



Allen Harim Foods, LLC
Harbeson Processing Plant
18752 Harbeson Road
Harbeson, DE 19951

WATER ALLOCATION PERMIT RENEWAL APPLICATION

ATTACHMENT 2

REQUESTED RATES

- TECH NOTES

*RCVD:
WAR
5-24-2019*



Allen Harim Foods, LLC
Harbeson Processing Plant
18752 Harbeson Road
Harbeson, DE 19951

REQUESTED RATES

Item 7.D – Maximum Use

For each permitted facility (i.e. well), Allen Harim Foods, LLC (Allen Harim) requests that the maximum daily use be slightly increased to 70% of the total volume produced by continuously pumping the well at a rate equivalent to its maximum pump capacity. Each well is currently permitted at 67% of the total volume produced by continuously pumping the well at a rate equal to its maximum pump capacity. This is needed to accommodate the requested increase to the daily allocation noted below.

Item 8 – Requested Rates

Allen Harim has substantially increased poultry production at the Harbeson Poultry Processing Facility (Harbeson poultry plant) over the past 12 years. Specifically, the average number of head killed at the Harbeson poultry plant by Allen Harim's predecessor for the 3-year period spanning 2007 – 2009, which immediately preceded the modification date of the current Water Allocation Permit, was 50 million birds per year. Allen Harim, however, has averaged 81 million head killed over the last 3 years at the Harbeson poultry plant. This represents a production increase of 62% over the referenced periods.

Although poultry production has increased in recent years, Allen Harim has been able to offset a portion of the associated increase in water use through efficiency gains. During the 3-year period spanning 2007 – 2009, which immediately preceded the modification date of the current Water Allocation Permit, an average of 7.5 gallons were used to process each bird. During the most recent 3-year period (2016 – 2018), Allen Harim has averaged 6.1 gallons of water per bird processed. Nonetheless, current water withdraw rates, driven by the increase in poultry production levels, are near or at current water allocation permit limits.

To accommodate current poultry production rates, to allow for headroom during periods of peak demand, and to account for planned and potentially unplanned increases in production for the next 5 years, Allen Harim requests that the monthly, daily, and yearly withdraw rates be increased to the following:

Period	Permitted Use¹ <i>(gallons)</i>	Requested Rate <i>(gallons)</i>	Difference <i>(% increase)</i>
Daily	1,900,000	2,300,000	21%
Monthly	45,000,000	54,000,000	20%
Yearly	525,000,000	578,000,000	10%

Notes

- 1 Currently permitted rates under Water Allocation Permit No. 89-0002AM1.



Allen Harim Foods, LLC
Harbeson Processing Plant
18752 Harbeson Road
Harbeson, DE 19951

WATER ALLOCATION PERMIT RENEWAL APPLICATION
ATTACHMENT 3
WELL COMPLETION REPORTS AND PUMPING TEST DATA

C-5349
#1-75

WELL COMPLETION REPORT

1. Permit Number: 31,900
Owner of Well: Government Property, Harrison, Del

2. Test Well
Observation Well
Production Well
Well Abandoned? Yes No
(to be plugged)

3. Total Well Depth 88 feet
Date Completed May 11, 1975

4. Grout: Type cement
from 0 feet to 59 feet
from feet to feet

5. Casing: Type steel
16 inches to 59 feet
10 inches to 59 feet
Drive Shoe? Yes No

6. Screen Setting:
59 feet to 88 feet

7. Gravel Packed? Yes No
0 feet to 88 feet

8. Well Head Completion: concrete Foundation
Pitless Adapter Type
24 inches above grade

9. Static Water Level:
17 feet below grade
 feet above grade

10. Pumping Water Level:
22 feet below grade after
8 hours at 228 GPM

11. Permanent Pump Installed?
Yes No (3 1/2 shaft turbine)
a. Shallow Well
Deep Well
b. Reciprocating Rotary
Centrifugal Jet
Submersible
c. Capacity GPM

12. Well Number
(Leave Blank)

13. Well Log

Formation	Thickness of Stratum	Depth to Bottom of Stratum
brown sandy clay	0-12	
white sand & clay streaks	12-54	
iron ore	54-55	
brown & white sand	55-88	
red clay	88-127	
SMITHSONIAN ATTORNEY WELL CO., INC. P. O. BOX 217 ST. MICHAELS, MARYLAND		

