Crooked River Ranch Water Lo. 38/12E/24 602 PO BOX 1388 Crooked River Ranch, OR Application G-12579 Well # 2 Permit Community Supply 6-11376 GRREWELL LOG Jeterson County Total Depth = 429 ft Completed Depth = 429ft TRANSPORM WELL NO. 2 Date Drilled ? シバスア厂 NOT TO SCALE 1'-2' TOP501L 2-4' GREY LIMESTONE . 4'-28' MEDIUM HARD BEACK ROCK --28'-33' RAVELING RED ROCK 33'-39' SOFT BLACK FOCK 39' - 18' HARDER BLACK ROCK 48'-56' SOFT RED ROCK 56'- 61' HARDER BLACK ROCK 61'- 69' BLACK ROCK, CREVICES 69'-78' HARDER BLACK ROCK 78'- 83' HARD GREY ROCK 83'- IIT' MEDIUM HARD BLACK ROCK 119'-187' GREY, SANDSTONE WITH BOULDERS 187'- 1931 SOET YELLOW ROCK-193'- 206 SOFT POROUS BLACK ROCK -206 - 224 CEMENTED GRAVEL ----224' -229 VELLOW SAND, CLAY & GRAVEL 229' - 242' MEDIUM HARD BROWN ROCK -242 - 244' SOFT RED ROCK ---244'- 262' MEDIUM HARD BROWN FOCK -262-265' SOFT YELLOW ROCK -265'- 276' FAIRLY SOFT GREY ROCK-276-,308' HARD GREY, ROCK 308'- 312' SOFT GREY ROCK --312'- 316' HARD GREY ROCK --316'- 323' SOFTER GREY ROCK 323' - 326' SOFT POROU BLACK ROCK - 326' -338" MEDIUM HAND GREY ROCK 338' - 341' HARDER GREY ROCK 341' - 347' SOFT BLACK ROCK 347' - 353' HARD BLACK ROCK __ 353'- 357' SOFT POROUS BLACK FUCK- WATER: SAFT SPEL BOOK COPPINED IT Data from water right application file Well located by U565

. 480 V

AUTO

RECEIVE

JAN 12 2015

OWRL

NO7

Deschutes Groundwater Karl L. Woznie K

RECEIVED.	TEDIUM HAND BLACK ROCK	18-K
JAN 12 2015		
OWRD		5 <u>5</u> -
119'-187' GI	REY SANDSTONE WITH BOULDERS - 2 -	0 -
and the second s	0-0-	1,
	SOFT YELLOW ROCK	The second secon
193'- 206'	SOFT POROUS BLACK ROCK - 155	135
206'- 224'	CEMENTED GRAVEL	
229' - 242' M	YELLOW SAND, CLAY & GRAVEL TI MEDIUM HARD BROWN ROCK SOFT RED ROCK	
	MEDIUM HARD BROWN FOCK	
262-265'	SOFT YELLOW ROCK	
265'- 276' /	FAIRLY SOFT GREY ROCK	200
***	HARD GREY ROCK	
308'- 312' S 312'- 316' H	SOFT GREY ROCK	
323' - 326' 50	SOFT POROUS BLACK FOCK	
338' - 341' : H	HARDER GREV BOCK	
₩ 1 7 7	HARD BLACK ROCK	
ى - 357° - 357° وسد	SOFT POROUS BLACK ROCK- WATER	
3511- 3811 65	SOFT GREY ROCK, CREVICES	
		1961 12000
381 706' 50	OFT BROWN POROUS ROCK,	707
	MEDIUM HARD GREY ROCK	
412 - 413 V	VERY HARD GREY ROCK	
0TES -		
•	EXISTING 2" CONCRETE SLAB. INSTALL 6" CONC	
• "	16" D CASING 18" TO 21" TO PROVIDE 24" FROM	
	R" & WELL VENT WITH SCREENED RETURN BEND. MENT OF NEW CONCRETE SUPPORT (2)	7 🚾
A. INSTALL A	AIR LINE TO BZO FT. LEVEL . MOUNT DEPTH GAGE (PE	DING INFT OF
5. DRILL EXI	USTING CONS. SUPPORT & SET 8- 34" x 12" STZ. DOWN	25 WITH EFFRY.

