

NOTICE TO WATER WELL CONTRACTOR
The original and first copy
of this report are to be
filed with the

WATER WELL REPORT

RECEIVED

STATE OF OREGON

JUN 28 1973

State Well No. 405/8E-6

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

KLAM
13719

(Please type or print)

STATE ENGINEER

State Permit No.

(Do not write above this line)

SALEM OREGON

(1) OWNER:

Name Klamath River Acres
Address P.O. Box 52
Keno, Oregon

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
6" Diam. from 1 ft. to 36 ft. Gage 1250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? Yes No
Type of perforator used _____
Size of perforations in. by in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? Yes No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " " " "
" " " " " "
Jet test 90 gal./min. with 63 ft. drawdown after 1 hrs.
Artesian flow g.p.m. _____
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 36 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 13 sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite _____
Number of pounds of bentonite per 100 gallons _____
of water _____ lbs./100 gals.
Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Klamath Driller's well number _____
1/4 1/4 Section 6 T. 40 R. 8E W.M.
Bearing and distance from section or subdivision corner 120' N
75' E from the SW subdivision
corner 50005050

(11) WATER LEVEL: Completed well.

Depth at which water was first found 45 ft.
Static level 15 ft. below land surface. Date 6-22-73
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8
Depth drilled 120 ft. Depth of completed well 95 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Soil - sandy - brown	0	3	
Clay with boulders	3	6	
Clay - brown	6	18	
Clay with boulders	18	23	
Clay - brown	23	28	
Clay - Red	28	31	
Lava - black	31	45	
Cinders - brown	45	49	15
Lava - black	49	63	
Lava - broken	63	69	15
Cinders - Red	69	78	15
Basalt - blue	78	120	

Work started 6-22 1973 Completed 6-22 1973
Date well drilling machine moved off of well - 6-22 1973

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] J. L. ... Date 6-25, 1973
(Drilling Machine Operator)

Drilling Machine Operator's License No. 819

Water Well Contractor's Certification:

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

Name Water Well Drillers Inc.
(Person, firm or corporation) (Type or print)

Address 1923 Delta Waters Rd. Medford

[Signed] Charles D. ...
(Water Well Contractor)

Contractor's License No. 545 Date 6-25, 1973



CHARLTON LABORATORIES

unit of METALLURGICAL ENGINEERS, INC.
testing and analyses

2340 S.W. CANYON ROAD
P.O. BOX 1048
PORTLAND, OREGON 97207
503/228-9663

working with MATERIALS ECOLOGY INDUSTRIAL PRODUCTS AND PROCESSES

TO: **Dortch-Gresdell & Associates**
Attention: Mr. Bob Dortch
1905 Oregon Avenue
Klamath Falls, Oregon 97601

CLIENT NO.

REFERENCE NO. 812193

DATE: 6-7-73

SUBJECT: ANALYSIS OF WATER: PUBLIC WATER SUPPLY
PER "STANDARD METHODS FOR EXAMINATION OF WATER AND WASTE WATER", 13th Ed.
One Water Sample(s) Received as of 5-31-73

PHYSICAL	SPECIFIED MAXIMUM		MISCELLANEOUS	SPECIFIED MAXIMUM	
TOTAL SOLIDS	500	165	pH VALUE		7.6
DISSOLVED		165	ACIDITY as CaCO ₃		
SUSPENDED		0	ALKALINITY as CaCO ₃		110
VOLATILE SOLIDS		47	HYDROXIDE CARBONATE		0
DISSOLVED			BICARBONATE		110
SUSPENDED			CHLORINE (Cl), Residual		
SETTLABLE SOLIDS ml/l					
TURBIDITY, JACKSON UNITS	5	0.7			
COLOR	15 *	< 5			
THRESHOLD ODCR	3				
CONDUCTANCE, MICROMHOS/CM		138			
HARDNESS AS CaCO ₃					
TASTE, ODOR (PANEL)					
CHEMICAL - METALLIC			CHEMICAL - NON-METALLIC		
SODIUM (Na)		11	SILICA (SiO ₂)		39
POTASSIUM (K)		2.8	CHLORIDE (Cl)	250	19
CALCIUM (Ca)		26	SULFATE (SO ₄)	250	21
MAGNESIUM (Mg)		18	FLUORIDE (F)	1.8	0.17
ALUMINUM (Al)			NITRATE NITROGEN (N)	10 *	< 0.02
IRON (Fe)	0.3	0.03	NITRITE NITROGEN (N)	*	< 0.04
MANGANESE (Mn)	0.05	0.02	AMMONIA NITROGEN (N)		
ARSENIC (As)	0.05 *	< 0.005	ORGANIC NITROGEN (N)		
BARIUM (Ba)	1.0		KJELDHAL NITROGEN (N)		
CADMIUM (Cd)	0.01		PHOSPHORUS, TOTAL (P)		
CHROMIUM, TOTAL (Cr)			PHOSPHORUS, HYDROLYZABLE (P)		
CHROMIUM, HEXA-VALENT (Cr)	0.05		CARTHOPHOSPHATE (P)		
COPPER (Cu)	1.0		SULFIDE (S)		
LEAD (Pb)	0.05		SULFITE (SO ₃)		
MERCURY (Hg)	0.035		BERYLLIUM (Be)		
NICKEL (Ni)			BORON (B)		
SILVER (Ag)	0.05		BROMIDE (Br)		
STRONTIUM (Sr)			CYANIDE (CN)	0.2	
TIN (Sn)			IODIDE (I)		
ZINC (Zn)	5		SELENIUM (Se)	0.01	

