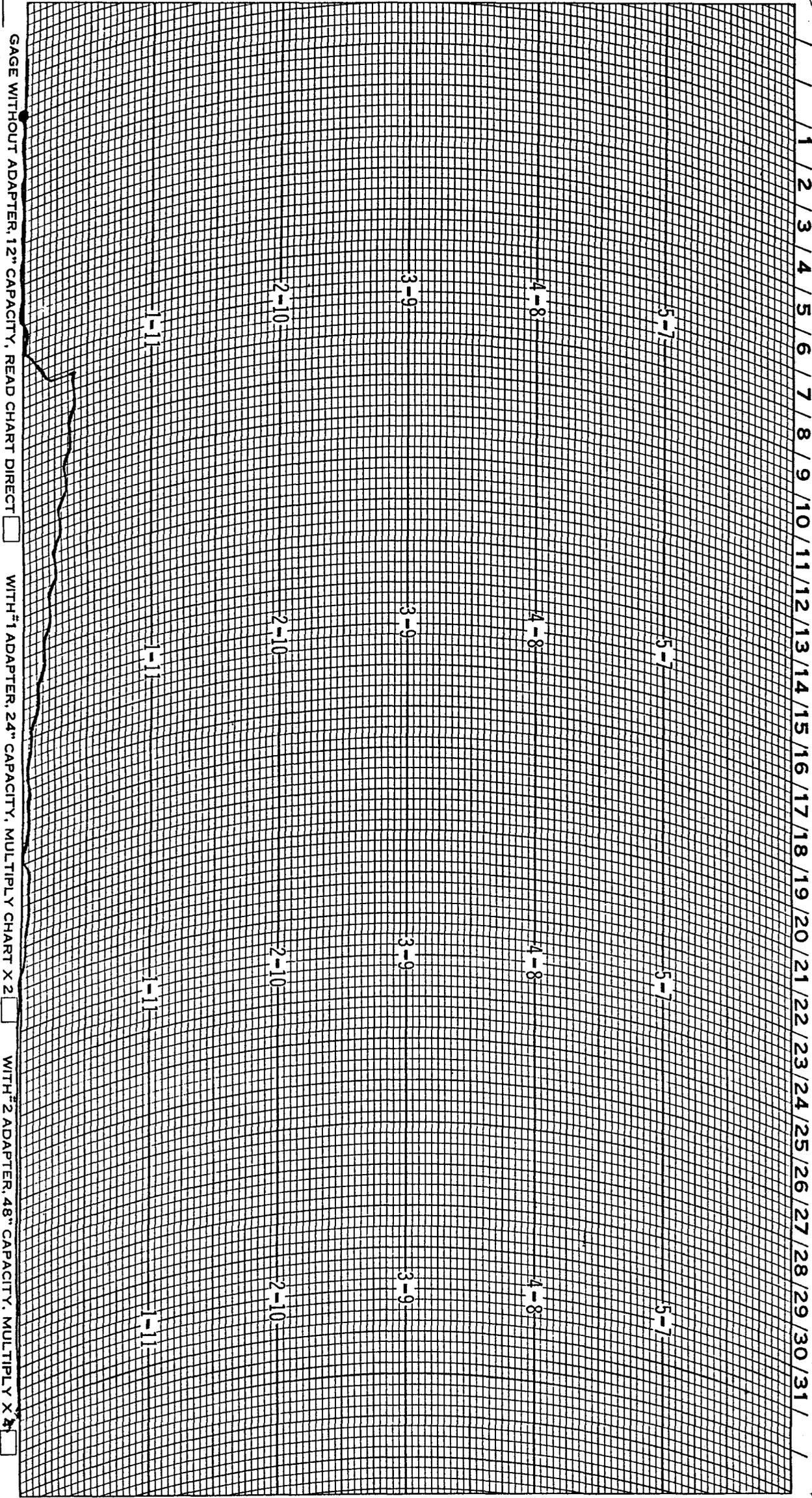
OFF 29 sep 87 13:15 Stevens Water Level Recorder — Type F



Appendix B
Rain Gage Chart

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CHART NO. 15008
12-INCH DUAL TRAVERSE MONTHLY-861 HRS.
UNIVERSAL RAIN GAGE
BELFORT INSTRUMENT COMPANY
BALTIMORE, MARYLAND, U.S.A.