6 INSTALL S" STL. RETURN LINE FROM PRESSURE RELIEF

Application No. 6-12579

Terror No. SANITARY SURVEY REPORT OREGON HEALTH DIVISION DRINKING WATER PROGRAM COMMUNITY WATER SYSTEMS SUPPLY NAME: CROOKED RIVER RANCH

SUPPLIED NUMBER: 410
COUNTY: JEFFERSON
SURVEYED BY: JOHN STRAUGHAN
: 1/24/90
: 1/24/90

Sheets Attached:

Narrative Summary/Recommendations

Inventory Master Data

Water System Schematic

Location Map(s)

Storage/Distribution

Booster Pumps/Production Data

Certification

Monitoring/Water Quality

Additional Attachments:

WELL LOGS, CODE SHEETS

Narrative Summary:

Crooked River Ranch is a community system in Jefferson county bounded by the Deschutes River, the Crooked River and Deschutes county. The water system relies on an 800 gpm well for their source and the golf course well as an emergency source. There are two reservoirs which have a combined volume of 800,000 gallons. The water system was started as a development about 1973, Therefore system is relatively new and in good repair.

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Requirements/Recommendations:

REQUIREMENTS:

Prepare a sampling plan for the water system.

Complete monitoring for radiological contaminates, sodium and corrosivity as per monitoring section.

RECOMMENDATIONS:

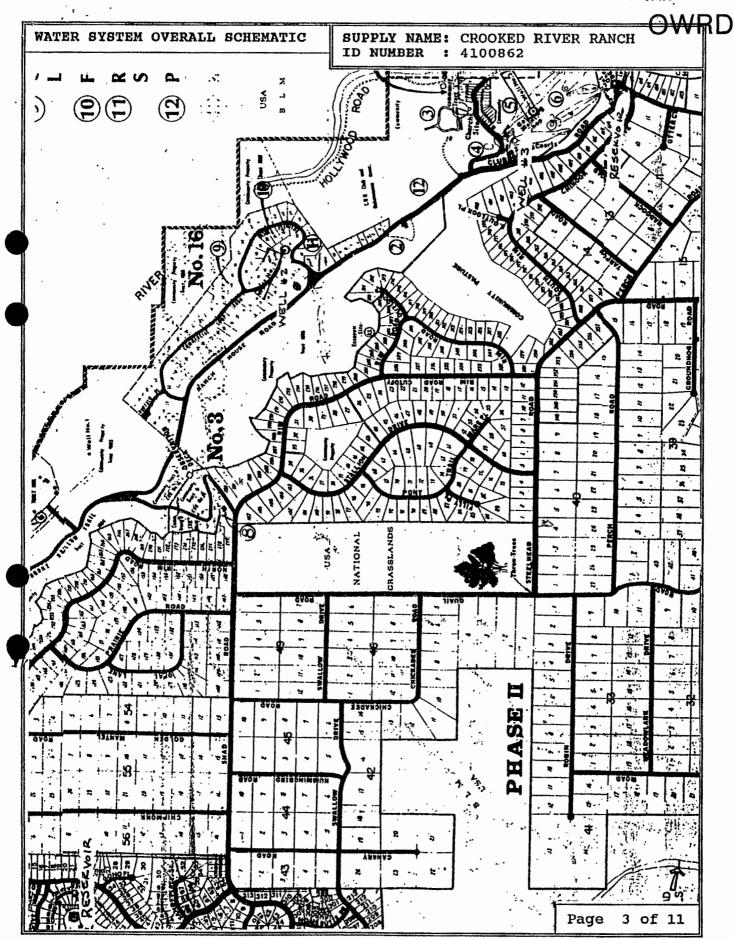
Seal holes in well pump bases. 1.

Contact a professional engineer to prepare a master plan for the water system.

