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IND LANTDIV 4-4355/3 (R	ev. 6/76)			-	CONTRACT NO.	C.(A	TRANSMI	TTAL NO.	DATE 2-13-78
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Contractor Appr		one of the follow	pecification div ving categories of which is being OICC Approv	on each trar submitted	nsmittal form,	viation/Sul For OICC	ostitution	A-Appr D-Disa AN-Ap	oved pproved proved as noted proved as noted peipt acknowledged. ments
O PROJ. SPEC. S Z & PARA. and H PROJ. DWG. N	/or	(Ту	pe, size, model	NTIFICATIO no., Mfg. na ire number)	N		NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
1 15201-5	5.2 5.	tainless	s Stee	1 W	ell Scri	eens	7	A	Cas 405 2/21
2 15201-5	7.3 G	ravel	Ana	ysi	s		7	AN.	CCS 405-2/21/
				- 4-1-				C	23
		<u></u>							77
COPY OF TRANSMITTAL	AND SUBMITTAL	S TO ROICC	1		CONTRACTOR REP	RESENTATIN	E (Signature)	10	1
DATE RECEIVED BY REV	IEWER	FROM (R	Reviewer)	e	will	то	<u></u>	Cou	m fr
Submittals are tractor calls at	tention to and forwarded to L	action indicated. A supports the dev	viation.				ation from t	5	equirements unless the con below on ONE COPY of the
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COPIES TO: ROICC (2) LANTDIV (1) A-E (1)	The second second	DATE	318	X	SIGNATURE	1			

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Mustang Monometal Rod-base stainless steel well screens that can take it.

When the time required to develop a well demands the nonrestrictive design of a rod-base screen, turn to Mustang Monometal. The superiority of a Mustang Monometal starts with the size, shape and number of longitudinal rods.

The teardrop-shaped rod minimizes flow resistance while maintaining high collapse strength. In our heavy duty model, rod size is larger than standard screens, and the number of rods is greater.

All Monometal screens feature Keystone "V" shaped wrap wire for greater flow capacity. Consistent slot accuracy is maintained by machine controlled spacing, with fusion welding under water at each rod crossing.

Type-304 Stainless Steel gives maximum resistance to electrolysis, incrustation, corrosion and galvanic actions- Type-316 to also available.

Mustang Monometal may be ordered in either Standard or Heavy Duty models in diameters through 12 inches and lengths through 20 feet. Slot sizes range from .001 inch upward. To get the best rod-base screen you can buy, specify Mustang Monometal.

Mustang Pipe-Base Screens

Rugged, precision screens combining high strength, large inlet area, low fluid velocity and effective sand control for even extreme conditions.

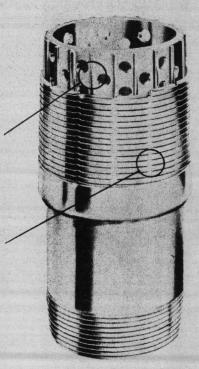
When well conditions require a pipe base screen that can take abuse and still deliver, Mustang has it. No other screen can give you a better combination of strength, capacity and trouble free screening.

Mustang Pipe-Base screens feature Keystone "V" shaped stainless steel wrap wire to reduce flow friction. Precision spacing lugs control accuracy of the slot opening. Mustang Pipe Base Screens can be driven without splitting or deforming, and they stand washing in at even the highest of mud pump pressures.

And when you specify Mustang Pipe Base, you know you're getting the very best in engineering, materials and craftsmanship that can be found. Diameters through 14 inches and lengths through 45 feet are available in all slot sizes.

See your Mustang catalog for full specifications and engineering data or write directly to Mustang.





EAST COAST CONSTRUCTION CO., INC. CONTRACT N62470-76-C-6800 REPLACE WATER WELLS MARINE CORPS BASE CAMP LEJUENE, NC

Plant: 5125 Glenmont, Houston, Texas 77036 Mail: P.O. Box 104. Bellaire, Texas 77401 Phone (713) 667-9484

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ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511	
APPROVED AS NOTED	
SUBJECT TO THE RELUREMENTS OF A COMMENT	
CONTRA T 0.5-76-0000	
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TION THE CONTROLOGIC CHALL BE RESPONS- IBLE FOR TO DOTO HALD BE PHYSICAL DIMEN- SIONS & TA, COORD WITHON OF TRADES, ETC., AS	
REVIEWER CCS 21 FEB 1978	
FOR OFFICER IN CHARGE OF CONSTRUCTION	

Engineering data

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NOMINAL SCREEN SIZE	OUTSIDE DIAMETER		Total Slot Area per Ft. of Screen for Various Gauges (Sq. In. per Ft.)											
(INCHES)	TINCHESI	INCHES	,008	.010	.015	.020	.030	.040	.050	.080	.100	,125	.150	
1-1/4	EX.	1.5/4	7.36	8,94	12.52	15.65	20.86	25.03	28.45	-		1	-	
14/2	2.1/8	1-1/2	8.43	10.23	14.33	17.91	23.88	28.65	32.56	· · · · · · · · · · · · · · · · · · ·	- · ·	-	-	
2	2-5/8	2	11.62	14.11	19.75	24.69	32.92	39.51	44.90	56.44	···· -	-		
2.1/2	3	21/2	12.73	15,46	21.64	27.05	36.06	43.28	49.18	61.83			$ S_{ij} ^{1/2} = \frac{1}{2} I_{ij} ^{1/2}$	
3	3.5/8	3	15.53	18.85	26,39	32.99	43.98	52.78	59.98	75.40	82.48	$\chi = \chi$	$\sum_{i=1}^{n-1} \frac{1}{i} \sum_{i=1}^{n-1} \frac{1}{i$	
4	A		19.96	24.23	33,93	42.41	56.55	67.86	77.11	96.94	106.04	114.64		
51 B		8	20,37	24,96	35.65	45,38	62.39	76.79	89.13	117.44	131.35	145.10	156.00	
	na sugar ana harang na sugar sug Bang sugar		26.52	32,50	46.42	59.08	81.24	99.99	116.06	152.92	171.03	188.93	203.13	
- iD	E SIA		25.72	31,63	45.77	58.73	82.22	102.47	120,69	163.62	185.90	208.18	226.81	
S. Parkers			30.51	37.62	54.29	69.66	97.52	121.55	143.16	194.09	220.51	212.35	233.96	
	Contraction and the second	SA B	33.50	41.20	59.61	76.48	107,09	133.46	167.11	177.25	204,68	233.16	256.90	
			29.06	36.87	62,27	67.52	96.46	121.78	144.69	202.57	276.72	221.86	247.78	
			82.69	40,36	58.80	75.96	108.52	137.00	128.19	183.80	215.68	249.59	278.76	
			27.05	33 40	49.14	64.13	91.94	118.32	142.43	204.23	239.64	277.32	309.73	
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PIPE SIZE

TELESCOPE SIZE

NOVINAS SOUTIDE CHAN	。 記 一		Total Slot	the hard deal to the	t, of Scree 9. In. per F	n for Vari t.)	ous Gauge			
MOLLES UNCHER STREET	SI 8.008		.020	.030	.040	.050	.080.	.100	.125	.150
EE EE FRANK BARA	12.20	14,81 20.73	25.92	34.56	41.46	47.12	59.24	30°	a and a star	
	14.41	17.50 24.50	30.63	40.84	49.01	55.69	70.01	76.59		
	10.63	20,19 28.27	35.34	47.12	56.55	64.26	80.78	88.37	95.53	13
	18.86	22.89 32.04	40.06	53.41	64.09	72.83	91,56	100.15	108.27	-
	21.07	25.58 35.81	44.77	59.69	71.63	81,39	103.33	111.93	121.01	127.92
	24.92	30.29 42.37	52.97	70.62	84.75	96.30	121.07	132.43	143.17	151.35
	28.52	32.80 46.42	59.08	81.24	99.99	116.06	133.05	148.81	164.38	176.74
	29.23	35.81 51.18	65.12	89.54	110.20	127,91	168.54	188.49	208:22	223.87
	26.92	33.11 47.90	61.47	86.05	107.25	126,32	171.26	194.57	217.88	237.38
	29.91	36.78 53.22	68.30	95.61	119.16	140.36	190.28	216.19	208.18	229.38
	01.95 18 24 10	41.94 80.67	77.86	109.00	135.85	160.01	180.41	208.33	237.33	261.49
	29.61	36.43 53.09	68.58	97.97	123.68	146.95	205.73	237.57	225.33	251.66
	24.89	30.53 44.84	58.52	83.90	107.96	129.97	186.36	218.68	253.06	282.63

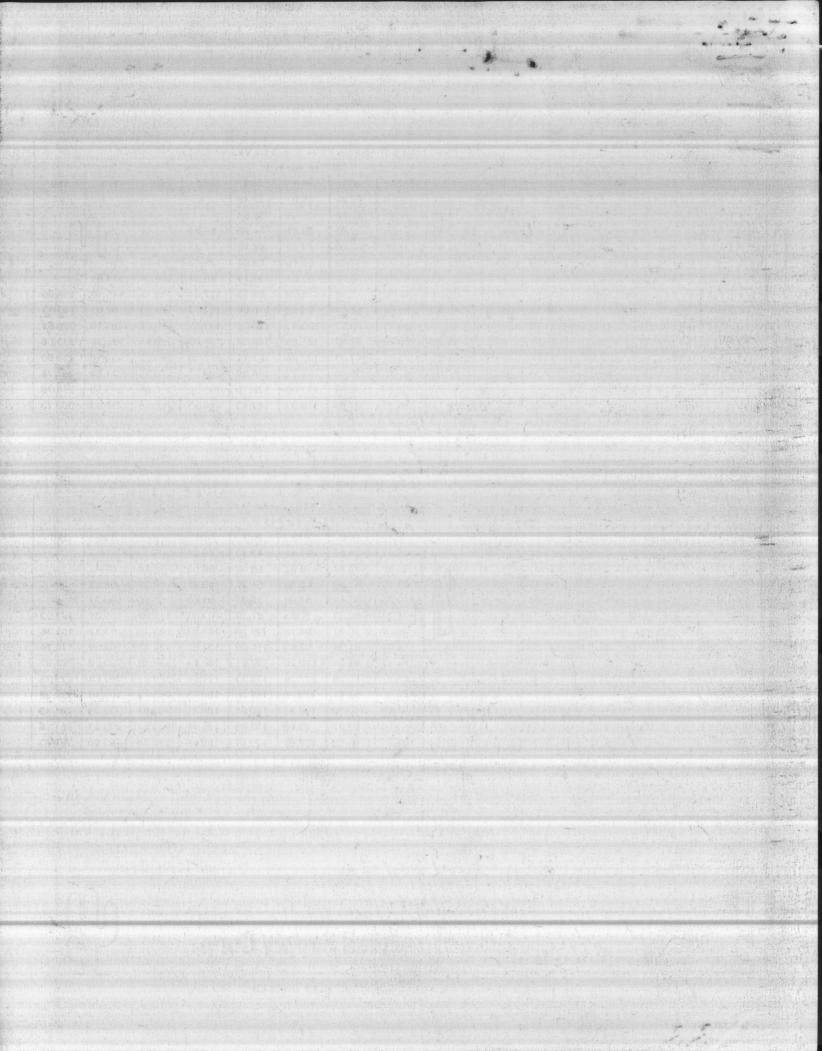
*Based on standard specifications. Specifications subject to change without notice.

EAST COAST CONSTRUCTION CO., INC. COLTRACT NG2470-76-C-6800 REPLACE WATER WELLS MARINE CORPS BASE CAMP LEJUENE, NC

Plant: 5152 Glenmont, Houston, Texas 77036 Mail: P.O. Box 104, Bellaire, Texas 77401 Phone (713) 667-9484

Well Supply Corp.

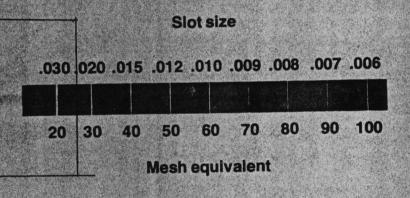
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Engineering data

Nominal Screen Size	Outside Diameter	Clear Opening Through Fitting (inches)	Length of Screen (inches)	Nominal Screen Size (inches)	Outside Diameter (inches)	Clear Opening Through Fitting (inches)	Length of Screen (inches)
(inches)	(inches)	11/4	24		23/8	. 2	24
e en la la la	BADASCHU SCALTS-AN JOACCONDUCT CHRONOLTANCCH	11/4	30		23/8	2 m 2	30
	13/4	22 SEPARATE AND A CLE ANALYSICAL STREET, AND A	36		23/8	. 2	36
	134	11/4		2	23/8	2	42
11/4	13/4	11/4	42		23/8	2.	48
	13/4	11/4	48		23/8	2	54
	13/4	11/4	54		Stort Contraction Contract Contract State State State State	2	60
	13/4	11/4	60		23/8	states 6	1

Dimensions*



Inlet Area*

Nominal Screen Size		Total Slot A	rea Per Foot of Scr (Sg. Inches p	een for Various Ga er Foot)	uges		
(inches)	.006	.010	.015	.020	.030	.040	.050
MEDICAL TRIBUTION AND TO ADDRESS	5.69 7.36	8.94	12.52	15.65	20.86	25.03	28.45
-11/4	8,16 10.55	12.82	17.94	22.43	29.91	35.89	40.78

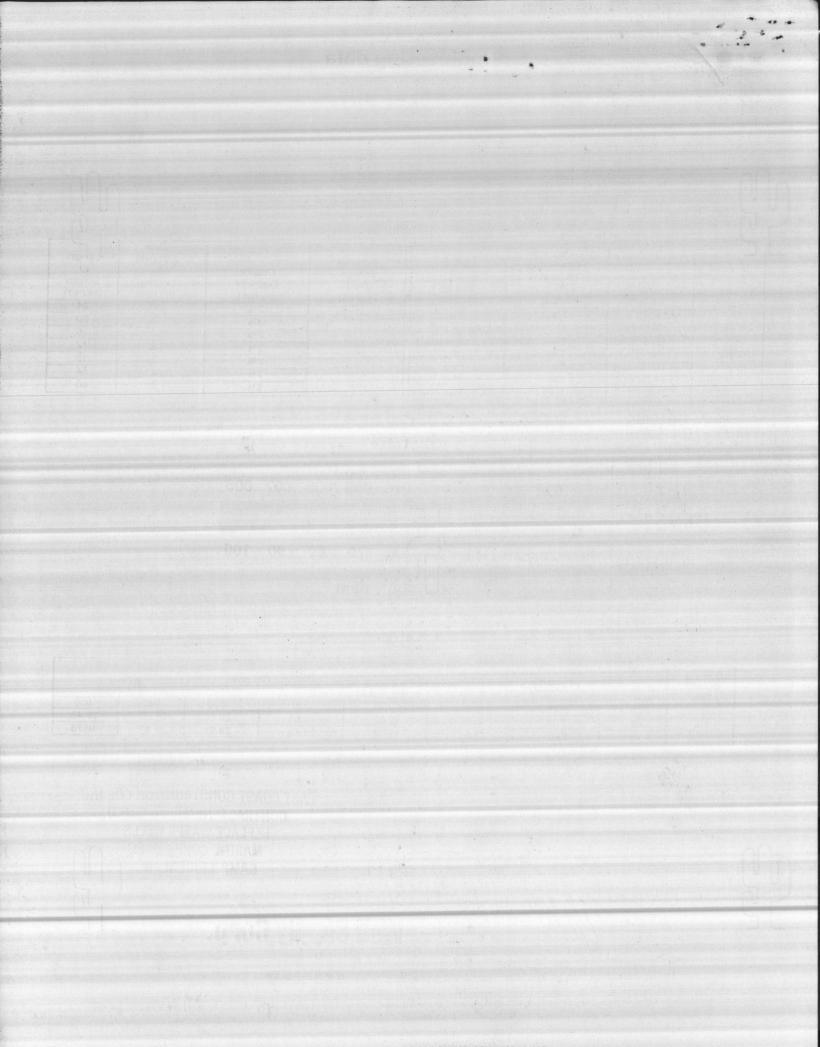
*Based on standard specifications. Specifications subject to change without notice.



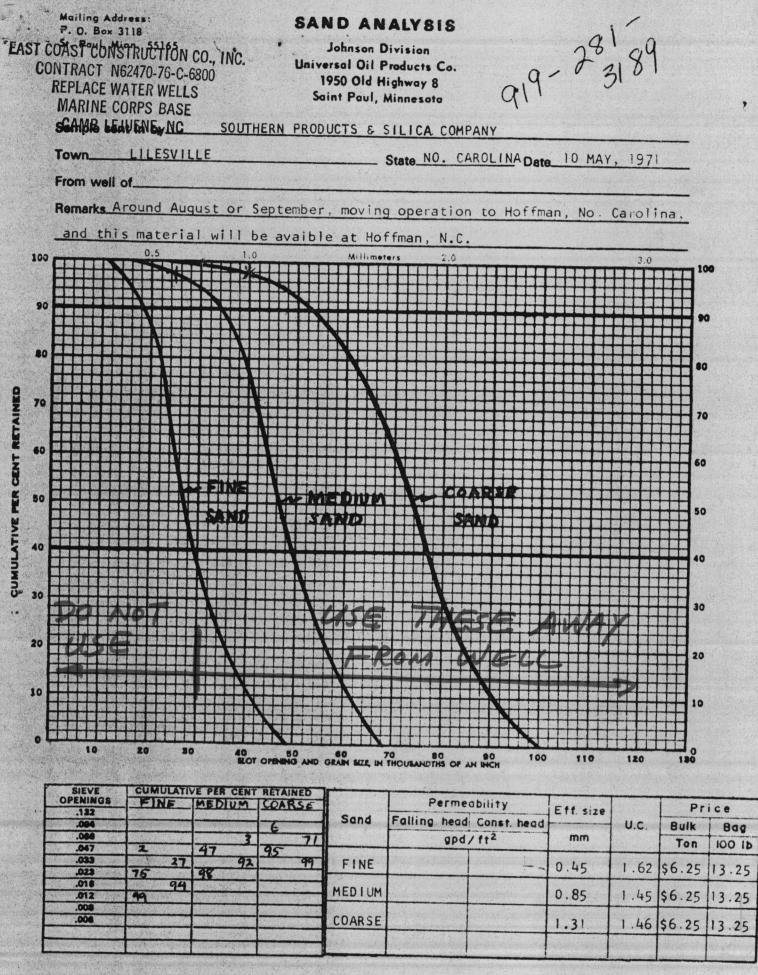
EAST COAST CONSTRUCTION CO., INC. CONTRACT N62470-76-C-6800 REPLACE WATER WELLS MARINE CORPS BASE CAMP LEJUENE, NC

Well Supply Corp.

