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Local Matters: Putting USU Research to Work in Cache Valley

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1962

Papers Concerning Logan Water Works; Well Reports

Dean F. Peterson *Utah State University*

Alvin A. Bishop *Utah State University*

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20° Well for		36- L No- 6
Located at Canyon Rd. & Crockett		
Ave.		
July 11, 1962 8:00 - 630		Put shim en bit jeint
	102 6	and tighten
	Water	0° - 4° Gravel fill
		4° - 10° Muddy Silt
	Seepage Water	10' - 15' Silt & Gravel Seepage
		of W ater
		15' - 18' Silt Gravel No water
7-03		18- 20° Clay Brown
July 12 7:00 = 5:30		20' - 25' " "
Set in casing		25' = 30' " "
		30' - 35' " "
Welded on casing 2 hours		35' - 40' " "
		40° - 45° " "
July 13 7:00 - 5:30		45' - 50' Gray Sand Clay
Welded on casing		50° - 55° " " "
		55' - 60' " " "
2 Hours		60' = 65' " " "
July 16 7:00 - 6:30		65' - 75' " " "
Welding casing 2 heurs	4 18	75' - 80' " " "
TOTALIS VALUE OF THE PROPERTY	13	80' - 82' " "
	New York Control of the Control of t	82° - 84° Gravel & silt
		84' - 85' Clay & gravel

		269° 284° Hard reck
July 17 7:00 - 5:30		85' - 90' Clay and Gravel
Welded on casing 2 hrs.		901 - 921 * *
7:00 - 0:30		92' - 95' Silt & gravel hard.
Maldad on assist 11 hours		95' - 100' " " "
	102° 6° Static Water	2951 - 3801 - 8 - 8
July 18 7:00 - 5:30	Level	100' - 105' Hard Silt & Gravel
Welded casing 2 hours		Stand Up
188. 26 2100 - 5130	_	105' 110' " "
Mater raised from	306*	110' - 112'
235! to 214!		Some water
July 19 7:00	2	112' - 115 Hard silt & gravel
		115" - 120" " " "
July 20 7:00 2:30 Welded on		120' - 123 " " "
beam and drilled 7 ft.		123' - 126 " " " "
	- 43	126' - 132' Light brown clay & rock
		132' - 140' from clay and gravel
30-ob. 28 7100 m 5r30	Mary &	140' - 153' Brown sandy clay Gravel
	3821	153' - 161' Brown sandy clay small grave
	327	161' - 169' Brown clay
		169' - 172' Sandy Clay & gravel
7100 - 5130		172' - 179' silt
Dildid exated 11 hours		179° - 182° Sandy clay & dark rock
	_ :	182' - 186' Sandy clay
	\$ 100	186' - 196' Sandy clay & gravel
	ef 1	196' - 207' Sandy clay & sediment
	Top of 16° Casing 200'	207' - 211' Gravel very little water
	Seepage	211' - 226' Hard compact rock & clay
		Apears to be limestone 226° - 235° gray hard rock & clay
		235° = 246 clay few rock
Patter 200 anging	(242 - 10)	264' _ 269' safter brown mud & rock

		3
		269' 284' Hard reck
		284' - 285' Soft clay
		285' - 287' Broken hard rock & clay
Sept. 25 7:00 - 5:30		287° - 290° Light color hard sands
Wolded on casing la hours		290' - 295' Silt & gravel
		295' - 300' " "
	-	300' = 303' " "
Sept. 26 7:00 - 5:30		303' - 306' Clay & Gravel
Water raised from	306*	306' - 310' Washed gravel & sand
135' to 114'	305•	Some water
Sept. 27 7:00 - 5:30		Welded en casing Drove
	a ted	4 feet ahead
2100 - W30	Perferated Water Good	310' - 315' Pea gravel good water
	A S	315' - 320' Cearse gravel & water
		Hard to drive pipe through
Sept. 28 7:00 - 5:30	330	320' - 322' " "
	322'	322' - 325' Silt & gravel seepage water
	327	325' - 327' " " "
7:00 - 5:10		1981 - 3001 Hard allt clay and crarel
Oct. 1 7:00 - 5:30		327' - 330' Hard Silt & Gravel No water
Welded casing 12 hours		330" - 335" " " " "
8 7/00 - 5130		AND - \$150 Rand Sile Clay & Opens
Spitched on hit 2 hours and		
Bally 12 beirg	arfereted	

Oct. 2 7:00 - 5:30	
Seried Art 13 1 the west	
	616
	vater 1420*
Oct. 3 7:00 - 5:30	
Oct. 4 7:00 - 5:30	
7-1-34 - 74-00 - 4-00 - 1-00 -	
Oct. 5 7:00 - 5:30	
Oct. 8 7:00 = 5:30 Welded on bit 2 hours and	Porterator
Casing 13 hours	Perferated 410'-415'

337* - :	339*	Hard	Silt	& Grav	rel	
339' -	345	Gummy	cla	y		
345" -	350°					
350* 35	5'	Sili	ty Cla	a.y		
355' 360) •	Guma	, "	a see	wat	F
360 -	365•		,			
365* -	370*	•	•			
370* - 3	375°	•				
375' - 3	377	Silty	Clay	7		
377' -	380*	Gummy	, .			
380' -	384		•			
384" - 3	388•	Brek	en Re	ck		
Welded						
390* - 3	95° H	ard Sil	tes	ravel		
395* - 3		•				
398* - 4	00'	Hard	silt	clay a	nd g	rave
400 - 4	05"					
405" - 4	10'	•	•			
410' - 4	15'	Hard	Silt	Clay &	Gra	vel
A KINA	Ken	HI Y				

oct 9 7:00 - 5:30		415' -	416.	Hard s	ilt clay	y gravel
Busted drill line went		4671 1	70F			
to Salt Lake and got one						
	416	A231)	804			
Oct. 10 7:00 - 5:30	water	415' -	420°	Washed	gravel	some water
Put on new drill line	420 °	hêre 4	901			
1500 feet of 1" Started drilling						
3:30		ADD! A	951	-		
Oct. 11 7:00 - 5:30		420° -	425			
Welded en casing 2 hours	1	5001 S	<u> </u>			
Oct. 12 7:00 5:30		425° 4	30° V	ery her	gravel	
Dressed bit 2 Hours	4	50.00				
Oct. 15 8:00 - 6:30	Perforated. \$251-5101	430° -	435*	•		
Dressed bit		435° -	437			•
Oct. 16 7:00 - 5:30		437° -	440*			
		440	445*			
Oct. 17 7:00 - 5:30		445° -	4501	•		
Welded on two joints						
of pipe Dreve down		-				
Cleaned hole ent						
85 27 J 2+00 5+50	Parfereted					
Oct. 18 7:00 - 5:30	450' 415'					1
Section 1	5547	4540 -	465	Silt	y clay	
Oct. 18 7:00 - 5:30	Perferated 450° 415°				& grave	1
	THE RESERVE OF THE PARTY OF THE					

7:00 - 5:30	465° 467° Silty clay
easing Transfer	467° 470° Sandy clay
	470° 475° " "
7400 - 54301	475' 480' " "
	480' 485' " "
	485' 490' " "
8:00 = 630	490° 495° Sandy & gummy clay
7100 1 5130	495' 500' " "
	500 * 504 *
7:00 - 5:30	504° 510° Clay & gravel
	510' - 515 Hard "
	Perferated
7:00 - 5:30	525'-510' 515' - 520' " "
	520' - 524' " "
	524° - 530° Gumny clay
8.00 - 6.00	Get toels stuck
	Get leese
7:00 - 5:30	5:30' - 535' " "
	535' - 540' " "
	540' - 545' " "
7:00 - 5:30	545° - 550° * *
	Tep of 12" 550° - 555° " "
	casing 554
	8:00 - 630 7:00 - 5:30 7:00 - 5:30

Oct. 29	8:00 - 6:30	
Welded en		
'Nav' 28	7:00 - 5:30	
Oct. 30	7:00 - 5:30*	
Welded cas	ine	_
20	7-00 5-00	_
Oct. 31	7:00 - 5:30	
30	7100 + 5130 \$	
Nov. 1	7:00 - 5:30	
Nov. 2	7:00 - 5:30	
	8:00 - 6:30	
Dressac Bt	4 hours	
Nov. 6	7:00 - 5:30	
Welded en	casing	
		-
Nov. 7	7:00 - 5:30	
Dec 6	7100 - 5130	
Dee: 7	7100 - 3130	4
		4

,,,,	- 565	<u> </u>	• •			
Hele	fille	d in to	618	foot.		
565"	- 570	S	andy	clay		
570	- 575	tos (6	•)			
575	- 580		*			
580*	- 585		•d Gr			
585°	5881		•			
5881	- 590	На	rd Sil	teg	ravel	
and t	oulder	rs.				
5901	- 595					
595*	- 600			"	11	
6001	- 605	n had	welde			
605'	- 608			•	•	
608*	- 612			•		
6601	- 665					
612	- 615					
615'	- 620		out	05 88		
620•	- 625'	20 5				
Drove	pipe	bent	shoe			
625	- 628*					
	Sand c	omeing	in un	der p	ipe be	ttem
6735	- 620	I Jun	(elay	SYre		

Bettem 16" casing (614° 1")

Nov. 27	7:00 - 5:30	4	Finished running in 12" casing
Nev. 28	7:00 - 5:30	-	Hele filled in to 618 feet.
			with sand. Get hele cleaned
			out to bottom (628°)
	7100 5100		. 685' 4 686' Hard Touch Orevel
Nov. 29	7:00 - 5:30		628' - 630' Hard Gravel
			630'- 635' " "
		Water 1 686	635' - 637 " "
2002.12	7100 - 5130	100	588* = 690* # 4 4
Nov. 30	7:00 - 5:30		637' - 640' " "
			640' - 645' " "
	7190 - 3120		645' - 650' " "
			7001 - 7051 2
Dec. 3	Dec. 3 8:00 - 6:30		Put on drive head welded
4-1-1-1-1	7400 15 36 30		on casing
Mildel -			650'- 655' " "
		.059	
Dec. 4	7:00 - 5:30	- 0	655' - 660' " "
		18	660' - 665' " "
	4.03 (Chr. 80.7)		77 C - 7707 Seri Care) Central
Dec. 5	7:00 - 5:30	- 3	665' - 670 Ran out of sand
		Perforated	line clamped 20 feet more on
		- i	on .
Dec 6	7:00 - 5:30		670' - 675' " "
	8:00 - 5:30		7291 1 1101 6 1 1 1 1 1 1 1 1 1 1 1
Dec. 7	7:00 - 5:30		675' - 680 Some clay streaks
		e85•	680' = 685' " " "

Dec. 10 8:30 - 7:00		Got New Sand Line
	-	Gene Spliced it on I run his rig
1902 26 8190 + 9130 M		Came Back cleaned out hole
Dec. 11 7:00 - 5:30	4	685' - 686' Hard Tough Gravel
	a se	Welded on casing 686° - 688 Washed Gravel & Water
Dec. 12 7:00 - 5:30	water 686	688' - 690' " " "
	to	690' - 695' " " "
Dec. 13 7:00 - 5:30	708*	695' - 700' " "
		700° - 705° " "
Dec. 14 7:00 - 5:30		705° - 708° " "
elded on pipe	4	708° - 710° Silt Gravel & Boulders
ec. 17 8:00 - 5:30	order	710' - 715' " " "
ec. 18 8:00 - 5:30		715' - 720' Hard Gravel Cemented
an 5 8100 4 5130	T T T	720' - 722' * *
ec 19 8:00 - 5:30	Perforated as per Perf.	722' - 725' " " "
rove Down	rior	725' - 729' " "
8:00 - 5:30	ă	729' - 730' " " "
		730° - 735° " " " "
	735°	

Dec. 21	8:00 - 5:30
-	
Dec. 26	8:00 - 5:30
Dec. 27	8:00 - 5:30
Jun 31	8100 - 5130
Jan 14	5100 4 5430
Dec. 28	8:00 - 5:30
Van. 15	8:00 - 5:30
Jan 2, 196	3
Jan 17	8100 - 5130
Jan 3 8:00 Welded on c	
and drove d	
Jan 4	8:00 - 5:30
Welded on t	no jeinia
Jan 5	8:00 - 5:30
365.23	Bress - State
Jan 7	8:00 - 5:30
Jan 8	8:00 - 5:30

Perforated as Perforating order 750° -- 735°

735" - 740	• Hard C	emented	Gravel
740 - 742	• •	n	"
742 745			- "
745' - 750'		**	
750" - 755	Clay		•
755' - 756			
756° - 757	Hard Gr	avel	
757' - 760'	RAPA.	Carrier to	d Gravel
760' - 763'	Clay &	Boulder	rs
763' - 765'	•		
765' - 770'			
8371 - 840			
840* - 845			
770' - 775'	Clay & H	Boulders	
775' - 777'	Hard. Gra	vel	
777' - 780'		Graved	a Silt
780' - 783'		2	
783' - 785'	I Marea Co	Tol 4	#/A
785' - 788'	Gummy C	lay	
788* - 789*			
8451 8601 4			
789' - 790'		•	
790" - 794"			
794 - 800	•		
			THE REAL PROPERTY.