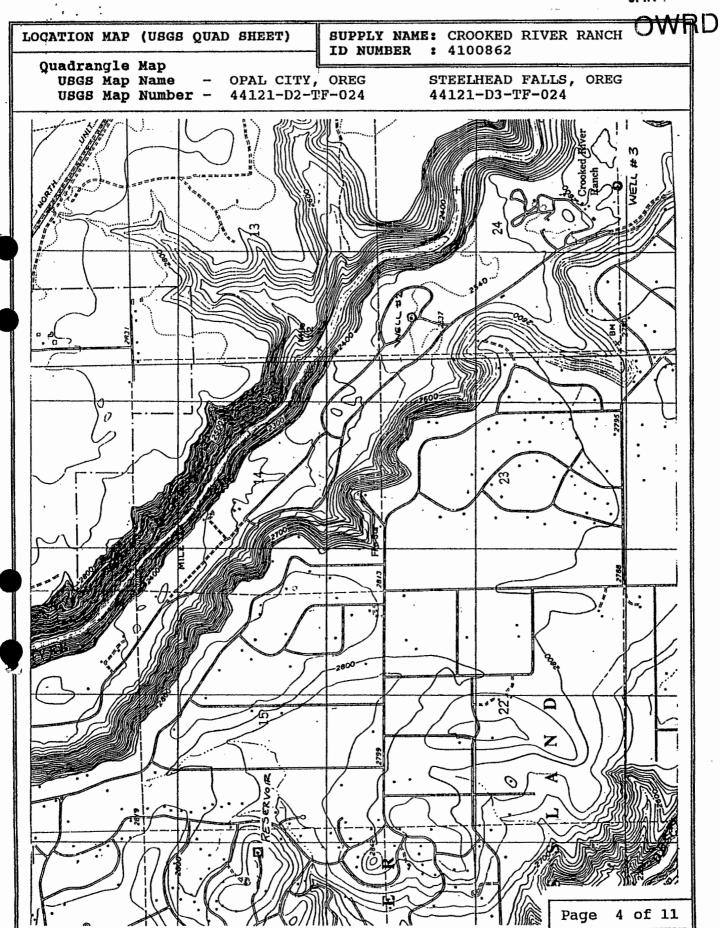
			: CROOKED : 4100862	RIVER 1	RANCE	I	NC
	L 22 1101		4100002				
Date of Last Survey:	•		(MM/D	D/YY)	7/30/86		
System Type:			1		C		
Ownership of System:			(1,2,3			2	
Population Served:			(Total Nu	mber)	1	L200	
Number of Connections:			(Total Nu	mber)	6	500	
Twelve-Month Period:			•	1		${f T}$	
Year-Round Residents				1		Y	
Primary Service Characteristic: (R,T,S,O) R							
Secondary Service Characteri		(1,2,3,4,5			4	
Number of Sources:	,		(Total Nu			2	
Counties Served (Refer to Co	des):		` (/	/ 11		16	
Emergency Systems Available	(Name & ID	Numb	er): `				
PWS	•		(41) l		_	
PWS	,		(41				
PWS			(41			_	
Percent Ground:			((%)	1	.00	
Percent Surface:				(%)	-	_	
Percent Purchased Ground:				(%)		•	
Percent Purchased Surface:				(%)		_	
Active:				(Y/N)		Y	
Activate Date			(MM/D			_	
Deactivate Date						_	
Deactivate Reason:	(3. 0	n n	(MM/DI			_	
Number of Tanks in Supply:	(A, C	., D, M,	N,O,P,R,S	,0,0)		2	
		•	(Total Nu		000		
Number of Gallons in Storage	•		(Total Nu	mer)	800	,000	,
Mailing Address	PO BOX 13	88					
City/State/Zip			RANCH, OR	97760			
Contact Name/Phone	KEN WOLF		3 1041				
Comments	OPERATOR						
Legal (Owner) Address	PO BOX 13	888					
City/State/Zip	CROOKED F	RIVER	RANCH, OR	97760			
Contact Name/Phone	DICK BROW	NLEY					
Comments	CHAIRMAN	LAM	ER ASSOCIA	ATION			
Supply Address	SAME						
City/State/Zip			•				
Contact Name/Phone							
Comments							
OURCE DATA (Sources for Ir	dividual ('ompli	ance Moni	toring)			
OURCE DATA (Sources for in	dividual (* 	ance noni	**		***	
Source ID - Source Name		Type	Seller	Status	VOC		CWT
Source ID - Source Name		TAbe	Serier	Status	VOC	500	2111
A WELL #2		G	41	P	Y	_	N
- 11.444JJ T 45			7.4		<u> </u>		<u> </u>
B WELL #3		G	41	E	Y	-	N
				 	 		