14. Signature of Water Well Contractor Date May 15, 1975

(over)

PLEASE RETURN TO:

WATER SUPPLY BRANCH
Blue Hen Mall Office
Box 1401
Dover, Delaware 19901

DOCUMENT 40-00/78/

WELL COMPLETION REPORT

1. Permit Number: <u>48815</u> Owner of well: <u>Paramount Poultry, Inc.</u>		11. Gravel Backfill Type <u>MORLE</u> (From <u>50'</u> to <u>80'</u> feet)	
2. Use of water: Domestic <input type="checkbox"/> Public <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> Irrigation <input type="checkbox"/> Commercial <input type="checkbox"/> Other		12. Static Water Level: Date <u>9/24/81</u> <u>8'-8"</u> Ft. (Below, Above) Ground Surface	
3. Method of Drilling: Jet <input type="checkbox"/> Dug <input type="checkbox"/> Driven <input type="checkbox"/> Rotary: Mud <input checked="" type="checkbox"/> Rev. <input type="checkbox"/> Air <input type="checkbox"/> Other		13. Pumping Water Level: <u>12</u> Ft. below grade after <u>4</u> hours at <u>100</u> gpm	
4. Test Well <input type="checkbox"/> Observation <input type="checkbox"/> Production <input checked="" type="checkbox"/>		14. Well Head Completion: Type: Pitless Adapter <input checked="" type="checkbox"/> Other <u>18</u> inches above grade	
5. Total Well Depth: <u>80</u> feet Date Completed <u>8/21/81</u> Month Day Year		15. Type of Permanent Pump Installed: Pump Manuf. <u>Permatop</u> Rated capacity <u>60 gpm</u> Pump intake setting <u>42</u> Ft. below grade	
6. If this is a replacement well, how was previous well abandoned? <u>Not Applicable</u>		16. The completed well is a. at least 5' from any overhang..... <input checked="" type="checkbox"/> <input type="checkbox"/> b. at least 50' from any septic tank..... <input checked="" type="checkbox"/> <input type="checkbox"/> c. at least 10' from town sewer line..... <input checked="" type="checkbox"/> <input type="checkbox"/> d. at least 100' from the nearest edge of any tilefield..... <input checked="" type="checkbox"/> <input type="checkbox"/> (if well is cased less than 50') e. at least 50' from the edge of any tilefield if casing (not including screen) is more than 50' in depth..... <input checked="" type="checkbox"/> <input type="checkbox"/>	
7. Casing Material: Steel <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Concrete <input type="checkbox"/> Diameter <u>6</u> in. From <u>0</u> to <u>70</u> feet		17. The nearest neighbors (circle one) septic tank tile field, cesspool, or privy is <u>100'</u> from completed well.	
8. Screen Material: Steel <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Concrete <input type="checkbox"/> Diameter <u>6</u> inches Setting from <u>70</u> to <u>80</u> feet		18. Is completed well located as shown on application form? <input checked="" type="checkbox"/> <input type="checkbox"/> If no, describe location change.....	
9. Grout Type: Cement <input type="checkbox"/> Bentonite Clay <input checked="" type="checkbox"/> Other From <u>0</u> to <u>25</u> feet		10. Non-grout Backfill of Well Annulus Type: From <u>0</u> to <u>30</u> feet	
		Company Name <u>Delmarva Drilling Co.</u> <u>13500 E.</u> Signature of Water Well Contractor _____ Date _____	

STATE OF DELAWARE
WATER AND AIR RESOURCES COMMISSION
Water Resources Division
Dover, Delaware 19901

WRD-2 4
7169
WATER SUPPLY BRANCH

C-5929

WELL COMPLETION REPORT

JUN 21 1977 ✓

1. Permit Number: DE 38010
Owner of Well: PARAMOUNT EQUITY

2. Test Well
Observation Well
Production Well
Well Abandoned? Yes No

3. Total Well Depth 90 feet
Date Completed 6/15/77

4. Grout: Type CEMENT
from 0 foot to 60 feet
from foot to feet

5. Casing: Type STEEL
10 inches to 60 feet
10 inches to 90 feet
Drive Shoe? Yes No

6. Screen Setting:
60 feet to 90 feet

7. Gravel Packed? Yes No
1 feet to 90 feet

8. Well Head Completion: FOUNDATION
Pileless Adapter 24 inches above grade Type

9. Static Water Level:
19 feet below grade
 feet above grade

10. Pumping Water Level:
26 feet below grade after
0 hours at 297 GPM

11. Permanent Pump Installed?
Yes No
a. Shallow Well
 Deep Well
b. Reciprocating Rotary
 Centrifugal Jet
 Submersible
c. Capacity GPM

