

































































Well History Riverside No. 7 Well – U.W. 194100	Dec. 22, 2010
Drilling Contractor: Downey Drilling, Lexington, Nebraska Project Engineering: PMPC Engineers, Saratoga, Wyoming Project Geology: Hindek Consulting, Larange Wyoming	Install pump at 210 ft., pump for 2 hrs Approximate specific capacity = 2.5 g
Project corology: mixedey Consuming, Lamme, wyofming Dec. 10, 202101 Install surface casing to 35 ft, with bucket sugger - 0.250-wall steel cemented into 26-inch hole; water at areators, 20 ft.	Jan. 5, 2011 Trip in to 600 ft. to airlift remaining d unable to proceed into casing (610 - 6 development took, re-enter hole to 610
water at approx. 40 m. Dec. 13, 2010 Main mobilization and site preparation.	Jan. 6, 2011 Airlift screens in 10-ft intervals using which air injected at 100 - 300 ft junt bottom to top. Airlift approx. 50 upp
Dec. 14, 2010 Dec. 14, 2010 Dec. 14, 2010 dec. Dec. 2010 ft. (14.5 hours drilling), reverse-circulation with airful from 200 ft.; 30-second mud viscosity (70 Jugar "Oait-Ced" bettoriet and 6 Jugar sodia att, 704 "Quek" Tred Ged? 300 grave, 74 June 2014 att, 194 grave attended over the course of thilling), circulation approx. 330 grave, 7-inch stem wi three drill collars, steel-tooth tri-cone bit. Run geophysical logs.	Jan. 11, 2011 Set test pump to 315 fl.; complete st Jan. 12, 2011 Start constant-rate pump test.
Dec. 15, 2010 Install 8-58° OD, 0.322-wall steel casing to 650 ft, with 100 ft. of Johnson stainless-steel, wire- warp well streen, 0.010-dot (see completion diagram for placement), hang in tension from surface casing: "1020° Colorado Silica sand peak ternied in with clear water, from 630 to 141 ft, mixed with approx. 150 to fcloriborie powder during installation.	Jan. 33, 2011 Complete constant-rate pump test. Week of Jan. 27, 2011 Baij diffiling fluids from 610-630 cast
Dec. 16, 2010 Install 5 ft. of bentonite chips and tremie neast cement seal 136 ft to 8 ft.; partial pumping of drilling main from casing, demobilization of most equipment.	surface.



The following practitation rate of the 14 34-both classes for	Riverside N	netration Rat in. 7 Well – U. pr values for 25 institution per two	W. 194000 0-8. intervalu	us recorded during drilling	Figure 3 - Completi T14N, R83W	tion Diagram Riverside No. 7 Well; U.W. 194100 V. St. 14 NE. 14, Section 4, Approx. Else. = 7259 th Downey Drilling, Inc., December 2010
Depth (0.) 00	20	40	60	80	ron	16" O.D., 250-wall steel surface casing
•			-0	23	SVAL = 41 R (U12/11)	a coment
190 17	9	15	14	15	- 100 ft	- 14 3/4" hole
	17	23	26	21		<ul> <li>bentonite chipis (5 ft, 136-141 ft)</li> </ul>
400 15	25	35	34	31	- 200 ft	# 6 5/8" O.D., 322-wall steel casing
500 29	32	22	23	23		
600 23	21				- 300 #	<ul> <li>10/20 silica sand pack.</li> </ul>
Nonec: 0 - 35 ft Done with bucket 1 35 - 40 ft 14 minutes 620 - 630 ft. (TD) - 38 minute	15				- 300 ft	Screen Schlenkap ** pie wan, decharas dau, decharas dau, ana sang son di sana Direk da san Tirek da san
Source: Test Hale Log & We	I Design, De	owney Delikag.	, Inc.		1.	100 Million Andrea 201 201 11 202 202 17 202 202 17 202 202 1
					- 500 tt	With Screen         With Screen           Weil screen         300 Min Screen           Weil screen         300 Min Screen
					- 600 ft	- 530 1
		B-1			700 8	weided steel cap

