CHECK SHEET Short Change

(To be completed and attached to each application)

F	ile No. <u>23</u>	038		_	Fiel	d Office	e No. <u>4</u>		C	9MD No. ⊴	3		
	Is Lando	wner corre	t obtained fo ct as current e of Use Ove	ly shown	in WRIS1	? Ye	o □ es ⊠	Non Applica		Address	Change? <u>NO</u>		
Is Water Use Correspondent correct as cur Name of Former WUC						hown ir	n WRIS?	Yes ⊠ N	o 🗆				
	a. Point of diversion computer ID No(s) b. Show feet distances from the								changed.				
	Action	PDIV ID	Geo Ctr?	Sec	Тwр	Rng	'N	'W	Count	ty	Qualifiers		
	ENT			22	34	30	1474	5260	Mead	е	SWNWSW		
	DEL	28999											
	Old P d. Name	DIV ID	ge Basin cim	Rategpm _ gpm/cfs _ gpm/cfs _ arron river	Additi	onal Rat	te _ gpm _ m/cfs _ m/cfs _ Is t	Authorized (Quantity af af/mgy af/mgy y shown in	Addition	al Quantityafaf/mgyaf/mgy ☑ Yes □ No		
											onoquaptay siittiinim kukuluitaitailiidoo		
5.	Distances	s from the	original p/d:			154		'N	80	, v	٧		
6. WATER RIGHT ACTION TRAIL COMMENTS 5/15/17 6. / スマ/17				Change Change Notice a	Approvend Proc	ed of by <u>12/3</u>		·					
	/	/			Comple	tion Rec	quirement	Removed (Change No.	C)			
7.	<u>METER A</u>		AIL COMME	<u>NTS</u>	DWR M	eter Red	quired by	<u>12/31/17</u>					
8.	Base Acre	ase AcresYe			r		Mir	nimum Reaso	onable Quar	ntity			
							1	Date Created	6/13/17	by tpm			
							1	Date Entered	I	bv			

CHECK SHEET ATTACHMENT

File Number 23038

Changes to the place of use will be:

TOT	NE% NW% SW% SE% ACRES								
	SE14								
7.	SW1/4								,
SE14	NW%								
	NE%								
	NE% NW% SW% SE%								
SW%	SW%								
SV	NW%								
					on market				
	SE14								
NW%	SW%								
N	NW%								
	SE% NE% NW% SW% SE%								
	SE14								
NE%	NW% SW%								
Z									
***************************************	NE1/4			part of the second		Accessed to the second			
		Acres Authorized	New Acres	Acres Authorized	New Acres	Acres Authorized	New Acres	Acres Authorized	New Acres
	Sec. Twp. Range								
	Sec								
	Owner Place Use Person ID ID #								
	<u> </u>								
	Action	0							

a representative de la constantina della constan	Person ID #				
-	က <u>်</u>				
THE PROPERTY OF THE PROPERTY O	Person ID #	The second secon	A STATE OF THE STA	The state of the s	
	2.				
Names and Address:	Person ID #				
Name	·-				

Give to Applicant:

- a. Original application/approval
- b. Original receipt (one for each application)
- c. Information packet containing:
- Notice and Proof form
- Water Meter Specifications
 - Acceptable Meter list
- Water level measurement tube specifications
- Check Valve specifications
- Pink Sheet K.S.A. 82a-728 letter
- Form stating to record in Register of Deeds Office (OPTIONAL AS NEEDED)

GENERAL INSTRUCTIONS

- . Send to headquarters:
- a. Good, microfilmable copy of application and/or approval and this check sheet
- b. Original check and copy of receipt
 - c. Test hole log
- d. GMD recommendation, if any
- e. Map or aerial photograph, if any
- Send to KDHE: Letter (KDHE.LT) advising of location of abandoned well.

CONDITIONS

- . Insert notice and proof date.
- 2. Type or print applicant's/owner's name on line.
- Complete notary statement.

. Date stamp received and approved.	. Complete ownership and WUC change information	ADDITIONAL PHOTOCOPIES	The state of the s				
4,	5	<u>A</u>	ļ	ŀ			-



Garden City Field Office 2508 Johns Street Garden City, Kansas 67846-2804

Jackie McClaskey, Secretary David W. Barfield, Chief Engineer Michael A. Meyer, Water Commissioner Phone: (620) 276-2901 Fax: (620) 276-9315 www.agriculture.ks.gov

Sam Brownback, Governor

June 22, 2017

HARDEN FARMS INC P O BOX 458 OGDEN KS 66517

> RE: Change in Point of Diversion Water Right, File No 23038 & 42042

Dear Mr. Harden;

Enclosed you will find a Summary Order Approving Application for Change in Point of Diversion for the above referenced file. This order modifies the authorized well location under the referenced file. This order modifies the original document; it should be recorded at the County Register of Deeds.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in this order. The diversion works should be completed and reported to the Division of Water Resources by December 31, 2017. Enclosed is a form for this purpose, along with other information for reference.

A condition of this order is that an acceptable flow meter must be properly installed on the diversion works authorized under the referenced file number in accordance with the Kansas Administrative Regulations 5-1-4 through 5-1-12. This water flow meter shall be used to provide information required on the annual water use report.

This order shall become final if a request for a hearing is not filed with the Chief Engineer within 15 days of the date of service of this order. The date of service is the date listed on the enclosed Certificate of Service.

Should you have any questions, please feel free to call this office. If you would prefer, you could arrange an appointment for additional assistance.

Sincerely,

Thomas P. Makens

Assistant Water Commissioner

TPM:tpm Enclosures GMD#3

CERTIFICATE OF SERVICE

On this day of June 2017, I hereby certify that the attached original Approval of Application to Change the Point of Diversion under Water Right, File No. 23038 & 42042 dated June 22, 2017 was mailed postage prepaid, first class, US mail to the following:

HARDEN FARMS INC P O BOX 458 OGDEN KS 66517

Copy provided to GMD#3

Division of Water Resources

Submit completed application to: Kansas Department of Agriculture Division of Water Resources Field Office for your area. Call for address:

Topeka -- (785) 296-5733 Stafford -- (620) 234-5311 Stockton -- (785) 425-6787 Garden City -- (620) 276-2901 http://agriculture.ks.gov/dwr

DWR FIELD OFFICE APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF **USE AND/OR THE** POINT OF DIVERSION



STATE OF KANSAS

Filing Fee Must Accompany the Application, K.S.A. 82a-708b(b), as amended. Fee Schedule is on the third page of this application form.

