Water Supply Source Assessment

Step One Application

- Name of proponent: Villa Maria Inc., 19 Rue Du College, Saint Louis-de-Kent, NB, E4X
 1C2, Represented by Mr. Alain Malenfant, architect, Architects 4, Moncton, Phone
 506-857-8601.
- 2) The proposed water supply is to be used for what purpose? To provide water for a new 60 bed nursing home in Saint Louis-de-Kent.
- 3) Required water quantity (in m³/day): The potential peak water flow is 409 m³/d (4.7 L/s) or 62.5 Igpm, based on the total potential water flow to all fixtures in the facility if they were on at the same time. It is this value that was used to determine the pump size in the initial design. The average water consumption for the facility is projected to be 36 m³/d (0.42 L/s) or 5.5 Igpm by the design Engineer.

Given the facilities proposed use, as a nursing home, it should be appropriate to use the design water demand for residential homes. The resident population is 60 individuals with a projected number of staff at 16 for a total population of 76 individuals. The 16 staff would not use as much water as a resident, and the laundry service is proposed to be off site, so the design numbers should be conservative. The design water demand for private recreational or residential homes is prescribed in the NBDOE Water Supply Assessment Guideline as follows:

"The per-person requirement shall be 450 liters per day. Peak demand occurs for a period of 120 minutes each day. This is equivalent to a peak demand rate of 3.75 liters/minute (0.82 Igpm) for each person. The basic minimum pumping test rate is this rate multiplied by the "likely number of persons per well" which, for a single family residence shall be the number of bedrooms plus one."

Using the above, the peak 2 hour demand per day is 285 liters/minute (63 Igpm). This translates to a "Per Day" rate of 23.75 liters/minute (5.2 Igpm) or 34.2 m³/d based on the residential design rate. The Villa Maria project is located on a land parcel totaling about 18.6 acres. If this land area were developed as single family homes on 1 acre lots, this would provide for about 16 residences, the remaining land being used for streets, etc. If we assume 16 residences with 4 bedrooms resulting in a per home population of 5 individuals, then this hypothetical development would result in a total population of 80 individuals. The point of this is that the proposed Villa Maria development's water requirement is not that much different than if the land was developed for residential lots.

- 4) List alternate water supply sources in area (including municipal systems): There is no municipal system in Saint Louis-de-Kent. At this location the groundwater aquifer offers the safest, most economical supply.
- 5) Outline proposed work schedule: A new well was drilled on site prior to the proponents being aware that the proposed water taking was subject to EIA requirements. This well

is 107 meters (350 feet) in depth with an estimated safe yield of 655 m³/d or 100 Igpm. The well log for this well is attached to this Step 1 Application. It is proposed that the existing well on site be step tested at 40, 51 and 62.5 igpm. Following analysis of the step tests, the well would be pumped at the determined rate for 72 hours followed by recovery to 90% of the observed drawdown. It is proposed that two existing private wells adjacent to the project site be used as observation wells. Pressure transducers will be placed in the existing private wells to determine drawdown; however, it is likely that the wells will be in use at the time of the test. The pump test will be carried out as soon as possible following approval to proceed, dependent on work scheduling and weather conditions.

6) Discuss area hydrogeology as it relates to the project requirements. The surficial overburden at the site is red clay of approximately 0.0 to 21.9 meters (0 to 72 feet) in thickness. Significant accumulations of sand or gravel are not known to be present and during the site visit no indications of such materials were observed. The overburden is not used for ground water supplies in the area.

The bedrock in the area is mapped as Pennsylvanian age sedimentary rocks composed of red and grey conglomerate, sandstone, siltstone, and shale, which also forms the local bedrock aquifer. The bedrock is known to be relatively transmissive (readily conducts the flow of ground water). The bedrock units or layers tend to be lenticular (i.e. of variable lateral extent and thickness) and are thought to have formed as a result of sedimentary particles deposited from flowing water (alluvial deposition). The individual beds average less than 1 meter in thickness; however, the total bedrock unit can be several hundred meters thick. This bedrock aquifer covers a large portion of New Brunswick, stretching from the Fredericton area northeast to Shippigan and southeast to the Shediac area.

Based on common knowledge of the area, the bedrock aquifer has been successfully developed for both municipal and private residential wells by a number of individuals over the general area. The general conditions found in the aquifer are suitable for water supply development. Local well drillers with knowledge of the area confirmed the potential for water supply development. In some of the local areas, zones of the aquifer can be quite soft and prone to caving, a condition that requires careful well logging and casing or lining of those soft zones.

A search of the NBDOE well log database for records located within a 500 meter radius around the proposed development was carried out and the search yielded 14 usable well logs. A summary of the information contained in the well logs is provided in Table 1, immediately below.

 Table 1: Summary of hydrogeologic information derived from search of NBDOE well
 log database.

Well Depth	Estimated Yield	Depth to Bedrock	Casing Length
(feet)	(Igpm)	(feet)	(feet)
Average: 109.4	Average: 19.9	Average: 18.0	Average: 78.1
Median: 120	Median: 18	Median: 7.5	Median: 80
Minimum: 55	Minimum: 8	Minimum: 0	Minimum: 31
Maximum: 127	Maximum: 50	Maximum: 72	Maximum: 97

500 Meter Search Radius

As can be seen from the above information the average well in the area is approximately 109 feet deep with an estimated average yield of approximate 19.9 Igpm. As expected in any rock unit the yields are variable with a minimum yield of 8 Igpm being estimated in an 127 foot deep well. The highest estimated safe yield was 50 Igpm in a 127 foot deep well. In general, the area has relatively shallow wells with high yields for domestic wells.

A search of the NBDOE well chemistry database for locations in a 500 meter radius around the proposed development was carried out and the search yielded 12 records. The precise locations of the wells from which the ground water chemistry was obtained are not available due to right to privacy considerations for the property owners. These well chemistry analytical results are provided in Table 2, which follows. The average value of the measured result and the Canadian Drinking Water Quality Guideline (CDWQG) are included in the table for the purpose of comparison. Any parameter which exceeds the Canadian Drinking Water Quality Guideline concentration is bolded and shaded for ease of recognition in the data table.

Out of the 12 chemistry records available, four wells had an exceedence of the CDWQG for iron of 0.3 mg/L and two wells exceeded the CDWQG concentration for manganese of 0.05 mg/L. The guidelines for iron and/or manganese are based on esthetic considerations, not health. Iron and/or manganese can cause staining of plumbing fixtures and laundry. Iron and/or manganese can usually be readily removed by commercial water softeners at the hardness observed in this water or by filters. The presence of Iron and/or manganese in the groundwater from this aquifer is not uncommon and is commonly the result of natural conditions. In the Miramichi area iron and manganese in groundwater is quite common.