Jan. 9 8:00 - 5:30	800° - 805° Hard Cemented Gravel
8100 - 5100	805' - 807 " "
Jan. 10 8:00 - 5:30	807' - 810 * * *
	810' - 815' " " "
Jan 11 8:00 - 5:30	815' - 820 Clay
Jan 14 8:00 - 5:30	820' - 825 Hard Cemented Gravel
Jan. 15 8:00 - 5:30	825' - 830' " " "
Jan. 16 8:00 - 5:30	830' - 835' " " "
alded on easing	835' - 837' " " "
Van 17 8:00 - 5:30	837" - 840" " " "
reased bit	840° - 845° " "
an 18 8:00 - 5:30	845' - 848' Caveing some 848' - 850' Loose Gravel & Silt
an 21 8:00 - 5:30	848' - 850' Loose Gravel & Silt
elded on two joints	
ipe	1 2
an. 22 8:00 - 5:30	850' - 852' Loose Gravel & silt
	850' - 852' Loose Gravel & silt 852' - 855' Cemented Gravel
an 23 8:00 = 5:30	855' 860' " "
an. 24 8:00 - 5:30	860° - 865° m m

	965
Jan. 28	8:00 - 5:30
Jan. 29	8:00 - 5:30
Welded on	casing
Jan. 30 Dressed bi	8:00 - 5:30 t
Fab. 13, 1	8:00 - 5:30
A hogra ve	111 of ord end on the Red
Feb. 1	8:00 - 5:30
Welded on	casing
Feb. 4	8:00 - 5:30
Dressed bit	dr. mark the con-
Feb. 5	8:00 - 5:30
Feb. 6	8:00 - 5:30
Pet. 20, 12 Tora deve 1	eele. Yet to so
Feb. 7	8:00 - 5:30
Feb. 8	8:00 - 5:30

erforated						
s per perforating order	865* 870)• s	ilt & G	rave	1	
reforate	870' - 8	75	er Gravi	A #	hoaras	strail
as per Excloration	9051 0	90.				
880*	825° - 8		,	*		
	882'- 8	85'				
<u> </u>	885' - 8	87 •	A7 * 2185	a)• g	dares .	and N
	887* - 8	90				
	8901 - 8	92•	•	-	•	341415
	892 - 89	5'	Cement	ed G	ravel	
	895' - 8	98•	•			
A.	898* - 9	00.	Clay &	Grav	rel	
	900' - 9	05'				
	905' - 9	10.	•	•		
	910°- 9	15'				
	915' - 9	17*	•		•	
	917' - 9	20'				
	920' - 9					

			-
Feb. 11, 1963		925'	
Welded on 16" casing			
and drove down	925'		
Feb. 12, 1963		925' - 390 Clay Gravel & co	4.
Made new loop for	Perforate as per	930' - 932' " "	
top of baler	Perforation order		
Welded on bit 2 hours	order		
Feb. 13, 1963		932' - 935' " " "	
Welded on bit 2 hours		9351 9401 # "	*
Feb. 14, 1963	945		
4 hours welding on casing and		940' - 945 Clay gravel coa	rse sand hard
bit, driving casing.		1	
Feb. 15, 1963		945' - 950 " " "	
milet mayers a married with the			Sticky
Figure 181 Hopfield	*	950' - 955 " " "	
Feb. 18. 1963	962	955' - 959' " " "	
3 hours welding 1 hour Dr. casing		959' - 960' " " "	•
Feb. 19, 1963	casing	960' - 965' " " "	
mi mages prove the state of the	ž	965' - 970' " . " "	
m. manex-	8	970' - 975' " "	
Feb. 20, 1963	Bottom	975' - 978' " "	
Tore down tools. Put in 90°	-		
perforator pipe			
Teb. 21, 1963	-		
out in 855' perforator pipe and	-		7
perforated 80° of hole			4
oubled back casing line.	-		
	-		
	3,000		

F-1 22 1062
Feb. 22, 1963
Perforated 100' of hole
Started cutting of
casing and broke bolt in
perforator.
Pulled out of hole
Feb. 25. 1963
Put in 550' perferator
Pipe cut off 12º casing
Pulled casing loose
on dead side cable jumped
off shive 1 hour getting
cable back over shive
pulled out 550° of perf.
Feb. 26, 1963
Pulled out 554° of 12" casing
Feb. 27, 1963
Took off 12" perforator
put on 16" •
Feb. 28, 1963
Put in 525' of perforated 16"
casing 2 hours cutting off
casing
March 1, 1963
Finished cutting off 16° casing
and pulled casing out 200 in

PLEASE NOTE: Sample cannot be analysed until all blanks are filled in (See reverse side) THE STATE OF UTAH
DEPARTMENT OF HEALTH
45 Ft.Douglas Blvd.
Salt lake City 13, Utah

DO NOT WRITE HERE
Sample Received on 6/19/62
Analysis Authorized by
Howard Mo Hurst

31467	MATER SAMPLE FOR CHEMICAL	ANALYSIS 🖼	Bacteriolog	gical
and the second of the second	MATER SAMPLE FOR RADIOLOG	IC ANALYSIS	Col.	
SAMPLE COLLECTED PROMS	(aheak ene)		Feb 8 1/5 11 20 5/5	
Storie Commission Commission	id a no () Spring	We11 🗷	June 11 5/5	
			Aug 6 0/5	_ 4
	water distribution system	아이지는 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은	11 13 0/5	11
Other 🔲	(describe)	Action and the second	Sept 4 0/5	0
EXACT DESCRIPTION OF SAL	FLING POINT: (see note of	n reverse side)	11 24 0/5	0
7th No	th and 6th East		11 19 0/5	
STATE ENGINEER'S APPLICA	ATION OR CLAIM NO. 32	885	1776b + 1	
	Logan City	경영하는 사는 경영하는 사람들은 사람들이 가지 않는데 가지 않는데 하는데 하는데 그렇게 되는데 가지 않는데 가지 않는데 다른데 다른데 되었다.		
	Not used			
PROPOSED HEE OF SHPPLY:	Culinary			
PROPOSED OSE OF DOTAGE	P. T. Stanhens	DATE: June	15, 1962	
SAMPLE COLLECTED BI:	Re Le Stap	militari sendingan mengan sendingan sendingan sendingan sendingan sendingan sendingan sendingan sendingan sendi		
REPORT RESULTS TO:	Logan City Health I	PEDU •		
Addresss	230 North Main St.	Logan, Utah		
	DO NOT WRITE BE	LOW DOUBLE LINE		
	RESULTS OF A			
Turbidity 44	Parbidity Units	Irsa (total) as Pe	0.02	
Turbidity 44 Conductivity 419	wd@ranhos/cm	Iron in filtered sample	9,00	
	7,9 235 mg/1	Magnesium as Mg	21	MCCAST TO SERVICE AND SERVICE
Total Dissolved Solids Alkalinity(total) as CaCO3	A STATE OF THE PARTY OF THE PAR	Manganese as Mn	0.06	mg/1
Aluminum as Al	mg/1	Mitrate as NO3	0.57	
Arsenic as As	0.00 =c/1	Phosphate as PO	1.6	mg/1
Barium as Ba	me/2	Phenols as Phenol		28/1
Bicarbonate as HCO3	237 =4/1	Potassium as K	1.4	mg/1
Boron as B	0.09 mg/1	Selenium as Se		mg/1
Cadmium as Cd	x/ l	Silica as SiO2	7,0	mg/1
Calcium as Ca	52 mg/1	Silver as Ag		mg/1
Carbonate as CO3	1.0 mg/1	Sodium as Na	55	mg/1
Chloride as Cl	8 16/1	Sulfate as SOL	12	_ mg/1
Chromium(hexavalent) as Cr	0.00 mg/1	Surfactant as ABS		_ mg/1
Copper as Cu	nc/1	Zinc as Zn		_mg/1
Cyanide as CN	nc/1	Suspended alpha		uuc/1
Fluoride as F	0.23 =4/1	Dissolved alpha	, <u> </u>	uuc/1
Hardness(total) as CaCO,	214 ==/1	Suspended beta		uuc/1
Hudrowide as OH	0.01 mg/1	Dissolved beta		uuc/1

PLEASE NOTE: Sample cannot be analysed until all blanks are filled in (See reverse side)

THE STATE OF UTAH DEPARTMENT OF HEALTH 45 Ft.Douglas Blvd. Salt Lake City 13, Utah

DO NOT WRITE HERE Sample Received on 20062 Analysis Authorized by Honord to Harak

WATER SAMPLE FOR CHEMICAL ANALYSIS WATER SAMPLE FOR RADIOLOGIC ANALYSIS

SAMPLE COLLECTED FROM:	(check one)				
Stream 🔲		Spring	Well		
City or Tox	m water distribu	tion system			
Other	(describe)				
EXACT DESCRIPTION OF SA	MPLING POINT: (s	ee note on reverse si	de)		
Nov well least	nd on outper of	. The Borth 6th Day			
STATE ENGINEER'S APPLIC					
SUPPLY OWNED BY:		son sa se se casa de la			
PRESENT USE OF SUPPLY:	Not being t				
PROPOSED USE OF SUPPLY:	Cultmary	A SUMPLEMENT	Consider transfer		
SAMPLE COLLECTED BY:	Ro La Stapha		DATE:	22, 1062	
REPORT RESULTS TO:		n. Loren City Beat			
Address:		in Street, Logan, I			
	The support of the late of	WRITE BELOW DOUBLE			
	RESI	ULTS OF ANALYSIS			
Turbidity 400	Turbidity Uni		al) as Fe	0,93	mg/1
Conductivity &	micromhos/cm		iltered sample as Fe	0.03	mg/1
pH	8-2	Lead as Pl	•	0.00	mg/1
Total Dissolved Solids		mg/l Magnesium	The state of the s	25	mg/1
Alkalinity(total) as CaCO3	786	mg/1 Manganese	as Mn	0.00	mg/1
Aluminum as Al		mg/1 Nitrate as	8 NO3	0.35	mg/1
Arsenic as As	0.01	mg/1 Phosphate	as POL	0.00	mg/1
Barium as Ba		mg/1 Phenols as	Phenol		mg/1
Bicarbonate as HCO3		mg/l Potassium	as K	1.0	mg/1
Boron as B	0.06	mg/l Selenium s	s Se		mg/1
Cadmium as Cd		mg/l Silica as		6.8	
Calcium as Ca		mg/1 Silver as			mg/1
Carbonate as CO3		mg/1 Sodium as		4.6	mg/1
Chloride as C1					mg/1
Chromium(hexavalent) as Cr	0.00			29	mg/1
Copper as Cu	0.00	mg/1 Surfactant			mg/1
		mg/1 Zinc as Zn		0.00	mg/1
Cyanide as CN		mg/1 Suspended	alpha		_ uuc/1
Fluoride as F	0.00	mg/l Dissolved	alpha		_ uuc/1
Hardness(total) as CaCO3		mg/l Suspended	beta		_ uuc/1
Hydroxide as OH	0.03	ng/l Dissolved	beta		uuc/1

PIEASE NOTE: Sample cannot be analysed until all blanks

Hardness(total) as CaCO3

Hydroxide as OH

THE STATE OF UTAH DEPARTMENT OF HEALTH

DO	NOT WRITE HERE
Sample	Received on
Analysi	s Authorized by

side)	Salt Lake Cit		Mo Hurst
	WATER SAMPLE FOR CHEMIC WATER SAMPLE FOR RADIOI		
SAMPLE COLLECTED FROM:	(check one)		
Stream 🔲	Spring	Well 🗷	
City or To	wn water distribution sys	tem 🗀	
	(describe)		
		on reverse side) New Wall	
	à 6th East		
		985	
SUPPLY OWNED BY:			
PROPOSED USE OF SUPPLY	Gulinery		
SAMPLE COLLECTED BY: _	Re Le Stephens	DATE: Sept.	4, 1962
REPORT RESULTS TO:	Legen City Health B		
	230 Horth Main St.,		
		ELOW DOUBLE LINE	LA PARTIE DE LA PA
	RESULTS OF	THE RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAME	
Turbidity 1.0		Iron (total) as Fe	0.18 mg/1
Conductivity 403	micromhos/cm	Iron in filtered sample	mg/1
pH		Lead as Pb as Fe	mg/1
Total Dissolved Solids Alkalinity(total) as CaCO3	mg/1	Magnesium as Mg Manganese as Mn	mg/1
Aluminum as Al	mg/1	Nitrate as NO ₃	mg/1
Arsenic as As	mg/1	Phosphate as PO,	mg/1
Barium as Ba	ng/1	Phenols as Phenol	mg/1
Bicarbonate as HCO3	mg/1	Potassium as K	mg/1
Boron as B	mg/1	Selerium as Se	
Cadmium as Cd	mg/1	Silica as SiO2	mg/1
Calcium as Ca	mg/1	Silver as Ag	mg/1
Carbonate as CO3	mg/1	Sodium as Na	mg/1
Chloride as Cl	mg/1	Sulfate as SO,	mg/1
Chromium(hexavalent) as Cr	mg/1	Surfactant as ABS	mg/1
Copper as Cu	mg/1	Zinc as Zn	mg/1
Cyanide as CN	mg/1	Suspended alpha	mg/1
Fluoride as F	mg/1	Dissolved alpha	uuc/1

Suspended beta

Dissolved beta

uuc/1

uuc/1

mg/1

mg/1

/FIEASE NOTE: Sample cannot be analysed until all blanks are filled in (See reverse side)