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OBSERVER DWG
STATION Rain Gauge

ON 12:00 ^{AM}/_{PM} 28 Aug 19 87
OFF 14:25 ^{AM}/_{PM} 29 sep 19 87

Appendix C
Water Quality Data

29 September 1987

SAMPLED New Well Today. No other samples Collected.

13:00 ARRIVED in area

13:15 CHANGED Chart at 56-6. Bottom of Intake Nipple is 0.75' Below Water Surface. Stream is Very low.

SPOKE with MR. Pace, landowner, for a few MINUTES. He would like to be NOTIFIED Each month ~~before~~ Before we come up. (336-5375) wants to know how much longer Gauge will be Simultaneous = TTCC

13:45 SWL old well = 55.81' BTCC

13:50 changed chart 55-4

14:00 SWL New Well = 58.92' BTCC

PH = 8.00 T = 15.3°C EC = 1320 $\mu\text{mhos/cm}$
UNCORRECTED

Collected Samples.

Calibration PH 10 #7823 10.02 at 24.2
PH 4 #4795 4.00 at 23.0

14:25 changed Chart on Rain Gauge.

14:35 left area.

Dan Gainer

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CHEMTECH

CHEMICAL AND BACTERIOLOGICAL ANALYSES

367 SOUTH COMMERCE LOOP
OREM, UTAH 84057
(801) 226-8822

2875 MAIN
SUITE #101
SALT LAKE CITY, UTAH 84115
(801) 483-1162

TO: Earthfax Engineering
7324 So. 1300 E. Suite 100
Midvale, UT 84047

SAMPLE ID: Lab #UC20147 - New Well @ Boyer Mine, 7-31-87

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>LEVEL</u>
Chromium as Cr, mg/l	<.01
Copper as Cu, mg/l	<.01
Iron as Fe, mg/l	0.28
Lead as Pb, mg/l	0.010
Magnesium as Mg, mg/l	3.5
Manganese as Mn, mg/l	0.025
Mercury (Inorganic) as Hg, mg/l	<.0002
Molybdenum as Mo, mg/l	<.01
Nickel as Ni, mg/l	0.020
Sodium as Na, mg/l	216
Zinc as Zn, mg/l	0.16
Ammonia as NH ₃ -N, mg/l	1.18
Nitrate as NO ₃ -N, mg/l	<.01
Nitrite as NO ₂ -N, mg/l	<.005
Phosphate as PO ₄ -P, mg/l	<.01
pH Units	8.29

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CHEMICAL AND BACTERIOLOGICAL ANALYSES

367 SOUTH COMMERCE LOOP
OREM, UTAH 84057
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2875 MAIN
SUITE #101
SALT LAKE CITY, UTAH 84115
(801) 483-1162

TO: Earthfar Engineering
7324 So. 1200 E. Suite 100
Midvale, UT 84047

SAMPLE ID: Lab #U020147 - New Well @ Boyer Mine, 7-31-87

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>LEVEL</u>
TDS, mg/l	325
Total Hardness as CaCO ₃ , mg/l	34.1
Boron as B, mg/l	0.157
Bicarbonate as HCO ₃ , mg/l	417
Carbonate as CO ₃ , mg/l	2.1
Chloride as Cl, mg/l	115
Fluoride as F, mg/l	2.74
Selenium as Se, mg/l	<.002
Sulfate as SO ₄ , mg/l	59.0
Sulfide as S, mg/l	<.1
Aluminum as Al, mg/l	<.1
Arsenic as As, mg/l	<.01
Barium as Ba, mg/l	0.030
Calcium as Ca, mg/l	14.6
Cadmium as Cd, mg/l	<.01