QUANTITIES ARE REPORTED AS MILLIGRAMS PER LITER, UNLESS OTHERWISE INDICATED.

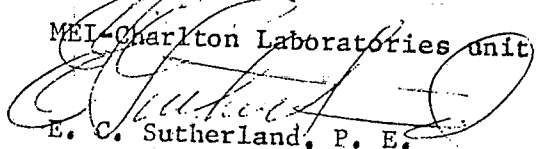
SPECIFICATIONS ARE TAKEN FROM UNITED STATES PUBLIC HEALTH SERVICE DRINKING WATER STANDARDS UNLESS OTHERWISE STATED.

B3/805

over--

MICROBIOLOGICAL		SPECIFIED MAXIMUM	ORGANIC		SPECIFIED MAXIMUM
PLATE COUNT, per ml			OXYGEN DEMAND		
COLIFORM, MPN/100 ml			BIOCHEMICAL-200-5 day		
TOTAL	2.2		BIOCHEMICAL - ULTIMATE		
FECAL			CHEMICAL - CO ₂		
FERO BACTERIA			CHLORINE DEMAND		
			FRS.		
			PPM PES. CL.		
			TOTAL ORGANIC CARBON		
			SURFACTANTS - MBAS	0.5	
			OIL AND GREASE		
			PHENOLICS AS PHENOL	0.001	
BIOLOGICAL			PESTICIDES		
DISSOLVED GASES			RADIOACTIVITY, pc/l		
CARBON DIOXIDE (CO ₂)			GROSS BETA	1,000	
OXYGEN (O)			RADIUM 226	3	
			STRONTIUM 90	10	
FIELD DATA					
COLLECTED	5-31-73				
LECTED BY	client				
SOURCE	not given				
* (<) Symbol denotes "less than"					
* (>) Symbol denotes "greater than"					

Sensitivities of tests meet requirements of the Department of the Army, Corps of Engineers, within practical limits of the test methods.

MEL-Charlton Laboratories unit

 E. C. Sutherland, P. E.
 Project Director

ECS:pm
 cc: 2



P.O. BOX 1043
 PORTLAND, OREGON 97207

serving the needs of the Northwest since 1934

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**MEI
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TO: Dortch-Gresdel & Associates
1905 Oregon Avenue
Klamath Falls, Oregon 97601

CLIENT NO.

REFERENCE NO. 901089

DATE: 7-26-73

SUBJECT: ANALYSIS OF WATER: PUBLIC WATER SUPPLY
PER "STANDARD METHODS FOR EXAMINATION OF WATER AND WASTE WATER", 13th Ed.
One Water Sample(s) Received as of July 12, 1973