THE STATE OF UTAH DEPARTMENT OF HEALTH 45 Ft.Douglas Blvd. Salt labs City 13, Utah

DO NOT WRITE HERE Sample Received on 6/19/62 Analysis Authorized by Howard M. Hurst

MATER SAMPLE FOR CHEMICAL ANALYSIS WATER SAMPLE FOR RADIOLOGIC ANALYSIS

SAMPLE COLLECTED PROME	(check one)		.bejpalion
Markya Strom	Can (Sprin	8 🗌 Well 😨	11 01
		stem D Jud bejoelled el a	ignae dożdy
Other 🗌	(describe)	- Harata	reeding pin
EXACT DESCRIPTION OF SAME	LIM POINTS (see note	on reverse side)	Lyman media
7th Nort	h and 6th Bast	o, 14,000 mm.	
		32885 ON TO MODELLES TO Jakon	unas numb
SUPPLY CHOICD BY:	All and the same of the same o	a wally be appropriately the	
PRESENT USE OF SUPPLES	Not used	an atomican at alexander	The A Minister Day 1
PROPOSED USE OF SUPPLY:	Culinary	innicipal system.	- Parting Style
SAMPLE COLLECTED BY:R		DATE: June 1	5, 1962
REPORT RESULTS TO: 95	Logan City Health	Dept.	(A)
Address:	230 North Main St	La La La La La Cantra a	en ever. No
•	DO NOT WRITE	BELOW DOUBLE LINE	
	RESULTS OF	ANALYSIS	
Turbidity to the bearing		Iren (total) as Fe	4.35 mg/1
Conductivity 139	_ micromhos/cm	Iron in filtered sample	0.02 mg/1
pH .	7.9	Leod as Pb	6,00 mg/1
Total Dissolved Solids	235 mg/1	Magnesium as Mg	21 mg/1
Alkalinity(total) as CaCO3 _	196 mg/1	Hanganese as Mn	0.06 mg/1
Aluminum as Al	mg/1	Nitrate as NO3	· 0.57 mg/1
Arsenic as As	0.00 86/1	Phosphate as PO	1.6 mg/1
Barius as Ba	· 4 mg/1	Phenols as Phenol	mg/1
Bicarbonate as HCO3	237 mg/1	Potassium as K	1.4 mg/1
Boron as B	0.09 =e/1	Selenium as Se	mg/1
Cadmium as Cd	mg/1	Silica as SiO2	760 mg/1
Calcium as Ca	52 mg/1	Silver as Ag	-0/-
Carbonate as CO2	1.0 : 20/1	Sodium as Na	mg/1
Chloride as Cl	8 =2/1		
Chromium(hexavelent) as Cr	0.00 mg/1	Sulfate as SO4	12 mg/1
Copper as Cu		Surfactent as ABS	mg/1
Cyanide as CN	Bg/1	Zinc as Za	mg/1 .
	26/1	Suspended alpha	wc/1
Fluoride as F	0.23 24/1	Dissolved alpha	uuc/1 ·
Hardness(total) as CaCO3	214 =6/1	Suspended beta	uuc/1
Hydroxide as OH	0.01 - 20/1	Dissolved beta	uuc/l

		4.
June 18, 19	62	
June 19.	8:00 6:30	3
]
June 20,	7:00 - 5:30	
	7:00 - 5:30	
Shack to Ri		
June 22	7:00 - 5:30	Water
Hauled Casin	g From 10th North	1
June 25	8:00 = 6:30	
June 26	7:00 - 5:30	

		Y. UTAF		
CEN	TER ST	. AND C	ANYON F	w.
DRI	LLER:	GENE		
Started	Setti	ng Up R	ig	
		ing up	rig - S	pudded in.
0' 1 Te		6414		
1' 8' G	H	- 2116	- Sana	
10' 14'				
				coble
14: 20:				
25' 30'	Sand	Silte	e lav	Blue Grav
30° 35°	Stant Section			
35' 40'				
40' 45'			•	
45' to'		• 00	•	
50' 55'		•		
55° 60°	Silt	Clay		
60' 65'	•			
65' 70'	•	•		
70' 75'	•			
75' 80'		•	Ten.	
80° 85°	•	•		
85' 90' 8	Sand S	llt Pie	ces of	Wood
Methane (
one ohe		llt Was	d Can	
94' 100'				W-4
	-HALL	ATT	AAOTe2	MACEL

		Water standing 66'
June 27	7:00 - 5:30	105' - 110' Gravel Sand Cobles "
THE Z		110' - 115' " " "
		115' - 120' " " "
une 28	7:00 - 5:30	120' - 125' " " " "
une se		125' - 130' " " " "
		130' - 132' Gravel " " "
June 29	2:00 - 5:30	132' - 138' Gravel Silt Sand Fair
		138' - 140' " " "
		140' - 145' " " "
		145' - 150' " " "
July 2.	8:00 - 6:30	150' - 153 " " "
Welded crack	k in stem	153' - 157' Silt - Pea Gravel "
personal and the state of	7:00 - 5:30	157' - 161' Gravel - Silt "
74		161' - 165' Silt Brown
		165' - 170' " "
		170' - 175' " "
	The second second second	175" - 180 " "
		180' - 185' " "
July 4	7:00 - 5:30	185' - 187' " "
		187' - 190' Clay - Rine
		190'- 195' " "
		195' - 198' " " Standing Wate
July 5	7:00 - 5*30	198' - 205' Gravel Sand Silt poor 77'.
		Welded and poured on rig "
July 6	7:00 - 5830	205' - 210 Gravel - Sand - Silt "
July 9	7:30 - 6:00	210' - 215' " " Standing "
		215' - 220' " " "
July 10	7:00	2201 - 2251 9 9 9
		2251 2301 # # #
		230' - 235' " " "

July 11	7:00 - 5:30
July 12	7:00 - 5:30
July 13	7:00 - 5:30
July 16	8:00 - 6:00
July 17	7:00 - 5:30
July 18	7:00 - 5:30
July 19	7:00 - 5:30
July 20	7:00 - 5:30
July 23	7:00 - 5:30
EUR. 27	8100 - 6130
July 25	8:00 - 6:39
July 26	7:00 - 5:30
July 27	7:00 - 5:30
July 30	8:00 - 6:30
July 31	7100 - 5130
Ang. 1	7:00 - 5:30
Aug 2	7:00 - 5:30
Aug. 3	7:00 - 5:30
Aug. 6	8:00 = 6:30
Aug. 7	7:00 - 5:30

235 - 240	Gravel	- Sand	- Silt W	ater poor
240 - 245			**	
245' - 250'				*
250" - 255"	Graval	Same 5	11 11	
255' - 260'			(Standin	g " ")
260' - 265'				
265 - 270	N			"
270' - 275'				of the Vertical
275'- 280'				
280'- 285'				
285'- 290'				
290'- 293'				
293'-295'				
295'-300'			i	
300" - 302"				
302' - 305'	•			
305' - 310'				
310' - 315'				"
315' - 320'	Gravel	- Cobl	es - Sa	nd Silt
320° - 325°				
325' - 330'				
330'- 333'				
283'- 338"				Standin
338' - 342'				
342' - 347'			dealm in	,,
347' - 352'				н
352 - 357*				
3579 _3601				,,
360' - 362'	Clay Bro	own Gum	му	

362	- :	365	Clay	Pea	Gravel	4	
365		_					
370	- 3	373°	•				
373*	- 3	75'	Grave]	San	d Silt	Wat	er poor
375		100					
380*	- 3	85				*	
385"	- 3	901					Standing
3901	- 3	95'					"Water Level
395'	_ 4	00.					5
400*	- 4	05.		•	•		•
405"	_ 4	10.		9			
410	_ 4	15'	•			*	•
4150	_ 4	201				**	,
420	_ 4	25.				**	
425	_ 4	30					
430.	- 4	350					•
4350	_ 4	10°			**		
440.	- 41	150					•
4450	- 4	50.					
450 .	4	55*		*			
455°	- 46	501					"
460' .	- 46	551			•		
465° -	47	0.	•	•			-
Ran 16	; c	asir	x				
	*						
•							
	•						
•							

478 - 486

Aug. 8	7:00 - 5:30	185
Aug. 9	7:00 - 5:30	
Aug 10	7:00 - 5:30	
Aug. 13	8:00 - 6:30	Tep 16"
Aug 14	7:00 - 5:30	
Aug. 15	7:00 - 5:30	
Aug. 16	7:00 - 5:30	350
Aug 17	7:00 - 5.30	
Aug. 20	8:00 - 6:30	
Aug. 21	7:00 - 5:30	
Aug. 22	7:00 - 5:30	
Aug. 23	7:00 - 5:30	
Aug. 24	7:00 - 5:30	
Ang. 27	8:00 - 6:30	
Aug. 28		Bottom 20
ng. 29		
ing. 30		
ng. 31		
ept. 5	N. Fee	
ept 6		
ept 7		
ept. 8		
ept. 10		
ept. 11		
ent 12	September 1	

Sept. 13

Sept. 14

Sept. 17	8:15 - 6:45	485	486° - 490°	Grave	l San	d	Same Water	
G-8. 0	7100 - 5130		490' - 492'			blas	Standing Wa	- ater
Sept. 18	7:00 - 5:30		492" - 498"					- 82
Sept. 19	7:00- 5:30		498 - 502					-
Set Socket		_ 3	600° - 600°					•
Sept 20	7:00 - 5:30	Perforated	502' - 510'					
Sept. 21	7:00 - 5:30		510" - 516!					
Sept. 24	8:00 - 6:30		516" - 522					
Sept 25	7:00 - 5:30		522' - 526'				Water room	
Oct. 17	7100 2 3100		526' - 529'			Silt	N- 11-4	
Sept 26	7:00 - 5:30	. 530	529' - 537'			*	No Water	
Sept 27	7:00 - 5:30		537' - 539'					
Welded on o	pasing		539' - 541'		**			
Set Socket	- Broken Strand		656" L 650"	Band			atar tood	
Sept. 28	7:00 - 5:30		541" - 545"	Sand	Silt	Clay	-	
Cat. 75	3(0) 7 6(0)		545" - 550"				r Poor	
			550' - 555'					
	7:00 2 6:30		555' - 560'	Clay	Gumbo	it Va	ant taken	
Oct. 1	8:00 - 6:30		560" - 565"					
25	7500 - 570		565' - 570'					
Oct. 2	7:00 - 5:30		570' - 575'					
26. 26	7,000 0 4,000		575' - 580'		Sand	Silt		
			580' - 582'			" Wa	ter Level	55.
	T. Pagg 2 0.30		582" - 588"		0	Vetas	annet i	
Oct. 3	7:00 - 5:30		588' - 592'	ravel	silt	Stand	ing	
Oct. 4	7:00 - 5:30		592' - 595'	•			ter fate	
	2 1 X 10 X 10	Deliber 1	595' - 600'	•			•	
Oct. 5	7:00 - 5:30		600" - 605"					
2			605' - 610'					
Oct. 8	8:00 - 6:30		610' - 615'	•				
	AND THE PERSON AND ADMITTACE A	A STATE OF THE PARTY OF THE PAR						

		615' - 618' Gravel Silt Standing
Oct. 9 7:00 - 5:30		618' - 620' . " Cobles Silt "
Oct. 10 7:00 - 5:30		620' - 625' " " "
Oct. 11 7:00 - 5:30		625' - 630' " Silt Sand "
Mer. 320 Carling Spirite Spirite		630. 634
Oct. 12 7:00 - 5:30		634 638
Oct. 15 8:00 5:30	-	638 - 640 - Sand Caving Water
Oct. 16 7:00 - 5:30		640° - 645° " " Water good
0et. 17 7:00 - 5:30	Perforated	645° - 650°
32-1-5] 🖁	650' - 655' Silt " poor
Oct. 18 7:00 - 5:30] ~	655' - 656'
Changed drill lines		772: - 778:
Oct. 19 7:00 - 5:30		656" - 660° Sand Water Good
The second secon		660' - 662' "
Oct. 22 8:00 - 6:30		662 - 666 * Silt Water Poor
	835	666' - 671' " Water good
Oct. 23 7:00 - 5:30		671' - 675' " " Silt Water poor
Oct. 24 7:00 - 5:30	635.	675° - 680° " " " "
Oct. 25 7:00 - 5:30	Perforated	680' - 685' " "
Oct. 26 7:00 - 5:30	orfo	685' - 690' " " " "
Oct. 26	•	690' - 695' " " "
		605' 606' " " "
Oct. 29 7:00 - 5:30		696' - 700' " Water good .
Oct. 30 7:00 - 5:30		700' = 705' " "
		705' - 710' " Water fair
		710' - 714' • •
Nov. 1 7:00 - 5:30		714 - 720 " " Boulders "
Nov. 2 2:00 - 5:30		7200 - 7250
Nov. 5 8:00 - 6:30	HI-HELL	725' - 728' " " "