Paragraph Nos. 1, 2, 3 & 5 must be completed. Complete all other applicable portions. If change in point of diversion is greater than 100 feet, or if place of use will be changed, include a topographic map or detailed plat showing the authorized and proposed point(s) of diversion and/or place of use. WATER RESOURCES RECEIVED File No. 23038 MAY 1 5 2017 9:40 AM 1. Application is hereby made for approval of the Chief Engineer to change the (check one or both): KS DEPT OF AGRICULTURE ☐ Place of Use □ Point of Diversion LITTOUR. under the water right which is the subject of this application in accordance with the conditions described below. The source of supply is: □ Groundwater ☐ Surface water 2. Name and address of Applicant: HARDEN FARMS INC % DEAN HARDEN 28120 5 RD PLAINS KS 67869-9128 PO BOX 458 ODGON ICS 66517 # Phone Number: () Email address: Name and address of Water Use Correspondent: <u>HARDEN FARMS INC</u> % <u>DEAN HARDEN</u> 28120-5-RD--PLAINS-KS-67869-9128- SANGE AS ACOULY Phone Number: (_____) Email address: The presently authorized place of use is: Owner of Land --- NAME: HARDEN FARMS INC % DEAN HARDEN ADDRESS: 28120 5 RD PLAINS KS 67869-9128 AS ILBOVE (If there is more than one landowner, attach supplemental sheets as necessary,) NE% NW% SW1/4 SE% TOTAL **ACRES** Sec. Twp. Range NE% NW% SW% SE% NE% NW% SE% NE% NW% SE% NE% NW% SE% NE% NW% SE% SE% 4. If this application is for a change in place of use, it is proposed that the place of use be changed to: Owner of Land ---- NAME: no change to acres irrigated ADDRESS: (If there is more than one landowner, attach supplemental sheets as necessary.) SW% SE% TOTAL ACRES Twp. Range NE% NW% SW% SE% NE' NW' SW' SE' NE% NW% SW% SE% NE% NW14 SW14 SE14 For Office Use Only: Code CLT Fee \$ 100.00 TR # Receipt Date 5/15/17 Check # 1239 + LDIDWN 5/15/17 FILMI DIAN Page 1

SCANNED

5.	Presently authorized point of diversion:				
Ĩ.	One in the Quarter of the	cw	Quarter of the	sw	Quarter
	of Section 22 , Township	34	South, Range	30	W,
	in Meade County, Kansas, 1320	_ feet North	5180 feet West of S	outheast corne	er of section.
	Authorized Rate Authorized Quantity _				
	(DWR use only: Computer ID No. 1 GP	s	feet North	feet We	est)
	☐ This point will not be changed ☐ This point will	l be changed	ł as follows:		
ł	Proposed point of diversion: (Complete only if change	<u>je is request</u>	<u>(ed)</u>		
	One in the Quarter of the	nw	Quarter of the	sw	Quarter
1	of Section 22, Township	34	South, Range	30	W,
	in Meade County, Kansas, 1474	_ feet North .	5260 feet West of S	outheast corne	er of section.
	Proposed Rate Proposed Quantity _				
Ĺ	This point is: Additional Well Geo Center List o	ther water rig	hts that will use this point _		<u></u>
Г		·			
6.	Presently authorized point of diversion:		Quarter of the		Ougston
	One in the Quarter of the of Section, Township		Quarter of the		Quarter
	in County, Kansas,	foot North	South, range	outhoast corne	r of cootion
	Authorized Rate Authorized Quantity	_ 166(110)(1)	Denth of well	outrieast corne	of)
	(DWR use only: Computer ID No GP	S	feet North	feet W	est)
	☐ This point will not be changed ☐ This point will	l he changed	as follows:	100(11)	-51,
	Proposed point of diversion: (Complete only if change				
-	One in the Quarter of the				Quarter
	of Section, Township		South Range		(EAA/)
	in County, Kansas,	feet North	feet West of S	outheast corne	er of section.
	Proposed Rate Proposed Quantity _				
	This point is: Additional Well Geo Center List of				
_ '		120 If	the proposed point of diversi	on will be relea	otod within 100
7.	Why do you need a new point of diversion?	fee	et of the existing point of div	ersion, indicate	e its location on
	Old well needs to be replaced	the	e diagram below in relation to LEASE NOTE: The "X"	o the existing po in center of a	oint of diversion. diagram, below
		re	presents presently authorize	zed point of di	version.)
			Nort	h	
8.	If a well, is the test hole log attached? ⊠ Yes ☐ No		100 50 0	50 1	100
			<u> </u>		
9.	When do you propose to complete the new point	of		_	_
	diversion?		50 - + -	+ -	1 50
	June 1, 2017			-	
10	If the point of diversion is a well:			. .	_
10.	(a) What are you going to do with the old well?	/	Vest 0	1	d East
	(a) What are you going to do with the old won:			-	
	plug		50 = + =		d ₅₀
				· -	700
	(b) When will this be done? 2017		F , =		7
]
11.	Groundwater Management District recommendate	ion	100 50 0 Sou	<u>"</u> 50 ′	100
	attached? 🗌 Yes 🔯 No		Scale: 1	" = 100'	
40	Assisted by tpm	13b. If	the proposed point of divers	ion will be relo	cated more than
12.	Assisted by tpm	di.	00 feet but within 1320 fe version, attach a topograph	nic man or ae	rial photograph
		Fo	or groundwater sources, sho	w all wells (incl	luding domestic
		Wi	or groundwater sources, sho lithin one-half mile of the prop ames and mailing addresse	oosed point of d s of the owner	liversion and the
		W	ater sources, show the n	ames and ad	dresses of the
		la ur	ndowner(s) one-half mile o ostream from your property li	iownstream an nes.	a one-halt mile
		~1	· · · · · · · · · · · · · · · · · · ·		