12. Well Number
(Leave Blank)

13. Well Log

Formation	Thickness of Stratum	Depth to Bottom of Stratum
WHITE SAND + CLAY	13	13
WHITE SAND	8	21
BROWN CLAY	9	30
WHITE SAND + CLAY	20	50
CREEK WHITE SAND	40	90
CLAY	37	127

14. Signature of Water Well Contractor W. M. Shuman Date 6/12/77

SHUMAN ARTESIAN WELL CO., INC.
P. O. BOX 217
ST. MICHAELS, MARYLAND

STATE OF DELAWARE
 WATER AND AIR RESOURCES COMMISSION
 SHANNAHAN ARTESIAN WELL CO., INC. Water Resources Division
 P.O. BOX 730 Dover, Delaware 19901
 ST. MICHAELS, MARYLAND 21663

Inq.
DB
C-6266
 WRD-2
 7/69

WELL COMPLETION REPORT

1. Permit Number: 40173
 Owner of Well: PARAMOUNT POULTRY INC.

2. Test Well
 Observation Well
 Production Well
 Well Abandoned? Yes No

3. Total Well Depth 111 feet
 Date Completed 4/25/78

4. Grout: Type CEMENT
 from 0 feet to 68 feet
 from feet to feet

5. Casing: Type STEEL
10 inches to 68 feet
10 inches to 0-71 feet
 Drive Shoe? Yes No

6. Screen Setting:
71 feet to 111 feet

7. Gravel Packed? Yes No
1 feet to 111 feet

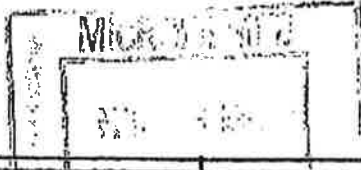
8. Well Head Completion:
 Pitless Adapter TURBINE PUMP Type
30 inches above grade

9. Static Water Level:
10 feet below grade
 feet above grade

10. Pumping Water Level:
20 feet below grade after
10 hours at 238 GPM

11. Permanent Pump Installed?
 Yes No
 a. Shallow Well
 Deep Well
 b. Reciprocating Rotary
 Centrifugal Jet
 Submersible
 c. Capacity GPM

12. Well Number
 (Leave Blank)



13. Well Log

Formation	Thickness of Stratum	Depth to Bottom of Stratum
B.R.N SAND	0-5	
CLAY	5-12	
SAND + CLAY	12-20	
WHITE CLAY	20-27	
COARSE SAND + GRAVEL	27-113	
CLAY	113-126	
SHANNAHAN ARTESIAN WELL CO. POST OFFICE BOX 730 ST. MICHAELS, MD. 21663		

14. Signature of Water Well Contractor Date
W. W. Shanahan 4/26/78

MAIL TO:
 WATER SUPPLY SECTION
 DIVISION OF WATER RESOURCES
 89 KINGS HIGHWAY
 DOVER, DELAWARE 19901

STATE OF DELAWARE
 DEPARTMENT OF NATURAL RESOURCES
 AND ENVIRONMENTAL CONTROL

http://www.dnrec.state.de.us/

WELL COMPLETION REPORT
 MUST BE RETURNED WITHIN 30
 DAYS OF CONSTRUCTION. A
 WELL FORMATION LOG MUST BE
 INCLUDED WITH THIS REPORT.