PHYSICAL	SPECIFIED MAXIMUM		MISCELLANEOUS	SPECIFIED MAXIMUM	
TOTAL SOLIDS	500	233	pH VALUE		7.2
DISSOLVED		233	ACIDITY as CaCO ₃		-
SUSPENDED		0	ALKALINITY as CaCO ₃		102
VOLATILE SOLIDS		43	HYDROXIDE		-
DISSOLVED		43	CARBONATE		0
SUSPENDED		0	BICARBONATE		102
SETTLABLE SOLIDS ml/l		-	CHLORINE (Cl), Residual		-
TURBIDITY, JACKSON UNITS	5	1.0			
COLOR	15	25 *			
THRESHOLD ODOR	3	5			
CONDUCTANCE, MICROMHOS/CM		77			
HARDNESS AS CaCO ₃					
TASTE, ODOR (PANEL)					
CHEMICAL - METALLIC			CHEMICAL - NON-METALLIC		
SODIUM (Na)		16	SILICA (SiO ₂)		50
POTASSIUM (K)		-	CHLORIDE (Cl)	250	2
CALCIUM (Ca)		19	SULFATE (SO ₄)	250	10
MAGNESIUM (Mg)		8	FLUORIDE (F)	1.8	0.3
ALUMINIUM (Al)		-	NITRATE NITROGEN (N)	10	<0.01 *
IRON (Fe)	0.3	0.17	NITRITE NITROGEN (N)		<0.04 *
MANGANESE (Mn)	0.05	0.13	AMMONIA NITROGEN (N)		
ARSENIC (As)	0.05	<0.005*	ORGANIC NITROGEN (N)		
BARIUM (Ba)	1.0	-	KJELDAHL NITROGEN (N)		
CADMIUM (Cd)	0.01		PHOSPHORUS, TOTAL (P)		
CHROMIUM, TOTAL (Cr)			PHOSPHORUS, HYDROLYZABLE (P)		
CHROMIUM, HEXAVALENT (Cr)	0.05		ORTHOPHOSPHATE (P)		
COPPER (Cu)	1.0		SULFIDE (S)		
LEAD (Pb)	0.05		SULFITE (SO ₃)		
MERCURY (Hg)	0.005		BERYLLIUM (Be)		
NICKEL (Ni)			BORON (B)		
SILVER (Ag)	0.05		BROMIDE (Br)		
STRONTIUM (Sr)			CYANIDE (CN)	0.2	
TIN (Sn)			IODIDE (I)		
ZINC (Zn)	5		SELENIUM (Se)	0.01	

QUANTITIES ARE REPORTED AS MILLIGRAMS PER LITER, UNLESS OTHERWISE INDICATED.

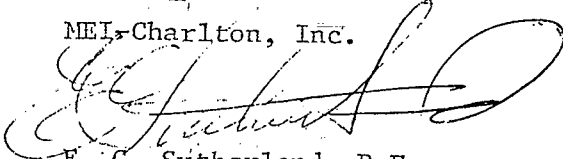
SPECIFICATIONS ARE TAKEN FROM UNITED STATES PUBLIC HEALTH SERVICE DRINKING WATER STANDARDS UNLESS OTHERWISE STATED.

MICROBIOLOGICAL	SPECIFIED MAXIMUM			ORGANIC	SPECIFIED MAXIMUM		
PLATE COUNT, per ml	500	}		OXYGEN DEMAND		}	
COLIFORM, MPN/100 ml							
TOTAL	2.2			BIOCHEMICAL-800-5 day			
FECAL				BIOCHEMICAL - ULTIMATE			
IRON BACTERIA				CHEMICAL - COD			
				CHLORINE DEMAND			
				HRS.			
				PPM RES. CL.			
				TOTAL ORGANIC CARBON			
				SURFACTANTS - MBAS	0.5		
				OIL AND GREASE			
				PHENOLICS AS PHENOL	0.001		
BIOLOGICAL				PESTICIDES			
DISSOLVED GASES				RADIOACTIVITY, pc/l			
CARBON DIOXIDE (CO ₂)		}		GROSS BETA	1,000	}	
OXYGEN (O)							
				RADIUM 226	3		
				STRONTIUM 90	10		

FIELD DATA
 DATE COLLECTED: received 7-12-73
 COLLECTED BY: client
 SOURCE: well water from domestic water system

* (<) Symbol denotes "less than"
 * (>) Symbol denotes "greater than"

Sensitivities of tests meet requirements of the Department of the Army, Corps of Engineers, within practical limits of the test methods.

MEI-Charlton, Inc.

 E. C. Sutherland, P.E.
 Project Director

ECS:lr
 cc: 2

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WELL TEST REPORT

Interstate PUM. & MECH. INC.
 TU 2-3464 KLAMATH FALLS, OREGON



For: Bob Dortch
 1905 Oregon Avenue
 Klamath Falls, Oregon 97601

Date Tested June 16, 17, & 23 1983

Location of Well Keno, Oregon

Inside Diameter 8 Depth 300 Ft.