C			41				
D			41	1			
		L		<u> </u>		<u> </u>	
			/ / * * * * * * * * * * * * * * * * * *		hau		
* (S) urface/(G) round/(P) Pu	rchased St	ırrace	e/ (w) Purch	ased Gr	Julia		
* (S)urface/(G)round/(P)Pu ** (P)ermanent/(S)easonal/(E) mergency	//(0)t	her/(I) nt		ouna		
* (S)urface/(G)round/(P)Pu	E) mergency	//(0)t	her/(I) nt				

SOURCI	e of s	UPPLY - WELL	SUPPLY NAME: CF ID NUMBER : 41	OOKED 1	RIVER R	ANGHV	VR.
Sou	rce ID	/Detail ID - Well Deta	ail Name				····
A	A	WELL #2			,		
В	A	WELL #3					
	··						
Wall	L Data	•					
		ID Letter:	4	A	В		
		ID Letter:	ŗ	A	A		
₩e	ell/Sp	ring/Stream:	Am. Am. a	W	W		
		Detail Status:	(P/S/E/O/I)		E		
		ent Objective/Process: ent Objective/Process:	. ()	A	A		
		ent Objective/Process:	} {				
		nt Objective/Process:	\\	-			
	apacit		(GPM)	3000	2500		
	titud		(5111)	44	44		
		Minutes	`	26	25		
		Seconds	. ()	05	20		
Lo	ongitu	de: Degrees	(123	123		
	_	Minutes	· (14	14		
		Seconds	()	48	10		
		n Map Included (USGS)	, , ,		Y		
		g Attached:	(Y/N)		N		
		f Well:	(FT.)		494		
		Installation: Diameter:	(19)	16	49 16		
	rout S		(IN.) (Y/N)		A TO		
	ravel		(Y/N)		N		
		s - Screens/Slots/Toro	ch: (S/L/T)	"	-		
Le	ength	of Open Interval:	(FT.)	28	35		
De	epth t	o Top of Intake:	(FT.)		307		
		evel Device:	(Y/N)		Y		
		Water Level:	(FT.)		286		
	umping	Water Level:	(FT.)	282	288		
Dirms	Data	•					
	ımp Ty		r,su,ce,sj,dj,ot)	VT	VT		
		etting:	(FT.)		380		
	apacit		(GPM)	N .	475		
At	t TDH:	_	(FT.)		570		
D	ischar	ge Pressure:	(PSI)	105	80		
Ho	orsepo	wer:	(HP)		100		
		mp Pulled:	(19)	-	-		
		Lubrication - (011/Wa			W		
		se Sealed:	(Y/N)	Y	Y		
Co	omment	s:		L	LL		
			•		Page	e 5 0	f 11
					ı Fayı	- 50	

JAN 12 2015



JAN 12 2015



STATE OF OREGON -WATER WELL REPORT (as required by ORS 537.765)