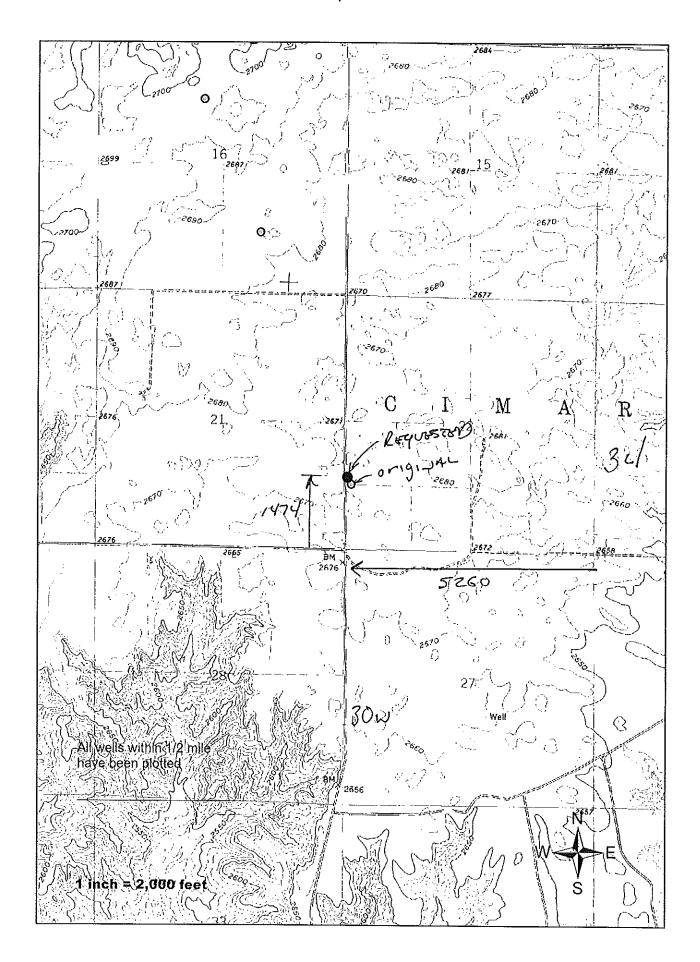
14. If the proposed groundwater point of divers	ion is 300 or fewer feet from e	xisting point of diversion, c	omplete the following:
(a) Does the undersigned represent all ow ☑ Yes ☐ No (If no, all ow	vners of the currently authorize wners must sign this application	d place(s) of use identified n.)	in this application?
(b) Will the ownership interest of any own affected if this application is approved ☐ Yes ☐ No (If yes, all o	ner of the currently authorized as requested? owners must sign this application		in this application be adversely
(c) If this application is not approved expe	ditiously, will there be substan wners must sign this application	lial damage to property, pu า.)	blic health or safety?
If the application proposes a surface water char or a change in place of use, the application mus agent (attach notarized statement authorizing re	st be signed by all owners of th	undwater change in point o e currently authorized plac	f diversion greater than 300 feet, se of use, or their duly authorized
I hereby verify, being first duly sworn up age and the owner, the spouse of the ov their behalf, in regard to the water right contained in this application are true, co	vner, or a duly authorized t(s) to which this applicat	agent of the owner(s)	to make this application on
Dated at	Kansas this	day of	, 20
× Dlay Harrey (Owner)	, rances, this		
(Owner)		(Spot	use)
(Please Print)		(Please	Print)
(Owner)	<u></u>	(Spot	use)
(Please Print)		(Please	Print)
(Owner)		(Spot	use)
(Please Print)		(Please	Print)
State of Kansas County of Rile,	i		
hereby certify that the foregoing applica	ation was signed in my pre	sence and sworn to be	fore me this $\frac{2q}{}$ day of
My Commission Expires 3/17/202		NOTAR)	W Parra (PUBLIC)
My Commission Expires	•	My Appt Exp.	PHIBLIGAS
ONLY COMPLETE APPLICATIONS WILL BE PROCE accurate information; maps, if necessary, must be included the appropriate fee must be paid.	<u>SSED</u> . To be complete, all of the uded; signatures of all the appropr	applicable portions of the app iate owners' must be affixed to	lication form must be completed with the application and notarized; and
	FEE SCHEDULE		
Each application to change the place of use or the forth in the schedule below: Make checks payate (1) Application to change a point of diversity (2) Application to change a point of diversity (3) Application to change the place of under the	he point of diversion under this ole to: Kansas Department of ersion 300 feet or less	Agriculture	\$100 \$200
	V	VATER RESOURCES RECEIVED	
DWR 1-121 (Revised 06/16/2014)	Page 3	MAY 1 5 2017	File No.

KS DEPT OF AGRICULTURE

SCANNED

SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS

pro\ K.A term	risions of the <i>Kansas Water Appropriation Law, K.S.A. 82a-70</i> .R. 5-1-1 <i>et.seq.</i> With the exception of those conditions expresses, conditions and limitations of File No. <u>23038</u>	708b, as amended, and K.A.R. 5-14-3 and other applicable of et. seq., and rules and regulations promulgated thereunder, ssly contained herein, this Summary Order does not change the
	diversion authorized under the above-referenced file number of	
	on the topographic map accompanying the application to chan	
	previously authorized. The point of diversion authorized by the radius of the authorized point(s) of diversion.	
	authorized point(s) of diversion.	
5.	tube or other device sultable for making water level measuren with K.A.R. 5-6-13. ☐ Applicable ☐ Not Applicable	well with a diversion rate of 100 gallons per minute or more, a nents shall be installed, operated and maintained in accordance
6.	operated and maintained in accordance with K.A.R. 5-1-4 three K.A.R. 5-3-5e, the owner shall maintain records and report the diverted annually to the Chief Engineer by March 1 following the Applicable \(\Bar\) Not Applicable	
7.	authorized extension of time. By March 1, 20 <u>18</u> the apworks for diversion has been completed, on the form provided Applicable Not Applicable	
	The completed well log shall be submitted with the requir	
9.	with an in-line, automatic, quick-closing check valve capable check valve(s) shall be installed, operated and maintained in	reign substance will be injected into the water shall be equipped of preventing pollution of the source of the water supply. The accordance with K.A.R. 5-3-5c. ☑ Applicable ☐ Not Applicable
	Additional Conditions are attached.	
11.	water appropriated under the above-referenced file number limitations, as amended and/or supplemented by this Summ	
	Administrative Appeal and Effective Date of Order	FOR OFFICE USE ONLY APPLICATION APPROVED AND
Yo	u have the right to a hearing in accordance with K.A.R. 5-14-3	SUMMARY ORDER ISSUED
De	fore this Summary Order becomes final action of the Kansas partment of Agriculture. Any request for a hearing must be	11
file	d with the Chief Engineer, Division of Water Resources, nsas Department of Agriculture, 1320 Research Park	Ву:
Dri	ive, Topeka, Kansas 66502, within 15 days after the date own on the Certificate of Service attached hereto. If a hearing	Duly Authorized Designee of the Chief Engineer
is r	not requested in accordance with K.A.R. 5-14-3, this Summary der will become effective on the 15th day after the date shown	(Print Name): THOMAS P. MAKENS Division of Water Resources - Kansas Department of Agriculture
on	the Certificate of Service.	Date of Issuance: JUNE 72, 2017
	For Use by Register of Deeds	State of Kansas)
		County of <u>Finney</u>) SS
		Acknowledged before me on Qune 22, 2017
		by Thomas P. Makins.
		Signature:
		Notary Public
		JULIE JONES Note of the state
		My commission expires: (Notary Seal)



23,038 + 42,042

DATE: 4/13/2017

WELL LOG

Downey Dritting Inc.
LEXINGTON, HE

CUSTOMER NAME: HARDEN FARMS, INC.		

CUSTOMER NAME: HARDEN FARMS, INC.