PHONE: 302-739-9944
 FAX: 302-739-7764

WELL COMPLETION REPORT

- OFFICIAL USE ONLY -

PAGE 1 OF 2 PAGES

ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED

PLEASE PRINT OR TYPE - USE BLUE OR BLACK INK ONLY

Permit # of completed well: 211079 Local ID
 Tax Map/Parcel #: _____
 Property Owner: Allen Family Foods
 Water Well Contractor: ACS D WC Lic #: 14
 Well Driller in Charge during Construction: S. Willey

WELL CONSTRUCTION METHOD

- Augered
 Driven
 Mud Rotary
 Other (Specify): _____
- Bored
 Jetted
 Reverse
 Cable Tool
 Air Rotary
 Washed

Total Depth of Excavation: 105'
 Construction Date: 10/18/05

CASING INSTALLATION:

	(1)	(2)	INNER CASING				OUTER CASING
			(3)	(4)	(5)	(6)	
CASING TOP:	<u>+2</u>	_____	_____	_____	_____	_____	_____
CASING BOTTOM:	<u>79'</u>	_____	_____	_____	_____	_____	_____
CASING DIAMETER:	<u>12"</u>	_____	_____	_____	_____	_____	_____
CASING MATERIAL:	<u>Bl Steel</u>	_____	_____	_____	_____	_____	_____

SCREEN INSTALLATION

SCREEN TOP:	<u>79'</u>	_____	_____	_____	_____	_____	_____
SCREEN BOTTOM:	<u>104'</u>	_____	_____	_____	_____	_____	_____
SCREEN DIAMETER:	<u>12"</u>	_____	_____	_____	_____	_____	_____
SCREEN MATERIAL:	<u>S. Steel</u>	_____	_____	_____	_____	_____	_____

Gravel Pack From: 55 ft. To: 105 ft.
 Grout Type: Cement Bentonite Clay
 Other: _____ From: 0 ft. To: 55 ft.

Type of Non-Grout backfill of Well Annulus:
 From: _____ To: _____

Static Water Level: 9 ft. Below OR Above Ground Surface
 On (date): 10/20/05

Pumping Water Level: 18 ft. On (date): 10/20/05
 After: 8 hrs. Pumping at: 525 GPM

Was a Geophysical Log Taken? YES NO

WELL HEAD COMPLETION:

Type: Pitless Adapter Standard "T"
 Well Pit Pad Mount
 Other - Specify: _____

Well Head Completed: 24 inches Above (OR) Below Ground Surface

Was the Well Tag attached in accordance with current regulations?

YES NO If "NO", Please Explain: _____

TYPE OF PERMANENT PUMP INSTALLED:

Pump Manufacturer: NOT Available
 Rated Capacity (GPM): _____
 Pump Intake Setting: _____ Ft. Below Ground Surface:
 Pump Installed By: _____ On (date): _____

The location and construction of this well is in Compliance with all permit conditions and all applicable well construction regulations.

YES NO

If "NO," attach a copy of the approved well permit showing the revised location clearly marked.

COMMENTS: _____

I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT

Signature - Well Driller in Charge of Well Construction

License # 991

Date 10/21/05

MAIL TO:

WATER SUPPLY SECTION
DIVISION OF WATER RESOURCES
89 KINGS HIGHWAY
DOVER, DELAWARE 19901
PHONE: 302-739-9944
FAX: 302-739-7764

STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
AND ENVIRONMENTAL CONTROL

WELL COMPLETION REPORT MUST
BE RETURNED WITHIN 30 DAYS OF
CONSTRUCTION DATE

FORMATION LOG

PAGE 2 OF 2 PAGES

PLEASE PRINT OR TYPE - ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED

PERMIT#	211079		LOCAL ID#	
PROPERTY OWNER	Allen Family Foods			
WELL CONTRACTOR	ACSD		LIC#	14
DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA		
Topsoil	0	1		
Fine Tan Sand	1	7		
Fine-Med White Sand	7	46		
Med-Coarse Orange Sand	46	58		
Med Yellow Sand	58	77		
Coarse White/Gray Sand & Gravel #3	77	105		
OTHER COMMENTS:				
I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT				
Signature of Well Driller In Charge	991		Date	10/21/05