Feet of Inch Casing Driller

300 Feet of 5 Inch Column and 6 Stage 8 Inch Bowls.

Installed by INTERSTATE PUMP COMPANY, INC., KLAMATH FALLS, OREGON 97601

Static Water Level at Start of Test 60 Ft.

CAPACITY GPM	PUMPING LEVEL	DRAWDOWN	TIME	CONDITION OF WATER (SANDY, MUDDY, CLEAR, ETC.)
100	271 ft.		1 hr.	Clear
"	270 Ft.		2 Hrs.	"
"	280 Ft.		30 Min.	"
"	269 Ft.		2 1/2 Hrs.	"
"	270 Ft.		2 Hrs.	"
"	275 Ft.		4 Hrs.	"
"	275 Ft.		12 Hrs	"
68	207 Ft.		1 Hr.	"
75	227 Ft.		1 Hr.	"
81	232 Ft.		1 Hr.	"
100	270 Ft.	Broke Suction	1 Hr.	"
Back to				
81	232 Ft.		1 Hr.	"
75	227 Ft.		1 Hr.	"
68	207 Ft.		1 Hr.	"
			31 Hrs.	
			Total Test	

TEMPERATURE 60

Static Water Level After Pump Removed Well recovered after shutoff.

REMARKS:

Signed by *[Signature]*

WELL TEST REPORT

KLAMATH FALLS, OREGON

For: Rob Dortch



1905 Oregon Avenue

Date Tested July 6 & 7 1973

Klamath Falls, Oregon 97601

Location of Well Keno, Oregon Well #2

Inside Diameter 8" Depth 120 ft. ? (per Mr. Church)

Feet of Inch Casing. Driller

80 Feet of 5 Inch Column and 6 Stage 8 (7" od) Inch Bowls.

Installed by Interstate Pump Company Inc. Klamath Falls, Oregon 97601

Static Water Level at Start of Test 30' Approx.

CAPACITY GPM	PUMPING LEVEL	DRAWDOWN	TIME	CONDITION OF WATER (SANDY, MUDDY, CLEAR, ETC.)
87	78'		2 Hrs.	Clear
87	78'		2 Hrs.	"
87	78'		2 Hrs.	"
87	78'		2 Hrs.	"
87	78'		2 Hrs.	"
87	78'		2 Hrs.	"
81	69'		2 Hrs.	"
81	69'		2 Hrs.	"
81	69'		2 Hrs.	"
75	59'		2 Hrs.	"
75	59'		2 Hrs.	"
75	59'		2 Hrs.	"
			24 Hr. Test	
				TEMPERATURE <u>52</u>

Static Water Level After Pump Removed

REMARKS: Well should produce 75 GPM @ 60' lift.

Signed by *[Signature]*



ROCKY POINT

E.E. STOREY WELL DRILLING

3847 HOPE STREET - KLAMATH FALLS, OREGON 97601
503/884-3990 - CAL. LIC. NO. 192422 - ORE. LIC. NO. 74



A.R.B. INC.
P.O. BOX 1559
BAKERSFIELD, CALIFORNIA
ROCKY POINT RESORT
NW 1/4 SW 1/4 S35 T35 SR6R

RECEIVED

APR 9 1975

STATE ENGINEER
SALEM, OREGON

Started 9/17/74
Finished 9/26/74

LOG #1

- 0 - 29 brown clay and boulders
- 29 - 36 black basalt
- 36 - 47 brown sandstone, broken
- 47 - 57 black basalt
- 57 - 60 bubbly black lava