JEFF 880 10f 2

JUN 1 0 1994

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(ART CARD) #65238	pg./

	(as required by ORS 537.765)	Q	PAGE I of 2	TED DESIMBAES	(START CARD) #6	5238	pe	<u>?. /</u>	
	(1) OWNER:	Well Numbe					10		
	Name Crooked River Ranch			SOUTH OF WELL by legal description: County Lefterson Latitude Longitude Township 13 S N or S. Range 12 E E or W. WM.					
	Address PO Box 1388			Township 13 S	Nor S Range		F or '	W WM	
	City Crooked River Ranch State OR Zip 97760			Section 16	NE NE	1/ SF	E 01	W. WIWI.	
	(2) TYPE OF WORK:		Lot #7 Block						
	New Well Deepen [Recondition	Abandon		Well (or nearest address)				
	(3) DRILL METHOD:	···········		5.7001 1.100,7000 GZ	(or nourost address)	-W-IXIVAIX	77.13.1		
	Rotary Air Rotary Muc	l Cable		(10) STATIC WA	TER LEVEL:			-	
	Other		•		below land surface.	Da	te_5-26	5 –03 −	
	(4) PROPOSED USE:				lb. per sq		te		
	Domestic Community	Industrial Iri	igation	(11) WATER BEA					
	☐ Thermal ☐ Injection [Other							
	(5) BORE HOLE CONSTR	UCTION:		Depth at which water	was first found504				
	Special Construction approval X Yes [☐ No Depth of Com	pleted Well 951 ft.						
	Explosives used Yes No 7			From	То	Estimated Flo	w Rate	SWL	
	HOLE	SEAL	Amount	600	762	300		502	
	Diameter From To Mater			762	951	500		502	
	20 0 16 Cement								
	18 16 762 7 Sacl								
	13	t 495 520) 50 sacks	(12) WELL LOG	:	MP 1.1			
	12 882 951			(ion			
	How was seal placed: Method \square A	□в Юс.□	D E						
					Material	From	То	SWL	
	Backfill placed from ft, to	ft. Material		Clay and lar	ge cobbles B	r.	6		
	Gravel placed from ft. to	ft. Size of grave	el	Basalt fract	ured Grev	- 6	18		
	(6) CASING/LINER:			Basalt hard		18	28		
	Diameter From To		Welded Threaded	Basalt fract		28	33	<u> </u>	
	Casing: 14 +1 762	.375 ₺ □			ered Grey wi				
				clay soft ye	llowish brown		50		
					d. conglomera	te 50_			
	JAN +≥ 201	5		Brown	=======================================				
	Liner:			Sandstone		50_			
	Final location of shoe(s)			Conglomerate			128		
				Pumice		128	132_		
	(7) PERFORATIONS/SCRI		C	Conglomerate		132			
	Perforations Method			Lava med. gr	y. rounded	156	208	+	
	☐ Screens Type	Mate	rial		ry. & brn. wit		-	+	
	Slot From To size Number	Tele/pipe Diameter size	Casing Liner	fractures Basalt laven	don hand	208	215	-	
	640 760 ½x2 5600			Basalt gry.		216 225	225 260	+	
	040 700 242 5000	1 14		Basalt very		260	326	1	
				Soft rock br		326	345	+	
				Sandstone co		345	425	+	
				Basalt red h		425	470		
	(O) TATELY A DESCRIPTION DAY:	, , , , , -		con			4/0	+	
	(8) WELL TESTS: Minimur	n testing time is 1		Date started		npleted	.1		
	Nump Bailer	X Air	Flowing Artesian		ell Constructor Certific				
	-			I certify that the	work I performed on the	construction, alte	ration, o	r abando:	
	Yield gal/min Drawdown	Drill stem at	Time	ment of this well is in	compliance with Oregon v	well construction	standards	. Materia	
R	890 N/A	951	1 hr.	used and information	reported above are true t	o my best knowle	edge and	belief.	
np	750 2 602 8		8 hr.	#	1 -ta	ZWWC	Number	<u> 1358</u>	
•	1400 8	602	5 min.	Signed Dana	BILL	Date	6-8	·94	
					Constructor Certificati	0n•			
	Temperature of Water <u>54</u>	Depth Artesian Flow	Found		ility for the construction,		ndonment	work pe	
	Was a water analysis done?		formed on this well du	ring the construction date	s reported above.	All work	performe		
	Did any strata contain water not suita	able for intended use?	☐ Too little	during this time is in co	ompliance with Oregon wony knowledge and belief				
	☐ Salty ☐ Muddy ☐ Odor ☐	Colored Dother _		true to the boat of t		wwc	Number.	<u> 1358</u>	
	Depth of strata:	Signed Dan	DAUGHA	Date	6-8	-94			

9809C 10/9

STATE OF OREGON (as required by ORS 537.765)