WELL #2

NAME: ALLEN-HARIM FOODS LOCATION: RT 5S, HARBESON
 PHONE: 302-684-1640 - JESSE REED JOB #: 1847

Next to RR

Well No:	2	Pump Make:	GOULDS (COS=400 GPM @ 50 PSI)	Control Box	
Dia.:	10"	Model:	6DLC020 S/N: 10069037/1108893-1	SQUARE D	
Depth:	81'	Motor Make:	FRANKLIN	Contactor	Nema Heater
Casing Mat'l:	STEEL	Size:	6" S/N: 14019-03-06030A/326918902	-	-
From:	0	HP:	20	Res. to Grd.:	INFINITY
To:	61'	Volts:	230	Cable Size:	4/3
Screen Mat'l:	STEEL	Phase:	3	Pipe Set:	63'
From:	61'	2 Wire:		Pipe Size:	4"
To:	81'	3 Wire:	✓	Pipe Mat'l.:	GALV
Static:	8'	Amps		Pitless:	NO
S. Cap.	56	R	52	Mfg:	
Bldg Ht:	-	Y	52	Model #:	
Lgth Reach:	-	B	56	Well Seal Size	
Comments:		Ohms			
		R-Y	-	Lightning Arrestors:	
		Y-B	-	YES	
		R-B	-	IN MOTOR	

Electronic Flowmeter
 2" Valve
 4" Check Valve
 6" x 4" Reducer
 Well
 To Plant

Installed By: KELLER/WILLIAMS
 Date: 2/28/1998

DATE	JOB #:	WORK PERFORMED
2/1/1998	1847	#2 WELL REDEVELOPMENT - C. KELLER
2/28/1998	1847	NEW PUMP & MOTOR ON 4" GALV. PIPING, NEW 4/3 SUBCABLE & 1/2" POLY M-SCOPE INSTALLED C. KELLER
9/14/2002	3515	NEW PUMP & MOTOR ON NEW 4" GALV PIPE - NEW CHECK VALVE J. WALTERS
7/27/2004	4119	REPLACED SUB PUMP, MOTOR, WIRE KELLER
8/16/04	4119W	REPLACED MOTOR - BURNT UP - OUR FAULT KELLER
7/23/2010	5649	TROUBLESHOOT - VOLTAGE, AMPS, PUMP RATE OK - TRANSFORMER INSTALLED RIGHT BELOW STARTER - BUILDING HAS NO VENTILATION - OPENED HATCH SO AIR WILL KEEP STARTER FROM KICKING OUT MASTEN
7/8/2014	6658	REPLACED SUBMERSIBLE PUMP, MOTOR, WIRE, 4" DROP PIPE, CHECK VALVE AND WIRE

WELL #4

NAME: ALLEN-HARIM FOODS LOCATION: HARBESON, DE
 PHONE: 302-684-1640/EXT. 177 - JESSE REED JOB #: 961

Well No:	4	Pump Make:	GOULDS (COS=500 GPM @ 50 PSI)	Control Box			
Dia.:	10"	Model:	7CLC030 66ATS/3-STAGE S/N: 591633-10				
Depth:	87'	Motor Make:	FRANKLIN S/N: 115192206151A	Contactor	Nema	Heater	
Casing Mat'l:	STEEL	Size:	6"	SQUARE D	3		
From:	UNK	HP:	30	Res. to Grd.:	INFINITY	Tank Mfg.:	STEEL 2000 GAL
To:	UNK	Volts:	230	Cable Size:	6/3	What Size/Model #	
Screen Mat'l:	S.STEEL	Phase:	3	Pipe Set:	44'	Press. Sw. Make: MERCOID	
From:	UNK	2 Wire:		Pipe Size:	6"	Press. Sw. Size:	
To:	UNK	3 Wire:	✓	Pipe Mat'l.:	STEEL	Sketch	
Static:	-	Amps		Pitless:	NO		
S. Cap.	-	R	76	Mfg:			
Bldg Ht:	-	Y	75	Model #:			
Lgth Reach:	-	B	75				
Comments:		Ohms		GOULDS DISCHARGE			
		R-Y	.65	Lightning Arrestors:		Installed By:	McCREARY & WILLEY
		Y-B	.65			Date:	10/19/1994
		R-B	.65	IN MOTOR			