As can be seen in Table 2, 10 out of the 12 available water quality sample results fall slightly above the range of pH recommended in the Canadian Drinking Water Quality Guidelines. The variations observed are minimal and for practical purposes it is doubtful that these variations in pH would impact the usability of the water in a private well or water source. The pH of water is important in determining water treatment methods; however, it is not a health related water quality standard. The pH of water may be adjusted to prevent or reduce corrosion in the distribution system and this is easily accomplished using commercially available water treatment equipment.

A total of nine out of the 12 chemistry records available had elevated turbidity present in the samples. The elevated levels of turbidity may be related to the relative newness of the wells and they may not have had sufficient time, or use, to clear naturally. Most new wells clear naturally with time and use. At levels in excess of 5 NTUs turbidity may become noticeable to consumers and therefore, objectionable. The turbidity may be the result of elevated concentrations of iron and or manganese or the presence of particulate in the water. In either case, turbidity can be treated by water softeners and/or particulate filters.

The observed water chemistries are of acceptable drinking water quality and can be considered to be typical of this bedrock unit. The elevated turbidity observed in a number of the well in the sample sets may be related to the newness of the wells and the fact that they have not been pumped sufficiently to clear the water Elevated turbidity values may also impact analytical results leading to overestimates of iron and manganese concentrations. Overall, the review of the inorganic ground water chemistry provided in the NBDOE water quality database for the area did not reveal or indicate significant problems with other water quality parameters.

7) Identify any existing pollution or contamination hazards within a (minimum) 500 m radius of the proposed drill targets. If groundwater use problems (quantity or quality) have occurred in the past, then these should be identified. Historical land use that might pose a contamination hazard (i.e. tannery, industrial, disposal, etc.) should also be flagged. The site is located adjacent to several private residences which have onsite septic treatment systems. There are no reports of systematic groundwater chemistry problems related

to these septic systems. The proposed production well is located approximately 500 meters west of the Kouchibouguacis River, which is probably saline at that location.

- Identify any watercourse(s) (stream, brook, river, wetland, etc.) within 30 m of the proposed drill targets.
 There are no watercourses within 30 m of the proposed drill target.
- 9) Identify site supervisory personnel involved in the source development (municipal officials, consultants and drillers: Mr. Mike Cashin (DOT Project Manager, 506-444-4536) Mr. Doug Craig (Craig Hydrogeologic Inc., 506-659-3064) and Mr. Jacques LeBlanc, (Eastern Well Drillers, 506 532-9797).

10) Figure 1 (site plan): Please See Attached.

11) Figure 2 (land use/zoning map): Please See Attached













Sources: Corporation dinformation géographique du Nouveau-Brunswick. New-Brunswick Geographic Information Corp. Date: Janvier / January 2013

CDWQG = Canadian Drinking Water Quality Guideline

NBDOE Groundwater Chemistry Database

Parameter	ALK_T (mg/L)	Al (mg/L)	As (µg/L)	B (mg/L)	Ba (mg/L)	Br (mg/L)	COND (µSIE/cm)	Ca (mg/L)	Cd (µg/L)
	166	0.048	1.5	0.16	0.044	0.1	378	2.16	0.5
	152	0.086	1.5	0.145	0.044	0.1	410	2.18	0.5
	159	0.025	1.5	0.159	0.047	0.1	352	2.51	0.5
	138	0.025	1	0.101	0.094		314	12.7	0.1
	123	0.025	1.5	0.2	0.288	0.1	265	45.8	0.5
	169	0.099	1.5	0.088	0.036	0.289	620	2.91	0.5
	152	0.025	1	0.2	0.058		344	5.58	0.1
	166	0.025	1	0.2	0.05	0.1	379	2.13	0.1
	144	0.025	1.5	0.2	0.046	0.1	401	2.14	0.5
	162	0.178	1.5	0.166	0.054	0.135	372	2.4	0.5
	143	0.044	1.5	0.179	0.053	0.172	354	2.69	0.5
	147	0.049	1.5	0.163	0.025	0.1	363	2.43	0.5
Mean	151.8	0.055	1.4	0.163	0.070	0.1	379	7.1	0.4
CDWQG			<10	<5.0	<1.0				<5.0

Parameter	CI (mg/L)	Cr (µg/L)	Cu (µg/L)	E_coli P/A (P/A)	F (mg/L)	Fe (mg/L)	HARD (mg/L)	K (mg/L)	Mg (mg/L)
	3.46	11	10	Ab	1.01	0.134	6.56	0.85	0.28
	29.7	15	10	Ab	0.909	1.76	6.39	0.8	0.23
	4.47	10	10	Ab	0.877	0.01	7.13	0.8	0.21
	6.69	7	9	Ab	0.501	0.182	38.3	1.35	1.61
	5.14	12	10	Ab	0.1	0.527	125.9	0.716	2.8
	57.4	12	10	Ab	0.838	0.15	7.87	0.72	0.15
	6.9	20	10	Ab	0.723	0.061	16.8	1.11	0.693
	4.4	20	10	Ab	0.955	0.302	6	0.75	0.177
	9.14	13	10	Ab	0.914	0.05	6.12	0.528	0.2
	6.35	10	10	Ab	0.954	0.708	7.84	1.04	0.447
	4.13	10	10	Ab	0.843	0.105	7.85	1.08	0.273
	4.93	10	10	Ab	0.949	0.214	7	0.796	0.234
Mean	11.9	13	10		0.80	0.350	20.3	0.88	0.61
CDWQG	<250	<50	<1000		<1.5	<0.3			

CDWQG = Canadian Drinking Water Quality Guideline

NBDOE Groundwater Chemistry Database

Parameter	Mn (mg/L)	NO2 (mg/L)	NO3 (mg/L)	NOX (mg/L)	Na (mg/L)	PH (pH)	Pb (µg/L)	SO4 (mg/L)	Sb (µg/L)
	0.017	0.05	0.05	0.05	82.2	8.74	1	23.2	1
	0.12	0.05	0.05	0.05	94.9	8.87	1	21.3	1
	0.009	0.05	0.05	0.05	80.4	8.88	1	20	1
	0	0.05	0	0.05	54.8	8.53	1	13.3	1
	0.866	0.05	0	0.05	7.23	8	1.9	4.21	1
	0.012	0.05	0.05	0.05	131	8.92	1	25.4	1
	0.01	0.05	0	0.05	77.7	8.74	1	17.8	1
	0.013	0.05	0	0.05	81.2	7.62	1	27.3	1
	0.0082	0.05	0.05	0.05	80.2	8.78	1.15	24.4	1
	0.012	0.05	0.05	0.05	86.9	8.84	1	24.6	1
	0.0094	0.05	0.05	0.05	81	8.84	1	21.3	1
	0.014	0.05	0.05	0.05	85.9	8.89	1	22.9	1
Mean	0.091	0.05	0.03	0.05	78.62	8.64	1.1	20.48	1.0
CDWQG	<0.05	<10	<10	<10	<200	6.5-8.5	<10	<500	