JUN 1 0 1994 2 WATER RESUURCES LE (START CARD) # 65238

(1) OWNER: Well Number 4	SALEM. OREGON (9) LOCATION O	F WELL by legal	l description:	10	
Name Crooked River Ranch		SOn Latitude			
Address PO Box 1388		N or S. Range			
City Crooked River Ranch State OR Zip 97760		NE			
(2) TYPE OF WORK:	III	Lot_#7Block_			
New Well Deepen Recondition Abandon	Street Address of W	ell (or nearest address)	<u>Cinder Ro</u>	ad	
(3) DRILL METHOD:	(40) CODATE C XXIATE	DD I DVDV			
Rotary Air Rotary Mud Cable	(10) STATIC WAT		_		
U Other	ft. bo		**	e	
Domestic Community Industrial Irrigation	(11) WATER BEA	lb. per sq	uare inch. Dat	3	
Thermal Injection Other	(II) WATER BEA	MING ZOMES.			
(5) BORE HOLE CONSTRUCTION:	Depth at which water w	as first found			
Special Construction approval Yes No Depth of Completed Well ft.	-				
Explosives used Yes No Type Amount	From	То	Estimated Flor	w Rate	SWL
HOLE BECEIVEDL Amount Diameter From To sacks or pounds					<u> </u>
Diameter From To sacks or pounds					-
IAN 12 2015					-
JAN 12 ZUG	(40) 777777 7 0 0				<u> </u>
OWRD	(12) WELL LOG:	Ground: alount	ion		
How was seal placed: Method A B C D E	:	Glound e <u>rey</u> au	10,11		
☐ Other		Material	From	То	SWL
Backfill placed from ft. to ft. Material	Pumice congle	merate	470	562	
Gravel placed from ft. to ft. Size of gravel	Sandstone bri		562	600	
(6) CASING/LINER:	Basalt grey l		600	633	
Diameter From To Gauge Steel Plastic Welded Threaded	Sandstone bri		te 670	1	ļ <u>.</u>
Casing:	Soft drilling		(05	695	ļ
	Basalt gry. 1		695	708	-
	Basalt med. v		708	714 762	
Liner:	Basalt hard a			845	
	•	omerate		865	
Final location of shoe(s)	Basalt grey l		865	882	
(7) PERFORATIONS/SCREENS:	Lava pourous			913	
Perforations Method	Hard grey		913	921	
Screens Type Material	Lava red brol		921	927	
Slot Telc/pipe	Basalt grey l	nard	927	951	ļ
From To size Number Diameter size Casing Liner				——	
				 	
				 	
				 	
(O) YXYEY I TOPOTOC MALL AND A		*-			1
(8) WELL TESTS: Minimum testing time is 1 hour	Date started 4-2	5-94 Con	npleted 5-	26-94	
Flowing Pump Bailer Air Artesian	(unbonded) Water Wel	****			
Yield gal/min Drawdown Drill stem at Time		ork I performed on the			
	ment of this well is in co used and information re				
1 hr.			·	_	
	Simil Kinns	K St.	1 / ·	Number	
	Signed	Marian	Date		
Temperature of Water Depth Artesian Flow Found	(bonded) Water Well C			do=	. ماد مربر
Was a water analysis done? Yes By whom	formed on this well duri	ty for the construction, and the construction dates	anteration, or aban s reported above. A	uonment All work 1	work per performe
Did any strata contain water not suitable for intended use? Too little	during this time is in con	apliance with Oregon we	ell construction sta	ndards. T	his repo
Salty Muddy Odor Colored Other	is true to the best of my	knowledge and belief.	wwc	Number 1	358
Denth of strate:	Signed # JAG-	to Math	Date	2-8-	au

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765) instructions for completing this report are on the last page of this form

