Liner--ft

Shawver Well Company, Inc.

2780 Stanley Avenue Fredericksburg, IA 50630 62894

(563) 237-5341 (800) 568-4449

Water Well Atkins, IA 52206 WER NEST

County Benton Township Fremont Section 14 Quarters **NENESW**

Customer Information

City of Atkins

Contact Date 1/1/2005 Confirmation Date

Atkins, IA 52206

Contact Information

Home Ph: Work Ph: Cell Ph:

Fav

Best time to call: Email: Customer since: Referred By:

Job Information

Area CM **T83N R9W**

Latitude Longitude PWT5 # Permit Number Confirmation

Start Date 12/2/2005 End Date 12/20/2005

Warranty Date Warranty

Well Site Information

Actual Size 10" Depth 564' Elevation

SWL 135" RPS Max GPM

315' - 150 GPM, Made Water 367' - 150 GPM, 418' - 200 GPM,

Sulfide -- Screen--

Pump Inst --

515' - 100 GPM

Air Lift 240' @ 140 Screen Size GPM, 240' @

300 GPM Exploratory -- To Ft Slot Size Mock Rock -- Acidize 🗸 Riser Pipe Well Use

Set from Perforated From Rig 30K-2 Tail Pipe

Driller Dave Halweg; Cert #: 2814 Driller 2 Gary Martin

Description:

A 17 1/2" hole was drilled to a depth of 8' and 9-1/2' of 16" temporary casing was installed. A 14-3/4" hole was then drilled to a depth of 277' and 279' of 10", A53B, .365 wall, steel casing was installed. The casing was grouted with 190 sacks of neat cement grout, through a 2" tremie inserted into a grout shoe. The grout level was observed at 7-1/2' the next day and 3 sacks of Hole Plug were then used to fill the remainder of the annular space with the Engineers approval. A 9-7/8" hole was then drilled to a total depth of 565', and air lifted for 2 hours. The flow rate observed through a rectangular weir plate while air lifting was 675 GPM from 560', and 140 GPM at 240'. On 12/15/05 the well was acidized with 3,000 gal. of 20 degree Muriatic, inhibited acld in an effort increase the water production The acid was left to work for 8 hours and then surged for another 8 hours using high pressure air After surging the well was again air lifted to remove the acid. The water was tested for PH and treated with soda ash to a PH level of 8 to 8-1/2. After the water from the well showed no signs of acidlty it was air lifted from 563' and the flow over the welr was in excess of 900 GPM. The well was again air lifted from 240' and 300 GPM was observed at the weir. After the well recovered from air lifting the static water level was observed at 135'.

450 lbs. Søda Ash. 10 Totes Acid. 150 lbs. Bicarb. 3000 gal. Acid - Hydrite.

Dit Cinn North Au

Well Formation Log

From-To	Color	Formation
0 - 3	Black	Topsoil
3 - 27	Brown - Yellow	Clay
27 ~ 32	Brown	Sand, Medium
32 - 47	Blue	Clay
47 - 53	Red	Boulders
53 - 113	Blue	Clay
113 - 117	Yeilow - Green	Shale
117 - 184	Brown - Gray	Umerock, Shale Streaks
184 - 187	Dark Brown	Limerock
167 - 212	Gray	Shale & Limerock (Kenwood)
212 - 237	Lt. Brown	Limerock
237 - 245	Gray	Limerock
245 - 250	Gray - Brown	Umerock
250 - 254	Gray	Umerock

Shale

Bore Log

Fram-10	eif žise - Nambel		
0 - 8	17 1/2"	718407	
8 ~ 277	14 3/4" Tricone	42004	
277 - 565	9 7/8"	410836	

Well Casing Log

Casing		
eel		
eel		

Screen Size Slot Size Riser Pipe

Set From Tail Pipe

Well Crout Head

en anabe core			
Amount	Туре		
3 sacks	Holeplug		
20 sacks	Casing Seal		
58 sacks	Quick Jel		
AR carke	Agua Jel		

Green

2\$4 - **2\$5**

		14136389580		SHAWVER WELL		PAGE 01	
		.25	14136389580	SHAWVER WELL	a	PAGE 02	
	₩5 - 262	Gray	Limerock	190 sacks	Neat Cement	(
1	262 - 274	Gray - Blue	Limerock & Shale				
-1	274 - 285	White	Limerock	1			
	285 - 3 5 7	Gray - Cream	Limerock			ĺ	
ļ	357 - 465	Cream	Limerock			1	
- [465 - 520	Gray	Limerock			i i	
	520 - 558	Gray -	Limerock, Shale Streaks				
1	558 - 5 65	Blue	Shale			1	