Parameter	Se (µg/L)	TC-P/A (P/A)	TURB (NTU)	TI (µg/L)	U (µg/L)	Zn (µg/L)	TDS (mg/L)
	1.5	Ab	3.31	1	0.5	5	213
	1.5	Ab	9.66	1	0.5	5	243
	1.5	Ab	0.14	1	0.5	5	205
		Pr	1.7	1		6	
	1.5	Ab	2.5	1		15	
	1.5	Ab	4.73	1	0.6	5	320
	1	Ab	1.6	1		10	
	1	Pr	2.1	1		10	
	1.5	Pr	0.3	1		6	204
	1.5	Ab	16.6	1	0.5	31	221
	1.5	Ab	0.9	1	0.5	5	198
	1.5	Ab	1.9	1	0.5	5	207
Mean	1.4		3.8	1	0.5	9	226
CDWQG			<1.0		<20	<5000	<500

	DEPARTMENT OF ENVIRONME LABNO.			00032172
FIELD NO.				= [
		MO DAY		
TESTING VOUCHER INFORMATION SEE BACK FOR DETAILS PLEASE PRINT	MANDATORY FOR WATER TEST	PI.D. NO.	WELL I.D. NO.	
ULE DAVIN OF LANDED HEREIN SHOULD BE THE W	EELL OWNER AT TIME OF SAMPLING LAST NAME	2501340	2000000 200000000000000000000000000000	0 h
ADDRESS (MAIL RESULTS TO:)				OWNER ALLINE OF DRILLING ST NAME
CITY/TOWN/VILLAGE	PROV. POSTAL CODE	Abbress LO RALCEN		, L D D
DAYTIME PHONE		CITYTOWNVILLAGE		PROVINCE POSTAL CODE
TEL NO.	MPLE COLLECTED MPLE COLLECTED MO DAV HR MIN A	WELL LOCATION: SAME AS ABOVE WELL LOCATION: SAME AS ABOVE CIVIC NUMBER STREET NAME	OH C	
DO YOU NEED A SAMPLE FOR YOUR MC	DRTGAGE? SEE BACK FOR		T MEITE	AID FOR BY PROVINCIAL DEPT.
IF YOU WISH THE RESULTS TO BE RELE MORTGAGE INSTITUTION PLEASE INCLI FOLLOWING CONTACT INFORMATION:	ASED TO A DETAILS UDE THE	WELL ON RESERVE? WELL WELL ON RESERVE? WELL VES NO NO VES		OLD WELL I.D.
ATTENTION OF:		-		*
TEL NO.		FROM (EL) TO (ET)	COLOUR	ROCK TYPE
SIGNATURE OF WELL OWNER		Ground 10 Kno	S CL	Urren Marine (Soft
WAS THE COST OF THIS WELL FINANCED BY	NB HOUSING?	32 76		Shalf Clay
	DOMESTIC	46 52 50 52 77 3a	Nert N	Shale Can
	MONITORING	77 97 50 97 99 50	ed.	Same Stort
TYPE OF WORK COMPLETED: NEW WE		99/19 GA	6	Sind stone
OTHER:		161 342 20		Evel 1 Fm Q
METHOU: CARETON ROTARVA OTHE		242 255 Yr	C Sol	Shele (Vay
CASING INSTALLED:	6			amal port
LENGTH OF CASING ABOVE GROUND:	<u>а</u> г. <u>С</u> и. <u>Еп. 10 82</u> г.			
PVC: IN DIAM. FROM	ET TO 250 ET.			
SCREENS: TYPE: SLOT SIZE	DRIVE SHOE:			
IN DIAM. FROM	E E E			
SETBACKS: SEE BACK FOR DETAILS	SEPTIC TANK (1)			
SEPTIC TANK (2) FT. FIELD (2)	ET. FIELD (1) 😽 FT.			
	(2) (2)			
SETBACKS MEASURED (NE)	N CONSTRUCTION) AEOWNER	IF INSUFFICIENT SP	ACE PLEASE USE /	ADDITIONAL SHEETS
	: YES - RATE: igpm (approx.)		THI DEPTH TO	D BEDROCK: <u>7</u> FT. 5 55 innu AT 90 FT
AQUIFER TEST: METHOD: AIR	BAILER L PUMP COW TOP OF CASING	FRACTURE ZONES: 3 30	gpm AT 228 FT.	4 20 igpm AT305 FT.
PUMPING RATE 100 igpm DURATION:	Dow TOP OF CASING	PUMP INSTALLATION: IN		
ESTIMATED SAFE YIELD: ///	mgqi	PUMP INTAKE SETTING: (Recommended) PUMP TYPE: SUBMERSIB		DW TOP OF CASING
FROM FT. TO FT	GROUT TYPE:	OTHER		
		WELL DISINFECTED? YES	R rola	
DRILLER'S COMMENTS City Se	DRILLING COM	ANY: Eastern W	el Drik	ors hed.
	COMPLETION C	MATE: 1/3 09/0		NSE NO. 6 7
				VHITE - NB DENV
G.P.S. (OPTIONAL)				sLUE - Homeowner / Voucher /ELLOW - Homeowner
I CERTIFY THAT THE WELL HEREIN DES WITH THE WATER WELL REGULATION U	CRIBED HAS BEEN CONSTRUCTED NDER THË NEW BRUNSWICK CLE/	NIN AUCURIDANCE AN WATER ACT.	<u>a</u>	NK - Drilling Company
Signature of Driller	Signature of H	elper		keep this report with Your Important documents
- and first	1.10			