Plant: 5152 Glenmont, Houston, Texas 77036 Mail: P.O. Box 104, Bellaire, Texas 77401 Phone (713) 667-9484



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SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS

ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511
APPROVED AS NOTED
SUBJECT TO THE REQUIREMENTS OF CONTRACT NO 5-76-6800 APPROVIDE OF A STAR. TTAL BOSS NOT INCLUDE APPROVIDE OF A STAR. TTAL BOSS NOT INCLUDE INCLUSION OF A STAR. TTAL BOSS NOT INCLUDE APPROVIDE OF A STAR. TTAL BOSS NOT INCLUDE INCLUSION OF A STAR. TTAL BOSS NOT INCLUDE INCLUSION OF A STAR. TTAL BOSS NOT INCLUDE APPROVIDE OF A STAR. TTAL BOSS NOT INCLUDE INCLUSION OF A STAR. TTAL BOSS NOT INCLUSE APPROVIDE APPR
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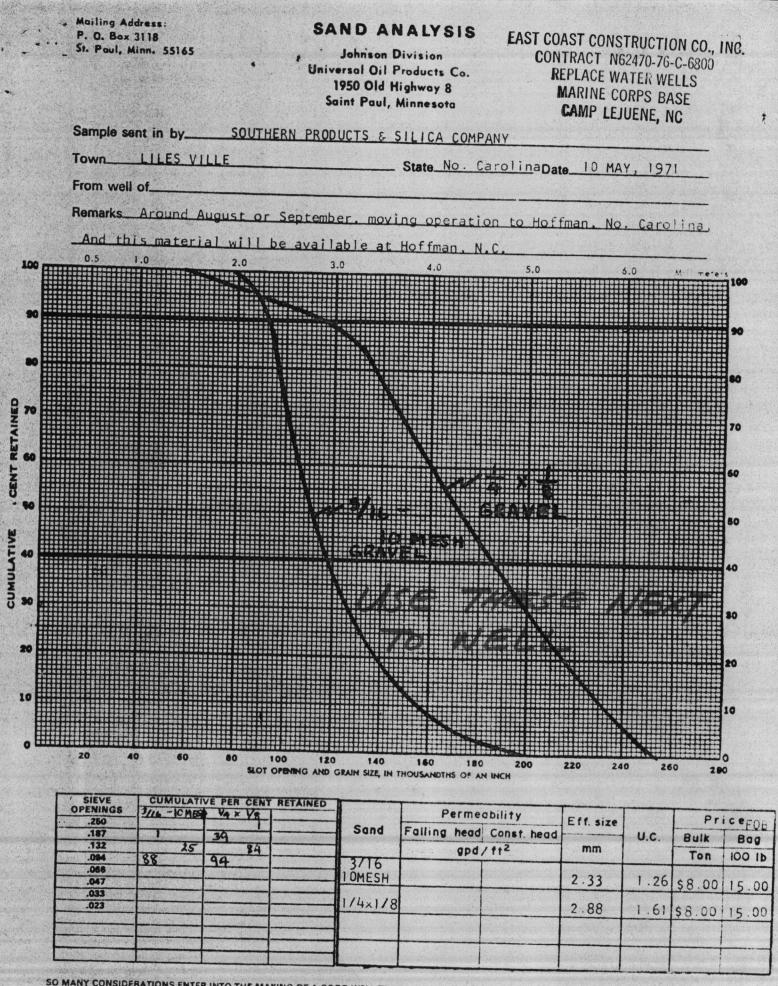
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LANTDIV 4-4355/3 (Rev. 6/76)		CONTRACT NO.	Service States	ITTAL NO.	DATE 2-/3-7
M CONTRACTOR		PROJECT TITLE AND LOCATION		7	2151
EAST COAST CONSTR	UCTION CO., INC.	EAST COAST CON	STRUCT	ION CO.,	INC.
1	NINVEAC	·CONTRACT N	162470-7	6-C-6799	
-ommander,	CONTRACTOR USE ONLY	10001 00. 00 00 1 0 0		ER WELLS	IEWER USE ONLY
	*List only one specification division per	r form.		PHOL	A TION CODED
List only o	one of the following categories on each		CJUEIVE	NC A-App D-Disa	roved approved
	and indicate which is being submit			and the second second and the second s	proved as noted ceipt acknowledged.
Contractor Approved	OICC Approval	Deviation/Sub For OICC	Approval	and the second se	nments
PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFIC/ (Type, size, model no., Mfg brochure numl	g. name, dwg. or	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
15201-5.2 St	ainless Steel S	Screens	7	A	CCS 405 4
15201-5.3 G	vovel Anoly	sis	7	AN	CC5405-21
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Y OF TRANSMITTAL AND SUBMITTALS E RECEIVED BY REVIEWER 16 Pab 1978 Submittals are returned with ac tractor calls attention to and s	FROM (Reviewer)	not include approval of any devia	ast Cost	tet Contract re	equirements unless the o
PY OF TRANSMITTAL AND SUBMITTALS TE RECEIVED BY REVIEWER 16 Peb 1978 Submittals are returned with ad tractor calls attention to and s Submittals are forwarded to LA transmittal form.	FROM (Reviewer) Control indicated. Approval of an item does supports the deviation.	not include approval of any devia	ast Cost	tet Contract re	equirements unless the o
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PY OF TRANSMITTAL AND SUBMITTALS TE RECEIVED BY REVIEWER 16 Peb 1978 Submittals are returned with ad tractor calls attention to and s Submittals are forwarded to LA transmittal form. TEWER'S COMMENTS	FROM (Reviewer)	a not include approval of any devia cated in REVIEWER USE ONLY S	at contraction from the	in comments	equirements unless the o

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Mustang Monometal Rod-base stainless steel well screens that can take it.

When the time required to develop a well demands the nonrestrictive design of a rod-base screen, turn to Mustang Monometal. The superiority of a Mustang Monometal starts with the size, shape and number of longitudinal rods.

The teardrop-shaped rod minimizes flow resistance while maintaining high collapse strength. In our heavy duty model, rod size is larger than standard screens, and the number of rods is greater.

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Type-304 Stainless Steel gives maximum resistance to electrolysis, incrustation, corrosion and galvanic actions.

Mustang Monometal may be ordered in either Standard or Heavy Duty models

in diameters through 12 inches and lengths through 20 feet. Slot sizes range from .001 inch upward. To get the best rod-base screen you can buy, specify Mustang Monometal.

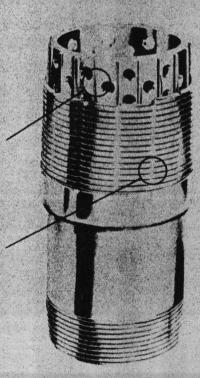
Mustang Pipe-Base Screens Rugged, precision screens combining high strength, large inlet area, low fluid velocity and effective sand control for even extreme conditions.

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And when you specify Mustang Pipe Base, you know you're getting the very best in engineering, materials and craftsmanship that can be found. Diameters through 14 inches and lengths through 45 feet are available in all slot sizes.

See your Mustang catalog for full specifications and engineering data or write directly to Mustang.



MARINE

EAST COAST CONSTRUCTION CO., INC. CONTRACT N62470-76-2-6799 REPLACE FOUR WATER WELLS MARINE CORPS BASE CAMP LEJUENE, NC

Plant: 5125 Glenmont, Houston, Texas 77036 Mail: P.O. Box 104, Bellaire, Texas 77401 Phone (713) 667-9484

ell Supply Corp.

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	ATLANTIC DI NAVAL FACILITIES ENGIN NORFOLK, VIRGII	IEERING COMMAND		
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Engineering data

NOMINAL SCREEN SIZE	OUTSIDE DIAMETER	CLEAR OPENING THROUGH FITTINGS	ING UGH											
(INCHES)	(INCHES)	(INCHES)	800.	.010	.015	.020	.030	.040	.050	.080	.100	.125	.150	
1-1/4	1-3/4	1-1/4	7.36	8.94	12.52	15.65	20.86	25.03	28.45			the Data and	and the second second	
1-1/2	2-1/8	1-1/2	8.43	10.23	14.33	17.91	23.88	28.65	32.56		and a star			
2	2.5/8	2	11.62	14.11	19.75	24.69	32.92	39.51	44.90	56.44	-		111-	
2-1/2	3	2-1/2	12.73	15.46	21.64	27.05	36.06	43.28	49.18	61.83			<u> </u>	
3	3-5/8	3	15.53	18.85	26.39	32.99	43.98	52.78	59.98	75.40	82.48			
4	4-5/8	4 da a	19.96	24.23	33.93	42.41	56.55	67.86	77.11	96.94	106.04	114.64	1. P. +	
¥ 6	6-5/8	6	20.37	24.96	35.65	45.38	62.39	76.79	89.13	117.44	131.35	145.10	156.0	
	8-5/8	8	26.52	32.50	46.42	59.08	81.24	99.99	116.06	152.92	171.03	188.93	203.1	
10	10-3/4	10	25.72	31.63	45.77	58.73	82.22	102.47	120.69	163.62	185.90	208.18	226.8	
12	12-3/4	12	30.51	37.52	54.29	69.66	97.52	121.55	143.16	194.09	220.51	212.35	233.9	
14	14	13-1/8	33.50	41.20	59.61	76.48	107.09	133.46	157.11	177.25	204.68	233.16	256.9	
16	. 16	15	29.06	35.87	52.27	67.52	96.46	121.78	144.69	202.57	276.72	221.86	247.7	
. 18	18	16-3/4	32.69	40.36	58.80	75.96	108.52	137.00	128.19	183.80	215.68	249.59	278.7	
20	20	18-3/4	27.05	33.46	49.14	64.13	91.94	118.32	142.43	204.23	239.64	277.32	309.7	

TELESCOPE SIZE*

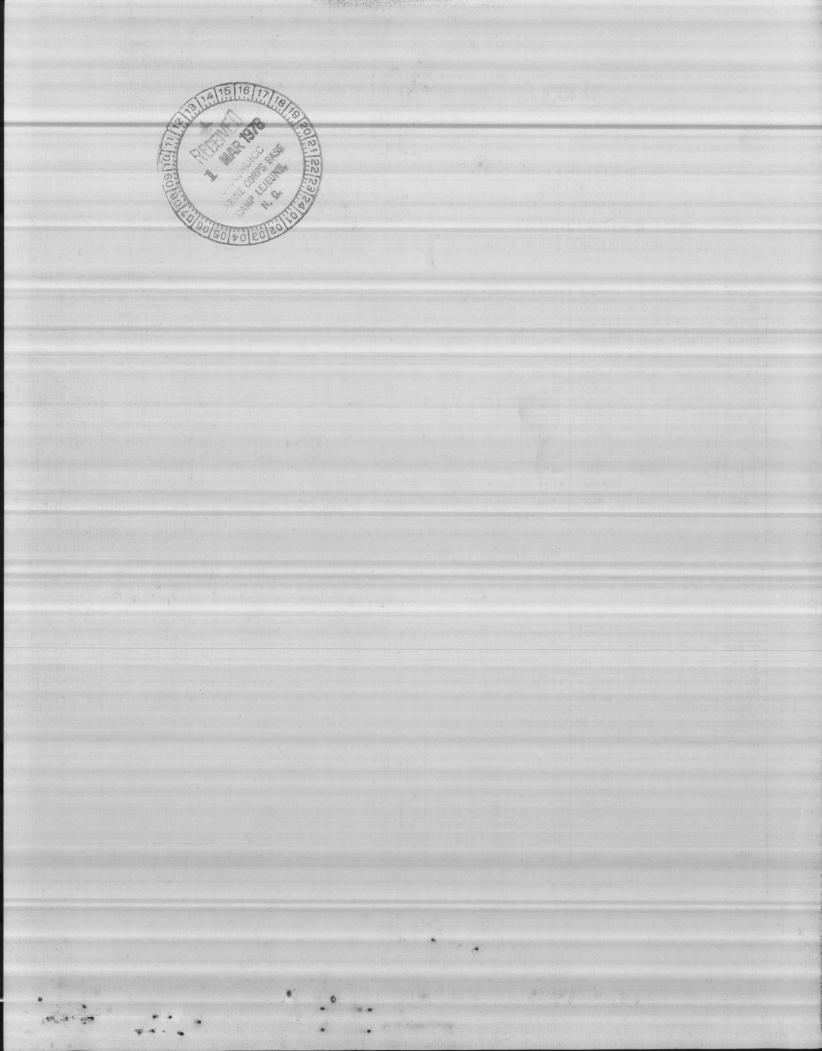
NOMINAL SCREEN SIZE	OUTSIDE DIAMETER	CLEAR OPENING THROUGH FITTINGS		Total Slot Area per Ft. of Screen for Various Gauges (Sq. In. per Ft.)										
(INCHES)	(INCHES)	(INCHES)	.008	.010	.015	.020	.030	.040	.050	.080	.100	.125	.150	
23	2-3/4	2	12.20	14.81	20.73	25.92	34,56	41.46	47.12	59.24		and the second	A	
3-1/2	3-1/4	2-1/2	14.41	17.50	24.50	30.63	40.84	49.01	55.69	70.01	76.59	-		
4	3-3/4	3	16.63	20.19	28.27	35.34	47.12	56.55	64.26	80.78	88.37	95.53		
4-172	4-1/4	3-1/2	18.85	22.89	32.04	40.06	53,41	64.09	72.83	91,55	100,15	108.27	All and a set of a	
	4-3/4	4	21.07	25.58	35.81	44.77	59.69	71.63	81.39	103.33	111.93	121.01	127.92	
6	5-5/8	5	24.92	30.27	42.37	52.97	70.62	84.75	96.30	121.07	132.43	143.17	151.35	
8	7-1/2	6	26.52	32.50	46.42	59.08	81.24	99.99	116.06	133.05	148.81	164.38	176.74	
10	9-1/2	8	29.23	35.81	51.16	65.12	89.54	110.20	127.91	168.54	188.49	208.22	223.87	
12	11-1/4	10-3/8	26.92	33.11	47.90	61.47	86.05	107.25	126.32	171.26	194.57	217.88	237.38	
. 14	12-1/2	11-3/8	29.91	36.78	53.22	68.30	95.61	119.16	140.36	190.28	216.19	208.18	229.38	
16	14-1/4	13-1/8	34.10	41.94	60.67	77.86	109.00	135.85	160.01	180.41	208.33	237.33	261.49	
18	16-1/4	- 15	29.51	36.43	53.09	68.58	97.97	123.68	146,95	205.73	237.57	225.33	251.66	
20	. 18-1/4	17	24.69	30.53	44.84	58.52	83.90	107.96	129.97	186.36	218.68	253.06	282.63	

*Based on standard specifications. Specifications subject to change without notice.

EAST COAST CONSTRUCTION CO., INC. CONTRACT N62470-76-C-6799 REPLACE FOUR WATER WELLS MARINE CORPS BASE CAMP LEJUENE, NC

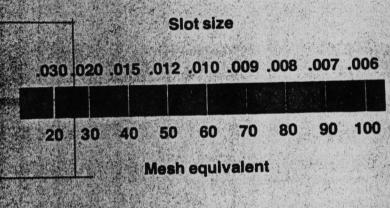
Plant: 5152 Glenmont, Houston, Texas 77036 Mail: P.O. Box 104, Bellaire, Texas 77401 Phone (713) 667-9484

Well Supply Corp.



Dimensions*

Nominal Screen Size	Outside Diameter	Clear Opening Through Fitting	Length of Screen	Nominal Screen Size (inches)	Outside Diameter (inches)	Clear Opening Through Fitting (inches)	Length of Screen (inches)
(inches)	(inches)	(inches)	(inches)	H (menes)	23/8	2	24
in the section of the section	13/4	11/4	24	With Marsha Starting	23/8	2	30
and the state	13/4	11/4	30		23/8	2	36
(注意)。我们的	13/	11/4	36	The transmission of the second		2	42
		11/4	42	2	23/8		48
.1%	T MARCHINE, MA, MARTINE, MAR	14	48	1 Alexandream	23/8	<u> </u>	54
The sea weather			54	1 Martin Contraction	23/8	2	A CONTRACTOR OF A CONTRACTOR
		angeon 194 an su	60	A State of the state of the	23/8	2	60



Inlet Area*

Screen Total Slot A	rea Per Foot of Scr (Sq. Inches pe	er Foot)	augos	A State of States	AFA
	015	.020	.030	.040	.050
(reheb)	12.52	15.65	20.86	25.03	28.45
10.55	17.94	22.43	29.91	35.89	40.78

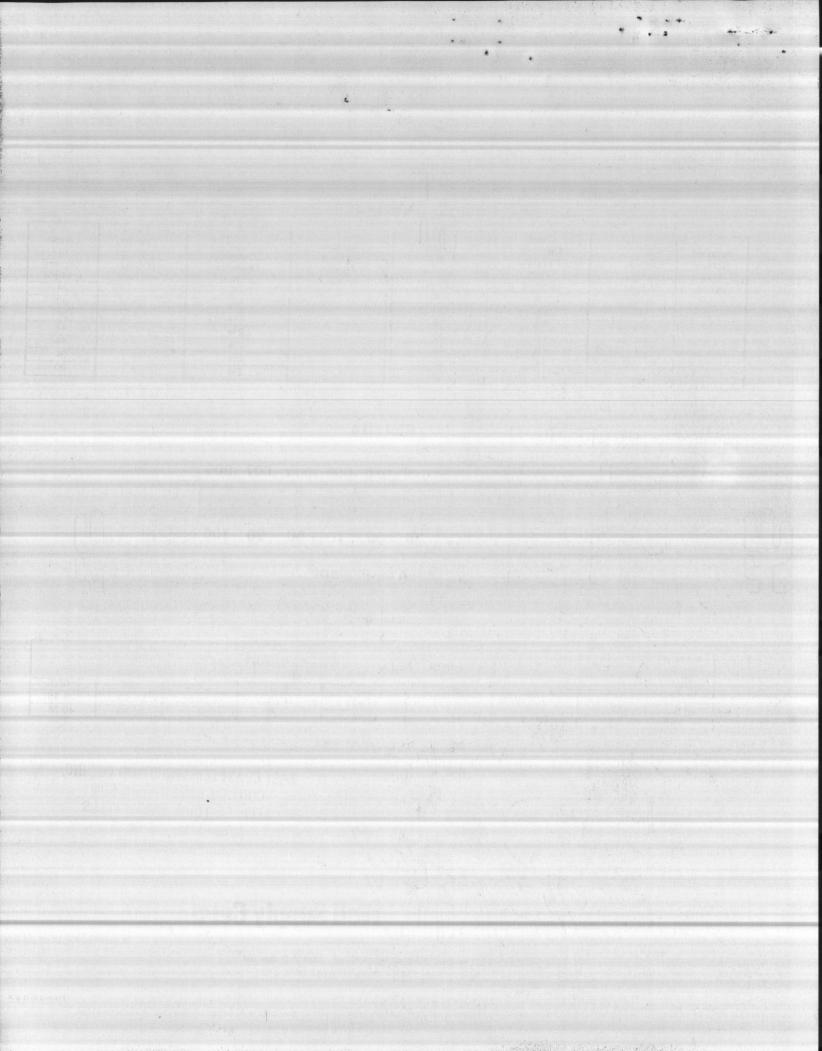
Based on standard specifications. Specifications subject to change without notice.