Nov. 6		728' - 732' Gravel Sand Silt Water poo
Nov. 7		7321 - 7351
Nov. 8		735! - 730! # -
Nov. 9		7301 7421
Nov. 12	8	
Nov. 13	i.	743° - 748° " " "
Nov. 14	Perforated	748' - 752' " "
Nov. 15		752° - 754° " Water Fair
Deg. 26	7	754° - 758° • •
Nov. 16	Perforated	758° - 760° Boulders " Poor
Nov. 19	, i	760' - 764' " " "
New 20		764 - 768
Nov. 21		768' - 772' " " "
Nov. 22		772' - 778' " " "
Nov. 23		778' - 783' " " "
Nov. 24		783' - 785' Gravel Sand Silt Standing
Nov. 25	635	788' - 792' " " "
		792' - 796' " " "
Nov. 26	33.	796' - 800' " " " "
Nov. 29		800' - 803' " " "
Nov. 30	Porrform to	803' - 807' " " "
Dec. 3		807° - 808° " " "
Dec. 4		808' - 810' " Weter and
Dec. 5		810° - 814° " Water good
10.17		
Dec. 6		8201 - 8251
lan. 21		8251 - 8201 -
Dec. 7		830' 835'
SE 21 ST ST PARTS		
Dec. 10		835' 838' Conglements
Dec. 11		838 - 840 Gravel Sand Silt
	the second second	840° 845° " " "

Dec. 12
Dec. 13
Dec. 14
Dec. 17
Dec. 18
Dec. 19
Dec. 20
Dec. 21
Dec. 26
Dec. 27
Dec. 28
Jan. 2
Jan. 3
Jan. 4.
Jan. 5
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Jan. 8
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Jan. 15
Jan. 16
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Jan. 21
Jan. 22
Jan 23 Yard Repair
Jan. 24
Jan. 25
an. 28

	845	5"	- 850)	ravel	. Sai	nd Si	lt	Standi	nø
		777	- 85							
	855	•	- 860	•	*	*		_		-
	860	•	- 865	•	•					
		-	- 870	-						
	870		875							
		-	878						-	
	-	_	- 880							
			881							-
					ırd	get			ng down	_
							The second secon		anding	_
			885				H	- 30	m m	-
			889							-
I			892				-		-	-
I	-		900			-	-			-
			905							-
T			910				-		•	-
	910'				_	_			•	-
r	915'					_			*	-
	920	-		-		*	"		â	-
	925'								•	-
	929'						<u> </u>		-	
	932'			_					•	-
	938•			-			-		•	
	243	111		•	•				<u> </u>	
	948.			*	-		•		*	
9	50'	- 5	2521	•					•	
9	521	9	55*							
0	EK1_	0	K71		22.750					

Jan. 29		957' - 960'	Gravel	Sand	Q414	04-
Jan. 30	sortano ciatoli	960' - 965'				
Jan. 31	TO SEE SEE SEE		•	•	•	•
eb. 1		965' - 970'		•		
b. 4		970' - 975'		*		*
eb.,5	Bottom	975' 2 980'	•	•	*	•
'eb. 6	16" casing	980° - 985° 985° - 990°		•	•	•
eb. 7	LE MALLELI			•		*
b. 8	epen hele	990' - 995'	•	•	•	
SUPPLY STORED FOR CONTRACT ASS.		995° - 1000	•	•	•	*
constitute to the tack the con-						
	1007					
	The Battle	1		- 12,		
The state of the s	to a permanulation					
A STATE OF THE STA	Mar Education	Lancing Street		1		
		Legg S. S. Seph.				•
	The state of the s	140.5 Feb.				*)
		Tree (total)				
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WELL TEST REPORT

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CUSTOMER_	ADDRESS LOGAN	Carr		Combractors WELL		ο ο	Casing I.D			
WELL LOCATION	WELL LOCATION LOTH NORTH	ORTH		ME	MEIT DEALH	C				11
DISCH. MAR		Ottorio Div	DW 6"	STO	STATIC LEVEL 6/ TOP CASING BOM USED	DE CASING	SOWI US	8		1
Total Pump Setting	1	200'	PERFORATED AREAS							
1	SECOND IN COMMON	o <i>na</i> .	Season Se	Impenye	# 5 p	THE COM	77.00		1	
411 22	ALL D	DAY SETTING PUMP	NE PUMP					6,"	Calleria	
HV OE:0,			109'			12 00	580	DIATY	CLAYYS	5
11:30 AM			114			1200	58.	•		5
5:30 AM			114			1300	58.	"		
1.30 E.N	53		114:			1300	580		11	1.
W. JOE:	53"	1,000	114'			1200	580	"	11	-16
:30 P.M	53%		114.			1200	500	11	u	1,
SOEN	53"		114'			1200	280		,,	11
45 PM	66		11906			1350	580	0)	"	4
SO OK	68		110'6			1350	38.	"	11	11
30 P.M	68		116:			1350	580	y .	" "	
H.40E.	66		115			1350	580	Words	15 CLEAR	6
HOURS PUMPED THIS DAY	O THIS DAY	1		REMA	REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.	SING, PLUMB OF W	EIL, EIC.	Sicr 4 54	4 SAVO	,
HOURS PUMPED TO DATE	D TO DATE	•		1						1

TESTED BY_

DATE day 23, 1963

WELL TEST REPORT

ANDREW WELL DRILLING

Idaho Falls, Idaho

CUSTOMER CETY OF LOGAN ADDRESS DISCH. PIPE 12" WELL LOCATION 10TH NO SPORATED AREAS Contractors WELL DEPTH WELL DEPTH HOTAL WELL DEPTH. WELL DEPTH STATIC LEVEL 6/ Casing I.D Casing I.D. Casing I.D. BOWN USED /9"

	OMPIG N	a.c.	7444	BANKSOWN .	88, 87A	THE STATE	TEMP
1200 114'6" 53½ 1350 1350 1350 1250 1250 1250 1350			1141 60	532	1350	1350	50° HILMY SILT FINE
1200	14.	1200 11000	114'6"	532'	1350	1350	50
1200	11.	1900	115'0"	54'	1350	1350	50° " "
1200 12'0" 52' 350 1350 1350 1200 14'0" 53' 350 13	17.	1900	110' .	50%	/350	13.50	SRO FINES
200 4'0" 53' 350 350 200 4'0" 53' 350 350 200 5'0" 54' 350 350 350 200 4'6" 53' 350 350 350 200 5'0" 54' 350 350 350	74"	1900	1/2'0"	52'	/350	1350	SBO HILKY
1200 114'0"	14.	1900	114.0"	53'	/350	1350	SO MILKY (SI
1200 15'0° 54' 350 350 350 1200 115'0° 54' 350 3	74"	1200	114'0"	53'	1350	13.50	
1200 115'0"	74.	1200	11500	54'	1350	1350	100 2000
1200 114'6"	14"	1200	115.00	54	1350	1350	SO FINE S
1200 115'0" 54' 1350 1350 115'0" 54' 1350 1350	1	1200	114.6"	532	1350	1350	SOFINE SI
1000 1150 1350 1350		1900	1150"	54'	/350	1350	28° SILT CLE
	74"		1161 11	54'	1350	1350	58.2115 MIR

AN GALSEL

HOURS PUMPED TO DATE

ORDER NO. DATE JAN 24, 1963

Idaho Falls, Idaho

USTOMERC	ar of	LOGAN		WELL WELL			Casing I.D.— Casing I.D.— Casing I.D.—	
NSCH. PIPE	12"_	ORIFICE	ORIFICE DIA 6 70 10	STA	STATIC LEVEL	6/ :	BOWL USED_	14"
otal Pu	otal Pump Setting	200	PERFORATED AREAS	4				
i	OTHER IN	9,46	PUMPUG UVIL	BEAWBOWN	800. E.P.M.	Pump E.F.A.	Tomo	Carret
9:30	74	1200 HPROX	110'	50'	1350	1350	50°	MILKY SILT
9:30	74	1200 11	114	53'	1350	1350	580	11
9: 30	74	1200 "	119	53'	1350	1350	58"	
1:30	74	1200 1	110	49'	1350	1350	580	
:30	74	1200 "	1/4	53'	1350	/350	580	
130	ABOVE SCALE		119' 6"	53'6"	1350	1350	580	" · FINE
. 30	A BOYE SCALE		114 6"	53'6"	1350	1350	58°	,
:30		CEASED	PUMPING	TO CHAN	TO CHANGE ORIFICE	GE FROM	6"70 10"	*
30		STARTED	PUMPING	ON 10"	ORIFICE	1350	5	
:30	65	1250	119' 6"	53'6"	1350	1350	58° Pur	PUT ON 10" DAIFIS
:: 30	62	1250	114'6"	53'6"	1350	/350	EDST-0.02	QUITE DIRTY WIT
. 30	62	1250	119'6"	53'6"	1350	1350	50° CLA	CLAY + SILT
OURS PUN	OURS PUMPED THIS DAY			REMA	ARKS ON SAND, C	REMARKS ON SAND, CASING, PLUMB OF WELL, ETC	C 250 5 Vall	S
OURS PUN	HOURS PUMPED TO DATE	1.		11		STAL POMPING WOITE A	NG WOITE	E A 13/7 06
TESTED BY_					Seat .	100		

WELL TEST REPORT ANDREW WELL DRILLING Contractors

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ADDRESS WELL LOCATION	CITY	LITY OF LOGAN		WEL WEL	WELL DEPTH		Casing I.D
DISCH. PIPE		ORIFK	ORIFICE DIA 10"	STA	STATIC LEVEL	61'	BOWN USED 19"
Total Pump Setting	Setting	200	PERFORATED AREAS				
1	OMPG IN	esa.	PUMPING LIVEL	MANAGORNI	BHS, 2.7-26.	PLATE CHAPE	TEHO MANAGE
7:30PH	2.9	1300	114'6"	19,85	1350	1350	58° CLAY-SILT-
8:30 P.H	7"	1300	114.6"	53164	1350	1350	. 85
9:30 EM	9"	1480	151'4"	90'4"	1500	1500	58° SALDY
10:30 CM	9"	1480	151.60	90.6"	1500	1500	580
11:30 P.H	9"	/480	151.6"	90'6"	1500	1500	58°
12:30 AM	9"	/480	148'0"	87'0"	1500	1500	58*
1:30 AM	9.	1480	147'10"	86'10"	1500	1500	560
2:30 AM	9.	1480	198'0"	87'0"	1500	1500	56.
3:30 A.H	91	1980	198'0"	87'0"	1500	1500	36°
4:30 A.N	9.	1480	147'10"	86' 10"	1500	1500	56.
5:30 A.M	9"	1480	196'10"	85'/0"	1500	1500	550
6:30 AM	9"	/480	147'5"	86'5"	1500	1500	350
HOURS PUMPED THIS DAY	THIS DAY			REMA	ARKS ON SAND, C	REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.	WELL, ETC.
HOURS PLIMPED TO DATE	TO DATE			1			

TESTED BY

HANDREW WELL DRILLING

ORDER NO.

Idaho Falls, Idaho

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DATE JAN. 25, 1963		

ADDRESS.	CITY OF LOGAN	R	MET MET MET			Casing I.D. Casing I.D. Casing I.D.	
DISCH. PIPE 12"	ORIFIC	ORIFICE DIA 10"	SI	STATIC LEVEL 6/		BOWL USED	194
Potal Pump Setting	8 200	PERFORATED AREAS					
David a		Francisco (Inches)	ISTOCRATE	B00. 2.P.M.	Pune LPA	TEMP	
7:30 AM 9	(480	147'0"	86'0"	1500	1500	560	SILT + SANGY
8: 30 A.H 9"	1480	146'6"	85'6"	1500	1500	560	
9:30 AM 9"	1480	146'6"	85'6"	1300	1500	58.	S. W. D. Y. W.
0.30 A.H 9"	1480	147	86'	1500	1500	58°	" "
1:30 A.H 9"	/480	1471	86'	1500	1500	580	
. 6 N J 02:	/180	146'	85'	1500	1500	580	
1:30 P.M 95"	1500	195"	84'	1500	1500	580	ų d
:30 P.N 9 1/4	1500	145'	84'	1500	1500	580	3, 4,
:30 P. M 94."	1530	143'	82'	1500	1500	28.	
30P.N 95"	1520		80'	1500	1500	500	h n
30 P.M 9 # "	1520	141			1644		, u
		199'	83'	1500	1300	58	

TESTED BY.

WELL TEST REPORT

ANDREW WELL DRILLING

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Idaho Falls, Idaho

DATE JAN	
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ORDER NO.

WELL LOCATION	W 105H	NOATH		*	WELL DEPTH		Casing I.D.	
Total Pum	Pump Setting	ORIFICE DIA	E DIA 10"		STATIC LEVEL	6/.	BOWL USED	14.
1	SHORE OR DURING	e.p.m.		HADDANABA	West Yes	Paul Char		
7:30 PH	95.	1520	138	77'	1500	/500	574	STARTED PUMPING
N.30 E.B	95"	1520	136	77'	15.00	1500	1	1416 + OND
N.308.16	95	15 20	138	77'	1500	1500	580	
10.30 P. H	100	1520	138	77"	1500	1500	5790	
W. 30 P.H	94	15 20	/38	77'	1500	1500	280	
12.30 AH	97	1520	/30	77	1500	1300	58.	
7.30 4.11	2/1	1520	138	77	1500	1500	58° '	
70 VA	95	1520	138 / 67	77'6"	1500	1500	56	
220 A 17	92	1520	138' 2"	77 2"	1500	1500	560 ."	
5'30 A.M	72	15:00	139'0"	78 0"	1500	1500	56. "	
C.20 A. 17	92	1520	139'0"	78'0"	1500	1300	560 "	
HOURS PUMPED THIS DAY	THIS DAY	1520	/39'2"	78'2"		1500	560 u	-
				NC/W	ACMAKING ON SAND, C	SAN CASING PLANT OF WELL STO	WEIL FTC	

WELL TEST REPORT

ANDREW WELL DRILLING

Contractors

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ORDER NO.