Villa Maria

500 meter radius

	Well Depth	Estimated Yield	Depth to Bedrock	Casing Length	
	(Feet)	(igpm)	(Feet)	(Feet)	
	105	10	2	00	
	105	10	3	80	
	113	12	/0	80	
	127	24	15	96	
	123	24	10	95	
	/4	24	<u> </u>	31	
	127	50	20	80	
	90	20	30		
	100	24	3	6/	
	120	12	0	94	
	127	8	18	88	
	55	24	3	35	
	125	10	72	75	
	120	15	2	97	
	128	16	0	97	
	Well	Estimated	Depth to	Casing	
	Depth	Yield	Bedrock	Length	
	(Feet)	(igpm)	(Feet)	(Feet)	
Median	120	18	7.5	80	Median
average	109.6	19.9	17.9	78.1	AVERAGI
max	128	50	72	97	max
min	.55	8	, 2	31	min
count	14	Ũ	Ũ	01	



Well Driller's Report

Date printed 2013/10/24

Well Us	e			Work Ty	pe	Drill Method	l		Work	Completed
Drinkin	g Water,	Domest	ic	New W	ell	Cable Tool			07	7/16/2002
	Casing	Informat	ion		Casing abo	ve ground 1ft 6	in	Drive	Shoe Used?	Yes
	Well Log	Casing T	уре	Diar	neter	From	End	Slott	ted?	
	695	Steel		6 inc	:h	Oft	80ft			
Aquifer Method	Test/Yi	eld Initial W Level (f	Vater 3TC)	Pumping Rate	Duration	Final Water Level (BTC)	Es Sa	timated fe Yield	Flowing Well?	Rate
Bailer 40ft (BTC - Below to		ft Below top	16 igpm 1hr a of casina)		44ft	16	3 igpm	No	0 igpm	
Well Gro	outing			Dril	ling Fluids U	sed	Disinf	ectant	Pump Ins	stalled
Т	here is no	Grout inf	ormatior	NonN	e		Bleac Qty	h (Javex) 12.0 ig	N/A Intake Setti Oft	ing (BTC)
Driller's	Log								Overall Well D	Depth
Well Log	From	End	Colou	ır	F	Rock Type		1	105ft	·
695 695	Oft 3ft	3ft 35ft	Brown Brown		T	Fopsoil Fine Sandstone		E	Bedrock Level)ft	I
695 695	05 35ft 76ft Red 05 76ft 105ft Grey				Clay Medium Sandstone					

Water Bearing Fracture Zone There is no water bearing fracture zone information.

Setbacks	5	
Well Log	Distance	Setback From
695	65ft	Septic Tank
695	75ft	Leach Field
695	100ft	Right of any Public Way Road



Date printed	2013/1	0/24						
Drilled by								
Well Use			Work	Type	Drill Method		Work	Completed
Drinking Wat	ter, Domes	tic	New	Well	Rotary (6)		06/	10/2002
Casi	ng Informa	tion		Casing abo	ove ground Oft	Di	rive Shoe Used? Y	′es
Well L	og Casing T	Гуре	D	iameter	From	End	Slotted?	
2086	Steel		5	inch	Oft	80ft		
Aquifer Test	/Yield					Fatimata	d	
	Initial \	Nater	Pumping	1	Final Water	Safe Yiel	a Id Flowing	
Method	Level (BTC)	Rate	, Duration	Level (BTC)		Well?	Rate
Air	37	′ft	12 igpm	1hr	37ft	12 igpm	n No	0 igpm
	(BTC -	Below top	of casina)			01		01
Well Grouting]		C	rilling Fluids L	Jsed	Disinfectant	t Pump Inst	alled
Thoroid		formation	N	one		N/A	N/A	
There is	s no Grout in	Tormation	1.				Intake Setting	g (BTC)
						Qty 0 ig	Oft	
Driller's Log								nth
Well Log From	n End	Colou	ır		Rock Type		113ft	pui
2086 Oft	70ft	Red			Clav		Bedrock Level	
2086 70ft	113ft	Grey			Stone			
Water Bearin	g Fracture	Zone		Setbacks				
Welllog Der		Rate			There is no 9	Setback inform	mation	
2086 113	ft	12 iapm		L]



Well Driller's Report

Date pri	inted	2013/1	0/24										
Drilled t Well Us Drinkin	oy se ig Water,	Domes	stic	Work New	t Type Well		Drill Metho Rotary	d			Work 08/	Comp /10/20(leted)5
	Casing	Informa	ation		Casing	above	ground 1ft	6in	Driv	ve Sho	e Used? `	Yes	
	Well Log	Casing	Туре	C	Diameter		From	End	Slo	otted?			
	11811	Steel		6	inch		Oft	96ft					
Aquifer Method Air	r Test/Yi	eld Initial Level 7(<i>(BTC</i>)	Water (BTC) Oft - <i>Below top</i>	Pumping Rate 24 igpm of casina)	g Durati n 1hr	on	Final Water Level (BTC 15ft	Est r Sat) 24	timated fe Yield igpm	F	Flowing Well? No	і 0	Rate igpm
Well Gr	outing				Drilling Fluid Ione	ls Use	d	Disinf Bleact	ectant)	Pump Ins N/A	talled	
1	There is no	o Grout ir	nformation					Qty	1.0 ig	,	ntake Settir Oft	ng (BTC)	
Driller's	Log									Overa	all Well De	epth	
Well Log	From	End	Colou	r		Roo	ck Type			127ft			
11811	Oft	3ft	Brown			Тор	soil			Bedro	ock Level		
11811	3ft	15ft	Brown			Fill				Oft			
11811	15ft	52π 62#	Brown				dium Sandston	e					
11811	62ft	82ft	Red			San	y Idstone						
11811	82ft	94ft	Red			Cla	V						
11811	94ft	100ft	Red			San	dstone						
11811	100ft	127ft	Grey			San	dstone						
Water B	Bearing F	racture	e Zone Rate		Setbacks Well Log	Dista	ance	Setback	From				
11811	100ft		5 igpm		11811	70ft		Septic Ta	nk				
11811	127ft		24 igpm		11811	75ft	l	each Fie	ld				
					11811	70ft	F	Right of a	ny Public	: Way R	oad		