		Lithalogie Sample Descriptions Riverade No. 7 Well – U.W. 19411	20	
and market	e and reduces side	mand level. Reserve simulation dell wall contamination ophics to direct al acrumod succions, Lo. balane 170 f	conductors dolling. Details	
Toronge	Principal Lationage	Description	Dilling Now	
170 - 275	Share'	ekky, 48. ft undy albeimate	moody steady at lling threadward	
	Matoree	vih anly 180-80, vin miai 331-40	throughout	
273 - 340	Materie	th gry, of inducated model, vfs andy 200-300		
141 - 243	Materie	gray, mustiled, musta		
340 - 330	Molecce	ag, niner effs and		
170 - 340	Sudacus	brs, mod and, vige, sity under		
380 - 490	Sand	sand (to. 1475, peorly seried, subsequine, qr. & Tellis graine, its generit, all in study merris.	good-kooking maturial	
400-400	Malater	gray readmons		
611-420	Sadoces	virige, micky said		
(21 - 43)	Sadcore	bee, have, wige, sity, statis sat		
432 - 450	Sandacana	hand, bro, urige, sky, asialay sat		
-652 -400	Chip	arð, tes-da bræn, vigr mör, möly dag	drilling character - same all balle on far, i.e. smooth, seenity, fast, drilling with ring wongte, including two drill collars.	
nut - 43)	Sandercen	soft, white, theory, staley, qu & liftic ar scivilia city reaction;	- 470 fb first rough drilling. of late	
		C-1		

47(- 49)	Sadowe	at, depler	searcher at 473 A; serbing searcher acting, delling searcher period
400-484	Send	ers and dt. Ene genovel, opz de Rebics, slivery	
454 - 693	Sadotre	soft, ben, sdgr, sky soc, cra sed & day an rese 1° geneter pobles	
200 - 500	Moltone	soft, tan, vfn, sody multi- wiwhite city	
300 - 510	Sandrabox	soft, lat grey, vfr., diety, sky, sticky un	
810+556	Sandriver	exed ind, grey, vfagr, diets set, very indepenses	
510-526	Cay	ofte multi, ulay; lipt group	
\$26 - 524	Said	Is sad to fit gravel, angular- schemasi, gas and littica	
529 - 534	Saubtree	with enough and, ligt beau, wilge, dering, winding som	
538-541	Said	mod-cre and, angedar-subrad, gar & littles	good looking material
541 - 590	Seid	san, elapsy; vfit and	
560 - 570	Saultane	as; wined ind, of dgr, alige an	
530 - mirz	Ow	tao, of andy day, mica eich	nica contras foregular the vary insures solution
+02 - 612	Sed	gravel & on red, qu & lithics	magh at 602.8, great sample
\$12-439	Clay	tan, vils sady clay, seiniater white ant	
		C · 3	

Discharge (gpm)	Duration (min)	Drawdown (ft)	Specific Capacity (gpm/ft)	Notes
61	40	20.3	3.03	
151	40	60.5	2.50	cont. from previous ste
291	40	112.6	2.58	cont, from previous ste
340	40	144.7	2.35	cont. from previous ste
280	40	97.7	2.87	test following overnight recovery
280	1980	136.9	2.05	continuation of pumping: transmissivit = 3,300 gpd/ft

## ACKNOWLEDGMENTS

- HANDBOOK OF GROUND WATER DEVELOPMEN
- GROUNDWATERAND WELLS, SECOND EDITION
- SIERRA MADRE WATER AND SEWER JOINT POWERS BOARD
   GROUNDWATER EXPLORATION PROGRAM RIVERSIDE NO. 2 WEL

POWERPOINT PRESENTATION – JOSIE BAUER, ADMIN. ASSISTANT FOR DOWNEY DRILLING, INC., LEXINGTON, NE