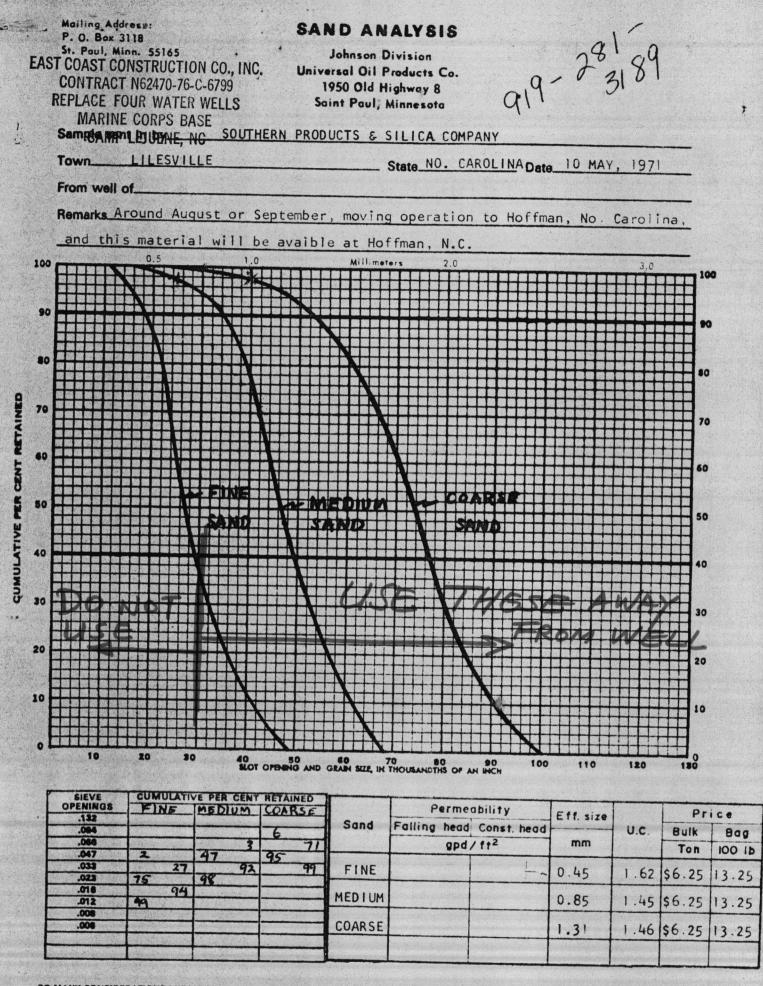


EAST COAST CONSTRUCTION CO., INC. CONTRACT N62470-76-C-6799 REPLACE FOUR WATER WELLS MARINE CORPS BASE CAMP LEJUENE, NC

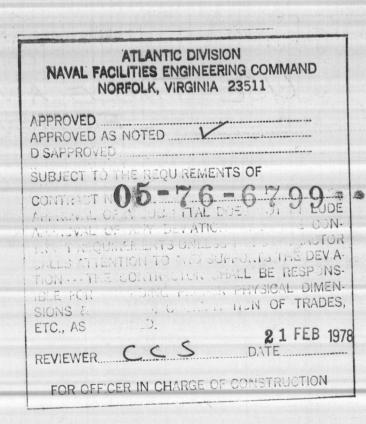
Well Supply Corp.

Plant: 5152 Glenmont, Houston, Texas 77036 Mail: P.O. Box 104, Bellaire, Texas 77401 Phone (713) 667-9484





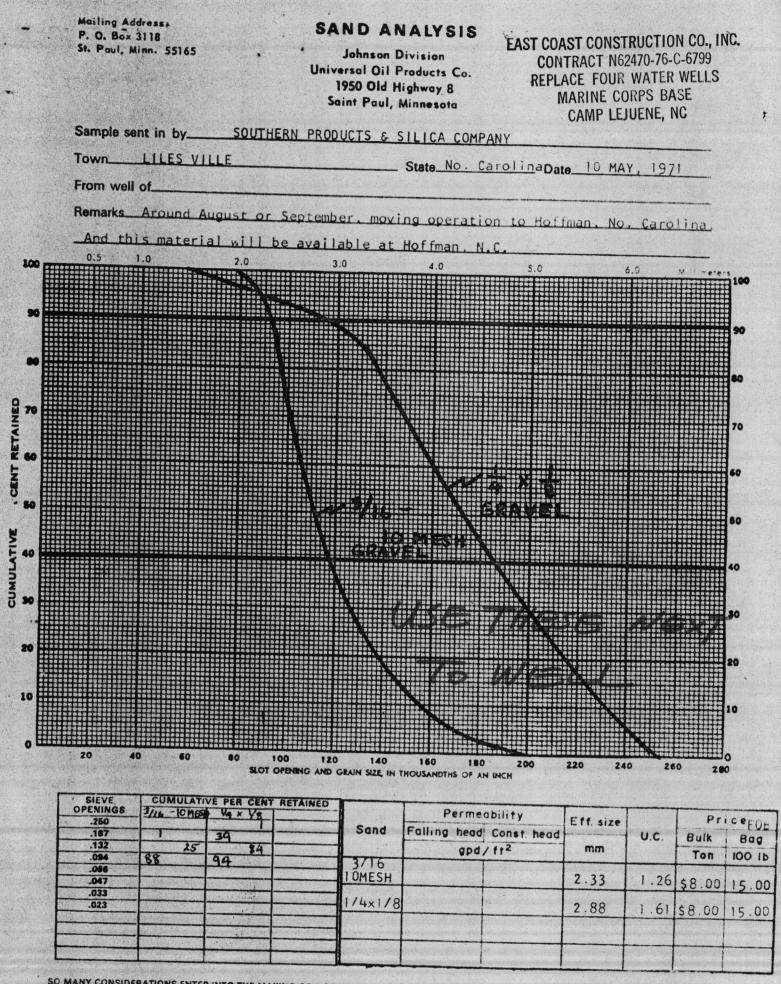
SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS



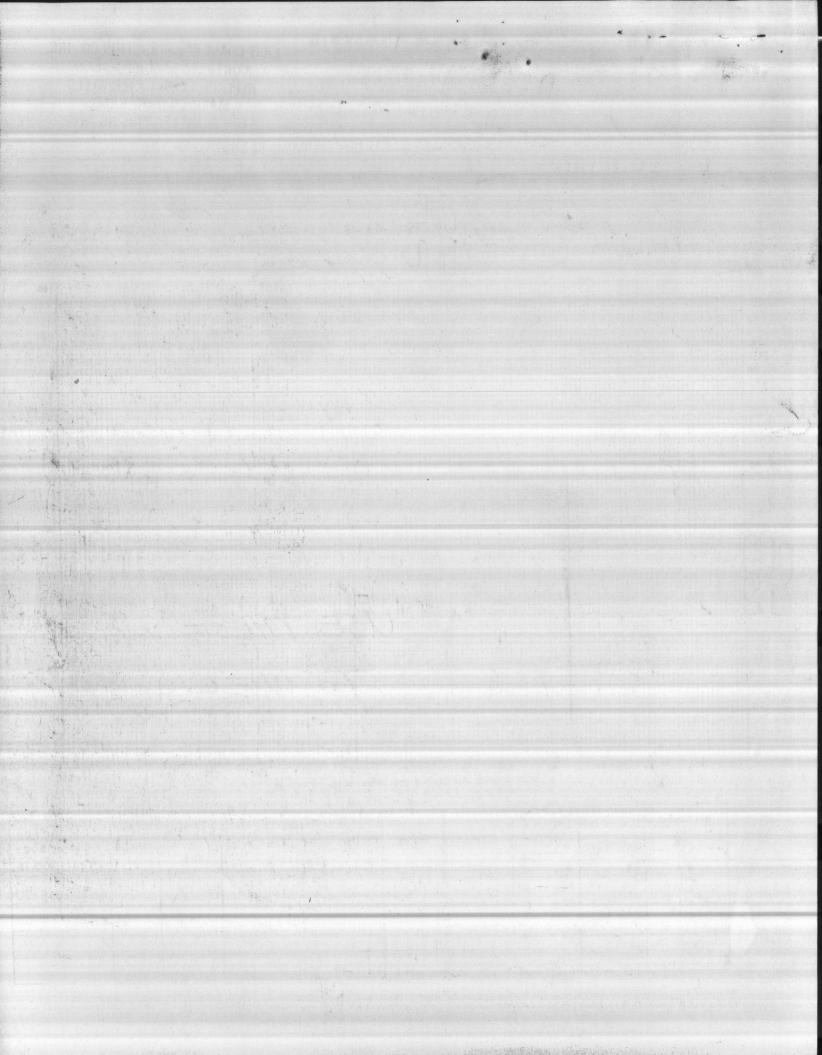


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SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT, WHILE WE BELIEVE SLOT SIZES FURNISHED OR RECOMMENDED FROM SAND SAMPLES ARE CORRECT WE ASSUME NO RESPONSIBILITY FOR THE SUCCESSFUL OPERATION OF JOHNSON WELL SCREENS



WHY and WHERE to use

An Air Release Valve has a small venting orifice and is used wherever air is entrained in water under pressure. These pockets of air increase the resistance to the flow of water; and in critical installations, can reduce the capacity of a line down to zero. The most serious feature of this increased resistance however, is that most installations may suf-

RELEASE VALVES

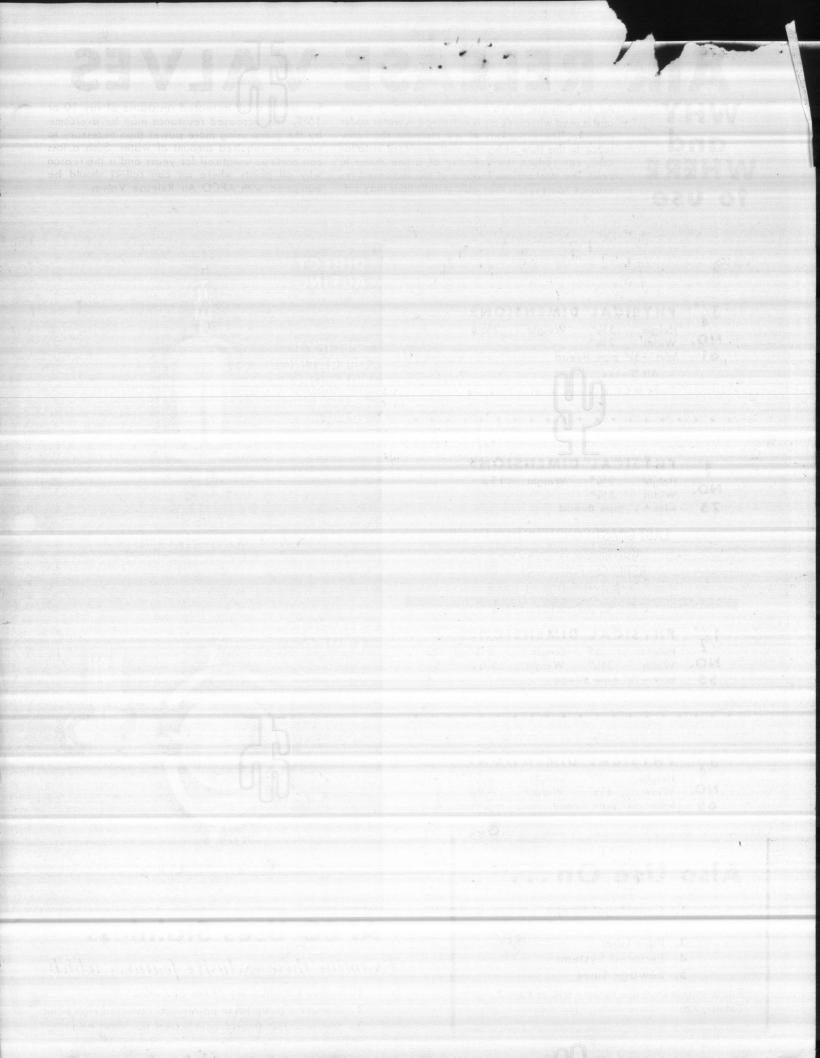
fer only a small increased resistance of say 10 or 15%. The increased resistance may be overcome by the pump using more power than necessary to move the required amount of water. Such a loss can continue unnoticed for years and is the reason why all points where air can collect should be equipped with APCO Air Release Valves.



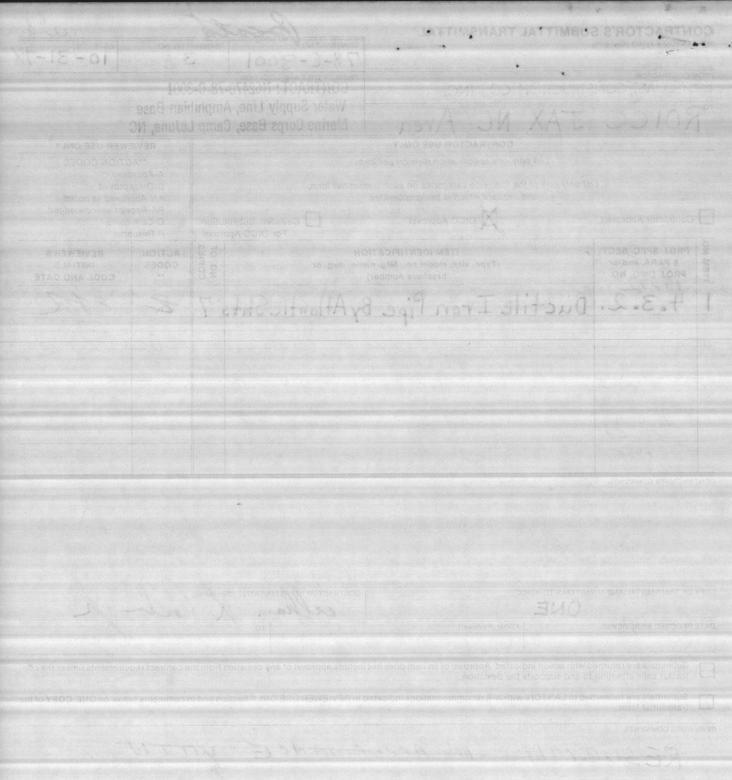
For Selection Data See Bulletin 610 or Page 2 Catalog 726

2. Conserves pump horse power-no restricted high points

3. Stainless steel floats-guaranteed for 1000 P.S.I.



С	ONTRACTOR'S	SUBMITTA	LTRANSMITTAL	Ba	th	•	field
5ND	ANTDIV 4-4355/3 (Rev. 6/76	3)	· · · · ·	CONTRACT NO.	TRANSM	TTAL NO.	DATE 0-31-78
FRO	STCOAST CON	STRUCTIO	N'CO" INC.	PROJECT TITLE AND LOCATION CONTRACT: N624	70-78-C-	3001	1 - F
то	RAICC	TAV	NC A	Water Supply Line	, Amphil	bian Base	
	NUICE	JAA	CONTRACTOR USE ONLY	Marine Corps Base	, Camp I	1	
		*List c	nly one specification division per t	orm.		**A	CTION CODES
	L		the following categories on each tr d indicate which is being submitte			the second s	proved proved as noted
	Contractor Approved		OICC Approval	Deviation/Sub For OICC		C-Comi R-Resul	
ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *		ITEM IDENTIFICAT (Type, size, model no., Mfg. I brochure numbe	TION name, dwg. or	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
1	4.3.2.	Duct	le Iron Pipe	By Atlantic Sta	4.7	r	8 fR
						A	éln-
			92				Constanting of the Alberton
					•		A
COPY	OF TRANSMITTAL AND SU		C		E (Signature)	Al	
DATE	RECEIVED BY REVIEWER	ONE	FROM (Reviewer)	Tulkam	XI	out	-R
				10			
	Submittals are returne tractor calls attention	ed with action inc to and supports	licated. Approval of an item does no the deviation.	ot include approval of any devia	tion from th	e contract req	uirements unless the con-
	Submittals are forward transmittal form.	ded to LANTDIV	with A-E recommendations indicat	ed in REVIEWER USE ONLY Se	ection and i	n comments b	elow on ONE COPY of the
REVI	EWER'S COMMENTS						
	RESUL	3+11+7	IN Acce	RDANCE	-11	TTA	=
51	PEC	DIV.	PAR	HDANCE 13. DONE	T		
			10 : 11 ets : 1	55			
R	ES TO: OICC (2)	and the second	DATE			and a sub-	
L	ANTDIV (1) -E (1)		14 Nov 78	K. P. FF	EY, LI	JG, CEC	, USN AROICC



New DIN 1 - PARA + 13.

Ductile Iron Pipe by Atlantic States

2

This catalog has been prepared to give complete DUCTILE IRON PIPE information in condensed form. It is a compilation of the technical data that is necessary on most water and waste water projects using either TYTON JOINT® or Standardized Mechanical Joint Pipe. Additional technical information on these items is available on request.

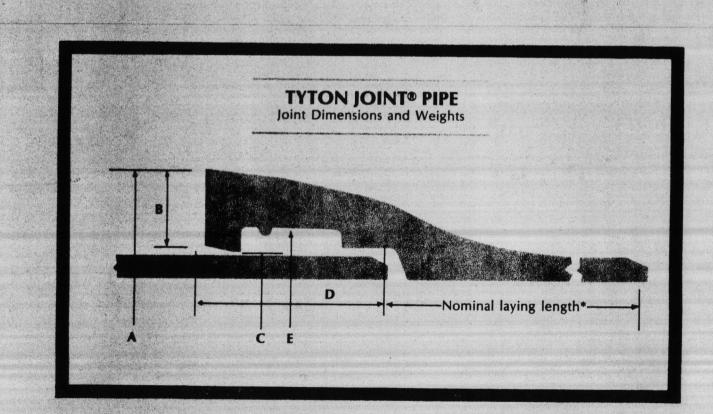
Ductile Iron pipe is normally purchased to conform to standards of the American National Standards Institute and the American Water Works Association. These standards are identical: ANSI A21.51 and AWWA C151. They cover Ductile Iron pipe designed under ANSI A21.50 and AWWA C150, "Thickness Design of Ductile-Iron Pipe."