Date pri	inted	2013/1	0/24								
Drilled b	ру										
Well Us	e			Wor	k Type		Drill Metho	d		Work	Completed
Drinkin	g Water,	Domest	ic	New	v Well		Cable Too	I		11/	01/2005
	Casing	Informa	tion		Cas	ing abo	ove ground 2ft		Driv	e Shoe Used? Y	′es
	Well Log	Casing T	уре		Diameter		From	End	d Slotted?		
	11833	Steel			6 inch		Oft	95ft			
Aquifer Method	Test/Yi	eld Initial V Level (Vater BTC)	Pumpir Rate	ig Du	iration	Final Wate Level (BTC	Es r Sa	stimated afe Yield	Flowing Well?	Rate
Bailer		70 (BTC -	ft Below top	24 igpı of casina)	n	1hr	72ft	2	4 igpm	No	0 igpm
Well Gr	outing				Drilling F	luids U	lsed	Disin	fectant	Pump Inst	alled
Т	There is no	o Grout in	formatior	ı.	None			Blead	ch (Javex) N/A Intake Settin	g (BTC)
								Qty	0 ig	Oft	
Driller's	Log									Overall Well De	oth
Well Log	From	End	Colou	ır			Rock Type			123ft	·P
11833	Oft	2ft	Brown				Topsoil			Bedrock Level	
11833	2n 10ft	48ft	Brown				riii Medium Sandstor	ne		Oft	
11833	48ft	93ft	Red				Clay				
11833	93ft	123ft	Grey				Sandstone				
Water B	Bearing F	racture	Zone		Setba	cks					
Well Loa	Depth		Rate		Well Lo	a D	listance	Sethacl	From		
11833	40ft		5 igpm		11833	<u></u>	00ft I	Right of	any Public	Way Road	
11833	123ft		24 igpm			•		J	,	• • • • • • • •	



Date pri	inted	2013/10	0/24							
Drilled b	ру									
Well Us	se			Work	Туре	Drill Method	1		Work C	ompleted
Drinkin	g Water	, Domest	tic	New	Well	Cable Tool			06/20	0/2006
	Casing	Informat	tion		Casing abo	we around 1ft 4	in	Driv	e Shoe Used? Ve	26
	Casing	morna								,5
	Well Log	Casing T	уре	D	iameter	From	End	Slo	otted?	
	12626	Steel		6	inch	Oft	31ft			
Aquifer	r Test/Yi	eld					Fe	timated		
Method		Initial V Level (I	Vater BTC)	Pumping Rate) Duration	Final Water Level (BTC)	Sa	fe Yield	Flowing Well?	Rate
Bailer		12	ft	24 iqpm	1hr	12ft	24	4 iqpm	No	0 iqpm
		(BTC -	Below top	o of casina)				51		- 51
Well Gr	outing			D	rilling Fluids U	sed	Disinf	ectant	Pump Instal	lled
Τ	There is no	o Grout int	formatio	n. N	one		Bleac	h (Javex) N/A Intake Setting	(BTC)
							Qty	0 ig	Oft	(810)
Driller's	Log								Overall Well Den	oth
Well Log	From	End	Colo	ur		Rock Type			74ft	
12626	Oft	5ft	Grey		(Clay			Bedrock Level	
12626	5ft	28ft	Grey		8	Sandstone			5ft	
12626	28ft	74ft	Grey		5	Sandstone				
vvater B	Bearing F	-racture	Zone		Setbacks					
Well Log	Depth		Rate			There is no S	Setback	<pre>< informa</pre>	ation.	
12626	60ft		5 igpm							
12626	74ft		24 iapm							



Date printed 2013/10/24	
Drilled by	
Well Use Work Type Drill Met	thod Work Completed
Drinking Water, Domestic New Well Rotary	10/07/2008
Casing Information Casing above ground 1	ft 6in Drive Shoe Used? Yes
Well Log Casing Type Diameter From	End Slotted?
17374 Steel 5 1/2 Inch Oft	80ft
Aquifer Test/Yield	Estimated
Initial Water Pumping Final Wa	ater Safe Yield Flowing
Method Level (BTC) Rate Duration Level (BT	TC) Well? Rate
Air 50ft 50 igpm 1hr 50ft	50 igpm No 0 igpm
(BTC - Below top of casina)	
Well Grouting Drilling Fluids Used	Disinfectant Pump Installed
None None	Bleach (Javex) N/A
There is no Grout Information.	Intake Setting (BTC)
	Qty 0 ig 85ft
Driller's Log	
Well Log From End Colour Rock Type	127ft
17374 Oft 20ft Bed Clav	
17374 20ft 40ft Brown Sandstone	
17374 40ft 79ft Red Clay	201t
17374 79ft 127ft Grey Sandstone	
Water Bearing Fracture Zone Setbacks	
Well Log Depth Rate There is r	no Setback information.



Date pri	inted	2013/10	/24								
Drilled b	су										
Well Us	se			Work	кТуре	Drill Met	hod		Work	Completed	
Drinkin	g Water,	Domesti	с	New	Well	Rotary			07/2	23/2013	
	Casing	Informati	on		Casing a	bove ground 2	ft	Drive S	hoe Used? Y	′es	
					There is no o	casing informat	ion.				
Aquifer	r Test/Yi	eld					Estima	ted			
Mathad		Initial W	ater	Pumping	g Duratio	Final Wa	ter Safe Yi	ield	Flowing	Poto	
Air			+ +	20 iang		20ft	20 ian		No	Cignm	
AII		(BTC - E	L Below top	20 Igp11 of casing)	1 1111	3011	20 igp)	INU	oigpin	
vvell Gr	outing			[Drilling Fluids	Used	Disinfecta	int		alled	
Г	There is no	Grout info	ormation	. ľ	NOTIE		Chlorine p	ellets	IN/A Intake Settin	n (BTC)	
							Qtv 0 i	a	Oft	g (B10)	
								5	on		
Driller's	Log							ov	erall Well De	pth	
Well Log	From	End	Colou	r		Rock Type		90f	ť	1.	
32169	Oft	5ft	Brown			Overburden		Bo	drock I ovol		
32169	5ft	30ft	Grey			Clay		De			
32169	30ft	61ft	Grey			Sandstone					
32169	61ft	90ft	Grey			Sandstone					
Water B	Bearing F	racture 2	Zone		Setbacks						
Well Log	Depth	F	Rate		Well Log	Distance	Setback Fron	n			
32169	77ft	2	20 igpm		32169	63ft	Right of any P	ublic Wa	y Road		
					32169	86ft	Center of road				



Date printed	2013/10/24						
Drilled by Well Use Drinking Wat	ter, Domestic	Work New	c Type Well	Drill Method	1	Work (01/(Completed 01/1995
Casi	ng Information		Casing abo	ve ground Oft	Di	rive Shoe Used? Y	es
			There is no cas	ing information.			
Aquifer Test Method	/Yield Initial Water Level (BTC) Oft (BTC - Below to)	Pumping Rate 0 igpm o of casina)	g Duration Ohr	Final Water Level (BTC) 0ft	Estimate Safe Yiel 0 igpm	d d Flowing Well? No	Rate 0 igpm
Well Grouting]	C	Drilling Fluids U	sed	Disinfectant	Pump Insta	alled
There is	s no Grout informatic	n.	None		N/A Qty 0 ig	N/A Intake Setting Oft	g (BTC)
Driller's Log						Overall Well De	pth
	There	is no rock l	ayer information			Oft	F
						Bedrock Level Oft	
Water Bearin	g Fracture Zone		Setbacks				
There is no v	water bearing fracture information.	e zone		There is no S	Setback inforn	nation.	