LEGAL: SW 22-345-30W

GPS: 37 04' 20.262" N

-100 34' 44.814" W

WATER RESOURCES DRILLER: TOM / NORMAN WO#: 17-19

		<u> </u>	VATER RESOURCES DRILLER:	i .	1 :		WO#:	17-190
w	FROM	то	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	8	SANDY SILT MAY 2:5 2017					
	8	11	SILT WITH SAND					P-004444
	11 SILT WITH SAND KG DEPT OF AGRICULTURE 11 28 SILT, MAG, AND SAND							
	28	36	CLAY		GRAY			***************************************
_	36	47	CLAY WITH SILT		BROWN			
	47	49	SILT AND MEDIUM SAND					***************************************
	49	51	SANDY CLAY		BROWN	······································		
	51	77	CLAY AND SANDY CLAY		BROWN / SOME GRAY			
	77	78	FINE-TRACE OF MEDIUM GRAVEL LENSE					
	78	112	CLAY WITH MAG STRINGERS					
	112	119	VERY VERY COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL					
	119	126	CLAY AND SANDY CLAY				<u> </u>	
	126	149	CLAY, SANDY CLAY WITH VERY THIN MEDIUM-VERY COARSE SAND LENSE, AND A TRACE OF MAG					
	149	157	FINE-MEDIUM GRAVEL WITH SANDY CLAY LENSES					7.114.1.
	157	162	SANDY CLAY					
	162	177	MEDIUM COARSE-TRAVE OF VERY COARSE SAND					
	177	194	COARSE-VERY VERY COARSE SAND					CHATTER
	194	194.5	CEMENTED SAND	,	:			
	194.5	220	COARSE-VERY VERY COARSE SAND					NO CHATTER
	220	240	COARSE-VERY VERY COARSE SAND AND FINE GRAVEL					FAST CHATTER
	240	293	COARSE-VERY VERY COARSE SAND AND FINE GRAVEL			•		FAST CHATTER
	293	296	CLAY		GRAY			
22.75	296	302	MEDIUM-COARSE-VERY COARSE SAND		GRAT		<u> </u>	
	302	304	CLAY		ppowel			
57	304	311	MEDIUM-COARSE-VERY COARSE SAND		BROWN			
		322			DILLE	·····		CHATTER
St.	311	parameter as	CLAY WEDNIN COARSE VERY COARSE CAND		BLUE		-	FAST CHATTER
28.	25 William (1997)	340	MEDIUM-COARSE-VERY COARSE SAND MEDIUM-COARSE-VERY COARSE SAND AND A TRACE OF FINE GRAVEL @ 353, 357	A. L. Va	TAN		1900	FAST CHATTER
	340	362	COARSE-VERY VERY COARSE SAND AND FINE-TRACE OF MEDIUM	A Commence of the	TAN TAN /			FAST CHATTER FAST / GOOD