6 5/8 X .250 casing set at 52'; HC shoe; 3 1/2' above ground level

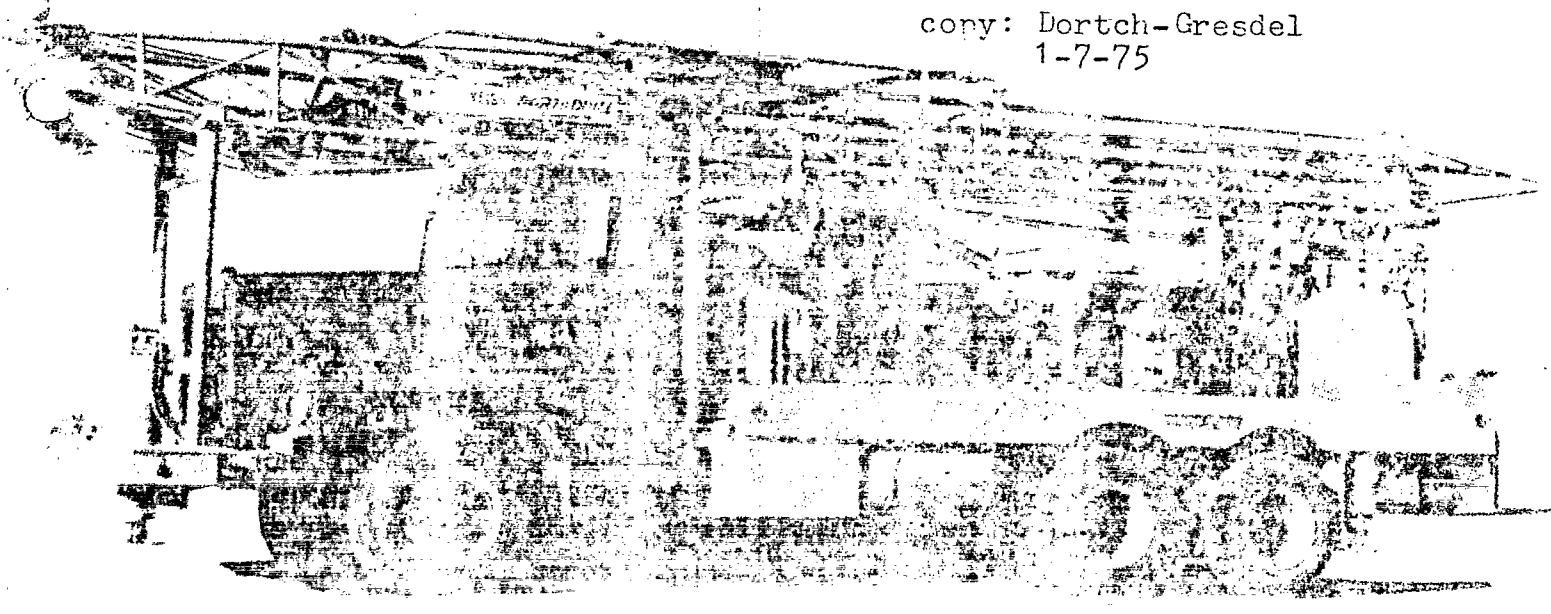
179 sacks cement and 15 yards sand and gravel around casing
Static 21'

Temperature 36 degrees
Air lift: 36 GPM at 25'
100 GPM at 25'
150 GPM at 40'

Finished depth of well 59'