Date printe	d 2013/10/24						
Drilled by Well Use Drinking W	Vater, Domestic	Work ⁻ New V	Гуре Vell	Drill Methoo Rotary	ł	Work Co 01/01	ompleted /1999
Ca	sing Information		Casing abov	e ground Oft	Driv	ve Shoe Used? Ye	S
			There is no casi	ng information.			
Aquifer Te Method Air	est/Yield Initial Water Level (BTC) Oft (BTC - Below top)	Pumping Rate 0 igpm of casina)	Duration 1hr	Final Water Level (BTC) 0ft	Estimated Safe Yield 0 igpm	Flowing Well? No	Rate 0 igpm
Well Grouti	ing	Dr	illing Fluids Us	ed	Disinfectant	Pump Instal	ed
There	e is no Grout information	110			Qty 0 ig	Intake Setting (Oft	BTC)
Driller's Log	g					Overall Well Dept	'n
	There is	no rock lay	yer information.			Oft	
						Bedrock Level Oft	
Water Bear	ring Fracture Zone		Setbacks				
There is n	o water bearing fracture information.	zone		There is no S	Setback informa	tion.	



Date printe	d 2013/10/24						
Drilled by Well Use Drinking W	Vater, Domestic	Work New ^v	Type Well	Drill Methoo Rotary	ł	Work (01/0	Completed 01/2002
Ca	sing Information		Casing abov	ve ground Oft	Driv	ve Shoe Used? Y	es
			There is no casi	ng information.			
Aquifer Te Method Air	est/Yield Initial Water Level (BTC) 0ft <i>(BTC - Below top</i>)	Pumping Rate 0 igpm of casina)	Duration 1hr	Final Water Level (BTC) 0ft	Estimated Safe Yield 0 igpm	Flowing Well? No	Rate 0 igpm
Well Grouti	ing e is no Grout informatior	D N	rilling Fluids Us one	ed	Disinfectant Bleach (Jave>	Pump Insta () N/A Intake Setting	alled I (BTC)
					Qty 0 ig	Oft	
Driller's Loc	g There is	s no rock la	ayer information.			Overall Well De Oft	pth
						Bedrock Level Oft	
Water Bear	ring Fracture Zone		Setbacks				
There is n	o water bearing fracture information.	zone		There is no S	Setback informa	ation.	



Well Driller's Report

Date pri	nted	2013/10/	24											
Drilled b Well Us	oy e			Worł	к Туре		Dril	Method	ł			Work	Completed	
Drinkin	g Water,	Domestic	;	New WEL	Well(. L)	NEW	Cat	ole Tool	(CAB	LE TOO	DL)	07/	28/1995	
	Casing	Informatio	on		Ca	sing abo	ove grou	und 2ft		Driv	ve Sho	be Used? `	Yes	
	Well Log	Casing Typ	be	[Diameter			From End SI		otted?				
	90232100	Steel		Ę	5 1/2 Inc	h	1f	t	67ft					
Aquifer Method Bailer	Test/Yi	eld Initial Wa Level (B 30ft <i>(BTC - Be</i>	ater FC)	Pumpin Rate 18 igpn	g D	Ouration 1hr	Fina Leve	I Water I (BTC) 50ft	Esi Sat 24	timated fe Yield igpm		Flowing Well? No	Rate 0 igpm	
Well Grouting There is no Grout information.					Drilling None	Fluids U	sed		Disinf Bleacl Qty	ectant n (Jave» 0 ig	()	Pump Ins N/A Intake Settin Oft	talled ıg (BTC)	
Driller's	Log		<u> </u>								Over	all Well De	epth	
Well Log 90232100 90232100 90232100 90232100 90232100	From 0ft 3ft 28ft 55ft 75ft	End 3ft 38ft 55ft 75ft 100ft	Colou Brown Brown Brown Brown	<u>r</u>		F C F N	Rock Ty Fine San Clay Fine San Medium S	oe dstone dstone Sandstone	•		100ft Bedr Oft	t ock Level		
Water B	earing F	racture Z	one		Setba	acks								
vvell Log	Depth				The	re is no S	Setback	Informa	ation.					

90232100 75ft 10 igpm



Well Driller's Report

Date pri	inted	2013/10	/24											
Drilled I	су													
Well Us	e			Wor	k Tvpe	ė	D	rill Method	ł			Work	Completed	
Drinkin	a Water	Domesti	c	New	i Well	(NEW	R	otary (RC	ΤΔΒΥ	()		06/	12/1996	
Brinkin	g water,	Domesti	0)		00/	12/1000	
					,]	
	Casing	Informati	on		С	asing abo	ove gi	ound 1ft 6	Sin	Driv	ve Sho	e Used? \	/es	
	Well Log	Casing Ty	/pe		Diamet	ter		From	End	Sl	otted?			
	90588000	Steel			5 inch			Oft	94ft					
Aquife	r Test/Yi	eld							Га	timeted				
		Initial W	ator	Pumpin	a		Fi	nal Water	E8 90	fo Viold	F	lowina		
Method		Level (P		Rate	9	Duration	Le	evel (BTC)	Ja		•	Well?	Rate	
Δir		68f	t	15 ignr	n	1hr		60ft	11	2 ianm		No	0 iann	n
		(BTC - E	Selow top	of casina)				0011	14	gpin		NO	oʻigpii	
]					Disint			D	alla d	
well Gr	outing				Drilling	g Fluids L	Jsed		Disini	rectant			alled	
-	There is no	Grout info	ormation		None				N/A			N/A	(570)	
				-					0.	0 :		Intake Settin	g (BTC)	
									Qty	0 ig		Oft		
Driller's	Log										Over	all Well De	enth	
Well Log	From	End	Colou	r			Rock [·]	Туре			120ft		spur	
00599000	08	164	Brown				Sanda							
90588000	46ft	90ft	Red				Clav	lone			Bedro	DCK LEVEI		
90588000	90ft	108ft	Brown				Sands	tone			Oft			
90588000	108ft	120ft	Grey				Sands	tone						
			-											
Water E	Bearing F	Fracture 2	Zone		Set	oacks								
Well Loa	Depth	F	Rate				Т	here is no S	Setbacl	< informa	tion.			
90588000	26ft	F	5 ianm		L									