	362	382	GRAVEL VERY VERY COARSE SAND AND FINE GRAVEL WITH A CEMENTED LAYER		REDDISH			CHATTER
	382	402	(@393 FIRM F/3") VERY VERY COARSE SAND, FINE GRAVEL, WITH A VERY THIN CEMENTED	;			NO	
_	402	421	SAND LENSE @ 417	-			NO	
	421	422	CEMENTED SAND MEDIUM-COARSE SAND AND VERY VERY COARSE SAND WITH VERY THIN				NO	
~~~	422	442	CEMENTED LENSES				NO	···
_	4420	462	COARSE-VERY VERY COARSE SAND AND A TRACE OF FINE GRAVEL					
	462	482	COARSE-VERY VERY COARSE SAND AND FINE-MEDIUM GRAVEL	i				

τw	FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	PD	OTHER / DRILLING ACTION
	482	502	COARSE-VERY VERY SAND WITH A TRACE OF FINE GRAVEL					
		522	VERY COARSE-VERY VERY COARSE SAND WITH FINE GRAVEL COARSE-VERY COARSE-VERY COARSE SAND, TRACE OF FINE					
		AUGUSTON (C.C.)	COARSE-VERY COARSE-VERY VERY COARSE SAND, TRACE OF FINE GRAVEL, AND A TRACE OF VERY THIN SILT LENSES FROM 535-542 COARSE-VERY VERY COARSE SAND WITH A FEW VERY THIN SHALE					
	5000000	562	COARSE-VERY VERY COARSE SAND WITH A FEW VERY THIN SHALE LENSES					
		582						
		602	VERY VERY COARSE SAND AND FINE-MEDIUM GRAVEL VERY COARSE-VORY VERY COARSE SAND WITH A TRACE OF FINE GRAVEL AND A FEW SHALE CLAY LENSES					
	602	612	FINE-MEDIUM SAND					
	612	622	FINE SAND WITH SHALE AND CLAY					
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#### HARDEN FARMS, INC

COMPANY

: DOWNEY DRILLING INC.

WELL

: HARDEN FARMS, INC

LOCATION/FIELD COUNTY

: MEADE

LOCATION

: NW/SW

SECTION

: 22

TOWNSHIP

: 348

OTHER SERVICES:

RANGE: 30W

: 04/13/17

PERMANENT DATUM : GL

ΚB

TH DRILLER

: 622

LOG MEASURED FROM: GL

DF

TÔG TOP

1.00

DRL MEASURED FROM: GL

CASING DIAMETER: 10.

LOGGING UNIT

: 1319

CASING TYPE

FIELD OFFICE

: DDI WELL SE

CASING THICKNESS:

RECORDED BY

: TOM

BIT SIZE

: 6.25

BOREHOLE FLUID

: MUD

FILE : ORIGINAL

MAGNETIC DECL. ; 0

RM

TYPE : 8144C

MATRIX DENSITY : 2.71

RM TEMPERATURE

LGDATE: 04/13/17 LGTIME: 16:09:

**NEUTRON MATRIX**: LIMESTONE

MATRIX DELTA T

: 49

THIRESH: 199999URCES