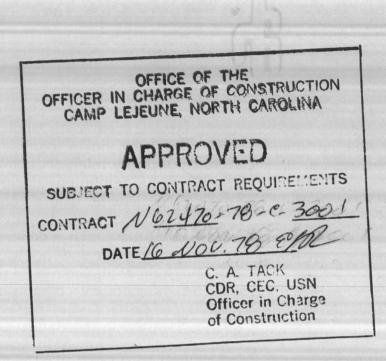
Pipe thicknesses are calculated on the basis of internal and external pressures,

trench factors, earth loads, allowance for truck superload, beam load, service allowance, foundry tolerances, and a consideration of minimum thickness for tapping. The Ductile Iron is required to have a minimum tensile strength of 60,000 pounds per square inch, a minimum yield strength of 42,000 pounds per square inch and minimum elongation of 10 percent.

The thicknesses, dimensions and weights are nominal and subject to the tolerances listed in the standards. Metric conversions are shown in parentheses throughout most of this catalog. These are not those specified in ISO standards.

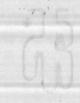
Full information can be secured from this catalog on the pipe required for laying conditions Type 1 through Type 5 for working pressures up to 350 pounds per square inch, for various depths of cover.







2. Juit 12 11 11



THICKNESSES, DIMENSIONS AND WEIGHTS OF TYTON JOINT® AND MECHANICAL JOINT DUCTILE IRON PIPE CLASSIFIED BY SIZE FOR EACH THICKNESS CLASS

Pipe manufactured in accordance with ANSI A21.51 and AWWA C151 under method of design outlined in ANSI A21.50.

			oor In. (mm)	Wt. of Barrel Per Ft. Lb.	Tyton joint			Mechanical joint		
					Wt. of Bell Lb. (kg)	WL Per Lgth.† Lb. (kg)	Avg. WL. Per. Ft.‡ Lb. (kg)	Wt. of Bell Lb. (kg)	Wt. Per Ligth.f Lb. (kg)	Avg. Wt. Per Ft.‡ Lb. (kg)
3	51	.25 (6.4)	3.96 (100.6)	8.9	9 (4.08)	185 (83.91)	9.4 (42.6)	11 (4.98)	190 (86.18)	9.4 (4.26)
	52	.28 (7.1)	3.96 (100.6)	9.9	9 (4.08)	205 (92.99)	10.4 (4.72)	11 (4.98)	210 (95.25)	10.4 (4.72)
	53	.31 (7.9)	3.96 (100.6)	10.9	9 (4.08)	225 (102.06)	11.4 (5.17)	11 (4.98)	230 (104.33)	11.4 (5.17)
	54	.34 (8.6)	3.96 (100.6)	11.8	9 (4.08)	245 (111.13)	12.2 (5.53)	11 (4.98)	245 (111.13)	12.4 (5.62)
	55	.37 (9.4)	3.96 (100.6)	12.8	9 (4.08)	265 (120.20)	13.2 (5.99)	11 (4.98)	265 (120.20)	13.4 (6.08)
	56	.40 (10.2)	3.96 (100.6)	13.7	9 (4.08)	285 (129.27)	14.2 (6.44)	11 (4.98)	285 (129.27)	14.2 (6.44)
	51	.26 (6.6)	4.80 (121.9)	11.3	11 (4.98)	235 (106.59)	11.8 (5.35)	16 (7.25)	240 (108.86)	12.1 (5.49)
	52	.29 (7.4)	4.80 (121.9)	12.6	11 (4.98)	265 (120.20)	13.2 (5.99)	16 (7.25)	270 (122.47)	13.4 (6.08)
	53	.32 (8.1)	4.80 (121.9)	13.8	11 (4.98)	285 (129.27)	14.4 (6.53)	16 (7.25)	290 (131.54)	14.6 (6.62)
	54	.35 (8.9)	4.80 (121.9)	15.0	11 (4.98)	310 (140.61)	15.6 (7.08)	16 (7.25)	315 (142.88)	15.8 (7.17)
	55	.38 (9.7)	4.80 (121.9)	16.1	11 (4.98)	335 (151.95)	16.6 (7.53)	16 (7.25)	340 (154.22)	16.9 (7.67)
	56	.41 (10.4)	4.80 (121.9)	17.3	11 (4.98)	355 (161.03)	17.8 (8.07)	16 (7.25)	360 (163.29)	18.1 (8.21)
6	50	.25 (6.4)	6.90 (175.3)	16.0	18 (8.16)	305 (138.36)	17.0 (7.71)	22 (9.97)	310 (140.61)	17.2 (7.80)
	51	.28 (7.1)	6.90 (175.3)	17.8	18 (8.16)	340 (154.22)	18.8 (8.53)	22 (9.97)	340 (154.22)	19.0 (8.62)
6	52	.31 (7.9)	6.90 (175.3)	19.6	18 (8.16)	370 (167.83)	20.6 (9.34)	22 (9.97)	375 (170.10)	20.8 (9.43)
0	53	.34 (8.6)	6.90 (175.3)	21.4	18 (8.16)	405 (183.70)	22.4 (10.16)	22 (9.97)	405 (183.70)	22.6 (10.25)
	54	.37 (9.4)	6.90 (175.3)	23.2	18 (8.16)	435 (197.31)	24.2 (10.98)	22 (9.97)	440 (199.58)	24.4 (11.07)
	55	.40 (10.2)	6.90 (175.3)	25.0	18 (8.16)	470 (213.19)	26.0 (11.79)	22 (9.97)	470 (213.19)	26.2 (11.88)
6	56	.43 (10.9)	6.90 (175.3)	26.7	18 (8.16)	500 (226.80)	27.7 (12.56)	22 (9.97)	505 (229.06)	27.9 (12.66)
	50	.27 (6.9)	9.05 (229.9)	22.8	26 (11.79)	435 (197.31)	24.2 (10.98)	29 (13.15)	440 (199.58)	24.4 (11.07)
	51	.30 (7.6)	9.05 (229.9)	25.2	26 (11.79)	480 (217.72)	26.6 (12.07)	29 (13.15)	485 (219.99)	26.8 (12.16)
	52	.33 (8.4)	9.05 (229.9)	27.7	26 (11.79)	525 (238.14)	29.1 (13.20)	29 (13.15)	530 (240.40)	29.3 (13.29)
	53	.36 (9.1)	9.05 (229.9)	30.1	26 (11.79)	570 (258.55)	31.5 (14.29)	29 (13.15)	570 (258.55)	31.7 (14.38)
	54	.39 (9.9)	9.05 (229.9)	32.5	26 (11.79)	610 (276.69)	33.9 (15.38)	29 (13.15)	615 (278.96)	34.1 (15.47)
	55	.42 (10.7)	9.05 (229.9)	34.8	26 (11.79)	650 (294.84)	36.2 (16.42)	29 (13.15)	655 (297.10)	36.4 (16.51)
	56	.45 (11.4)	9.05 (229.9)	37.2	26 (11.79)	695 (315.25)	38.6 (17.51)	29 (13.15)	700 (317.51)	38.8 (17.60)
	50	.29 (7.4)	11.10 (281.9)	30.1	34 (15.42)	575 (260.82)	32.0 (14.51)	39 (17.69)	580 (263.08)	32.3 (14.65)
10	51	.32 (8.1)	11.10 (281.9)	33.2	34 (15.42)	630 (285.76)	35.1 (15.92)	39 (17.69)	635 (288.03)	35.4 (16.06)
	52	.35 (8.9)	11.10 (281.9)	36.2	34 (15.42)	685 (310.71)	38.1 (17.28)	39 (17.69)	690 (312.98)	38.4 (17.42)
	53	.38 (9.7)	11.10 (281.9)	39.2	34 (15.42)	740 (335.66)	41.1 (18.64)	39 (17.69)	745 (337.93)	41.4 (18.78)
	54	.41 (10.4)	11.10 (281.9)	42.1	34 (15.42)	790 (358.34)	44.0 (19.96)	39 (17.69)	795 (360.61)	44.3 (20.09)
	55	.44 (11.2)	11.10 (281.9)	45.1	34 (15.42)	845 (383.29)	47.0 (21.32)	39 (17.69)	850 (385.55)	47.3 (21.45)
10	56	.47 (11.9)	11.10 (281.9)	48.0	34 (15.42)	900 (408.23)	49.9 (22.63)	39 (17.69)	905 (410.50)	50.2 (22.77)
2	50	.31 (7.9)	13.20 (335.3)	38.4	43 (19.50)	735 (333.39)	40.8 (18.51)	49 (22.22)	740 (335.66)	41.1 (18.64)
12	51	.34 (8.6)	13.20 (335.3)	42.0	43 (19.50)	800 (362.87)	44.4 (20.14)	49 (22.22)	805 (365.14)	44.7 (20.28)
12	52	.37 (9.4)	13.20 (335.3)	45.6	43 (19.50)	865 (392.36)	48.0 (21.77)	49 (22.22)	870 (394.63)	48.3 (21.91)
12	53	.40 (10.2)	13.20 (335.3)	49.2	43 (19.50)	930 (421.84)	51.6 (23.41)	49 (22.22)	935 (424.10)	51.9 (23.54)
12	54	.43 (10.9)	13.20 (335.3)	52.8	43 (19.50)	995 (451.32)	55.2 (25.04)	49 (22.22)	1000 (453.59)	55.5 (25.17)
	55	.46 (11.7)	13.20 (335.3)	56.3	43 (19.50)	1055 (478.54)	58.7 (26.63)	49 (22.22)	1060 (480.81)	59.0 (26.76)
	56	.49 (12.4)	13.20 (335.3)	59.9	43 (19.50)	1120 (508.02)	62.3 (28.26)	49 (22.22)	1125 (510.29)	62.6 (28.39)

*3"-4" Nominal 20' laying length. 6"-24" Nominal 18' laying length.

OFFICE OF THE OFFICER IN CHARGE OF CONSTRUCTION CAMP LEJEUNE, NORTH CAROLINA APPROVED SUBJECT TO CONTRACT REQUIREMENTS CONTRACT N 62470-78-6- 3001 DATE 16 NOV. 78 EM C. A. TACK CDR. CEC, USN Officer in Charge of Construction

"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

Certified by Ul Date 10-31-78

CONTRACT: N62470-78-C-3001 Water Supply Line, Amphibian Base Llarine Corps Base, Camp LeJune, NC -----

Ductile Iron Pipe by Atlantic States

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This catalog has been prepared to give complete DUCTILE IRON PIPE information in condensed form. It is a compilation of the technical data that is necessary on most water and waste water projects using either TYTON JOINT® or Standardized Mechanical Joint Pipe. Additional technical information on these items is available on request.

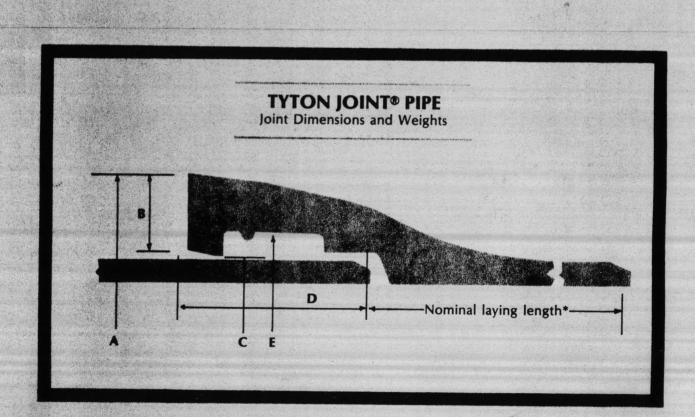
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Pipe thicknesses are calculated on the basis of internal and external pressures,

trench factors, earth loads, allowance for truck superload, beam load, service allowance, foundry tolerances, and a consideration of minimum thickness for tapping. The Ductile Iron is required to have a minimum tensile strength of 60,000 pounds per square inch, a minimum yield strength of 42,000 pounds per square inch and minimum elongation of 10 percent.

The thicknesses, dimensions and weights are nominal and subject to the tolerances listed in the standards. Metric conversions are shown in parentheses throughout most of this catalog. These are not those specified in ISO standards.

Full information can be secured from this catalog on the pipe required for laying conditions Type 1 through Type 5 for working pressures up to 350 pounds per square inch, for various depths of cover.



APPROVED
SUBJECT TO CONTRACT REQUIREMENTS
CONTRACT NG2470- 78-C. 300 DATE 16 NOV. 78 EM
C. A. TACK - CDR, CEC, USN Officer in Charge of Construction

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THICKNESSES, DIMENSIONS AND WEIGHTS OF TYTON JOINT® AND MECHANICAL JOINT DUCTILE IRON PIPE CLASSIFIED BY SIZE FOR EACH THICKNESS CLASS

Pipe manufactured in accordance with ANSI A21.51 and AWWA C151 under method of design outlined in ANSI A21.50.

			OD* In. (mm)	WL of Barref Per FL Lb.		Tyton Joint)	N	Mechanical Joint	
					WL of Bell Lb. (kg)	WL Fer Lgth:† Lb. (kg)	Avg. Wt. Per. Ft.1 Lb. (kg)	Wh of Bell Lb. (kg)	Wt. Per Lgth.† Lb. (kg)	Avg. Wt. Per Ft.‡ Lb. (kg)
3	51	.25 (6.4)	3.96 (100.6)	8.9	9 (4.08)	185 (83.91)	9.4 (42.6)	11 (4.98)	190 (86.18)	9.4 (4.26)
	52	.28 (7.1)	3.96 (100.6)	9.9	9 (4.08)	205 (92.99)	10.4 (4.72)	11 (4.98)	210 (95.25)	10.4 (4.72)
	53	.31 (7.9)	3.96 (100.6)	10.9	9 (4.08)	225 (102.06)	11.4 (5.17)	11 (4.98)	230 (104.33)	11.4 (5.17)
	54	.34 (8.6)	3.96 (100.6)	11.8	9 (4.08)	245 (111.13)	12.2 (5.53)	11 (4.98)	245 (111.13)	12.4 (5.62)
	55	.37 (9.4)	3.96 (100.6)	12.8	9 (4.08)	265 (120.20)	13.2 (5.99)	11 (4.98)	265 (120.20)	13.4 (6.08)
	56	.40 (10.2)	3.96 (100.6)	13.7	9 (4.08)	285 (129.27)	14.2 (6.44)	11 (4.98)	285 (129.27)	14.2 (6.44)
	51	.26 (6.6)	4.80 (121.9)	11.3	11 (4.98)	235 (106.59)	11.8 (5.35)	16 (7.25)	240 (108.86)	12.1 (5.49)
	52	.29 (7.4)	4.80 (121.9)	12.6	11 (4.98)	265 (120.20)	13.2 (5.99)	16 (7.25)	270 (122.47)	13.4 (6.08)
	53	.32 (8.1)	4.80 (121.9)	13.8	11 (4.98)	285 (129.27)	14.4 (6.53)	16 (7.25)	290 (131.54)	14.6 (6.62)
	54	.35 (8.9)	4.80 (121.9)	15.0	11 (4.98)	310 (140.61)	15.6 (7.08)	16 (7.25)	315 (142.88)	15.8 (7.17)
	55	.38 (9.7)	4.80 (121.9)	16.1	11 (4.98)	335 (151.95)	16.6 (7.53)	16 (7.25)	340 (154.22)	16.9 (7.67)
	56	.41 (10.4)	4.80 (121.9)	17.3	11 (4.98)	355 (161.03)	17.8 (8.07)	16 (7.25)	360 (163.29)	18.1 (8.21)
	50	.25 (6.4)	6.90 (175.3)	16.0	18 (8.16)	305 (138.36)	17.0 (7.71)	22 (9.97)	310 (140.61)	17.2 (7.80)
	51	.28 (7.1)	6.90 (175.3)	17.8	18 (8.16)	340 (154.22)	18.8 (8.53)	22 (9.97)	340 (154.22)	19.0 (8.62)
	52	.31 (7.9)	6.90 (175.3)	19.6	18 (8.16)	370 (167.83)	20.6 (9.34)	22 (9.97)	375 (170.10)	20.8 (9.43)
	53	.34 (8.6)	6.90 (175.3)	21.4	18 (8.16)	405 (183.70)	22.4 (10.16)	22 (9.97)	405 (183.70)	22.6 (10.25)
C	54	.37 (9.4)	6.90 (175.3)	23.2	18 (8.16)	435 (197.31)	24.2 (10.98)	22 (9.97)	440 (199.58)	24.4 (11.07)
	55	.40 (10.2)	6.90 (175.3)	25.0	18 (8.16)	470 (213.19)	26.0 (11.79)	22 (9.97)	470 (213.19)	26.2 (11.88)
	56	.43 (10.9)	6.90 (175.3)	26.7	18 (8.16)	500 (226.80)	27.7 (12.56)	22 (9.97)	505 (229.06)	27.9 (12.66)
	50	.27 (6.9)	9.05 (229.9)	22.8	26 (11.79)	435 (197.31)	24.2 (10.98)	29 (13.15)	440 (199.58)	24.4 (11.07)
	51	.30 (7.6)	9.05 (229.9)	25.2	26 (11.79)	480 (217.72)	26.6 (12.07)	29 (13.15)	485 (219.99)	26.8 (12.16)
	52	.33 (8.4)	9.05 (229.9)	27.7	26 (11.79)	525 (238.14)	29.1 (13.20)	29 (13.15)	530 (240.40)	29.3 (13.29)
	53	.36 (9.1)	9.05 (229.9)	30.1	26 (11.79)	570 (258.55)	31.5 (14.29)	29 (13.15)	570 (258.55)	31.7 (14.38)
	54	.39 (9.9)	9.05 (229.9)	32.5	26 (11.79)	610 (276.69)	33.9 (15.38)	29 (13.15)	615 (278.96)	34.1 (15.47)
and a	55	.42 (10.7)	9.05 (229.9)	34.8	26 (11.79)	650 (294.84)	36.2 (16.42)	29 (13.15)	655 (297.10)	36.4 (16.51)
	56	.45 (11.4)	9.05 (229.9)	37.2	26 (11.79)	695 (315.25)	38.6 (17.51)	29 (13.15)	700 (317.51)	38.8 (17.60)
	50	.29 (7.4)	11.10 (281.9)	30.1	34 (15.42)	575 (260.82)	32.0 (14.51)	39 (17.69)	580 (263.08)	32.3 (14.65)
	51	.32 (8.1)	11.10 (281.9)	33.2	34 (15.42)	630 (285.76)	35.1 (15.92)	39 (17.69)	635 (288.03)	35.4 (16.06)
	52	.35 (8.9)	11.10 (281.9)	36.2	34 (15.42)	685 (310.71)	38.1 (17.28)	39 (17.69)	690 (312.98)	38.4 (17.42)
	53	.38 (9.7)	11.10 (281.9)	39.2	34 (15.42)	740 (335.66)	41.1 (18.64)	39 (17.69)	745 (337.93)	41.4 (18.78)
	54	.41 (10.4)	11.10 (281.9)	42.1	34 (15.42)	790 (358.34)	44.0 (19.96)	39 (17.69)	795 (360.61)	44.3 (20.09)
	55	.44 (11.2)	11.10 (281.9)	45.1	34 (15.42)	845 (383.29)	47.0 (21.32)	39 (17.69)	850 (385.55)	47.3 (21.45)
	56	.47 (11.9)	11.10 (281.9)	48.0	34 (15.42)	900 (408.23)	49.9 (22.63)	39 (17.69)	905 (410.50)	50.2 (22.77)
12	50	.31 (7.9)	13.20 (335.3)	38.4	43 (19.50)	735 (333.39)	40.8 (18.51)	49 (22.22)	740 (335.66)	41.1 (18.64)
12	51	.34 (8.6)	13.20 (335.3)	42.0	43 (19.50)	800 (362.87)	44.4 (20.14)	49 (22.22)	805 (365.14)	44.7 (20.28)
1 Cal	52	.37 (9.4)	13.20 (335.3)	45.6	43 (19.50)	865 (392.36)	48.0 (21.77)	49 (22.22)	870 (394.63)	48.3 (21.91)
12	53	.40 (10.2)	13.20 (335.3)	49.2	43 (19.50)	930 (421.84)	51.6 (23.41)	49 (22.22)	935 (424.10)	51.9 (23.54)
	54	.43 (10.9)	13.20 (335.3)	52.8	43 (19.50)	995 (451.32)	55.2 (25.04)	49 (22.22)	1000 (453.59)	55.5 (25.17)
	55	.46 (11.7)	13.20 (335.3)	56.3	43 (19.50)	1055 (478.54)	58.7 (26.63)	49 (22.22)	1060 (480.81)	59.0 (26.76)
12	56	.49 (12.4)	13.20 (335.3)	59.9	43 (19.50)	1120 (508.02)	62.3 (28.26)	49 (22.22)	1125 (510.29)	62.6 (28.39)

*3"-4" Nominal 20' laying length. 6"-24" Nominal 18' laying length.