 90588000
 26ft
 5 igpm

 90588000
 45ft
 20 igpm



Well Driller's Report

Drilled by Well Use Work Type Drill Method Work Completed Drinking Water, Domestic New Well (NEW Rotary (ROTARY) 10/01/1997 Casing Information Casing above ground 0ft Drive Shoe Used? Yes Well Log Casing Type Diameter From End 91002600 Steel 5 inch 0ft 88ft Aquifer Test/Yield Final Water Estimated Safe Yield Method Level (BTC) Rate Duration 0ft 0 igpm Air Oft 8 igpm 0hr Oft 0 igpm No 0 igpm Well Grouting Drilling Fluids Used Disinfectant N/A N/A N/A Intake Setting (BTC) Well Log From End Colour Rock Type Overall Well Depth 127ft 91002600 0ft 18ft Red Clay Sandstone 18ft Bedrock Level 91002600 0ft 18ft Red Clay Sandstone 18ft 91002600 0ft 18ft Red Clay Sandstone 18ft	Date printed	2013/10	0/24							
Casing Information Casing above ground 0ft Drive Shoe Used? Yes Well Log Casing Type Diameter From End Slotted? 91002600 Steel 5 inch Oft 88ft Aquifer Test/Yield Initial Water Pumping Final Water Estimated Method Level (BTC) Rate Duration Level (BTC) 0 igpm No 0 igpm Air Oft 8 igpm Ohr Oft 0 igpm No 0 igpm Well Grouting Drilling Fluids Used Disinfectant Pump Installed N/A N/A There is no Grout information. None N/A N/A Intake Setting (BTC) Qty 0 ig 88ft Overall Well Depth 127ft 91002600 0ft 18ft Red Clay 91002600 47ft Stoft Red 91002600 47ft 68ft Red Clay 91002600 86ft 127ft Bedrock Level 91002600 48ft 127ft Grey Sandstone 18ft	Drilled by Well Use Drinking Wa	ater, Domest	ic	Work New ^V WELL	Type Well (NEW _)	Drill Methoo Rotary (RC	I DTARY	()	Work 10	Completed /01/1997
Well Log Casing TypeDiameterFromEndSlotted?91002600 Steel5 inch0ft88ftAquifer Test/YieldInitial WaterPumping RateFinal Water Level (BTC)Estimated Safe YieldFlowing Well?AirOft8 igpmOhrOft0 igpmNo0 igpmAirOft8 igpmOhrOft0 igpmNo0 igpm/// MarceOft8 igpmOhrOft0 igpmNo0 igpm/// MarceDisinfectantN/AN/AN/AN/AThere is no Grout information.NoneN/AN/AN/ADriller's LogQty0 ig88ftOverall Well Depth91002600 0ft18ftRedClayBedrock Level91002600 42ft47ftGreyMud18ft91002600 86ft127ftGreySandstone18ft	Casi	ing Informat	tion		Casing abo	ve ground Oft		Driv	ve Shoe Used?	Yes
Aquifer Test/Yield Estimated Final Water Estimated Flowing Method Level (BTC) Rate Duration Level (BTC) 0 igpm Well? Rate Air Oft 8 igpm Ohr Oft 0 igpm No 0 igpm /// Method Level (BTC) Bigpm Ohr Oft 0 igpm No 0 igpm // Method Distribution Drilling Fluids Used Disinfectant N/A N/A N/A // There is no Grout information. Driller's Log Qty 0 ig 88ft Overall Well Depth 91002600 0ft 18ft Red Clay Sandstone 0 18ft 91002600 42ft 47ft Grey Sandstone 18ft 18ft 91002600 86ft 127ft Grey Sandstone 18ft 18ft	Well 91002	Log Casing T 2600 Steel	уре	D 5	iameter inch	From Oft	End 88ft	Slo	otted?	
Well Grouting Drilling Fluids Used Disinfectant Pump Installed There is no Grout information. None N/A N/A Intake Setting (BTC) Qty 0 ig 88ft Driller's Log Overall Well Depth 127ft 91002600 0ft 18ft Red Clay 91002600 42ft 47ft Grey Sandstone 91002600 42ft 47ft Grey Sandstone 91002600 47ft 86ft Red Clay 91002600 47ft 86ft Red Clay 91002600 86ft 127ft Grey Sandstone	Aquifer Tes Method Air	t/Yield Initial V Level (I Of <i>(BTC</i> -	Vater BTC) t Below top c	Pumping Rate 8 igpm	Duration 0hr	Final Water Level (BTC) 0ft	Es Sa 0	timated fe Yield igpm	Flowing Well? No	Rate 0 igpm
Driller's LogOverall Well DepthWell LogFromEndColourRock Type127ft910026000ft18ftRedClayBedrock Level9100260018ft42ftGreySandstone18ft9100260042ft47ftGreyMud18ft9100260047ft86ftRedClay910026009100260086ft127ftGreySandstone18ft	Well Grouting	g is no Grout inf	formation.	D	rilling Fluids U one	sed	Disinf N/A Qty	ectant 0 ig	Pump Ins N/A Intake Settir 88ft	talled ng (BTC)
91002600 0ft18ftRedClayBedrock Level91002600 18ft42ftGreySandstone18ft91002600 42ft47ftGreyMud18ft91002600 47ft86ftRedClay18ft91002600 86ft127ftGreySandstone18ft	Driller's Log Well Log Fror	m End	Colour	,	F	Rock Type			Overall Well D 127ft	epth
	91002600 0ft 91002600 18ft 91002600 42ft 91002600 47ft 91002600 86ft	18ft 42ft 47ft 86ft 127ft	Red Grey Grey Red Grey		(5 	Clay Sandstone Mud Clay Sandstone			Bedrock Level 18ft	
Water Bearing Fracture Zone Setbacks Well Log Depth Bate	Water Bearir	ng Fracture	Zone		Setbacks	Thoro is no 9	Sothaol	(informa	tion	