RECEIVED

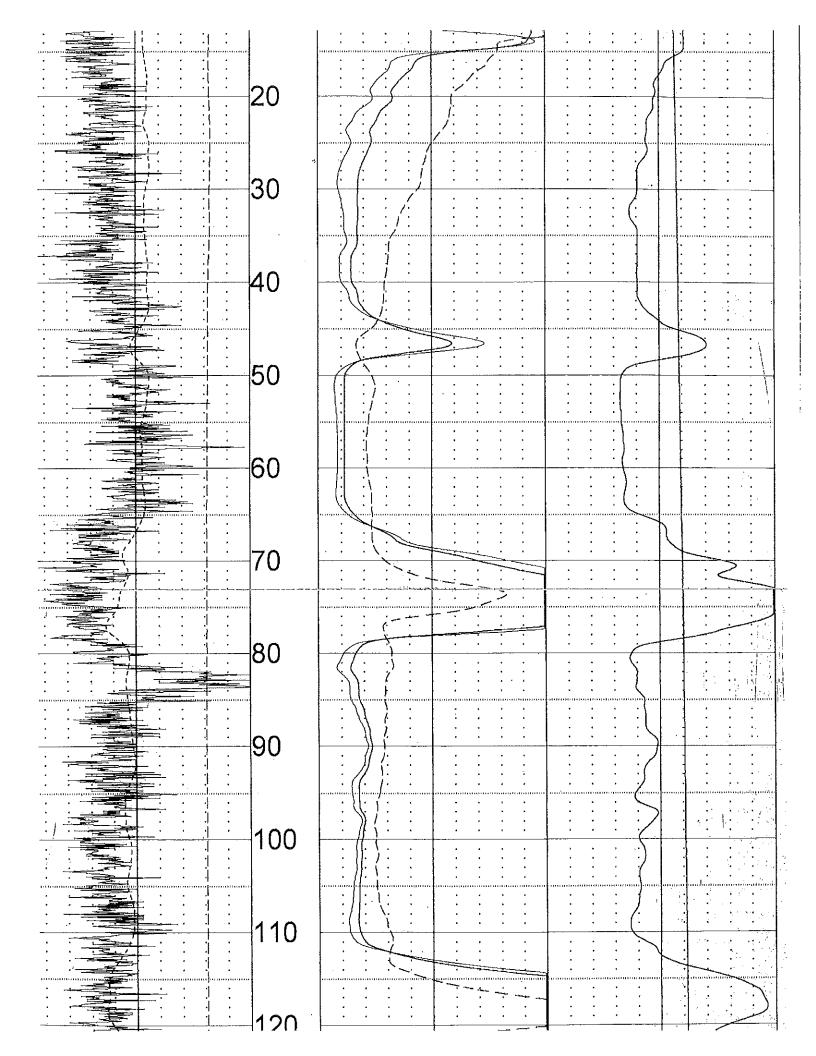
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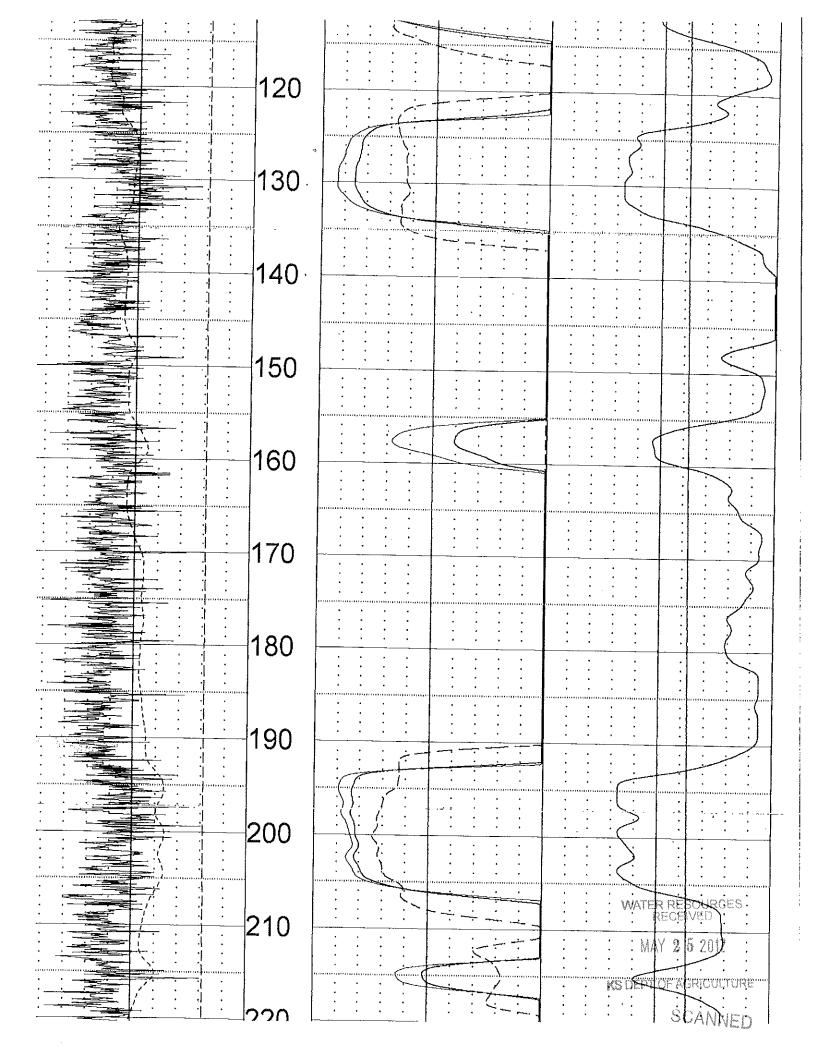
W 100 34 44,814

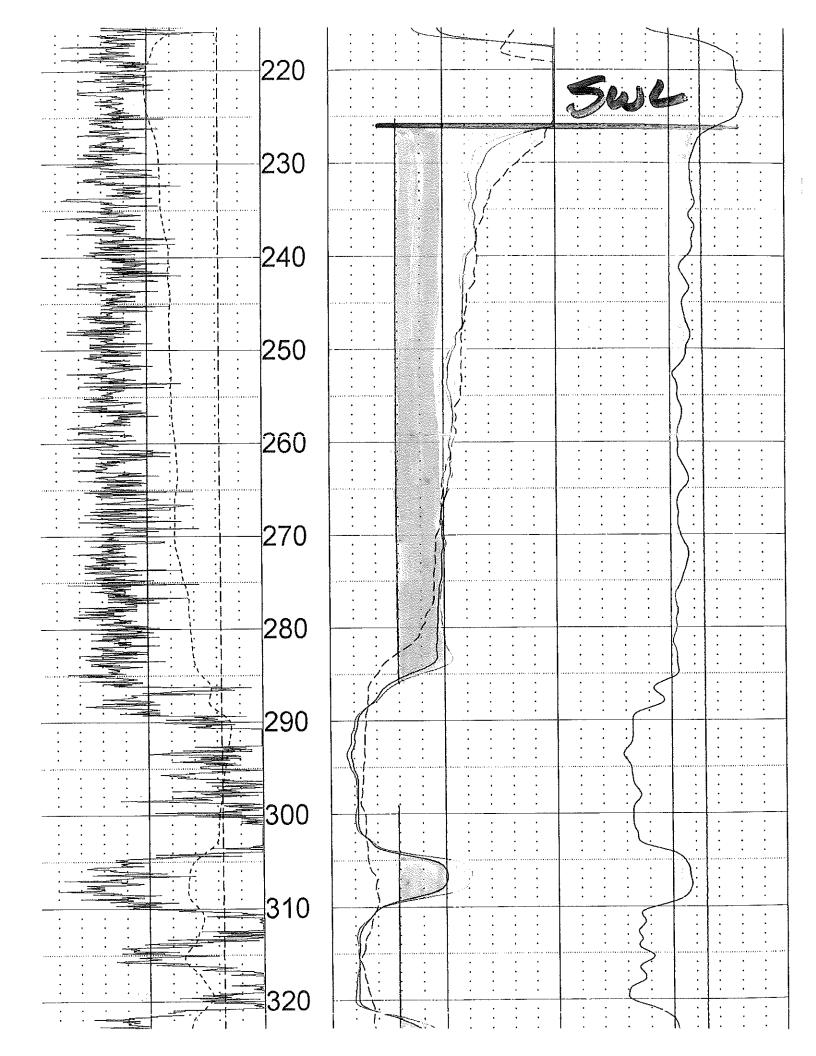
MAY 2.5 2017

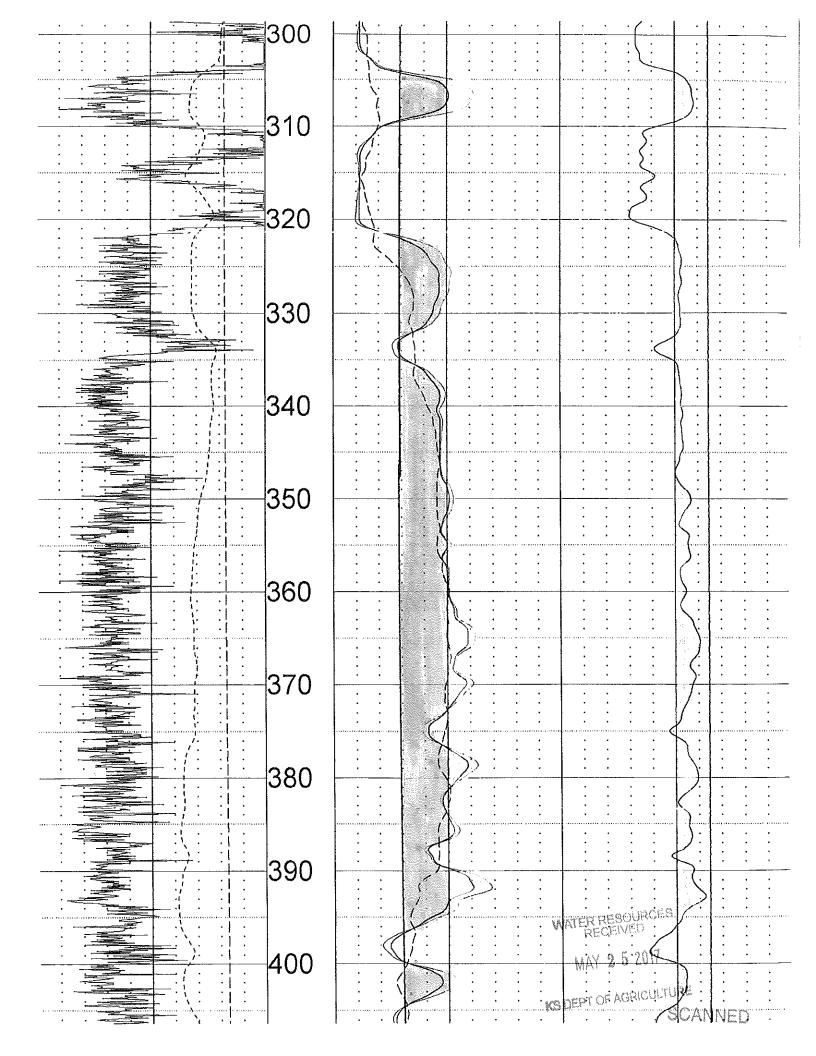
KS DEPT OF AGRICULTURE ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

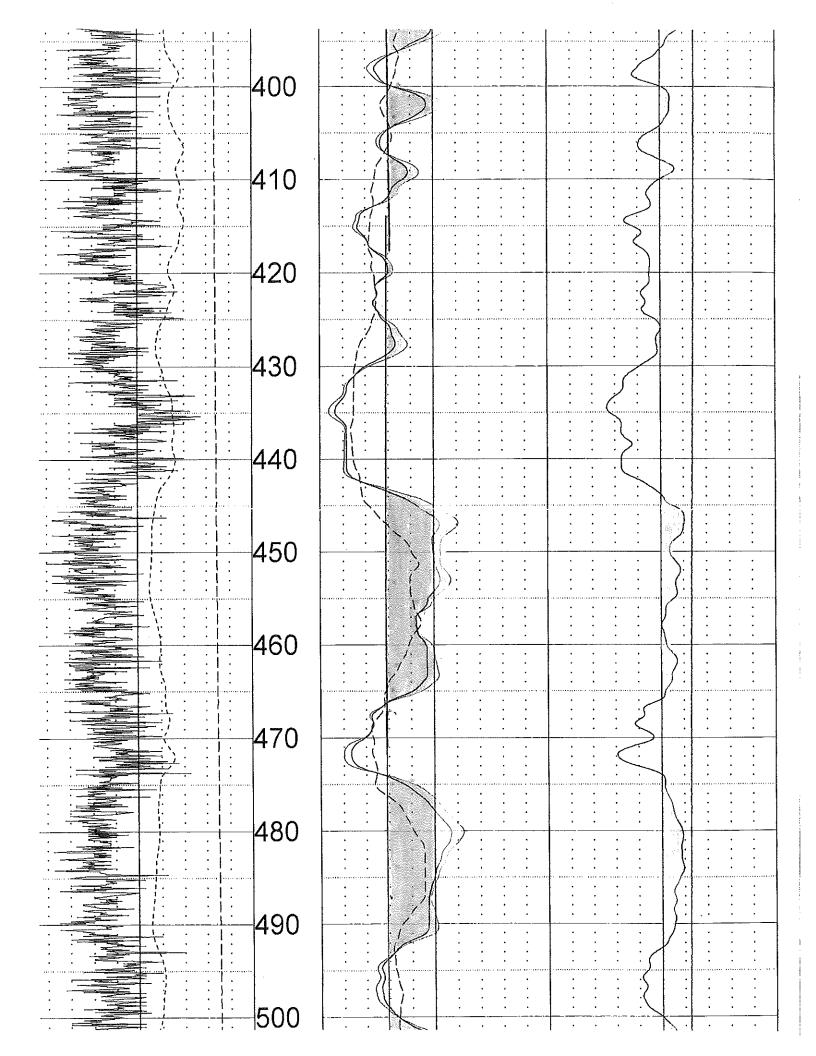
L	RES(FL) FEET LATERAL		LATERAL		
5 OHM-M		10	0	OHM-M 100	- )
SP				RES(64N)	TEMP
-50	MV	50	0	OHM-M 100	60 DEG_F
	GAMMA			RES(16N)	RES
0	CPS	200	0	OHM-M 100	0 OHM
		Name			
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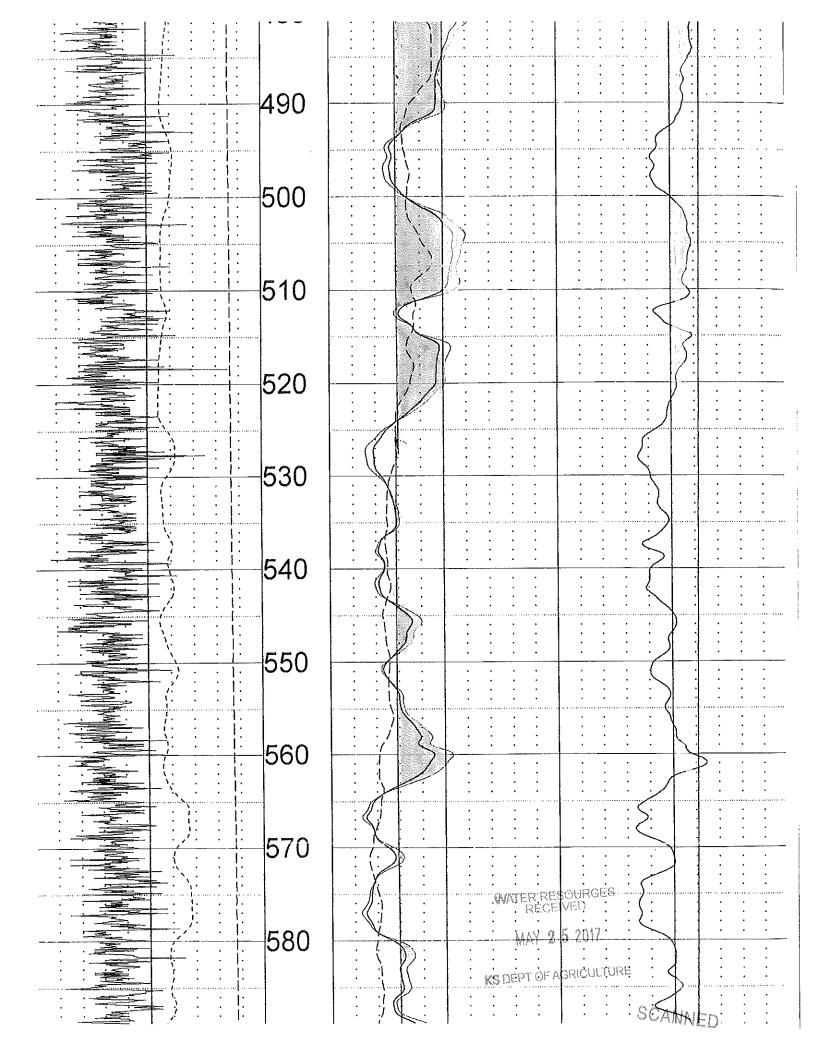


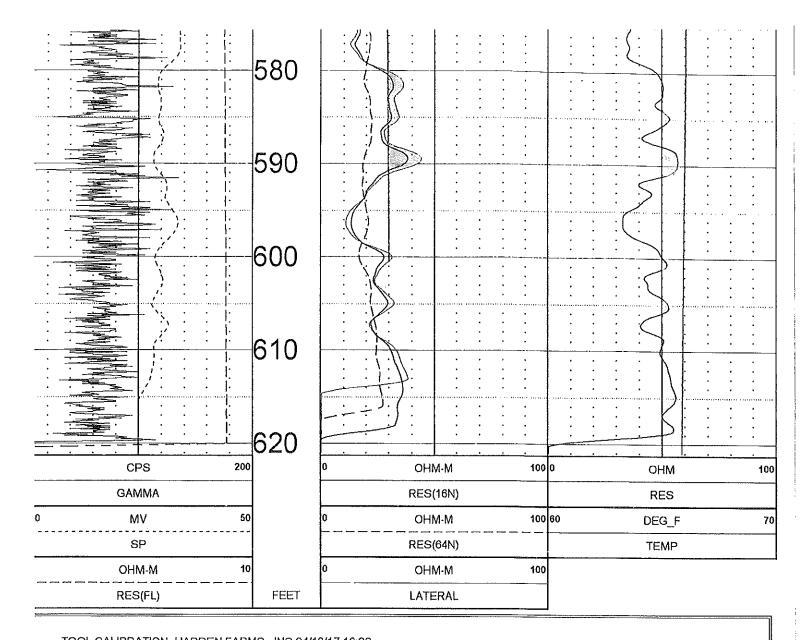












			RMS, INC 04/13/17 16:	:09			
	TOOL 8144C	TM VERSION 1					
	SERIAL NUME	3ER 365					
	DATE	TIME	SENSOR	ST	ANDARD	RES	PONSE
1	Jan10,14	13:17:55	GAMMA	1.000	[API-GR]	0.000	[CPS]
	Jan10,14	13:17:55	GAMMA	340.000	[API-GR ]	340.000	[CPS]
2	Jan10,14	13:53:52	RES(FL)	1.180	[OHM-M ]	7605.000	[CPS]
	Jan10,14	13:53:52	RES(FL)	47.800	(OHM-M	86860,000	[CPS]
3	Jan10,14	13:23:06	SP	0.000	(MV ]	327430,000	[CPS]
	Jan10,14	13:23:06	SP	329.000	(MV ]	166303,000	[CPS]
4	Jan10,14	13:23:15	RES(16N)	0.000	[OHM-M ]	5155,000	[CPS]
	Jan10,14	13:23:15	RES(16N)	1955.540	[OHM-M ]	427616.000	[CPS]
5	Jan10,14	13:24:02	RES(64N)	0.000	[OHM-M ]	5380.000	[CPS]
	Jan10,14	13:24:02	RES(64N)	1987.740	[OHM-M ]	415091.000	[CPS]
6	Jan10,14	13:37:52	TEMP	33,500	[DEG_F ]	69400.000	(CPS)
	Jan10,14	13:37:52	TEMP	116.000	[DEG_F ]	322100.000	(CPS)
7	Jan10,14	13:23:47	RES	0.000	[OHM ]	5290,000	(CPS)
	Jan10,14	13:23:47	RES	945.000	(OHM )	164465.000	(CPS)



## Well Design & Construction



Customer Name:	HARDEN THE	rms INC.	
Legal: <u>Nw/3w タ</u> G.P.S.: 37 か	12-345-30W	County: MEANE.	
-100 34	1 20,262	WO #:	
	1-1-0-1	•	
DRILLER: HELPER(S):		WATER SUPPLY:	·
BOREHOLE DIAMETER:	30"	DRILLING METHOD: バスC	
CASING DIAMETER:	16"	QUIKGEL: TBD HOLE PLUG:	
TOTAL WELL DEPTH:  DRILLING FLUID:	SHOFT BD GRAVEI	GRAVEL: #1 COARSE L SUPPLIER: HUBER #1 COAS	