2 ... 3



"It is hereby certified that the (EQUIPMENT) (MATERIAL) shown and marked in this submittal is that proposed to be incorporated into contract number is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for government approval."

CONTRACT: N62470-78-C-3001 Water Supply Line, Amphibian Base Marine Corps Base, Camp LeJune, NC Pres -

Certified by <u>up</u> Date <u>10-31-78</u>

CONTRACTOR'S	CUDMITTAL	TDANEMIT	TAI	1 LSA	IT 1			bo	y
5ND LANTDIV 4-4355/3 (Rev. 6/7			0-76-0-	CONTRACT NO.	TRA	NSMI	TTAL NO.	DATE 3-	7-78
EAST COAST_CO	NSTRUCTION	a start and a start of		REPLACE	CT N62470 FOUR WA	-76- TEI	-C-6799 R WELLS	с. С	100
		CONTRACTOR	USE ONLY	CAR	NE CORPS	192201	MA	WER USE O	AND
Contractor Approved	List only one of the	e following cate indicate which i	ion division per fo gories on each tra s being submitted Approval	nsmittal form,	on/Substitutio	on	A-Appro D-Disap AN-Appr	proved roved as not apt acknowle nents	ed
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	The second								
CONTRACTOR'S COMMENTS			.1. 7011010	ATOR -TOTA	11750 0	11			
2) IN DICATE	FLOW SH	M FLOW	AD 20%	CONTRACTOR REPRESE	AND 9	15		00 GP	M
DATE RECEIVED BY REVIEWER	R and S	FROM (Reviewer)	B HORN	<u> </u>	EAST	0	GAST		
tractor calls attention	on to and supports	icated. Approval the deviation.	of an item does no	t include approval of ar	ny deviation fr	om ti			
transmittal form.	arded to LANTDIV	with A-E recomm	iendations indicate	ed in REVIEWER USE C	JNLT Section				
Sile it	M FLOW	18 300 Acco	BPM,	INDICATOR					J
3. IN SUR PRIN	E 22" L 6 IN P	UMPHOU	BE.	NOT INTER	FLICE				
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COPIES TO: ROICC (2) LANTDIV (1) A-E (1)		DATE/10/70	8	SIGNATURE	Home	2		and the second	
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NULTER -C- (0791 1-8-1 MP Legenne, M.E. X access 5273 Rockwell Model 102 Propeller Meter 7 AN SQL I) MARK UNITS DESIRED ON INDICATOR-TOTAMZERDIAL . 2) IN DICATE MAXIMUM FLOWSTER QUIKED. S) MINIMUM FLOW SHOULDREND 26 % OF MAXIMUM. +) METER 15 160 % Accurate @ 220 G.P.M. AND 35 % @ 160 GPM NEVEN entherman a corten of CANTALISTIC LARIA Aquinitation 8109 10/ 3/10/78 Hampt Friends

MODEL 101 and 102 150 psi CAST IRON FLANGED TUBE MAGNETIC DRIVE—SEALED GEAR HOUSING SIZES 2" thru 12"



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PROPELLER METERS

OFFICE OF THE OFFICER IN CHARGE OF CONSTRUCTION CAMP LEJEUNE, NORTH CAROLINA	
APPROVED"AS SUBJECT TO CONTRACT REQUIREMENTS CONTRACT 76-6799 DATE 3/10/78 C. A. TACK GRH CDR, CEC, USN Officer in Charge of Construction	NOTES

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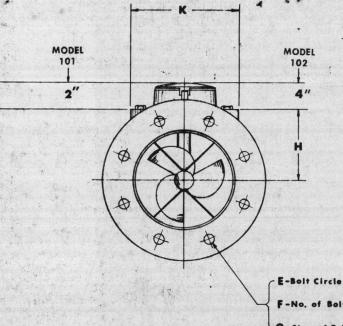
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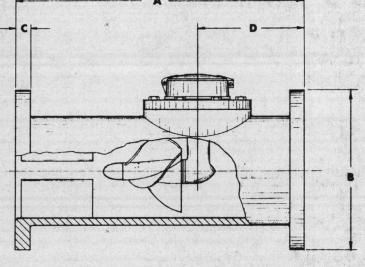
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MODEL 101 and 102





-No. of Bolts

Size of Bolts

METER & PIPE SIZE Mi	NORMA		INTERMITTENT	DIMENSIONS									SHIPPING
	Minimum		MAXIMUM	A	B	C	D	genn	s, F − l	G	H	K	POUNDS
2*	35	160	215	14	.61	1. 5/8 1	51/2	43/4	4	5/8	33/8	5	50
3*	40	250	350	16	71/2	3/4	61/2	6	4	5/8	33/8	5	70
4	50	500	700	18	9 .	1	71/2	71/2	8	5/8	37/8	5	90
6	90	1200	1500	22)	,11	*1 ·	9	91/2	8	3⁄4	5	9	150
8	100	1500	2000	24	131/2	11/8	9	113/4	8	3⁄4	6	9	220
10	125	.2000	3000	26	16	1 3/16	10	141⁄4	12	7⁄8	73/8	11	310
12	150	2500	3500	28 1	419	11/4	10	17	12	7/8	83/8	11	420

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*2" and 3" meters for special applications only.

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			C. P. W. Miller			
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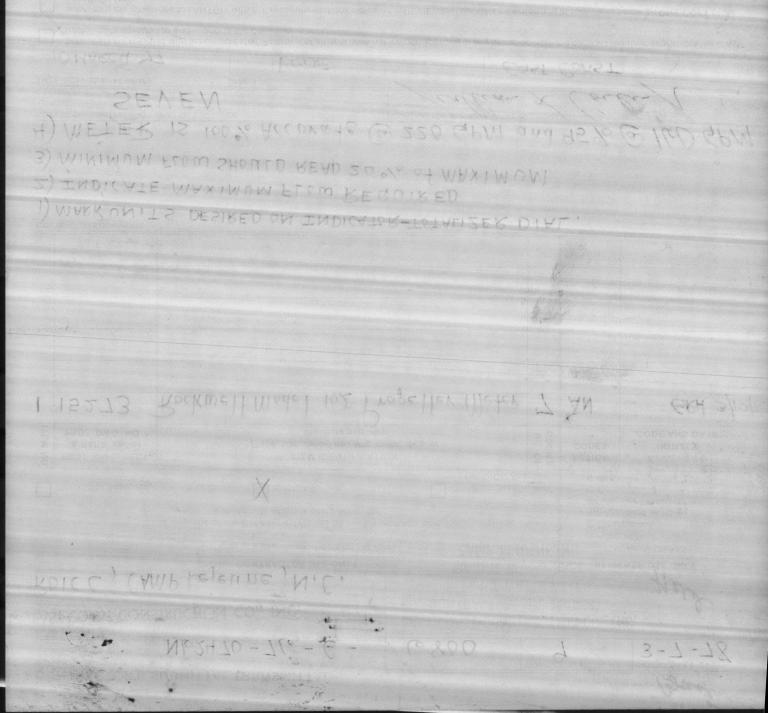
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CONTRACTOR'S SUBMITT	TAL TRANSMITTAL				Baser
5ND LANTDIV 4-4355/3 (Rev. 6/76)	170-71 - 64	CONTRACT NO.	TRANSM	TTAL NO.	DATE 3-7-78
FROM CONTRACTOR EAST_COAST_CONSTRUCTION TO ROICC CAMP Le	DN.CO.; INC: CONTRACTOR USE ONLY ist only one specification division per f of the following categories on each tr and indicate which is being submitted OICC Approval	PROJECT TITLE AND LOCAT EAST COAST CO CONTRACT REPLACE MARINI form. CAMP ransmittal form, d Deviation/	N62470-7 WATER W CORPS I LEJUENE, Substitution	6-C-6800 VELLS ASE REVIE NC **At A-Appro D-Disap AN-App RA-Rec C-Comi	EVER USE ONLY CTION CODES oved poroved roved as noted eipt acknowledged. ments
PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICAT (Type, size, model no., Mfg. i brochure numbe	ΓΙΟΝ name, dwg. or	NO. OF	R-Resul	REVIEWER'S INITIALS CODE AND DATE
	well Model 102 P	ropeller Me	ter 7	*AN	GRH 3/10
		<u>.</u>			
2) INDICATE MAN 3) MINIMUM FLOW	SIRED ON INDICAT XIMUM FLOW RE SHOULD READ 20 00% Accurate (QUIRED 0% of MAXII	MUM		@ 16D GPN
COPY OF TRANSMITTAL AND SUBMITTALS TO SEVEN		CONTRACTOR REPRESENT	ATIVE (Signature)	Con	link
DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TC	EAST	COAST	
	on indicated. Approval of an item does n	ot include approval of any d	eviation from	the contract red	quirements unless the con-
Submittals are forwarded to LANT transmittal form.	TDIV with A-E recommendations indica	ted in REVIEWER USE ONL	Y Section and	in comments t	below on ONE COPY of the
REVIEWER'S COMMENTS # 1. INDICATOR, Z.INSURE 22 PIPING IN F Z.MAXIMUM FLOW	DIAL SHOULD RE LENGTH WILL NO DUMPHOUSE; LENG WILL BE 300 DINGLY.	EAD GPM. TT INTERFE TH ON PLAN GPM, INDICAT	RE W IS SC. FOR DI	ALES ALES	THER ABOUND 11". HOULD
KEAD ACCORD	NINGLY .	E.			
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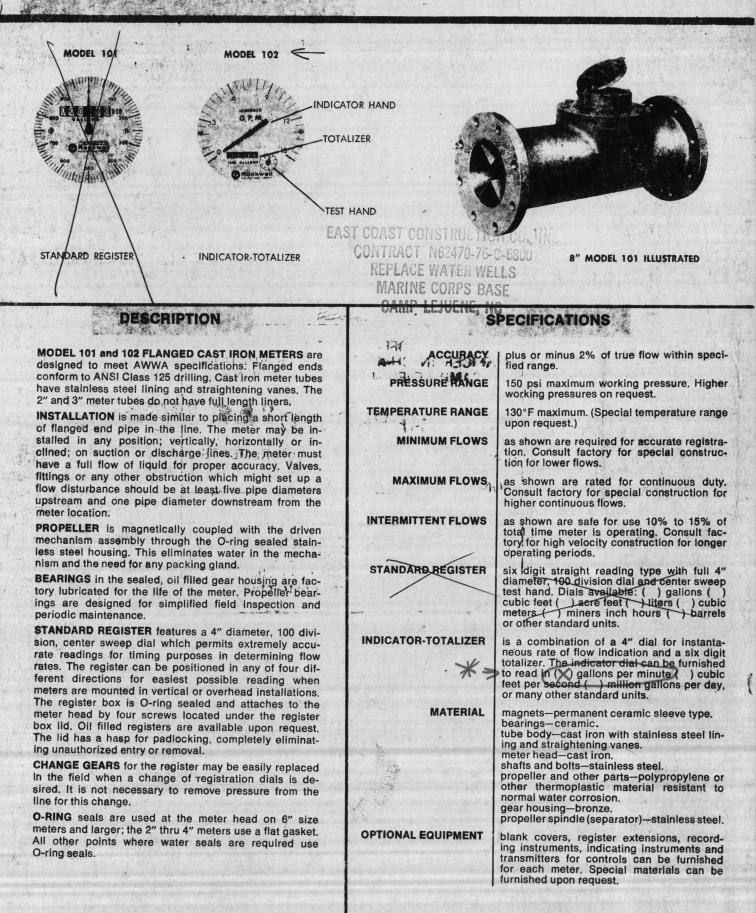
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READ ACCORDINGLY 2 MAXIMUM FLOW

E CONTRACTORIANT STATE

ALES AROUND II

MODEL 101 and 102 150 psi CAST IRON FLANGED TUBE MAGNETIC DRIVE—SEALED GEAR HOUSING SIZES 2" thru 12"



PROPELLER METERS

OFFICE OF THE OFFICER IN CHARGE OF CONSTRUCTION CAMP LEJEUNE, NORTH CAROLINA	4
APPROVED	
SUBJECT TO CONTRACT REQUIREMENT	S
CONTRACT	the set is the set of
DATE 3/10/78 C. A. TACK GRH CDR, CEC, USN Officer in Charge of Construction	

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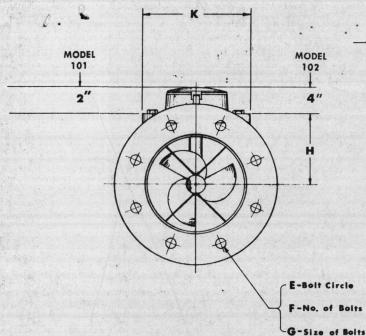
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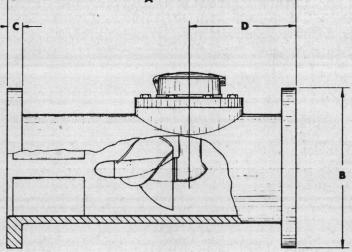
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MODEL 101 and 102





METER & PIPE SIZE				BIA BOIRENSIONS									SHIPPING
	and the second	Maximum	MAXIMUM	A	B	C	D	E	¥	G	H	К	POUNDS
2*	35	160	215	14	6	5⁄8	51/2	43⁄4	4	5/8	33/8	5	50
3*	- 40	250	350	16	71/2	3⁄4	61/2	6	4	5/8	33/8	5	70
4	50	500	700 143	M 18	. 9	1	71/2	71/2	8	1 5/8	31/8	5	90
6	90	1200	1500	(22)	11	1	9	91/2	. 8 0	3⁄4	5	9	150
8	100	1500	2000	24	131/2	11/8	9	1,1,3/4	8	3/4	6	9	220
10	125	2000	3000	26	16	1 3/16	10	141⁄4	12	7/8	73/8	11	310
12	150	2500	3500	6780	19	11/4	10	17	12	7/8	83/8	11	420

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CHEMICAL ANALYSIS - WATER MCBCL 11330/3 (REV 8-74) Wells at New River Air Stophinbate 7007/ Cellular

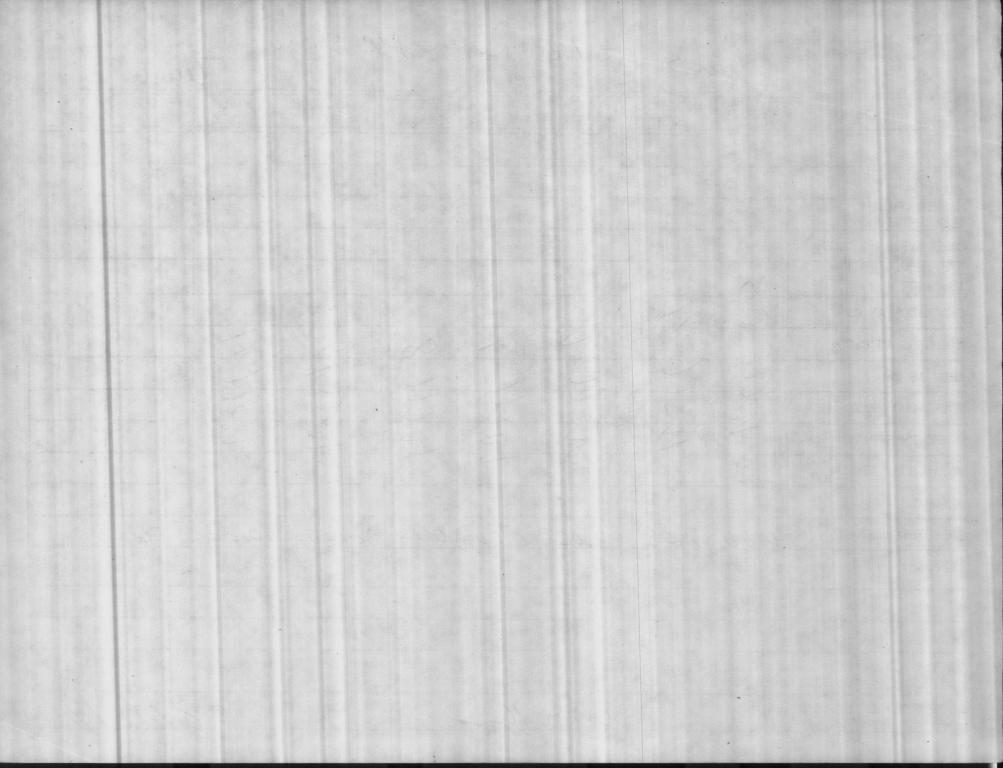
Parameter	HADNOT POINT	MONTFORD POINT	CAMP GEIGER	TARAWA TERRACE	ONSLOW BEACH	COURTHOUSE BAY	RIFLE RANGE	HOLCOMB BLVD	NEW RIVER
PH									
PHENOLTHALEIN									
ALKALINITY METHYL ORANGE ALKALINITY									
CARBONATES AS CaCO3									
BICARBONATES AS CaCO3	M								
CHLORIDES AS CL	1.0	X							
HARDNESS AS CaCO3			C	N	00	0	//		
IRON AS Fe	R	2	Y			~	V		
TOTAL PHOSPHATE	S	P	2	2	3	B	5		
ORTHO PHOSPHATE	2	Z	2	3	5	N.	3		
META PHOSPHATE	3	4	6	7	8	10	11		
FLUORIDE K									
CHLORINE RESIDUAL	0,00	2.08	2.02	0.00	0.00	0,00	0,00	Flhor	ide mg
REMARKS:						1			
		and the fact that the second sec	ti Gendar dangerar dingangangang						

NOTE: All results reported in parts per million unless otherwise noted except for pH, temperature, and specific conductance. One liter of potable water is assumed to weigh one kilogram.