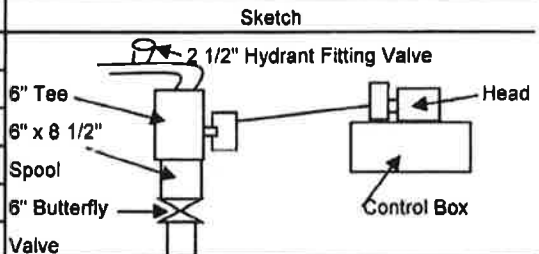
DATE	JOB #:	WORK PERFORMED
10/19/1994	961	INSTALLED PUMP - RAN TEST
9/21/1999	2495	REPLACED PUMP, MOTOR & WIRE
9/26/2003	3867	INSTALLED NEW PUMP & MOTOR & SUBCABLE - CHL WELL KELLER/WILLIAMS
10/13/2004	4125	REPLACED OLD 6" FLANGED CHECK VALVE W/NEW - PUT NEW 3/4" X 3-1/2" BOLTS & NUTS ABOVE W/(2) NEW 6" RING GASKETS MASTEN
9/13/2005	4440	REPLACED PUMP, MOTOR AND WIRE; CHANGED CHECK VALVE & 6" NIPPLE S. WILLEY
9/15/2005	4440	REPLACED MOTOR AND PIGTAIL; RAN OVERBOARD S. WILLEY
3/13/2012	6055	REPLACED MOTOR, WIRE, PUMP 21'-6" GALVANIZED PIPE; (1) 6" DUCTILE IRON CHECK VALVE; (2) 6" GALVANIZED NIPPLES T. HAFER

WELL #5

NAME: ALLEN-HARIM FOODS LOCATION: HARBESON, DE
 PHONE: 302-684-1640 JOB #: 2673


DATE CODE: 8/14 CLRA

Well No:	5	Pump Make: GOULDS (COS=400 GPM @ 50 PSI)	Control Box	Furnas Magnetic Starter		
Dia.:	10"	Model: 7CLC020 S/N: 4041668-001				
Depth:	102'	Motor Make: FRANKLIN	Contactor	Nema	Heater	
Casing Mat'l:	STEEL	Size: 6" S/N: 14J19-25-06030A	SQUARE D	3	CC94	
From:	HP:	20	Res. to Grd.:	INFINITY		
To:	Volts:	230	Cable Size:	4/3		
Screen Mat'l:	Phase:	3	Pipe Set:	63'		
From:	2 Wire:		Pipe Size:	3"		
To:	3 Wire:	✓	Pipe Mat'l.:	GALV		
Static:	12.27'	Amps	Pitless:	NO		
S. Cap.	R	50	Mfg:	6" Tee		
Bldg Ht:	10'	Y	52	6" x 8 1/2"		
Lgth Reach:	30'	B	50	FAIRBANKS MORSE		
Comments:	Ohms		6" X 6" POMONA	6" Butterfly		
	R-Y	.86	Lightning Arrestors:	Valve		
	Y-B	.86	YES	Installed By: WILLEY		
	R-B	.86	IN MOTOR	Date: 3/22/2000		



DATE	JOB #:	WORK PERFORMED
4/29/1993	548	PULLED & REPLACED MOTOR & WIRE. ALSO REPLACE DROP PIPE
4/8/1997	1571	INSTALLED NEW PUMP & MOTOR. 6" SWING CHECK LEAKS. RAN PUMP THROUGH 4 CYCLES. EVERYTHING OK McCREARY & ZITTINGER
3/22/2000	2673	REPLACED SUB PUMP & MOTOR - NEEDS NEW GALV PIPE NEXT SERVICE CALL Willey
2/2/2002	3240	CHANGED 3" PIPE W/NEW, CHANGED 6" BUTTERFLY VALVE
12/22/2005	4516	CHANGED PUMP & MOTOR; NEW WIRE; CLOSED WELL WILLEY
6/17/2011	5860	PULLED PUMP, REPLACED PUMP, MOTOR & WIRE - RESET & CHLORINATED WELL ELECTRICIAN FIXED DISCONNECT - RAN PUMP & BROUGHT CHLORINE THROUGH BLOWOFF MASTEN
2/27/2015	6798	PULLED PUMP; REPLACED PUMP, MOTOR, WIRE, CHECK VALVE, PIPE NIPPLE AND DROP PIPE; CHLORINATED WELL - BROUGHT CHLORINE THROUGH BLOWOFF; CHECKED ROTATION S. DRAPER