Idaho Falls, Idaho

	1			Communication	To the second					
DOBESS	CITY	CITY OF LOGAN	*	WEL	WELL DEPTH		Casing I.D			
VEIL LOCATION	N 10 TH	JOTH NORTH		MET WET	WELL DEPTH		Casing I.D			
SCH. PIPE	12"	ONIAC	ORIFICE DIA 10"	/IS	STATIC LEVEL 6		BOWL USED	14"	40 - 10 8 - 10 9 - 10 10 - 10	
otal Pum	otal Pump Setting	200'	PERFORATED AREAS							
1	DEPT N	a ALCO	770	BEAMPORN	Bec 20-86	Well smile	TENP			
7:30 AM	94 "	1520	/39'/"	78'/"	1500	1500	570	SAND + SILT	SILT	
8:30 AM	94 4	1520	139'	78'	1500	1500	580		7	
9:30 AM	24.4	1520	138	6771	15000	1500	580	SHOWS	V	
2:30 AM	94.	1520	138'6"	77'6"	1500	1500	58°			
1.30 AM	2 16	1520	(38'	77'	1500	1500	58'	и	4	
:30 AN	94.	1520	138	77'	1500	1500	580		2	
:30 P.H	145"	1875	/68	107'	1360	1700	58.	,,	4	
:30 PM	195"	1875	172	111	1360	1700	580		.11.	6
:30PH	192"	1875	175	112	1360	1700	58°	, W		
:30 P.M	192"	1875	175	112'.	1360	1700	580	1		
30 P. M	142 "	1875	173.6"	112'6"	1360	1700	58°	11	1	
30 P.M	195"	1875	170'6"	109'6"	1360	1700	58°	K.	n	
OURS PUMPED THIS DAY	D THIS DAY				4	2	WEIL STO			1

TESTED BY_

HOURS PUMPED TO DATE_

ORDER NO. DATE & AN 29, 1963

. Idaho Falls, Idaho

i k			11		1	TO DATE	HOURS PUMPED TO DATE
	SAND, CASING, PLUMB OF WELL, ETC.	REMARKS ON SAND, C			1	THIS DAY	HOURS PUMPED THIS DAY
56° SAND + 5147	1800	1440	122	183	1905	154	6:30 A.M
56	1700	1360	109	170	1875	192	5:30 A.M
56.	1700	1360	1.09	170	1875	142	4:30 A.H
560	1700	1360	109	170	/875	142	3:30 A.H
560	1700	1360	109	170	/875	192	2:30 A.M
560	1700	1360	108	169	1875	195"	1:30 A.H
570	1700	1360	109	170	1885	1434"	12: 30 P.M
570	1700	1360	109	170	/875	192"	11:30 P.H
580	1700	1360	109	170	1875	192"	10:30 P.M
SBO SAKOY	1700	1360	109 .	170	1885	1934	9:30 RM
58° PUMPING ITO 30 SANOT SIES	1700	1360	108	169	1875	143	8:30 PM
58° CLEARING SOME SANDY	1700	1360	108	. 169	1875	142"	7:30 PM
TEMP.	Paus COAL		NAOGAVEE	Taken	a.	DEFICIENT IN	1
			AS	PERFORATED AREAS	200'		Total Pump Setting
BOWL USED 19"	61	STATIC LEVEL	VIS	DIA 10"	ORIFICE DIA	12"	DISCH. PIPE
Casing I.D.	C	TOTAL WELL DEPTH	1017 WEIT		NORTH	N 1054	WELL LOCATION
Casing I.D.	0	WELL DEPTH	WELL				ADDRESS
Casing I.D.	C	WELL DEPTH	WELL		LOGAN	CITY OF	CUSTOMER
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TESTED BY

ANDREW WELL DRILLING

Contractors

DATE Jan 30, 1863

ORDER NO.

Idaho Falls, Idaho

CUSTOMER City of Logan WELL LOCATION 10 th North DISCH PIPE

WELL DEPTH WELL DEPTH METT DEALH TOTAL WELL DEPTH STATIC LEVEL Casing I.D. Casing I.D. Casing I.D.

PERCHATED AREAS

Total Pump Setting

		WELL, ETC.	ON SAND, CASING, PLUMB OF WELL, ETC.	RKS ON SAND, C	REMARKS			ED THIS DAY	HOURS PUMPED THIS DAY.
45	SANDY & TO 45	58° SAA	1875	1500	133	194	2040	1714	6:30 PM 171/4
:	11 11	580	1875	1500	133	194'	2060	17/2	
	N 11	580	1875	1500	133	199'	2060	17%	4:30 PM
" "	-	580	1875	1500	133'6"	194-6"	2.060	17%	3:30 PM 17 12
" "	" . "	50.	1875	1500	133'6	199-6"	2060	17/2	2:30 PM 17/2
5	2	500	1875	1500	133'6"	199-6"	2060	17/2"	1:30 pm 17/2
=	n	580	1875	1500	134'6"	195'6"	2089	18 "	
:		50.	1875	1500	/32'	/93'	2/18	18% "	11:30 AM
1 .		580	1800	1940	129'6"	190'-6"	1970	16"	10:30 AM
OME SMET	CLEARING SOME SAME	58° C	1800	1440	129'6"	190'-6"	1970	16"	9:30 AM
1		58°	1800	11440	127'6"	188'-4"	1970	16.25.11	P'AG AM
SILT	SAND+ SILT	56.	1800	1440	125'9"	186'9"	1905	15 /4"	7:30 AM
		TEMP	PARTURA		DEANGERM	7940***** 60%	esa .	STORE IN	1
1		1	1					1	

HOURS PUMPED TO DATE

HANDREW WELL DRILLING

Idaho Falls, Idaho

DATE Jan 30,-63

ORDER NO.

CUSTOMER	3 1 1/2	of hogan		Met Met	MET DEALH	222	Casing I.D Casing I.D Casing I.D		
DISCH, PAR 12	12"	ORIFICE DIA	DW 10"	NIOI	STATIC LEVEL 6	7'	BOWL USED	. 41	
Total Pump	Pump Setting	200'	PERFORATED AREAS			1	1		
1	850 S	. W/O	TANG.		W-01 W-0	Wer and	Temp	1	
7:30 PM	17"9"	2030	194'6"	/33'6"	0051	1875	58.	Light silt	- Som
8:30 pm	17"	2030	19,061	133'6"	0057	1875	580	,,	"
9:30 pm	16 74 "	2015	195	134	1500	1875	SP.	16 21. 15	:
10:30 pm	17"	2030	195'	134'	1500	1875	.85.	16 11	:-
11:30 pm	17"	2030	195	134'	1500	1875	57°	., ,,	
2:30 Am	16 34"	2015	195'	134'	1500	1875	570		:
1:30AM	16 74"	2015	194'10"	133'10"	1500	1875	56°		1.
2:30 AM	16 3/4"	2015	195'	134	1500 .	1875	560		-
3:30 AM	16 3/4"	2015	195'	134'	1500	1875	550		
4:30 AM	16 3/4"	2015	194'10"	133'10"	1500	1875	5.50		
5:30 AM	16.34"	2015	195'	134'	1500	1975	.85		
-	16 3/4"	2015	195'	134'	1500	1875	. 25		
T .	THIS DAY			REMA	REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.	SING, PLUMB OF	WELL, ETC.		
HOURS PUMPED TO DATE	TO DATE			11					

WELL MELL DRILLING TEST REPORT

ORDER NO. DATE Jan 31, 1963

Contractors WELL DEPTH

WELL DEPTH,

-Casing I.D

Casing I.D

ADDRESS

CUSTOMER

Idaho Falls, Idaho

2:30 PM 5:30PM 3:30 PM 4:30 PM 4:30 PM 10:30 AM 9:30 AM 8:30 AM Total Pump Setting DISCH. PIPE WELL LOCATION 11 24 30 PM AM PM Sarges to 16% N Date 2/18 (apport 200 2030 2000 2060 2000 2030 2060 1000 1970 2000 2060 45. ORIFICE DIA PERFORATED AREAS. 194 93 192 190 193 195 92 58 194 194' 9" 16" 131 132 133 129 33 129 134 31 132 134 133 133 MACCANT TOTAL WELL DEPTH WELL DEPTH STATIC LEVEL 1500 1500 15.00 1500 1500 1500 1500 500 1500 1500 1500 B48. 25 M 1875 1875 1875 1875 1875 Mer dans 1875 1875 1875 1875 1875 Casing I.D 83 3,20 58 (temp) B BOWL USED Bock Kight 1 Book Flust water Suck Flush 2 120 mars water 480 may 450 Mey Flush

12:30 11:30

TESTED BY

HOURS PUMPED TO DATE

REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.

1520

1900

83

Pulling Max. starter

Min necession

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MO 5%:

3:40 pm

WILL ST lotal.

Time needed

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3:15 pm

2:55 pm 64

HOURS PUMPED THIS DAY_

7.30

WELL TEST REPORT ### ST REPORT ### BID ### BID ### Contractors

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RDER NO.	DATE_
	Jan
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	1963

Idaho Falls, Idaho

200'	DECH PRE 12"	WEIL PROPERTY IN CA N-W	ADDRESS	CUSTOMER CITY of LOGAN
PERFORATED APPAR	-1	WELL DEPTH	WELL DEPTH	MIGGO IISW
. 6/				

MANUAL PROPERTY OF THE PROPERTY OF THE PARTY								
1	BEING IN	M.C.	Parameter .	NACCAVEG	W. 67 ' ' '	PLATE GRANE	7	SEALARD
2:30	17" (varying)	2030	193'	/32'	1520	1000	S. Carlo	1110 - 1
\$:00	Lost	oil pre	oressure on	Rt. m	tor	100	00	FIGHT BOWN JOHN
\$:30	9/2	1520	130'	69'	1200	15-00	3.	
9:30	9 1/2	1520	128'6"	67' 6"	1200	15-00	5700	
10:30	9 /2	1520	128 0"	67'0"	1200	1500	58°	
M:30	9/2	1520	126 0"	65'0"	1200	1500	22.	
12.30 A.M.	7/2	1520	126 4	65'4"	1200	1500	550	
1 - 30 AM	1/2	1520	126	65'	1200	1500	550	
4.30 A.M	7/1	1480	126 6	65.6	1200	1500	56	
3.30 AM	9	1480	126 00	65'	1200	1500	56°	
7.30	0	1480	126 4"	65 4	1200	1500	56'	
5:30	-	1480	126 4"	65'4"	1200	1500	560	
TOOKS TOWER IN SOAT	O ITIO DAT	1		REMARKS	KS ON SAND, CAS	ON SAND, CASING, PLUMB OF WELL, ETC.	EIL, ETC.	
HOURS PUMPED TO DATE	D TO DATE							

WELL TEST REPORT ANDREW WELL DRILLING

DATE EEB 1, 63

ADDRESS.	C/74 00	Lacan		METT C	7 7 7		Casing I.D.	
WELL LOCATIO	WELL LOCATION 10TH NORTH	YOREW.		707	TOTAL WELL DEPTH			
DISCH. FIPE	12"	ORIFICE DV	EDW	STA	STATIC LEVEL	61	BOWL USED	14"
Total Pump Setting	1	2001	PERGRATED ARE	2				
W.	acces of Dame	epan .	3]	HINDRINVIE	Bes. Dr.A.	Paus es as.	TEMP	
4.30 Ax	9"	1480	129'0 "	63'	1200	1500	(56°)	
7:30 AM	812"	1420	120'3"	59.31	11.60	1450	(560)	
9:00 AM	105	1600	121-6"	60'6"	1500	1500	58°	SAWOY
1						1		
		Section 1						
			The second second					
HOURS PUMPED THIS DAY	THIS DAY			REMA	REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.	SING, PLUMB OF	WELL, ETC.	
HOURS PUMPED TO DATE	TO DATE			11				
TESTED BY								

DATE Feb 25-63

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W. A. Carrier and Co.
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								10 DATE	HOURS PUMPED TO DATE
		WEIL, ETC.	AND, CASING, PLUMB OF WELL, ETC.	REMARKS ON SAND, CAS	REMAR		1	THIS DAY	HOURS PUMPED THIS DAY
3/40			0.50	1050	32.75	87.95	23/6	22	4.12 B
TANC			1000	1000	27	92	2030	17	Tice P
1/40			1000	1000	27	82	2030	17	8.00 -
1.			1000	1000	27.5	82.5	2030	17	7:00 P
	4	,	1000	1000	27.25	28.75	2000	110.5	5130 8
1. 1	113	Tim . Park	1000	1000	29	84.	1990	16	4:00 P
			1000	1000	29	2	1970	16	3 30 8
			1000	1000	28-5	335	1905	15	3:109
			1000	1000	29	94	1905	Ŋ	2.000
			9.00	110	21:5	76.5	1635		1.30 P
			900	700	21:75	96.75	1560	70	230 P
		60.	1000	1000	30'	85	1845	M	3,00 M.
		TEMP)	PUMP 8.7 M.	an from a	HADDRAVYE	PUMPHAG UVSL	6.7.M	OBPICE IN	144
			435-335		\$ 485-530	PERFORATED AREAS_	200'	Setting	Total Pump Setting
		55 Top of Cookingso 18"	5 70p of		SIAII	10"	ORIFICE DIA	13"	DISCH. PIPE
				DEPTH	TOTAL	0			WELL LOCATION
		Casing I.D.			WELL DEPTH	anyon Rd	1.40	Mer	ADDRESS Cent
	•	Casing I.D.LL		1000°	WELL DEPTH	OGAN	OF	CITY	CUSTOMER
					Contractors			9, 10010	- day - di
				1	8			e Idaho	Tdaho Falls Idaho

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	WELL
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	REPORT
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ORDER NO.