DATE OF ANALYSIS: XN

LABORATORY ANALYSIS BY:

Mrs.16



Wells Cat Mg + M. B. alk pH TDS Hardeness Phlander 7.3 320 130 2 130 0 2:00 31 8.4 680 40 40 20 20 350 7 -4 8.4 640 30 12 16 360 88 40 7.3 360 160 140 20 240 X 5 90 10 96 7.5 640 350 100 x-6 -7 150 38 290 14 7.3 380 182 -8 7.5 360 280 160 19 180 20 9 7.3 288 162 10 7.3 7.3 11 2 45gpm 3 + 4 (180 gpm ea 7×8 90-110 ea 28-30 46-# 56 100 gpm 2a

1-26-68	# 7 well P. J. = 7.3
	± 8 /1 /1 = 7.3
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* * # 3506 well # 9

Deming Dump co. HP. 25 PH. = 3 cycle = 60 TYPE 2 Ju Disign B CODE H CONT. RATING = 55° FRAME 2157 BEARING SIZES WAPER - 1- 7210B TC Lower = 1 - 62077 OUTLET OR EFF. 2" SERIAL # 3718879 = ELECT. MOTOR 20, S. ELECT. MOTOR V. 220 - 14 amps RPM = 1750 " 440 - 7 " HOLLOW SHAFT PUMP SERIAL # 07-21542 Fig, #4750 4" INT. COL. PIPE DWG, 2314 WELL # 6 - BIDG, # 203 - Same no # Swell 150 G.P.M. HP= 7,5 PHI= 3 TYPE WINTR SCU 208 CYCLE = 60 JOHNSTON TURBINE FUMP V. 220/440 R.P.M = 1800 u. FRAME = 284-P AMPS=102H1 - 20 = LO SERIAL # 252 5427 RATING = 40°C CODE 2G DESIGN 28 SHOP # = N.C. M. 110

Alter and a second a second a second a second and the three and the second Benning Back to very service 121000 15 in a second the second is a second the and a start and the start of th 14° 2 5° 2 0° 24 10 17 11 11 11 11 11 Paul Sagner + ter 2 a to the third at the second gain the states a serie a production the state of the state TAPS and the State a Basis and a state and transisson tacked a state nann geringen v TRAME 204-P ANTES - 10 - MA 20 - 20 Environ + + + C - actor to see in 110

.... WELL# 5 BLDG.# 129 SAME AS WELL # 6 EXCEPT SERIAL # 2525424 WELL # 4 BLDG, # 104 HP. 7 15 PH. 3 SERIAL # 2 2363545 20.5. ELECT. MOTOR TYPE=CFIL - MAR, CYCLE = 60 RPM= 1800 V. 2208/416 AMP = 21.12 Hi - 42.32 LD FRAMEZ 326-P KATING = 40% CODE = F DESIGN 2 B SHOP # PUMP 2 29049 LAYNE PUMP. WELL # 3 BLDG. 210 SAME AS # 4 EXCEPT SERIAL # 2363551 SHOP PUMP # 29048 LAYNE WELL # 2 BLDG. # 1002 HP. 2 5 PH. 23 TYPE = SCW W/N RR V. = 208/416 FRAME = 254 SERIAL# 2401620 CYCLE = 60 RPM= 1800 AMP. = 7.4 = NI 14.8 = LO RATING 40°C CODE=H DESIGN = B SNOT # = 29956 LAYNE PUMP

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WELL # 5 BLDG# 129

SAME AS WELL # 6 EXCEPT SERIAL # 2525424 WELL # 4 BLDG, 1 104 HP. 7 15 PH. 3 SERIAL # = 236 35 45 205. ELECT. MOTOR TYPE= CFIL - MRR. Cycle = 60 RPM= 1800 V. 2208/414 AMP.= 21.12Hi -42.32LD FRAME = 326-7 KATING = 40% CODE = F DESIGN 2 B SHOP # PUMP 2 29049 LAYNE WELL # 3 BLDE. 210 SAME AS # 4 EXCEPT SERIAL # 2363551 SHOT PUMP # 29048 LAYNE WELL # 2 BLDG. # 1002 HP. 2 5 PH. 23 TYPE = SOLO WIN RR V. = 208/416 FRAME = 254 SERIAL # 2401620 EYELE = 60 RAM = 1800 AMP. = 7.4 = HI 14.8 = LO RATING 40°C CODE=H DESIGN = B SNOT # = 29956 . LAYNE FUMP



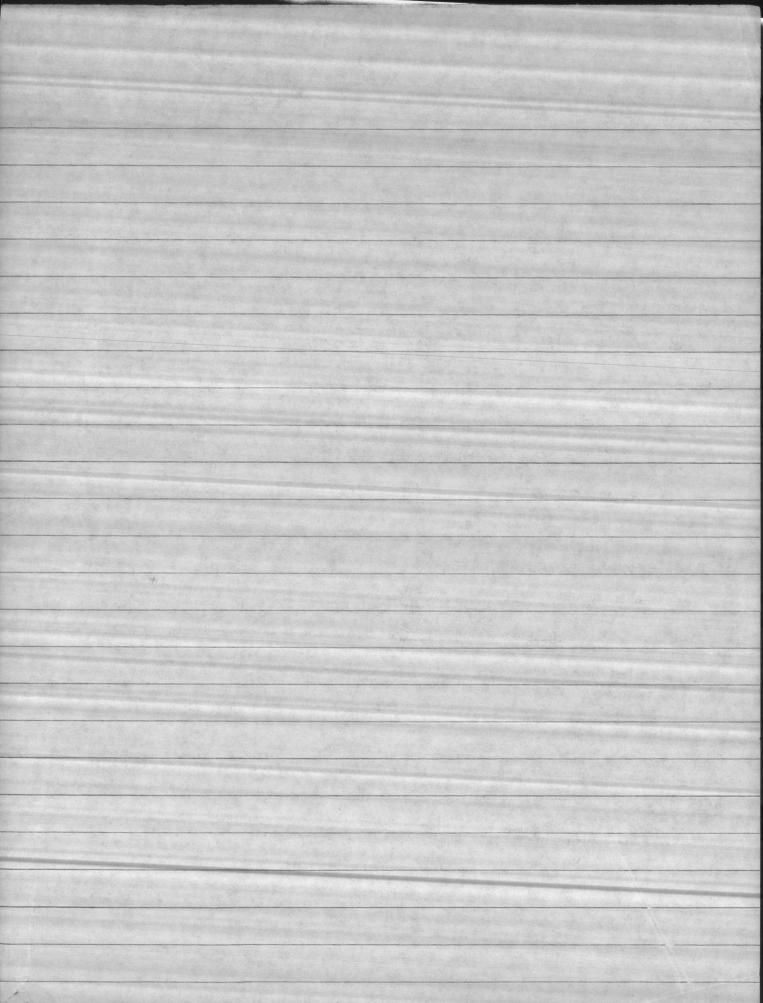
Deming Pump co. HP. 2.5 PH. = 3 cycle = 60 TYPE 2 Jul Risign B COME H CONT. RATING = 55° FRAME 2157 BEARING SIZES WYPER - 1- 72108 7C Lower = 1 - 62077 OUTLET OR EFF. 2" SERIAL # 3718879 = ELECT. MOTOR U.S. ELECT. MOTOR V. 220 - 14 amps RPM = 1750 " 440 - 7 " HOLLOW SHAFT Pump SERIAL # 07-21542 File, # 4750 4" INT. COL. TIPE DUG. 2314 WELL # 6 - BIDE# 203 HP= 7,5 PHI= 3 TYPE WIN AR SCU 208 EYCLE = 60 JOHNSTON TURBINE FUMP V 220/440 X.7M = 1800 u. FRAME = 284-P HINPS = 10 2 HI - 20 = LO SERIAL # 252 5427 RATING = 40°C CODE 26 DESIGN = B SHOP # = N.C. M. 110



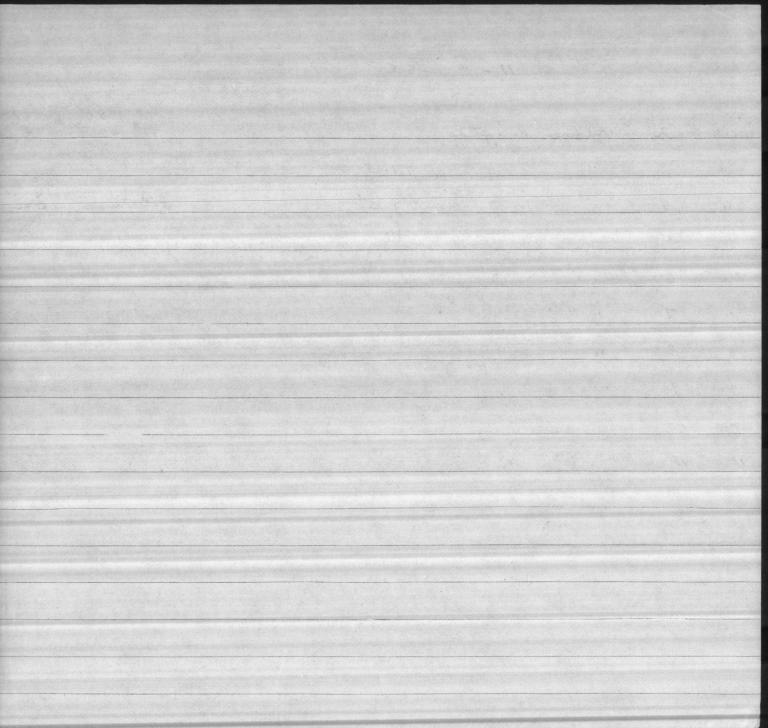
7. 2. # 2 well = 48' 7/2 Presa 80' 32' 71# 7' 5' 52 " 12 # 3 11 11 12' 7' 19' 52 " # 4 " . 11 # 5 = NO AIR LINE (BROKE OFF) = ** 9' #13' 4' # 6 11 48 " altitude guage = = 34' 13' # 7 11 26 " · 50' 25' 23' 42' 17' # 8 34 " 11 62 A15462

223,7	314.40 233.49 80.91					4	
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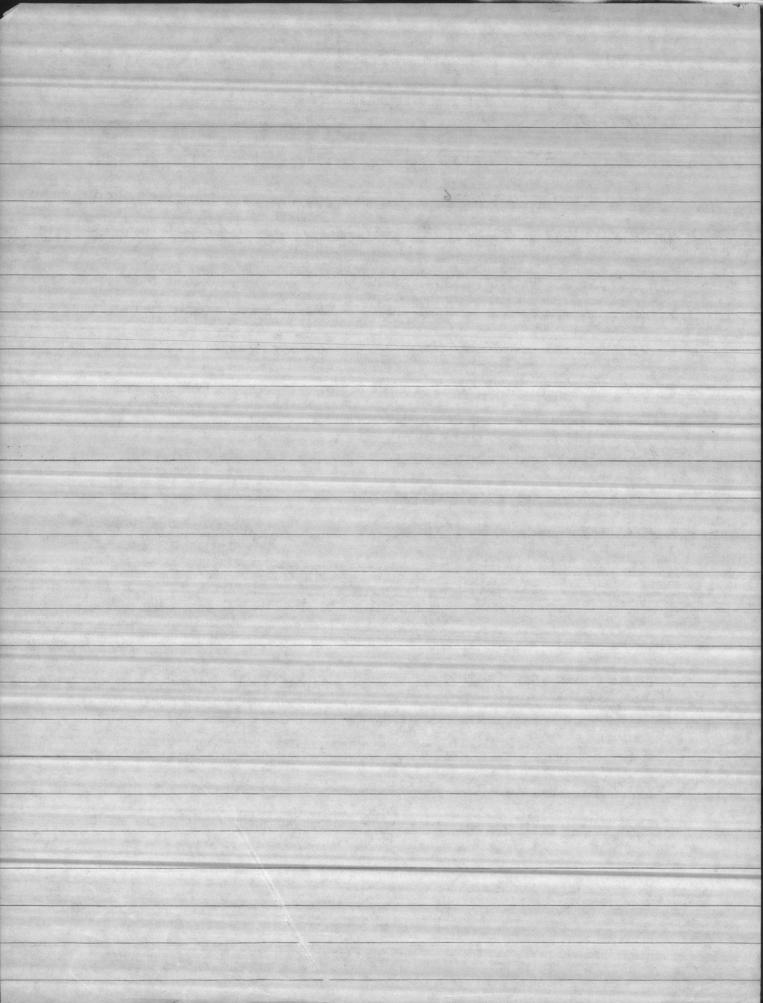
1-16-68 Check on wells # 7 + 8 wells on = 320 GPM #7 = 170 GPM - Press = 16# # 8 = 150 " - " = 18# + # 5 well on = 425 GPM # 5 11 = 155.GPM - Press:= # 7 11 = 145 - 11 - 11 = 20# # 8 " = 125 - " - " = 22# \$ 2, 3, 4, 5, 6, 7\$8 on = 705 GPM #7 = 70 - GPM - Press = 34# #8 = 45 - " - " = 36# # 2, 3, 4, 7+8 er # 7 = 105 GPM - 28 # Press 600 GPM # 8 2 90 11 - 28 1



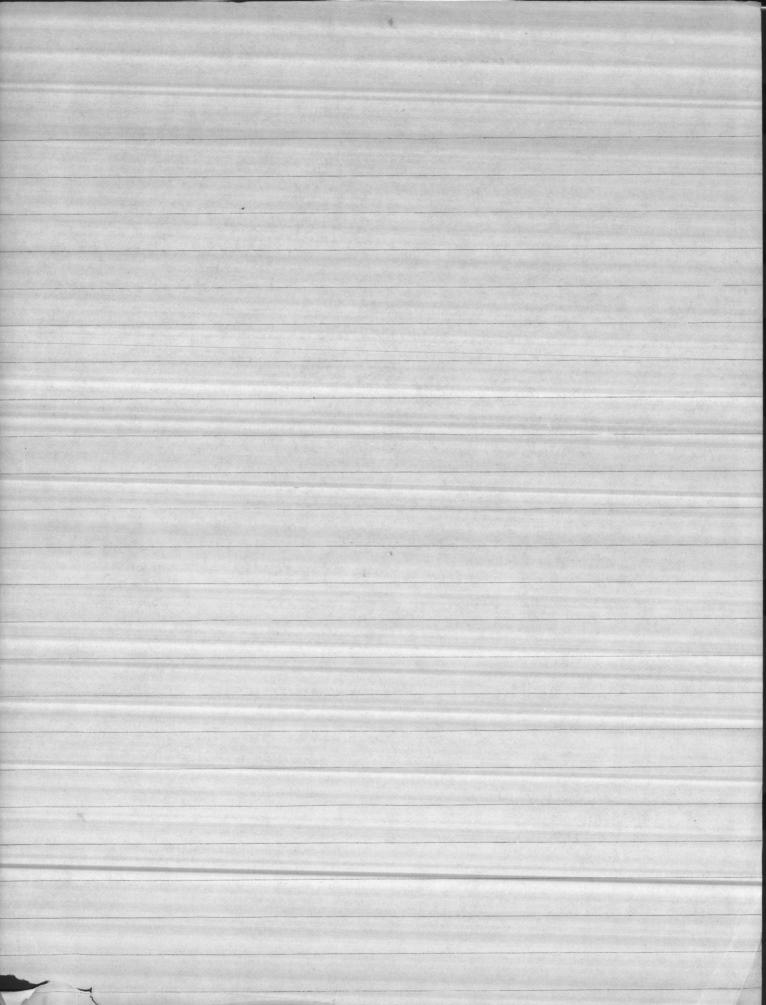
11 - 4 - 65 P. 80'75." 70# - 45" - 35 ainline length well # 2 77.5 51# Press 2.0=6 -R.Lang 77.5' -** In -" " "



1-16-68 check on wells GPM 150 # 7 + 8 wells on Press. was 16 # = # 8 = 320 GPM +#5 = 155 GPM) "=145 - "=125 = 425 " + 2,3,4+6 = 705 " # 2,3,407+8 = 600 " # 7 + 8 wells on + # 5 (Press, on 7 = 20 # = 22# # 7 = 145 GPM # 8 = 12.5 " # 5 = 155 11 2, 3, 4, 5, 6, 7+8 02 = P= # 7 = 34# = 70 GPM P= # 8 = 34# = 45 11

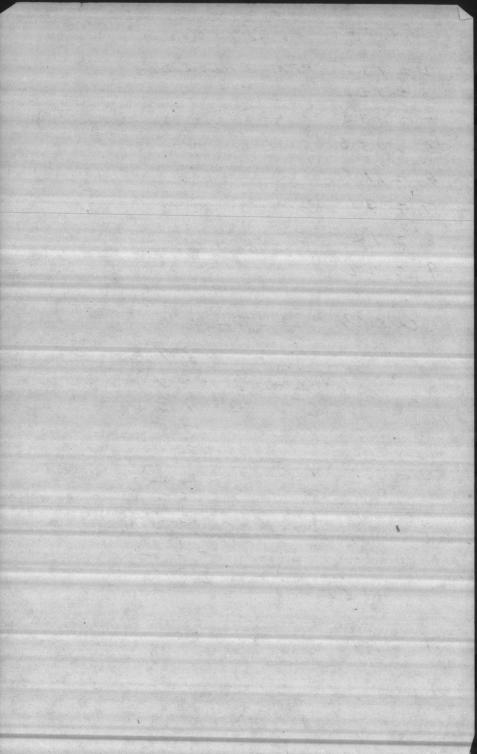


markel elect, heater 10-10-65 (50) 26 Dress on C. # 7 well = 500/ 54' P.L. off 10th 10' drawdown 44" S. L. (75°) 2.6 + Q, on G, # 8 well : 5009 50 P.L. off 10" 16' draudaven 34' 5.2. 507 9, on G. # 3 well 4' draudawn 13' P.L. 9 S.L. 51 # P., #4 well 20' P.L. 14' S. L. drawdowen 70*P, # 2 well 80"= P.L. 45 = S. L. 351 droudour # 6 well 29'= P.L. 27' = S. L 2' drawdown