ADDITIONAL INFO:	SWL-		X1.37
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11115			
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	SUND	CIASING,	
			540 FT

		•	





#### Ag Testing - Consulting

Account No.: 41160

Water Analysis Report

DOWNEY DRILLING

**PO BOX 278** 

LEXINGTON

NE 68850-0278

Invoice No.:

1233298

Date Received:

04/18/2017

Date Reported:

04/19/2017

Lab Number:

3195

Results For: HARDEN FARMS Location: MEADE CO. KS Sample ID: NW/SW 22-345-30W

рН	7.8
Sodium Adsorption Ratio (SAR)	1.2
Adjusted SAR	1.3
Total Dissolved Solids (TDS) Est, ppm	353
Electrical Conductivity, mmho/cm	0.59
Cations / Anions, me/L	6.6 / 5.8

0.07 0.0	
ppm	lbs / Aere 9 inch
41	82
4	8
59	118
21	42
235	470
1.4	2.8
37	74
10	20
< 1.0	< 2
192	384
159	316
0.12	0.24
	ppm  41 4 59 21 235 1.4 37 10 <1.0 192 159

"<" - Not Detected / Below Detection Limit

WATER RESOURCES RECEIVED

MAY 2 5 2017

KS DEPT OF AGRICULTURE

Reviewed By: Raymond Ward Bus: 308-234-2418

Fax: 308-234-1940

web site www.wardlab.com

4/19/2017

Copy: 1 Page 1 of 1 4007 Cherry Ave., P.O. Box 788 Kearney, Nebraska 68848-0788



Garden City Field Office 2508 Johns Street Garden City, Kansas 67846-2804

Jackie McClaskey, Secretary David W. Barfield, Chief Engineer Michael A. Meyer, Water Commissioner

Fax: (620) 276-9315 www.agriculture.ks.gov

Phone: (620) 276-2901

Sam Brownback, Governor

June 8, 2017

Southwest Kansas Groundwater Management District No 3 409 Campus Drive, Suite 106 Garden City KS 67846

Re: Water Right file number 23038, 42042

Dear Mr. Norquest;

Harden Farms has applied to relocate the well authorized by the above water right number. This is less than a 300 ft move but within the high chloride area.

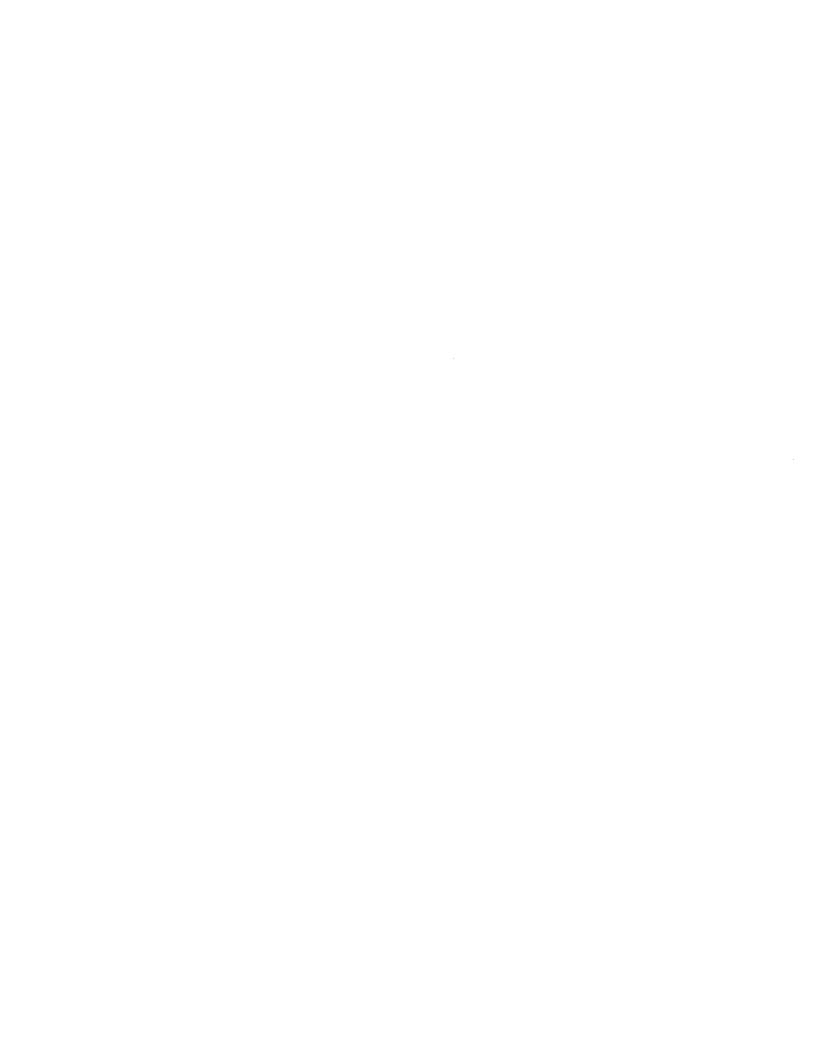
We are delaying action for 15 days on the change application to allow you time to review and provide a recommendation if you feel one is warranted.