⊃UOO∠

WELL ID # L L43040

(START CARD) # 131169

(1) OWNER:		Well Numbe		(9) LOCATION OF V		SCRIPtion: atitude Longitud	t a
Name Crook	ed River Ranch	Water Company		Township 13S	Nor S. Range 1		
Address P.O. B	ox 1300 ed River Ranch	State OR	Zip 97760	Section 24B	SW	_1/4NW	1/4
(2) TYPE OF V				Tax lot 2800 Lo		Subdivision 13845 SW Commerc	-:-1
				Loop, Crooked	River Ranch, OR	3045 SW Commerc	;iai
		Iteration (repair/recondi	ion)Abandonment	(10) STATIC WATER			
(3) DRILL ME	THOD:	_			w land surface.	Date 6/21	B/2000
X Rotary Air	Rotary Mud	Cable	Auger	Artesian pressure	lb. per sq	uare inch. Date	
Other				(11) WATER BEARI	NG ZONES:		
(4) PROPOSE	D USE:			Depth at which water w	as first found		
Domestic	X Community	Industrial	∐ Irrigation	F	T		T =====
Thermal	Injection	Livestock	☐ Other	From	То	Estimated Flow Rate	SWL
	LE CONSTRUC						
	on approval Yes		ompleted Well 461+ ft.				
HOLE	∐Yes X∭No Typ	*^ SEAL	Mount Amount		. [
Diameter From		terial From T	1	(12) WELL LOG:	Ground ele	evation 2540	
15.5	CEIVED!	urbed					T
B. M. Marce				Well was surveyed	Material and to have	From To	SWL
JAI	1 12 2015	DECEN		deflection zones be			†
3/1	2010	RECEIV	/ED	surface seal. The r	ecords inidcate t	hat this well	
How was seal plas	AMBID.	B-Q D		was originally drille			
X Other Not Di		□B AUG 🥍	2000	the hole was fairly problems that would			+
Backfill placed from	n ft. to	ft. Material		casing in the boreh	ole without remo	oving the	
Gravel placed from	nft. to	WATER RESOUR		crooked zones. Th			
(6) CASING/LI	NER:	SALEM, ORI	EGON	with two 20ft, full be roller cone hole op			
Diamete	r From To		ic Welded Threaded	straightening was I	necessary from to	op to bottom.	
Casing:				The most significal			
	- 			380 ft After makin drill string, casing			
				event until the 400			1
Liner: 14in	+2.5 461	.250		on it from time to ti	me to advance th	e casing to	4
Final location of sh				the borehole botton			
				as we had very little			<u> </u>
(7) PERFORA	TIONS/SCREE!	NS:		reaming operations	s in the hole. Our	determination	
Perforation	_	Materi		is that there is live		the bottom	
Screens	Type Slot	Tele/pipe		to carry drill cutting	ıs away.		
From To	size Number	Diameter size	Casing Liner				
341 401 401 461	1/8 1680 1/8 3360	14in pipe 14in pipe	• -				1
401 401	1/0 3300	17.11		Date started 6/21/2000	Com	pleted 6/29/2000	
				(unbonded) Water We			
				_ ·		ction, alteration, or abando pply well construction star	
(8) WELL TES	STS: Minimum (esting time is 1 h	our	Materials used and informa	stion reported above are	e true to my best knowledg	
X Pump	Bailer	Air	Flowing Artesian	belief. WESTE	RN WATER DEV		
	3	Deill stem at	Time	Signed	P.O. Box 167	70 WWC Number —	
Yield gal/min	Drawdown	Drill stem at		Re	dmond, OR		-
850	2	340	24 hr.	(bonded) Water Well C			
						ration, or abandonment wo	ork
				['	•	es reported above. All w	ork
Temperature of W	ater 48 sis done? X Yes	Depth Artesian Flow fou By whom Coffey L		performed during this time construction standards. T	•	Oregon water supply well best of my knowledge and	belief.
		le for intended use?	Too little	1 X 1 -	A. K. Th	WWC Number 138	
Salty Mud		Colored Other		Signed / Do		Pate 7/21/2000	
Depth of strata:				Robert Buckr			
			CIDAT AARY AAN	CTDUCTOD CECOM	D CORV. CHETOM		

Western Water Development P.O. Box 1670 Redmond, OR 97756

Crooked River Ranch Water Company WELL #2 CONSTRUCTION DIAGRAM