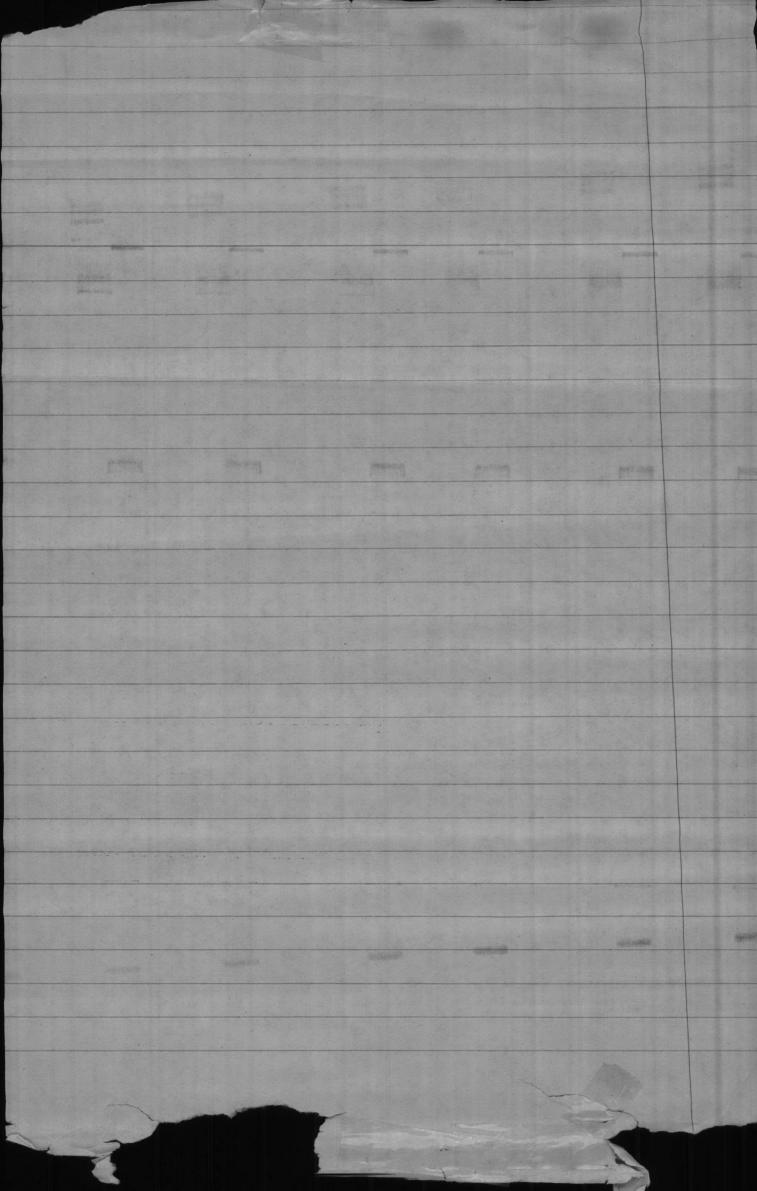


6-26-68 samples run 2, 3, 4, 5+6 up to 150 P.P.M. 27135 PPM CHLORIDES 32120 4= 130 5 \$ 150 11 11 6 7115 7=31 8=14 21 9 222

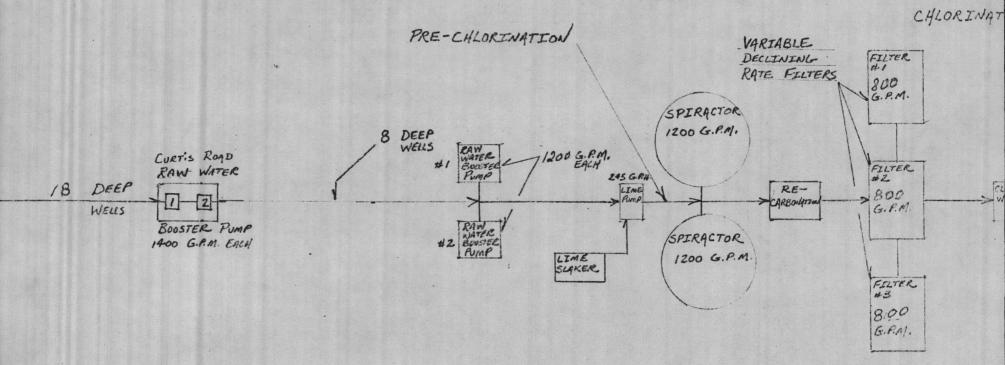
Wells. # 2 - PH- 7.3 3 - "-8.4 4- 11-8.4 5. - .. - 7.3 6 - " - 7.5 7. - " - 7.3 8 -11 - 7.5 9. - MACS 5-7.3 10. -11 - 7.3 11. -

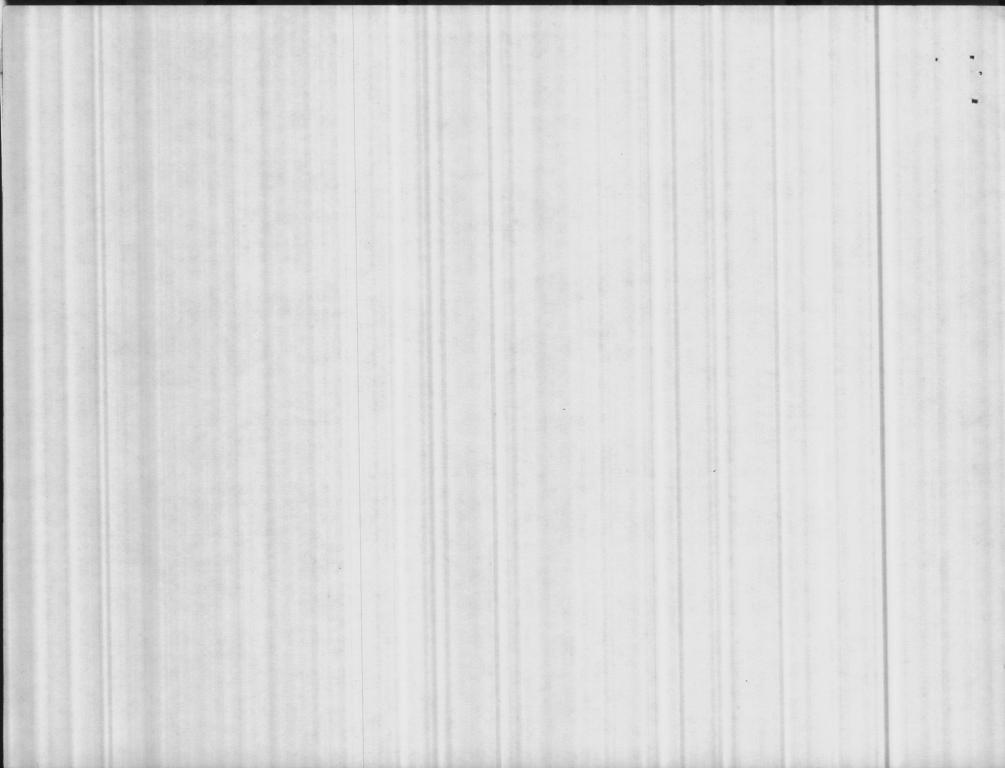


Will # 5 Bldg 131 Too high in chloridet to use 450 PPM + all #3 Bldg 210 . Chlorides 300 PPM # 4 pump to be suplaced with pump from #6 well well needs to be blown well + Pump designed to pump 150 GPM but is bown to approx 75 AM #6 well was blown mapet 21. 1974 pomp from # 5. well to be installed in this well Capacity approx 100 GPM Dwill has a capacity of 100 GPM, when operated with 10 + 11 wells it cuts back to 25 GPM. suge 4" pump in good condition well dulled approx 1960 18) well and pump same as # 7 Aize 4" 7+8 pumps seam to be pluged up on designed head pressure to

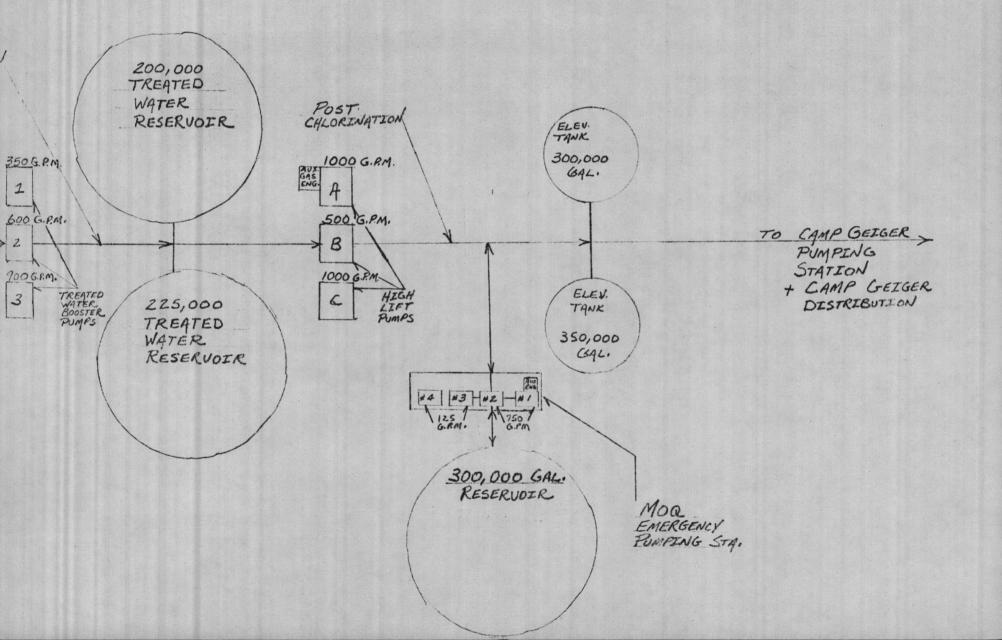


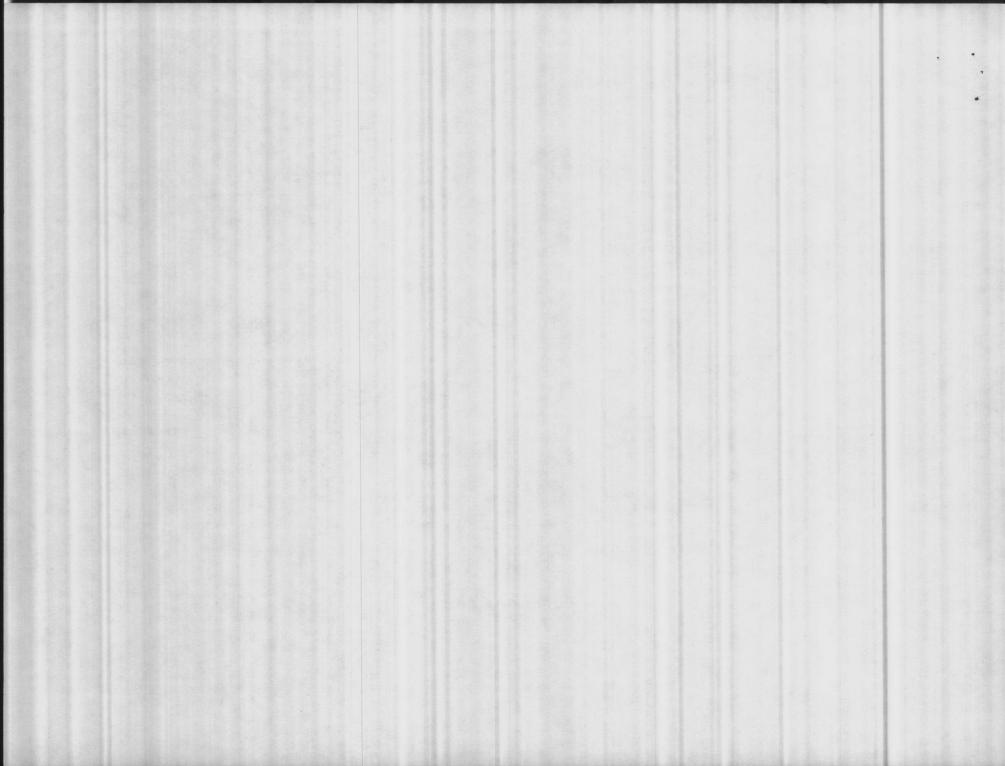
MARINE CORPS AIR CAPACITY 3.5 M.U LIME SOLT

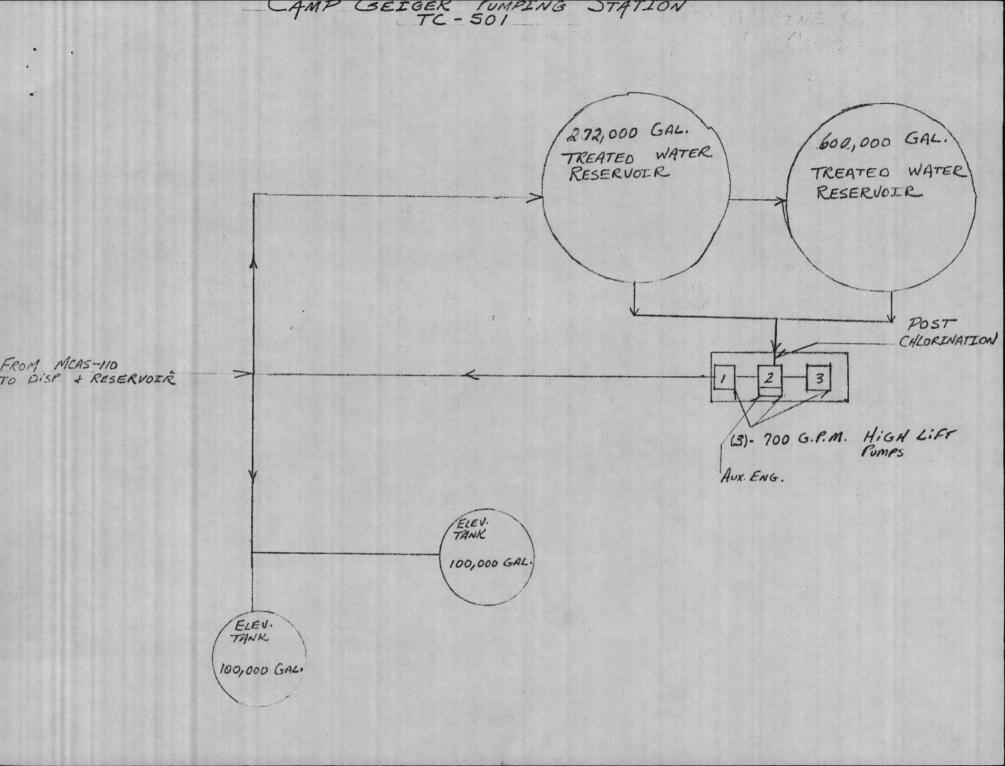




ATION - BLOG. MCAS-110 NG PLT.







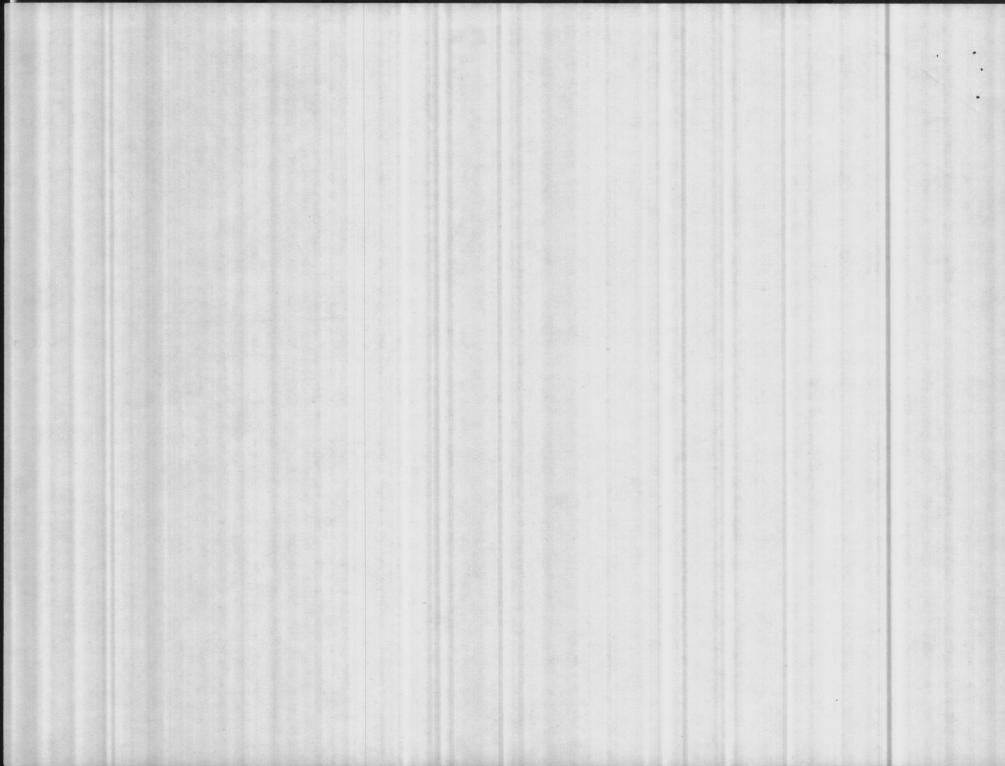


Table III C 3

WELL SURVEY SHEET'*

Sheet No. 8

DATE:

3-3-77

WELL NO.	WELL TYPE	DRILLED DEPTH ft.	STATIC LEVEL (ft)	CASING SIZE (in.)	STAGES	DRAWDOWN AT RATED CAPACITY (feet)	RATED CAPACITY (gpm)	PRESENT CAPACITY (GPM)
MCAS- 106 203 131 4140 4150 5001 5009	DRILLED DRILLED DRILLED DRILLED DRILLED DRILLED DRILLED	173' 173' 189' UNKNO 193'	16' 23' 23' DWN 44' 34'	8" 8" 8" 5" 5" 8"	5 4 4 UNKNOWN 3 3	12' 6' 5' UNKNOWN 10' 16'	178 100 250 150 150 100 150	125 75 200 100 100 75 100
SAS 161 163 164 165 165	11 11 11 11 11	200 2% 220 220 220 220					200 200 200 200 200	200 100 150 150

WELL NO.	SPECIFIC CAPACITY (gpm/ft of dtawdown)	PUMP HEAD (ft)	MOTOR H. P.	CHLORINATION (AMOUNT)	RESIDUAL CHLORINE (ppm)	AUXILIARY POWER (type)	D F0 710	RM
4CAS- -106 203 131 4140 4150 5001 5009	14.8 16.7 50.0 UNKNOWN 10.0 9.4 -	UNKNOW 75' 75'	15.0 7.5 7.5 5.0 5.0 5.0 5.0	•				•