					STATE STATE OF THE PARTY OF THE		SOME ONCE	
otal Pum	otal Pump Setting	200	PERFORATED AREAS	-	1			
1	SECON IN CHARGO	e.a.	PUMPTONS /	HICHATE	merana.	PLATE SHAPE		
0 00'	22.50	2343	8 8.50	33.50	10 50	1050	THE GRAY SILT	2/400
300	22.80	2343	88.50	33,50	1050	1050		2/400
9 00	22.50	2343	88.50	33.50	1050	1050		2/400
300	22 80	2343	88.50	33.50	1050	1050	" "	1/400
OOA.	22.50	2343	88.50	33.50	iosa	1050	" (Temp 579) "	1/400
ISA			54.25					
a Lace	caved	W Sha	TOFF D	ma 12:1	S WAT	r THNO	16 56 25°	
Mr B	Q. 7	Butherizea	this	RETICK				4
					44			
91								
OURS PUMPED THIS DAY.	D THIS DAY			REMA	REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.	SING, PLUMB OF	WELL, ETC.	
OURS PUMPED TO DATE	D TO DATE	1		-				
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TEST REPORT

Idaho Falls, Idaho

ORDER NO.

DATE 2 16 FUS 1963

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Miso. B DOE 8.00 P HOURS PUMPED THIS DAY 2.00 A 1:00 2100 P D'01 P Total Pump Setting 1:00 M 100/ WELL LOCATION COMPON SON SON SON SON 36.5 24 24. 24 20 P مولق 2980 2850 2650 2400 2409 RIGH 3435 9.7.4 ORIFICE DIA 10 27. 80.5 26. PERFORATED AREAS 40,C 2 83.7 3.3 20 79 31.3 28.7 205 22 350 28.5 Contractors TOTAL WELL DEPTH HLESO TIEM HELT DELLH WELL DEPTH STATIC LEVEL 1350(S) 1200 1050 1200 1050 1050 20 1000 1000 1350 1350 1200 1050 1350 1050 1175 1050 aor 1000 West day

STARTED

Casing I.D Casing I.D. Casing I.D

BOWL USED 18

HOURS PUMPED TO DATE 0.0 THE GRAS SILE DIFTU " (WAREN TELD SAY) Sanda Gravel Pumping 3/400 19/40 3/400 9/400

REMARKS ON SAND, CASING, PLUMB OF WELL ETC.

TESTED BY

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DATE POL 27 63

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Idaho Falla, Id

WELL DEPTIN Casing I.D.

WELL DEPTIN Casing I.D.

FOTAL WELL DEPTIN 1000 Casing I.D.

STATIC LEVEL 55 SOWL USED 18"

Pump Setting 200 PERFORATED AREAS

WELL ST.	SUBSTITUTE OF	SMARKS ON CAUND CASING BILLIAN DE WELL STO	NSW.			STHIS DAY	HOLES PLANSO THIS DAY
7400	1500	1500	35.00	90.00	3996	69	N. 15 P
14-160	1350		26.25	26.25	3280	44.5	3:00 P
1/100	1350		36.25	21.25	3280	145	2:40 6
//000	1350		26.25	20.18	3380	. 44 S	The C
The state of the s	1350		29	F23	33116	35.5	12:00 0
1/100	1350	がはないので	27	82	3280	5. MM. 2	Ban A
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K	1350	0.0.	26.0	81.0	3068	38.5	Biana
540 SAND YWOO	1350	0.0	27.5	22.5	3068	38.5	7:00 A
5% " "	1350	OD	27.0	82.0	2980	36.5	6:00 A
57 (SmallGravel) Compe	1350	00	25'0	80.0	3964	36.0	5:00 A 36.C
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HOURS PUMPED TO DATE

TESTED BY___

HIDREW WELL TEST REPORT HIDREW WELL DRILLING

Idaho Falls, Idaho

DATE Tel. 27 - 196

WELL LOCATIO WELL DEPTH

STATIC LEVEL BOWL USED

Total Pump Setting 200

BORATED ARE

HOURS PUMPED THIS DAY	1. 00 A. 69	2:00A	12:00B 83	90	0.000	744 6 61	500 0 62	8
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WELL TEST REPORT ANDREW WELL DRILLING Combractors

Idaho Falls, Idaho

ORDER NO. DATE fel 2863

Total Pump Setting DISCH. PIPE 12" WELL LOCATION TOTAL WELL DEPTH WELL DEPTH WELL DEPTH MELL DEPTH STATIC LEVEL Casing I.D.—Casing I.D.—

PERFORATED AREAS BOWL USED

II, ETC. TRACE	IN SAND, CASING, PLUMB OF WELL, ETC.	REMARKS ON SAND, CA	REMA			TO DATE	HOURS PUMPED TO DATE
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ANDREW WELL TEST REPORT

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/800	05.57	1550	34	0.00	87.64	1/8	12:00 A
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Sale Sale	1575	1575	36.5	2.10	4390	0.08	TOPA
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Idaho Falls

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WELL LOCATION

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HOURS PUMPED THIS BAY Tare I GRAMME SECTION

remains on sand, casing, fluine of well etc.

PIEASE NOTE: Sample cannot be analysed until all blanks are filled in (See reverse side) THE STATE OF UTAH
DEPARTMENT OF HEALTH
45 Ft.Douglas Blvd.
Salt Lake City 13, Utah

WATER SAMPLE FOR CHEMICAL ANALYSIS

Sample Received on Analysis Authorized by

	WATER SAMPLE FOR	RADIOL	OGIC ANALYSIS	**	1
SAMPLE COLLECTED FROM:	(check one)				
Stream 🔲		Spring	□ Well 🖸		
City or Town	water distribut	ion sys	tem 🔲		
Other	(describe) _				_
EXACT DESCRIPTION OF SAM	PLING POINT: (se	e note	on reverse side)		
	Center St.,				1
STATE ENGINEER'S APPLICA	TION OR CLAIM NO	Comme	-Aton	0	-
SUPPLY OWNED BY:					- (
PRESENT USE OF SUPPLY:					-
PROPOSED USE OF SUPPLY:					-
SAMPLE COLLECTED BY:	Roger Stephe	ESO .	DATE: 2/1/63		_~
REPORT RESULTS TO:					
Address:			, Logan, Utch		
Address:	100				
			ELOW DOUBLE LINE ANALYSIS		
Turbidity 88			Iron (total) as Fe	4.27	mg/1
Conductivity 378	micromhos/cm		Iron in filtered sample	0,12	_ mg/1
pH	8-15		Lead as Pb	0.00	_ mg/1
Total Dissolved Solids		mg/l	Magnesium as Mg	0.00	_ mg/1
Alkalinity(total) as CaCO3		mg/l	Manganese as Mn	1.2	_ mg/1
Aluminum as Al	0.00	mg/l	Nitrate as NO3	17.6	_ mg/1
Arsenic as As		mg/l	Phosphate as PO	-100	_ mg/1
Barium as Ba		mg/l	Phenols as Phenol	105	mg/1
Bicarbonate as HCO3	A 60	mg/l	Potassium as K		mg/1
Boron as B		mg/l	Selenium as Se	9.0	_ mg/1
Cadmium as Cd	42	mg/l	Silica as SiO ₂		_ mg/1
Calcium as Ca	1.5	mg/l	Silver as Ag	7.0	_ mg/1
Carbonate as CO3		mg/1	Sodium as Na		_ mg/1
Chloride as Cl	0-03	mg/l	Sulfate as SO4	9,0	mg/1
Chromium(hexavalent) as Cr	0.00	mg/1	Surfactant as ABS	0.00	_ mg/1
Copper as Cu	- 0000	mg/l	Zinc as Zn	06.0	_ mg/1
Cyanide as CN		mg/l	Suspended alpha		_ uuc/1
Fluoride as F		mg/l	Dissolved alpha _		_ uuc/1
Hardness(total) as CaCO3		mg/l	Suspended beta		_ uuc/1
Hydroxide as OH	0-02	mg/1	Dissolved beta		_uuc/1

DATE & CONTRACTOR LYG 3

Idaho Falls, Idaho

10:30 40	i	Total Pun	DISCH. PIPE 12"	WELL LOCATI	ADDRESS	CUSTOMER
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40 45	0.0.A	200	ORIFIC	WELL LOCATION CONYON + CHO COTT		CUSTOMER CITY OF LO SAN
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10:30 am 75 Nova 115:35 12:35 1600	NAGGANYNG	EAS	S	 	*	<u> </u>
1600	BBG, 8-27-36.		STATIC LEVEL 103	TOTAL WELL DEPTH	WELL DEPTH	WELL DEPTH
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Stat			BOWL USED 18"	Casing I.D_	Casing I.D.	Casing I D
STATTER Pumpin	Darres		18"			

						D TO DATE	HOURS PUMPED TO DATE
WELL, ETC.	ON SAND, CASING, PLUMB OF WELL, ETC.	IRKS ON SAND, CA	REMARKS			THIS DAY	HOURS PUMPED THIS DAY.
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	155 0	1350	10.	1115	4070	69	11:3087
STATTER Pune	1600	1600	13.75	115.75	N3 45	7.5	10:3000
Service	PUMP E.P.M.	800, 1.P.M.	EL INGON	Puneres Live	e.a.	MORS N	Ī

Idaho Falls, Idaho

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HOURS PUMPED TO DATE	HOURS PUMPED THIS DAY.						73 60	1	1		Total Pump Setting 100	DISCH. PIPE 12"	WELL LOCATION & MINY A MY	ADDRESS C. TY
DATE	DAY						3664	١,٠	109.	NORS	tting _		MEXMI	al togan
. 1						· · · · · · · · · · · · · · · · · · ·	380 8718 5800	4713	5105	8.	00'	ORIFICE DIA	aroce TI	e gang
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	REMARKS ON SAND, C							1850	2000	Base Stran			MET DEALH	WELL DEPTH
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DATE 11/13/65

ORDER NO.