WELL #7

Name:	ALLEN-HARIM FOODS	Address:	HARBESON, DE	Date:	11/10/2005
Well No:	PW#7	Dia:	12"	Foot Valve:	N/A
Depth:	104'	Static:	15.00'	Suct. Dia:	N/A
Scr. Lgth:	25'	Slot:	.030	Lght:	N/A
GPM 525	PL: 17.59	S.Cap:	64.20	Inlet Case Size:	8" S-F STRAIGHT
Pump Make:	FLOWSERVE	Bowls Dia:	11-1/4"	No:	3
Serial No:	Q-P-26513-51	Outlet Case Size:	8"	S-F STRAIGHT	Shaft Dia:
Type & Size:	VTP 12"	Column Dia:	8"	No:	6
Curve No:	12H110-3	Column Thd:	STRAIGHT	No. 10' Shafts:	6
Cap:	1000	T.H. 162'	Short Column Lgth:	Pump Shaft Dia:	
Motor/RA Gear Make:	U.S. MOTORS (VHS)	Base Type:	1" FAB BASEPLATE-30" X 30"	Adapters:	STUFFING BOX
Serial No:	HO50V2BLG	Spiders #:	8" X 1-1/4" Spacing 10'	Bushings:	N/A
Frame No:	326TP	Oil Tube Dia:	N/A	No:	N/A
HP:	50	R.P.M. 1780	Oil Tube Dia:	N/A	Remarks:
Volts:230/460	Phase: 3	Cycle: 60	Oil Tube at Top:	N/A	AT THE TIME WE
Motor Bearing No:	BF50A	Outlet Case to Oil Tube Dist.:	N/A	INSTALLED THE PUMP, NO PIPING OR	BUILDING WAS INSTALLED. TOOK.
Upper:	7220-BEP	Oil Tube to Shaft Dist:	N/A		
Lower:	6211J	Sketch of Discharge Piping:			
Lgth. of Detector Tube:	63'				
CD Dimensions of Motor/RA Gear:	27-1/4"				
Rabbit Fit of Motor:	14-3/4"				
Motor Leads Play:	6"				
Bldg. Height:	N/A	Overhang to Well: 5'		E Dimensions of Head:	9"
ACS Job#:	4407			D Dimensions of Head:	12-1/2"
				Installed By:	MASTEN/BECKETT

DATE	JOB #	WORK PERFORMED
11/10/05	4467	INSTALLED NEW PUMP AND MOTOR. TOOK ROD CONNECTOR OFF ALONG WITH HEAD NUT AND KEY. BACK TO THE OFFICE. PUT BAGS OVER THE MOTOR AND DISCHARGE HEAD. MASTEN
10/22/2016	7178	REPLACED UNDERGROUND PIPING BELOW WELL HOUSE TO WATER MAIN (WORK PERFORMED BY ON-SITE CONSTRUCTION)

A.C. SCHULTES OF DELAWARE, INC.
P.O. BOX 188 - BRIDGEVILLE, DE 19933

PHONE: 302-337-8254
FAX: 302-337-8234

DRILLER'S LOG

CUSTOMER: ALLEN FAMILY FOODS **JOB #:** 4407
ADDRESS: P.O. BOX 63, HARBESON, DE **DATE:** 10/18/2005
LOCATION: HARBESON PLANT, HARBESON, DE

GROUND	FT FROM GROUND		WELL LOG
	2'	SURFACE 0 TO	
104'	CASING 79'	0-1'	TOPSOIL
		1-7'	FINE TAN SAND
		7-46'	FINE-MED WHITE SAND
		46-58'	MED COARSE ORANGE SAND
		58-77'	MED YELLOW SAND
		77-105'	COARSE WHITE/GRAY SAND & GRAVEL #3
T O T A L D E P T H	SCREEN 25'		

WELL NO:	PW#7	PUMPED WITH:	SUB TEST PUMP	SLOT SIZE:	.030
WELL DIAMETER:	12"	CASING DIAMETER:	12"	SCREEN DIAMETER:	12"
WELL DEPTH:	104'	CASING TYPE:	BL STEEL	SCREEN TYPE:	S. STEEL
STATIC LEVEL:	9.41'	CASING DEPTH:	79'	SCREEN LENGTH:	25'
PUMPING LEVEL:	17.59	GROUT TYPE:	CEMENT	GRAVEL SIZE:	#2
TEST CAPACITY:	525	GROUT DEPTH:	0-55'	GRAVEL DEPTH:	55-105'
SPEC. CAPACITY:	64.20	GROUT AMOUNT:	45 BAGS	GRAVEL AMOUNT:	4 SACKS
HRS PUMPED:	8	DRILLING RIG:	JED-A		

PERMIT #: 211079 **FOREMAN:** S. WILLEY **HELPER:** L. HORSEY