3 HP pump (Reda) installed at 40', Pump 75 GPM open discharge

copy: Dortch-Gresdel
1-7-75



E.E. STOREY WELL DRILLING



3847 HOPE STREET - KLAMATH FALLS, OREGON 97601
503/884-3990 - CAL. LIC. NO. 192422 - ORE. LIC. NO. 74

A.R.B. INC.
P.O. BOX 1559
BAKERSFIELD, CALIFORNIA
ROCKY POINT RESORT
NW $\frac{1}{4}$ SW $\frac{1}{4}$ S35T35SR6E

Started 9/26/74
Finished 10/10/74

LOG WELL #2

0 - 36 boulders and brown clay
36 - 46 black basalt
46 - 65 broken black basalt

6 5/8 X .250 casing set at 60'; HC shoe: 4' above ground level

75 sacks cement and 6 yards sand for seal

Temperature 35 degrees

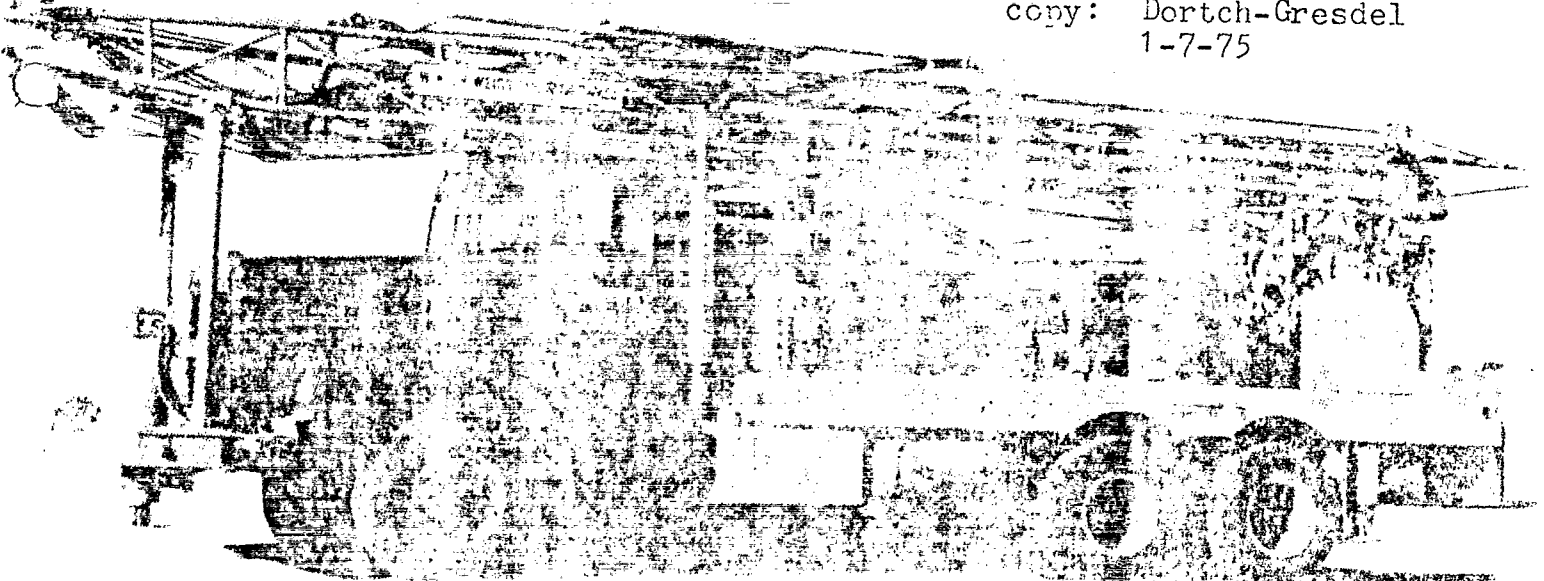
Static 19'

Bottom finished at 65'

3 HP (Reda) pump installed at 40', Pumped 75 GPM at open discharge

Air lift: 100 GPM at 40'

copy: Dortch-Gresdel
1-7-75



K LAMATH
B ASIN
 WATER
 AND
 SOIL
 TESTING
 LABORATORY

ENVIRONMENTAL CONSULTANTS - FIELD AND PLANT MONITORING - IMPACT STATEMENTS
 200 EAST MAIN - KLAMATH FALLS, OR 97601 - 503/882-8677

November 18, 1974

Dave Hammond
 Dortch-Gresdel & Associates
 1905 Oregon Avenue
 Klamath Falls, Oregon 97601

Dear Sir:

The chemical analysis of Rocky Point Well #1 and Well #2 are as follows:

	Well #1	Well #2
Color	< 1 Units	< 1 Units
Odor	< 1 Threshold Odor	< 1 Threshold Odor
Turbidity	< 1 JTU	< 1 JTU
Total Solids	4.40 mg/l	4.40 mg/l
Volatile Solids	4.25 mg/l	4.25 mg/l
pH	8.20	9.60
Hardness	48.0 mg/l as CaCO ₃	40.8 mg/l as CaCO ₃
Calcium	38.0 mg/l	31.6 mg/l
Magnesium	8.4 mg/l	7.6 mg/l
Iron	0.042 mg/l	0.077 mg/l
Manganese	0.00 mg/l	0.00 mg/l
Conductance	62 mc mho/cm	44 mc mho/cm
Chloride	0.62 mg/l	0.99 mg/l
Sodium	3.20 mg/l	2.60 mg/l
Sulfates	0.311 mg/l	0.255 mg/l
Silica	27.1 mg/l	27.1 mg/l
Nitrite Nitrogen	0.00 mg/l	0.00 mg/l
Nitrate Nitrogen	0.56 mg/l	1.68 mg/l
Arsenic	< 0.01 mg/l	< 0.01 mg/l
Fluoride	0.01 mg/l	0.01 mg/l

The Arsenic and Fluoride analyses were performed by Umpqua Research Company, Myrtle Creek, Oregon.

Thank you.

Sincerely,

Don J. Karr
 Don J. Karr