HADREM WELL TEST REPORT

WELL DEPTH WELL DEPTH WELL DEPTH WELL DEPTH WELL DEPTH TOTAL WELL DEPTH TO	2	ELC.	SAND, CASING, PLUMB OF WELL	S ON	REMARK			ED THIS DAY	HOURS PUMPED THIS DAY
WELL DEPTH ALSO Casing I.D. AND WELL DEPTH ALSO Casing I.D. WELL DEPTH ALS	62	" "	900	900	24.4	82.0			200
Contractors WELL DEPTH JO Casing I.D. JO WELL DEPTH JO Casing I.D. WELL DEPTH JO Casing I.D. JO WELL DEPTH JO Casing I.D. WELL DEPTH ROUNTED AREAS 1/0/Z 500 PERFORATED AREAS 1/0/Z 500 POOD 1/1 PROPERTY DAMPOOWN			900	900	25 4	83.0			200
Contractors WELL DEPTH ALAO Casing I.D. ALA WELL DEPTH ALAO Casing I.D. ALA WELL DEPTH ALAO Casing I.D. ALA STATIC LEVEL AT ALA BOWN USED AT ALA		" "	900	900	27.0	84.6			
Contractors Well DEFTH 130 Casing I.D. 15 Well DEFTH 360 Casing I.D. 16 Well DEFTH 360 Casing I.D. 17 Well DEFTH 600 Casing I.D. 17 Well DEFTH 600 Casing I.D. 17 TOTAL WELL DEFTH 600 USED 17 PERFORATED AREA 110 7 500 Good 124 PRODUCT IN 1000 124 PRODUC			900	900	25.4	84.0			
WELL DEPTH JAO Casing I.D. WELL DEPTH Casing I.D. WELL DEPTH Casing I.D. TOTAL WELL DEPTH Casing I.D. STATIC LEVEL JZ'' BOWL USED. SOUTH CONTROL OF THE PROPERTY OF THE PARTY OF		4 4	900	900	25.4	83.0			07 00
WEIL DEPTH 4.30 Casing I.D. 4.50 WEIL DEPTH 3.20 Casing I.D. 4.50 STATIC LEVEL 3.7.6.7.7 DOWN USED 3.24 Setting 3.10 Perforated areas 410.25.50 Perforated by Areas 410.25.5		11 11	900	900	15.0	83.6			
Contractors WELL DEPTH 120 Casing I.D. 120 WELL DEPTH 280 Casing I.D. 120 ORIFICE DIA 10 STATIC LEVEL 37 1 8000 USED 122 Setting 1.D. 120 PERFORATED AREAS 110 2 50 PROPERTY BOWN USED 122 SOUTH 100 100 100 100 100 100 100 100 100 10			900	900	25.0	82.6			1
Contractors WELL DEPTH JAO Casing I.D. Jo WELL DEPTH JAO Casing I.D. WELL DEPTH JAO Casing I.D. WELL DEPTH JAO Casing I.D. Casing I.D. TOTAL WELL DEPTH STATIC LEVEL JA' STATIC LEVEL JA' STATIC LEVEL JA' SOMI USED JA PERFORATED AREAS, 4/0 7 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9			900	900	25.4	83'9			
Contractors WELL DEPTH 330 Casing I.D. 310 WELL DEPTH 360 Casing I.D. 400 WELL DEPTH 1600 Casing I.D. 400 WELL DEPTH 1707AL WELL DEPTH Casing I.D. 400 ORIFICE DIA 10 STATIC LEVEL 37.2" BOWN USED 320 Setting 310 PERFORATED AREAS 410 7.5 900 100 PROPERS 110 ANNOONN 100 EVA. Pure 25.0. 100 PROPERS 110 ANNOONN 100 EVA. PURE 25.0 E	-	4	900	500	27 %	85'0			- 40
Contractors WELL DEPTH 130 Casing I.D. WELL DEPTH 380 Casing I.D. WELL DEPTH 380 Casing I.D. WELL DEPTH 800 TOTAL WELL DEPTH 800 STATIC LEVEL 372 BOWN USED 330 Setting 310 PERFORATED AREAS 410 2 300 PERFORATED AREAS 410 2 300 STATIC LEVEL 372 BOWN USED 330 BOWN USED			900	900	22.0	-			00
Contractors WELL DEPTH 430 Casing I.D. 40 Casing I	0	1	850	850	15.4	73'0			
Contractors WELL DEPTH JAO Casing I.D. JO WELL DEPTH JAO Casing I.D. WELL DEPTH Graing I.D. WELL DEPTH Casing I.D. Casing I.D. WELL DEPTH Casing I.D. STATIC LEVEL J. WELL DEPTH BOWN USED J. WELL DE	HX	very line	900	900	ع دو	80'0			
Contractors WELL DEPTH 3.0 Casing I.D. 3.0 WELL DEPTH 3.0 Casing I.D. 4.1 WELL DEPTH 3.0 Casing I.D. 4.1 Casing I.D. 4.1 ORIFICE DIA 10 STATIC LEVEL 3.7 '" BOWN USED 3.1 Setting 3.10 Perforated areas 410 3.500 (a.3.4.1a)		REMARKS	PUMP E.P.M.	888. EV.M.	BRAWDOWN	TAAT	w.e.	ORIFICE IN	17.00
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Constructors WELL DEPTH JAO Casing I.D. WELL DEPTH Gasing I.D. WELL DEPTH Casing I.D. TOTAL WELL DEPTH CASING I.D.	1			TIC LEVEL .	STA	E DIA 10	ORIFIC	13"	DISCH. PIPE
Contractors WELL DEPTH 136 Casing I.D. WELL DEPTH Casing I.D. WELL DEPTH Casing I.D.		I IKED 3 Zace		L WELL DEPTH	VIOI		10	10	WELL LOCATIO
Contractors WELL DEPTH 320 Casing I.D. WELL DEPTH 320 Casing I.D.		I.D	1	DEPTH	WELL			1	ADDRESS
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CROCK	WHILL UKILLIII		#	
ORDER NO	00000			
DATE 11-14-63	EPORT	TEST REPORT	WELL 1	

Idaho Falls, Idaho

07:00 09:00 07:30 00:00 10.60 16:00 11:00 Total Pump Setting DISCH. PIPE 12" WELL LOCATION CUSTOMER ADDRESS_ HOURS PUMPED THIS DAY_____ SX. 2.5 ORIFICE IN 210 O X KOKT 1100 1150 67.3 ORIFICE DIA PERFORATED AREAS 480. 500 186 2 16 99.6 100 101 109 101 100.6 104.6 PARTING 420 18.0 43. 23.0 4.0 11.0 13.5 DRAWDOWN 130 47.0 Contractors REMARKS ON SAND, CASING, PLUMB OF WELL, ETC. WELL DEPTH. WELL DEPTH WELL DEPTH TOTAL WELL DEPTH_ STATIC LEVEL 1050 1000 1000 1000 1000 1000 1000 1000 BNG. R.F.M 1000 900 57.6 800' 1000 1000 1000 5do-560 600-620 680-790 1050 1000 PUMP E.P.M. 000 1000 1000 1000 900 Casing I.D Casing I.D. Casing I.D BOWL USED 3 VERK DION : : RMARKS " : :

TESTED BY G.A. & D.A.

DATE LY May, 1963

ORDER NO.

OF Fails, Idaho WELLOGAN CITY WELLOGAN CITY WELLOFPH TAC Casing WELLOPPH TAC Casing	ELL, ETC	SAND, CASING, PLUMB OF WELL	REMARKS ON SAND, CA	49. 5 Sew	107.0	1400		HOURS PUMPED THIS DAY
Contractors Contractors Contractors Contractors Casing I.D. C	"	1050		46.4	1	1301	2,1	200
Contractors WELL DEPTH #1.0. Casing I.D	"	1050	1050	h. 11.	102	2	3:	4.00
Contractors	L	1050	1050	46.4	- 1	130	112	03.00
Contractors	1 2 11	1050		46.4	1	N	""	02.00
Contractors WELL DEPTH 420 Casing I.D. 400 MELL DEPTH 520 BOWL USED 48 STATIC LEVEL 52 STATIC LEV	11 11	1050	1050	46.94	5	1400	11/1	1.00
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WELL TEST REPORT

DATE 11/16/63

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Contractors

WELL DEPTH 380 Casing I.D. 36

WELL DEPTH 380 Casing I.D. 16

ADDRESSL

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WELL LOCATION

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ORIFICE DIA

Idaho Falls, Idaho

STATIC LEVEL 57. 6 BOWL USED 3 . 18

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Idaho Falls, Idaho

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ORDER NO.

Idaho Fails, Idaho

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HOURS PUMPED TO DATE 181/2

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ORDER NO.

Idaho Falls, Idaho

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Idaho Falls, Idaho

Contractors

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HOURS PUMPED TO DATE

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ANDREW WELL DRILLING

Idaho Fallo, Idaho

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TEST REPORT

DATE 2011 2 9, 1263

WELL DRILLING

Contractors ORDER NO

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ADDRESS.

CUSTOMER

Idaho Falls, Idaho

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HOURS PUMPED TO DATE 1265

TESTED BY

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ORDER NO.

WELL TEST REPORT

CUSTOMER LEGAL CITY WELL DEPTH CASING I.D. WELL DEPTH CASING I.D. DISCH. PIPE 12 DISCH. PIPE 13 DISCH. PIPE 14 CASING I.D. WELL DEPTH CASING I.D. CASING I.D. WELL DEPTH CASING I.D. STATIC LEVEL ST. L. STATIC LEVEL ST. L. DOMN USED 18: DAMBOURN DAMBOURN
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HOURS PUMPED TO DATE 138 1

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Contractors

Idaho Falls, Idaho

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ORDER NO

WELL LOCATION	ON THE			WEL	WELL DEPTH	Q	Casing I.D		
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ANDREW WELL TEST REPORT

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Idaho Falls, Idaho

WELL LOCATION

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consen	925	925	63	121	1050	4.5	0800
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TESTED BY

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HIDREW WELL TEST REPORT ANDREW WELL DRILLING Contractors

ORDER NO_ DATE 27 DEG. 63

Idaho Falls, Idaho

WELL DEPTH WELL DEPTH.

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HOURS PUMPED TO DATE

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DATE 26 DEC 19/1

ORDER NO

Contractors

Idaho Falls, Idaho

CUSTOMER LAGAN CITY WELL LOCATION 12 TH MISKIN ADORESS 10 TH MA STH

> WELL DEPTH METT DEPLH Casing I.D.

TOTAL WELL DEPTH

STATIC LEVEL

WELL DEPTH

58 BOWL USED 30

Casing I.D

Total Pump Setting PERFORATED AREA

DISCH. MAR

ORIFICE DIA

HOURS PUMPED THIS DAY_

HOURS PHANDED TO DATE 13

LESTED BY.

REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.

Idaho Falls, Idaho

WELL TEST REPORT

DATE 47 DIC'S

ORDER NO.

CASING, PLUMB OF WELL, ETC.		Control of the Contro				
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925 5 1/100	925	60	118	1050	4.5	0900
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WELL TEST REPORT ANDREW WELL DRILLING Constructors

DATE 27 DEG. 63

ORDER NO.

Idaho Falls, Idaho

WELL LOCATION 10 % NISTA TOTAL WELL DEPT WELL DEPTH_ WELL DEPTH_ Casing I.D.

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HOURS PUMPED THIS DAY

REMARKS ON SAND, CASING, PLUMB OF WELL, ETC.

HOURS PUMPED TO DATE

G. D. CARLYLE THOMPSON, M.D. DIRECTOR OF PUBLIC HEALTH



STATE BOARD OF HEALTH
WATER POLLUTION CONTROL BOARD
HOSPITAL ADVISORY COUNCIL,
NURSING HOME ADVISORY COUNCIL
MENTAL HEALTH ADVISORY COUNCIL

UTAH DEPARTMENT OF HEALTH

45 FORT DOUGLAS BLVD.

SALT LAKE CITY 13. UTAH

April 12, 1963

Homoreble Mayor and City Countesion Logan Utah

Sontlemen:

Enclosed is a copy of test report #63-144, covering results of chemical analysis of a water sample submitted from the Logan City well located at 2nd East & Center Street. The State Engineer's application number is 32884.

With the exception of total iron, the analysis does not indicate the presence of any dissolved minerals in quantities exceeding limits established by the U. S. Public Health Service for drinking mater supplies.

Since this is a new well it is passible that the excessive total iron contained in the water suple was a direct result of the well drilling operation. We therefore suggest that another one-gallon sample be submitted after the well has been pumped for a considerable period of time (at least 24 hours continuous pumping) so that a re-check of total iron can be made.

If you have any questions concerning this report ploase ist

Yesy truly years,

UTAH STATE REPARTMENT OF MEALTH

Lynn M. Thatcher, Director Division of Sanitation

CKS:cc Enclosure

ce: Logan City Health Dept. State Engineer

PIEASE NOTE: Sample cannot te analysed until all blanks are filled in (See reverse side)

THE STATE OF UTAH DEPARTMENT OF HEALTH 45 Ft.Douglas Blvd. Salt Lake City 13, Utah DO NOT WRITE HERE /63 Analysis Authorized by formed to threat

	WATER SAMPLE FOR CHEMIC WATER SAMPLE FOR RADIOI		
SAMPLE COLLECTED FROM:	(check one)		
Stream 🔲	Spring	Well 🖺	
City or Town	water distribution sys	stem	
Other 🗆	(describe)		
	Laborator Company of	on reverse side)	
And Rest	k Center St., Logen,	That	
STATE ENGINEER'S APPLICA	TION OR CLAIM NO	39104	
SUPPLY OWNED BY:	Lagan Othy Corpor	Allen	
PRESENT USE OF SUPPLY:			
PROPOSED USE OF SUPPLY:			
SAMPLE COLLECTED BY:		DATE: 2/1/63	
REPORT RESULTS TO:	Regar Stephens	The state of the s	
Address:	240 North Hain St.	, legen, theh	
	DO NOT WRITE B	ELOW DOUBLE LINE	
	RESULTS OF	ANALYSIS	
Turbidity		Iron (total) as Pe	bo27 mg/1
Conductivity 375	micromhos/cm	Iron in filtered sample	0e12 mg/1
pH Total Dissolved Solids		lead as Pb	
Alkalinity(total) as CaCO3	165 mg/1	Magnesium as Mg Manganese as Mn	0.00
Aluminum as Al	mg/1	Nitrate as NO ₃	1.02 mg/1
Arsenic as As	0.00 ng/1	Phosphate as PO	17.6 mg/1
Barium as Ba	mg/l	Phenols as Phenol	mg/1
Bicarbonate as HCO3	197 mg/1	Potassium as K	165 mg/1
Boron as B	0.00 mg/1	Selenium as Se	mg/1
Cadmium as Cd	mg/1	Silica as SiO2	9.0 mg/1
Calcium as Ca	42 mg/1	Silver as Ag	mg/l
Carbonate as CO3	1.5 mg/1	Sodium as Na	7-0 mg/1
Chloride as Cl	mg/1	Sulfate as SO	9,0 mg/1
Chromium(hexavalent) as Cr	0.00 mg/1	Surfactant as ABS	mg/1
Copper as Cu	0.00 mg/1	Zinc as Zn	0,000 mg/1
Cyanide as CN	mg/1	Suspended alpha	uuc/1
Fluoride as F	ng/1	Dissolved alpha	uuc/1
Hardness(total) as CaCO3	191 mg/1	Suspended beta	uuc/1
Hydroxide as OH	0-03 mg/1	Dissolved beta	uuc/l

G. D. CARLYLE THOMPOON, M.B.



STATE BOARD OF HEALTH
WATER POLLUTION CONTROL BOARD
HOSPITAL ADVISORY COUNCIL
NURSING HOME ADVISORY COUNCIL
MENTAL HEALTH ADVISORY COUNCIL

UTAN DEPARTMENT OF HEALTH

45 FORT DOUGLAS BLVD. SALT LAKE CITY 13, UTAH

May 20, 1963

Honorable Mayor and City Combosion Logan Utah

Contleman

Enclosed is a copy of our laboratory report #63-208, covering results of chemical analysis of a vater sample submitted from Legan Gity's new Greekett Avenue and Canyon Road wall (State Engineeric application #32863).