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Rex Henderson

PROJECT # C-30-02

COMPANY NAME SOAP

Personnel/Company	Information	\$ Amount	Hours
Vicky S. Bailey	13.90		2
Eddie Franco			
Daniel N. Gainer	22.30		8.5
Randolph B. Gainer	34.40		5
John D. Garr	22.30		3
Lonn P. Hamp			
Clifford G. Wallman			
Richard B. White			
H. Victor Wuerch			
SUBCONTRACTORS:			
JD GARR Exp Rpt		38.53	
DN GAINER Exp Rpt		38.62	
Chemtech		300.00	
Photocopies	3.18	1.05	
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EarthFax Engineering, Inc.

Expense Report

Name: <u>Daniel N. Gainer</u>				Date Submitted: <u>9/30/87</u>			
Project Number: <u>C-30</u>		<u>C-30-02</u>					
Date: <u>9/29</u>							

General Expense Item	Amount						Total
Lodging							
Per Diem/ Meals							
Airfare							
Auto Rental							
Gas							
Field Supplies							
Copying							
Marketing							
<u>Ice</u>	<u>1.12</u>						<u>1.12</u>
Daily Total	<u>1.12</u>						<u>1.12</u>

Auto Expense Item	Mileage or Amount						Total
Miles Driven	<u>150</u>						<u>150</u>
Charge (@ 25 ¢)	<u>37.50</u>						<u>37.50</u>

Expense Summary	
General Expenses	<u>1.12</u>
+ Mileage Expenses	<u>37.50</u>
- Items Billed Directly to Company (Circled)	<u>0</u>
= Total Cash Expense	<u>38.62</u>
- Advances	<u>0</u>
= Balance Due Company / <u>Due Me</u>	<u>38.62</u>

Signed: <u>Daniel N. Gainer</u>	
Approved: <u>Rowlitz</u>	
Recorded:	Refunded:

Instructions:

1. Circle all items billed directly to the company.
2. Obtain and attach copies of receipts whenever possible.
3. Explain all marketing and unusual expenses on a separate sheet.

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C-30
SOAP

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2.0000 2.0000
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5.0000 5.0000
6.0000 6.0000
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9.0000 9.0000
10.0000 10.0000

Ice
THERMOMETER
CONE THERM

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EarthFax Engineering, Inc. Expense Report

Name: JOHN D. GARR				Date Submitted: 9-28-87			
Project Number:	C-30						
Date:	9-05						

General Expense Item	Amount							Total
Lodging								
Per Diem/Meals								
Airfare								
Auto Rental								
Gas								
Field Supplies (ICE)	3.03							3.03
Copying								
Marketing								
Daily Total	3.03							3.03

Auto Expense Item	Mileage or Amount							Total
Miles Driven	142							
Charge (@ 25¢)	35.50							

Expense Summary	
General Expenses	3.03
+ Mileage Expenses	35.50
- Items Billed Directly to Company (Circled)	—
= Total Cash Expense	38.53
- Advances	—
= Balance Due Company / Due Me	38.53

Signed: <i>John D. Garr</i>	
Approved: <i>R. White</i>	
Recorded:	Refunded:

Instructions:

1. Circle all items billed directly to the company.
2. Obtain and attach copies of receipts whenever possible.
3. Explain all marketing and unusual expenses on a separate sheet.

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0.95+

0.95+

0.95+

0.18+

3.03*

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COPY LOG

Date	No. Copies	Project	Initials
9/30	43	C-76	USB
}	30	C-20-10	USB
}	12	C-20-12	}
}	14	C-20-14	}
}	30	C-20-17	}
}	28	C-27	}
}	18	C-30-02	}
}	8	C-35	}
}	18	C-51	}
}	4	C-65	}
9/30	14	C-67	}
}	16	C-69-01	USB
}	14	C-73	}
}	18	C-74	}
}	16	C-76	}
}	8	C-77	}
}			
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RECORDED
 OCT 17 1957
 14 OF 21