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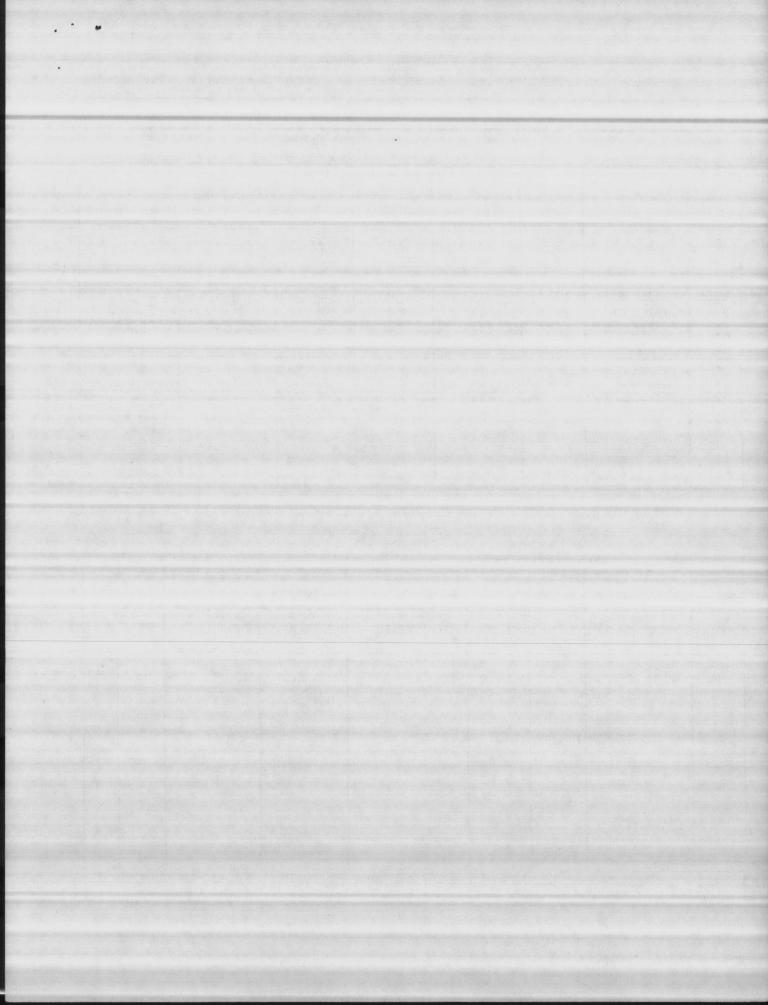


Table III-C 3

WELL SURVEY SHEET*

Sheet No. 7

7

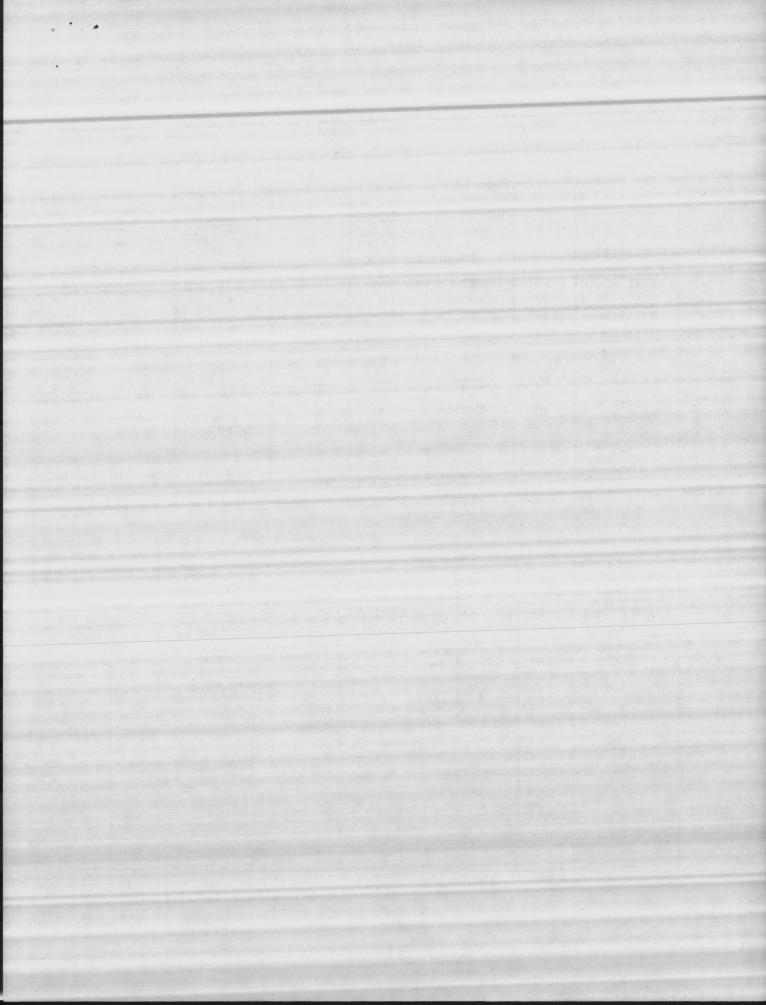
WELL NO. WELL TYPE	DRILLED DEPTH ft.	STATIC LEVEL (ft)	CASING SIZE (in.)	STAGES	DRAWDOWN AT RATED CAPACITY (feet)	RATED CAPACITY (gpm)	PRESENT CAPACITY (GPM)
TC-100 DRILLED TC-201 DRILLED TC-502 DRILLED TC-504 DRILLED TC-600 DRILLED TC-604 DRILLED TC-700 DRILLED TC-901 DRILLED TC-1000 DRILLED TC-1001 DRILLED	66' 67' 184' 100' 70' 138' 76' 76' 170' 100'	19' 15' 27' 22' 8' 17' 23' -9' 10' 25'	8" 8" 8" 8" 8" 8" 8" 8" 8" 8"	6 3 4 3 3 4 4 4 7 4 5	10' 44' 9" 38' 28' 35' 21' 26' 37' 20'	75 150 300 250 130 150 125 100 200 220	75 100 250 150 75 100 75 75 150

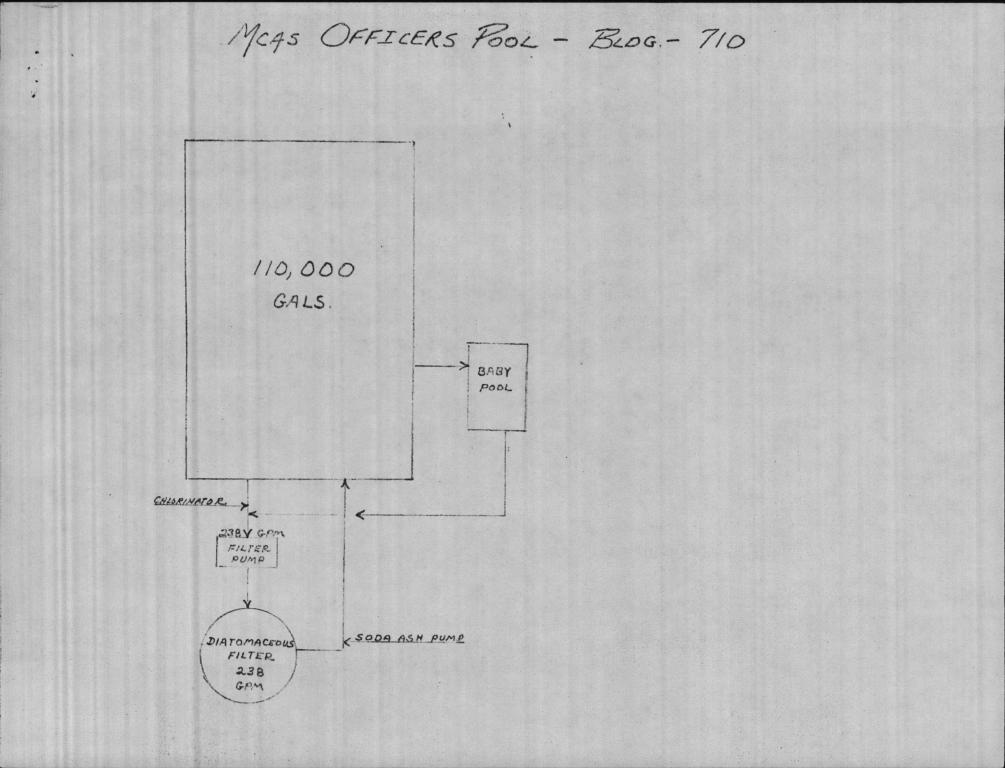
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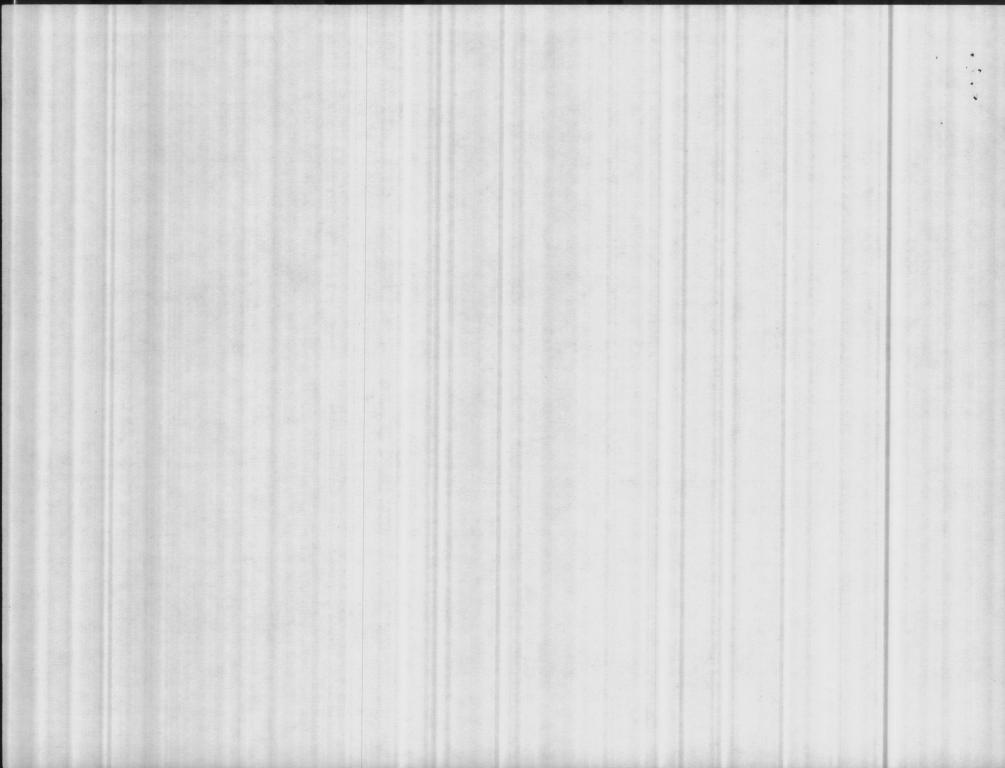
WELL NO.	SPECIFIC CAPACITY (gpm/ft of drawdown)	PUMP HEAD (ft)	MOTOR H. P.	CHLORINATION (AMOUNT)	RESIDUAL CHLORINE (ppm)	AUXILIARY POWER (type)	D FC 710	AND SERVICE AND
TC-100		80'	3.0			. Alter to		
TC-201 TC-502		57' 112'	5.0			GASOLINE		
TC-504	the state of the second st	66'	7.5			GASOLINE		
TC-600		58'	3.0			and the second second		
TC-604	the second s	65'	5.0	a share a second se				
TC-700	5.9	70'	3.0		and the second			
TC-901	3.8.	81'	3.0	1		Stranger and the second second		
TC-100	0 5.4	65'	5.0					•
TC-100	1 11.0	61'	5.0			GASOLINE		

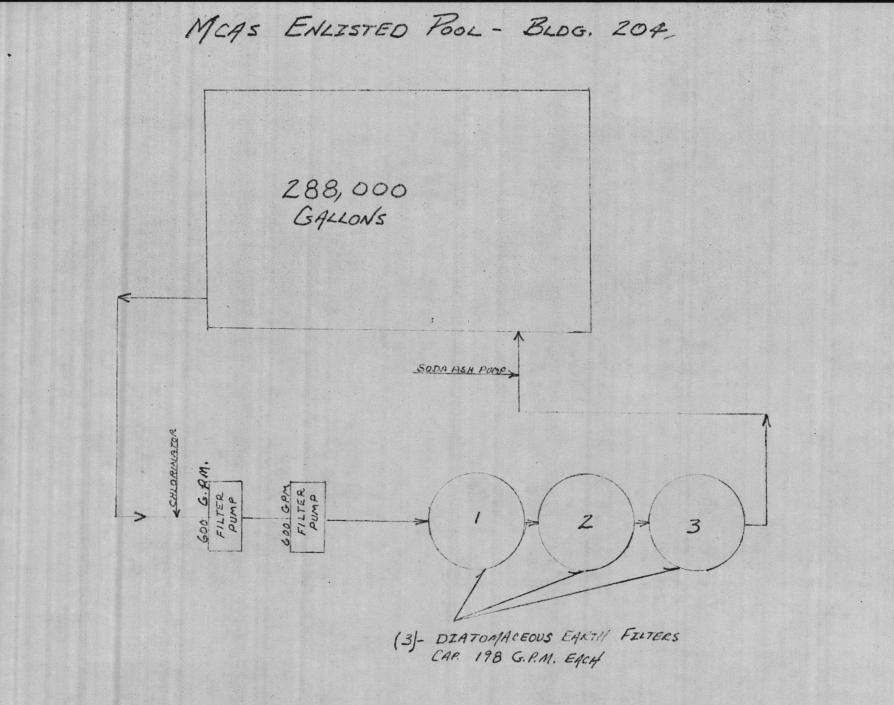
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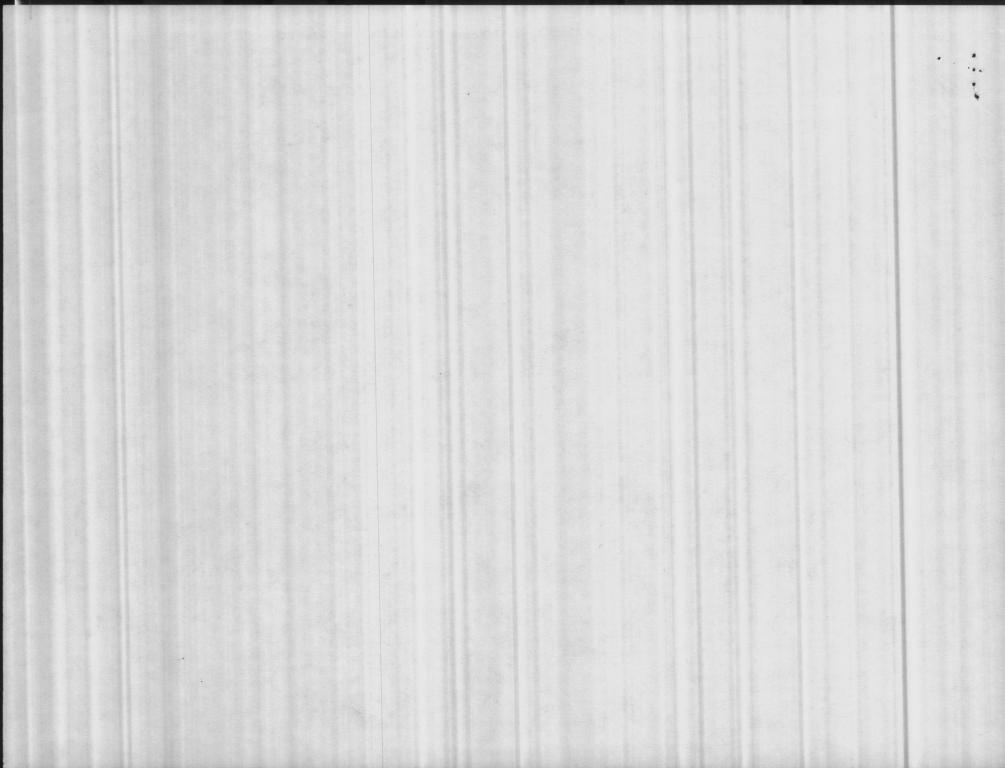
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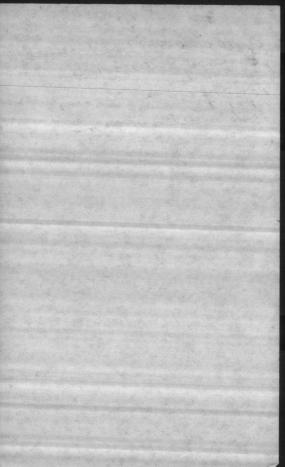




Water Plant Blog 110 Risenoir 225,000 # 108 200,000 # 109 Elevaled tank # 310 11 II 4130 Emergency pump Flation 2003 Well# 2 Bldg # 500 9 E POOL O Pooh

00 67 68 63 70 71 72 73 74 73 76 77 76 79 80		I 2 3 4 3 0 7 6 3 10 11 12 13 14 13 16 17 10 13 20 21 22 23 24 23 26 27 20 21 22 33 34 33 14 33 14 13 16 17 20 21 22 23 24 23 26 27 23 26 27 23 26 23 34 33
PREW. R PREFIX E NUMBER	WORK ORDER JOB ORDER STANDARD ACTUAL T WORK ORDER NUMBER HOURS HOURS ACTUAL T CENTERPREEM NUMBER HOURS	с. л л
START	277777777777777777777777777777777777777	REPAIR PREMIUM SORT 7777777777777
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STOP	RI 555555555555555555555555555555555555	T/CAT-LABOR CL TYPE STD. GEN. CODE 555555555556
START	N	EXTENSION HOURLY RATE 444444444444
	1 2333333333333333333333333333333333333	HOURS
STOP	150 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ACTUAL HOURS TENTHS 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
START	UE 111111111111111111111111111111111111	JOB ORDER NUMBER STD.HOURS 11111111111111111
INF		
LAPSED STOP	LABOR DISTRIBUTION REAL PSEC	
GEN H/C PREM.	SHOD/WC J/OPREFIX J/O NUMBER ACTUAL HRS HHLY, RATE T/CAY LL/CT/S GEN AEND	EMPLOYEE NAME TYPE EMPLOYEE NUMBER (8)

#7 333 25, 100 - 3 /1/ divisione 2 spon & 5-1 = each 100-150 = 2 divisione each mark = 5 gpm



Dell # 8 Belg # 509 pemping append 25 2019 at 23 PSI 4 pemp probably needs cleaning. all# 9 Blig 3506 macis five area independently operated in this area chlaunated at well Well # 10 Bldg 4140 pumping approx 150 CPM @ 13 PSI Will # 11 Blog # 4150 approf Same as # 10 well, both wills installed wells 7, 8, 10 + 11 producing approx 480 0 pm