With the ememption of total iron, the analysis does not indicate the presence of any discolved minerals in quantities exceeding limits established by the U. S. Public Health Service for drinking water supplies.

Since this is a new well, it is suggested that a re-check on total from he made. This should be done by collecting and submitting another one-gallon sample after the well has been pumped continuously for a period of at least 24 hourse

> Very totaly yours, UZAN STAIR REPARTMENT OF REALTH

Lyun K. Thatcher, Director Division of Sentiation

CES 100

oos logan Gity Boolth Burt.

PLEASE NOTE: Sample cannot be analysed until all blanks are filled in (See reverse side)

THE STATE OF UTAH
DEPARTMENT OF HEALTH
45 Pt.Douglas Blvd.
Salt Lake City 13, Utah

DO NOT WRITE HERE
Sample Received on 3/20/63
Analysis Authorized by
Howard M. Harat

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STATE ENGINEER'S APPLICATI	ON OR CLAIM NO. 334	0		-
SUPPLY OWNED BY:	asm filty			_
PRESENT USE OF SUPPLY:	Being developed			
PROPOSED USE OF SUPPLY:				
		DATE: 3/14/43		
REPORT RESULTS TO:	married from the first state of the			
Address:	locus City Houlth	Destro Locato Diek		-
and the same of th	DO NOT WRITE B	ELOW DOUBLE LINE		
	RESULTS OF			
Turbidity 15			0.87	
Conductivity 372	ML6Pdanes/dm	44 Pa	0.05	
Total Dissolved Solids	234 ==/1	Magnesium as Mg	21	
	186 mg/1	Manganese as Mn	0.05	
Aluminum as Al	mg/1	Nitrate as NO ₂	0.0	
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Barium as Ba	mg/1	Phenols as Phenol	ACTOR SECTION	mg/1
Bicarbonate as HCO3	208 mc/1	Potassium as K	0.2	mg/1
Boron as B	0.01 mg/1	Selenium as Se		mg/1
Cadmium as Cd	mg/1	Silice as SiO2	7.3	mg/1
Calcium as Ca	M =6/1	Silver as Ag		mg/1
Carbonate as CO3	3-8 mg/1	Sodium as Na	6.5	mg/1
Chloride as Cl	10 =4/1	Sulfate as SO,	14	mg/1
Chromium(hexavalent) as Cr	mg/1	Surfactant as ABS		mg/1
Copper as Cu	0.00 mc/1	Zinc as Zn	0.00	mg/1
Cyanide as CN	mg/1	Suspended alpha		uuc/1
Fluoride as F	0.30 =c/1	Dissolved alpha		uuc/1
Hardness(total) as CaCO3	200 mg/1	Suspended beta		uuc/1
Hydroxide as OH	0.05 mg/1	Dissolved beta		uuc/1

SUMMARY OF PROCEDURE USED IN GROUTING JOINT IN WELL AT 700 NORTH 600 EAST, LOGAN, UTAH

THESE NOTES DESCRIBE BRIEFLY THE PROCEDURE USED IN GROUTING THE JOINT BETWEEN THE 16-INCH AND THE 20-INCH WELL CASING BY RUSSELL BROWN IN THE PERIOD FROM MAY 14 TO MAY 21, 1962.

A 13-INCH DIAMETER CONCRETE PLUG AS SHOWN ON FIGURE 1 WAS CAST ON A DOUBLE STRAND OF 1-INCH ROPE 15 FEET LONG. THIS ROPE WAS PLACED ON THE HOOK ON A 3/8-INCH CABLE AND TIED WITH A PIECE OF 1/8-INCH NYLON LINE EXTENDING TO THE SURFACE. THIS WAS DONE IN SUCH A MANNER THAT IT INSURED ACCIDENTAL UNHOOKING OF THE ROPE FROM THE CABLE AND YET WOULD PROVIDE FOR EASY RELEASE OF THE ROPE WHEN REQUIRED.

THIS PLUG WAS LOWERED DOWN THE WELL UNTIL THE TOP OF THE PLUG WAS 235.75

FEET BELOW THE TOP OF THE 20-INCH CASING. ONE FIVE-GALLON BUCKET OF 2-INCH DIA
METER ROCK WAS PLACED ON TOP OF THE PLUG USING A SACK AND TWO LINES. TWO BUCKETS

OF 1-1/2-INCH TO 3/8-INCH GRAVEL AND TWO BUCKETS OF SAND WERE PLACED BY THE SAME

METHOD. MEASUREMENTS PLACED THE TOP OF THIS GRAVEL AT 233.75 FEET FROM THE TOP

OF THE CASING.

FIVE 5-GALLON BUCKETS OF GROUT, CONSISTING OF 2 PARTS MINUS 1/8 INCH SAND
TO ONE PART CEMENT, WERE POURED DOWN DRILL RODS HAVING A 1-INCH DIAMETER HOLE AND
ENDING JUST ABOVE THE SAND.

Five buckets of grout = 3.65 cubic feet or 2.8 feet of grout in the 16-inch casing. This grout was allowed to set for 24 hours.

THURSDAY MORNING, MAY 17, THE JOINT BETWEEN THE 16-INCH AND 20-INCH WAS SOUNDED AT 228 FEET FROM THE TOP OF THE CASING AND THE GROUT PLUG WAS AT 231

FEET. THESE MEASUREMENTS INDICATED A GROUT PLUG OF 2.75 FEET COMPARED TO THE 2.8 FEET DETERMINED FROM VOLUME RELATIONS, THUS IT WAS CONCLUDED THAT THE PLUG WAS BELOW ANY JOINT OR SPLIT THAT MIGHT EXIST IN THE 16-INCH CASING. THE TOP OF THIS PLUG WAS 3 FEET BELOW THE TOP OF THE 16-INCH PIPE.

THE GROUTING OF THE JOINT PROCEEDED AS FOLLOWS:

- 1. Ten buckets of grout or 7.3 cubic feet of grout were poured down the drill rods set 6 inches above the plug and then the rods were pulled back. Four buckets of water were poured down the rods. This water is the amount required to fill the rods and insure that all the grout was out of them. A measurement of the grout level and the water level by methods described below indicated that the grout-water interface was 30 inches above the plug while the water level remained constant. Volume computations indicated 3.4 cubic feet in the 16-inch pipe and a loss of 2.9 cubic feet.
- 2. More grout was poured down the rods after they were lowered into the grout pool. When a total of 16 buckets had been placed the grout level had risen to 65 inches above the grout plug and the water level had risen 1 foot.
- 3. Three more buckets of grout were added and three buckets of water to wash out the rods. Measurements indicated that the grout level had declined to 58 inches while the water level had dropped to 6 inches above normal. Grouting was finished at 10:30.

A SUMMARY OF THE GROUT IS AS FOLLOWS:

19 BUCKETS .

13.9 CU. FT.

3 FEET IN 16-INCH PIPE = 3.9

22 INCHES IN 20-INCH PIPE = 3.7

GROUT IN PIPE

7.6 CU. FT.

Loss THROUGH JOINT

6.3 CU. FT.

FREQUENT MEASUREMENTS INDICATED THAT THE LEVEL REMAINED CONSTANT. AT :

1:00 THE CABLE WAS SLACKED OFF AND AT 2:00, WITH THE LEVEL STILL AT 50 INCHES, IT

WAS UNHOOKED FROM THE ROPE AND REMOVED.

AN ATTEMPT WAS MADE TO DRILL THE PLUG OUT ON MAY 21 WITH A 4-INCH BIT.

THE PLUG DRILLED QUITE EASILY BUT WOULD NOT SHATTER. As A RESULT A 4-INCH HOLE

WAS DRILLED IN THE PLUG. IT WAS NOT POSSIBLE TO COMPLETELY REMOVE THE PLUG FROM

THE CASING WITH THE EQUIPMENT AVAILABLE.

THE GROUT LEVEL WAS DETERMINED BY SUSPENDING A WEIGHT FROM A SPRING

BALANCE WITH A NYLON CORD. THE WEIGHT WAS A 2-QUART CAN FILLED WITH SAND AND

PIECES OF IRON TO OBTAIN THE PROPER WEIGHT VOLUME RELATION. THE RESULTING WEIGHT

AND CORD WEIGHED 15 POUNDS SUSPENDED IN AIR, 12 POUNDS SUSPENDED IN WATER, AND 7

POUNDS WHEN COMPLETELY SUBMERGED IN GROUT. WITH THIS DEVICE IT WAS POSSIBLE TO

DETERMINE THE GROUT LEVEL RATHER CLOSELY.

WATER WAS MEASURED WITH A WEIGHTED LINE BY RECORDING THE DEPTH TO THE SPLASHING SOUND AS THE WEIGHT HIT THE SURFACE.

CABLE TO SURFACE (REMOVED)

SECTION THROUGH WELL

FIGURE 1

AT TOONDETH GODELST

LOGAN - UTAH

BY Russell O. Brown

20 0 WELL CASING

The pump at well #3 turned off July 2, 1963 due to a broken shaft. The Johnson Pump Co. from Idaho Falls pulled the pump on July 23, 1963. The following conditions were found:

- 1. The first 5 feet pulled was extremly tight indicating a definite bind (air line bound).
- 2. Loose oil tube 10th section (100')
- 3. Bearing cuttings -oil- and water in section 15 (150.).
- 4. Shaft broken off 5' above pump bowls.
- 5. Top bowel casing cracked 3/4 way around and two bearings frozen tight.
- 6. Impellers worn badly.
- 7. Depth check 409.3°
- On July 25, 1963 the pump was reset under the following conditions.
- 1. All questionable shaft on bearings and tube were replaced.
- 2. Pump bowls were raised 10° (bottom of pump bowls at 215°) bottom of screen at 235°
- 3. Impellers were replaced.
- 4. 1st stage of pump bowls replaced.
- 5. New pump bowls shaft and bearings.
- 6. Pump started July 25, 1963 at 6:30 P.M.

The pump again stopped on Aug. 11, 1963, due to broken shaft.

The following conditions were found when Johnsons pulled the pump on Aug. 14, 1963:

- 1. Pump pulled extremly hard the first 5 feet (Air line bound).
- 2. The shaft was broken in 5 places, bearings and oil tube damaged.
- 3. Pump bowls: OK but shaft broken 5 above pump bowls .
- 4. Air line bound at 165' level indicated by smashed section

on air line.

- 5. A pipe "pig" 12' long with end flared to 18" lowered down the well to 229' (bottom), 20" section seemed OK.

 Decided to make a television study of the well and casing to determine cause for shaft failure.

 Television study made on Aug. 20, 1963 by R.W. "Bill" Miller of Layne &Bowler Pump Co., 2943 Vail Ave., LosAngles 22 Calif. The visual study showed the following:
- (a) Change from 20° casing to 16° casing at 230°. Visual check showed 20° casing OK.
- (b) The television picture showed a poor cut off on the top of the 16" casing. The 16" casing was not centered in the 20" but offset completely to one side, and the opposite side had been flared partially in and partially out further restricting the diameter (see attached picture.)
- (c) It was agreed by those present, Howard Johnson (Johnson Pump Co)
 Bill Miller (Layne & Bowler Pump & Television), and Ray Hugie
 (City Engineer) that this situation plus the fact there was a
 slight bend in the 20° casing has put undue side pressure on
 the pump and shaft at possibly the pump area and at the 165°
 depth which more than likely has caused the shaft to break
 at the pump bowls.
- (d) The visual check showed perforations as follows:

 311' to 323', 24 rows between 335' and 369', 6 rows between
 between 380' and 388' (these were partially plugged indicating
 little water if any from this area.

(e) The change from 16" casing to 12" casing showed a fairly good section, but just below the flared area the casing showed an approximate 2" wide split down to the sand filled area at 401.

It was our opinion that this split is where the sand is comming from to fill the lower section of the well (460° to 401° since drilling of the well).

The pump reinstalled Aug. 21, 1963 under the following conditions:

- 1. All new shaft and tube, 20° lengths to a depth of 216°4°.

 1.5° section with the pump, 10. 20° lengths, 1.5° length, pump bowls and screen 6°4°
- 2. The 20' of suction below the pump was eliminated and the screen was placed just below the pump.
- 3. The pump and column was hanging free and clear.

WELL TEST REPORT

DATE 3 Jan 1964

ORDER NO.

Idaho	
Falls,	
Idaho	

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ANDREW WELL DRILLING

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Idaho Falls, Idaho

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REMARKS ON SAND, CASING, PLUMB OF WEIL, ETC.

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HOURS PUMPED TO DATE

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ANDREW WELL TEST REPORT

ORDER NO

Idaho Falls, Idaho

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DATE 2 JAN 1964

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HOREW WELL TEST REPORT Contractors

Idaho Falls, Idaho

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HOURS PUMPED TO DATE 3515

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Idaho Falls, Idaho

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ORDER NO.

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