91002600 127ft 8 igpm



Date printe	ed	2013/10)/24									
Drilled by Well Use Drinking V	Vater,	Domest	ic	Worł New WEI	< Type Well (NE	EW	Drill Methoo Cable Tool	(CAB	LE TOC	DL)	Work (07/	Completed 14/1998
Ca	asin <u>g</u> I	nformat	ion		Casir	ng abov	/e ground 1ft 6	in	Driv	e Shoe	Used? Y	′es
We	ell Log	Casing Ty	/pe	[Diameter		From	End	Sl	otted?		
91 ⁻	171400	Steel			5 1/2 Inch		1ft	35ft				
Aquifer Te Method Bailer	est/Yie	eld Initial W Level (E 18f <i>(BTC - E</i>	/ater 3TC) t Below top	Pumpin Rate 24 igpn	g Dur n 1	ation hr	Final Water Level (BTC) 24ft	Est Saf 24	imated e Yield igpm	FI V	owing Vell? No	Rate 0 igpm
Well Grout	ing				Drilling Fl	uids Us	sed	Disinf	ectant	Р	ump Inst	alled
Ther	re is no	Grout inf	ormation	۱ ۱	None			Bleach Qty	n (Javex 1.0 ig) N In O	I/A Itake Settinç ft	g (BTC)
Driller's Lo	g									Overal	ll Well De	oth
Well Log F	rom	End	Colou	r		R	ock Type			55ft		F
91171400 0ft 91171400 3ft 91171400 20f 91171400 30f	îtît	3ft 20ft 30ft 55ft	Brown Brown Brown Brown			Ti Fi Si M	opsoil ine Sandstone and ledium Sandstone)		Bedroo Oft	ck Level	
Water Bea	ring F Depth	racture 2	Zone Rate		Setbac	ks	There is no S	Setback	informa	tion.		
91171400 4	44ft	1	8 igpm									



Date pri	inted	2013/10	0/24											
Drilled I	by													
Well Us	se			Wor	k Typ	be	D	Drill Method	ł			Work	Comp	leted
Drinkin	ng Water,	Domest	ic	New	v We	II (NEW	F	Rotary (RC	TARY)		06/	16/20	00
				WEI	LL)									
	Casing	Informat	ion			Casing abo	ove g	round Oft		Driv	/e Sh	oe Used? Y	′es	
	Well Log	Casing T	уре		Diam	eter		From	End	SI	otted?	2		
	91692200	Steel			5 inch	1		Oft	75ft					
Aquife	r Test/Yi	eld					_		Es	timated				
Mathad	I	Initial V	Vater	Pumpir	ng	Duration		inal Water	Sat	fe Yield		Flowing		Dete
		Level (I	510)	10 igor	~	Duration		с v сі (В і О) соf+	10	lianm		No.	0	Kale
		(BTC -	n Below top	of casina)	11	1111		0011	Ĩ	igpin		NO	U	igpin
Well Gr	outina				Drilli	na Fluids I	lsed		Disinf	ectant		Pump Inst	alled	
	.,				None	ig i laide e			Bleacl	n (Javex	:)	N/A		
7	There is no	Grout inf	ormatior	۱.						,	,	Intake Setting	g (BTC)
									Qty	1.0 ig		Oft		
Driller's	Log										Ove	rall Well De	onth	
Well Log	From	End	Colou	ır			Rock	Туре			125	ft	pui	
91692200	Oft	72ft	Red				Clay a	and Gravel			Bed	rock Level		
91692200	72ft	125ft	Grey				Sands	stone			72ft			
Water E	Bearing F	racture	Zone		Se	tbacks]
Well Log	Depth		Rate				Т	here is no S	Setback	informa	ation.]
91692200	125ft		10 igpm											-



Date pri	nted	2013/10	0/24							
Drilled b	у									
Well Us	е			Work	Туре	Drill Metho	b		Work C	Completed
Drinkin	g Water,	Domest	ic	New	Well	Rotary			09/1	8/2000
	Casing	Informat	tion		Casing ab	ove ground 2ft		Driv	e Shoe Used? Ye	es
	Well Log	Casing T	ype	C	Diameter	From	End	Slo	otted?	
	91962500	Steel		6	inch	Oft	97ft			
Aquifer Method	Test/Yi	eld Initial V Level (I	Vater BTC)	Pumping Rate) Duratior	Final Water Level (BTC)	Es Sa	timated fe Yield	Flowing Well?	Rate
Air		0f <i>(BTC</i> -	, Below top	15 igpm of casina)	1hr	76ft	15	5 igpm	No	0 igpm
Well Gro	outing			C	Drilling Fluids	Used	Disinf	ectant	Pump Insta	alled
Т	here is no	Grout inf	formation	. N	lone		N/A		N/A Intake Setting	(BTC)
							Qty	0 ig	Oft	
Driller's	Log								Overall Well De	oth
Well Log	From	End	Colou	r		Rock Type			120ft	
91962500 91962500 91962500	Oft 2ft 8ft	2ft 8ft 54ft	Brown Brown Grev			Overburden Soft Sandstone Sandstone			Bedrock Level Oft	
91962500	54ft	95ft	Brown			Clay and Shale				
91962500	95ft	120ft	Grey			Sandstone				
Water B	earing F	racture	Zone		Setbacks					
Well Log	Depth		Rate			There is no	Setback	informa	tion.	
91962500 91962500	96ft 114ft		5 igpm 10 igpm							



Date pri	inted	2013/10)/24								
Drilled I	су										
Well Use			Work Type		Drill Method	Drill Method		Work Completed			
Drinking Water.		Domestic		New Well		Cable Tool	Cable Tool		06/27/2001		
	, 										
	Casing Information		Casing abov		ove ground 1ft 6	Sin	n Drive Shoe Used? Yes				
	Well Log Casing Type		Diameter		From	End Slo		otted?			
	92423000 Steel		5 1/2 Inch		Oft	97ft					
Aquife	Test/Yie	eld Initial W Level (E	/ater 3TC)	Pumping Rate	g Duration	Final Water Level (BTC)	Estir Safe	nated Yield	Flowing Well?	Rate	
Bailer		82f <i>(BTC - L</i>	t Below top	16 igpm of casina)	n 1hr	87ft	16 i	gpm	No	0 igpm	
Well Grouting					Drilling Fluids Used		Disinfectant		Pump Instal	led	
There is no Grout information.				. N	None		Bleach (Javex) N/A) N/A Intake Setting (BTC)	
							Qty	1.0 ig	110ft	,	
Driller's	Log								Overall Well Dept	th	
Well Log	From	From End Colour						128ft			
92423000 95ft 128ft None 92423000 0ft 1.2in Brown							Bedrock Level				
92423000 1.2in 3ft Brown			Fine Sandstone				on				
92423000	3ft 15ft	tt 15tt Brown Medium Sandstone									
92423000	423000 58ft 95ft Grev			Sandstone							
Water Bearing Fracture Zone					Setbacks						
Well Log Depth Rate				There is no Setback informa				tion.			
92423000	105ft		6 igpm								