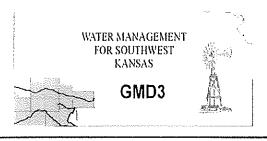
Thank you and as always feel free to call or write us at any time.

Sincerely;

Thomas P Makens

TPM:tpm enc





#### Southwest Kansas Groundwater Management District No. 3 2009 E. Spruce Street

Garden City, Kansas 67846 (620) 275-7147 phone (620) 275-1431 fax www.gmd3.org

June 8, 2017

Thomas P. Makens Division of Water Resources 2508 N Johns Street Garden City, Kansas 67846 RECEIVED

JUN 0 8 2017

Gardon City Field Office Division of Water Resources

RE: Application for Change in Point of Diversion

Water Right, File No. 23038 & 42042

Dear Thomas:

We have completed a review of the application for the above referenced water right. The proposal is not in conflict with the Management Program of the Southwest Kansas Groundwater Management District No. 3 (GMD3). The proposed distance moved and spacing to neighboring wells is met in accordance with K.A.R. 5-23-3. The log provided seems to satisfy K.A.R. 5-23-4, dealing with the Chloride area this well is in. It is therefore recommended that the application be approved at this time.

Thank you for the opportunity to review the applications and to provide a recommendation. If you have any questions, please don't hesitate to contact us.

Sincerely,

Jason L. Norquest Assistant Manager

23038 & 42042; Harden Farms

GND GIS Workshop, U.C.

#### **GMD3** Change Review

Change Application(s); PD

File No(s). 23038 & 42042; Harden

See attached map

•	ft. North	ft. West	
Authorized PD	1320	5180	Sect. 22-34-30
Proposed PD	1474	5260	
Difference	-154 N	-80 W	
a2 + b2 = c2	23716	6400	173.5396 foot move NW

RECEIVED

JUN 08 2017

Garden City Field Office Division of Water Resources

Neighboring wells: Spacing MET, see WRIS report

Domestic wells: None found in the area Regulation(s) Reviewed: KAR 5-23-3 † 5 23 45 Chloride 1

Board Review Date: NA Board Recommendation: NA

Waiver Reason: NA

Final Recommendation: Water quality data was submitted and it appears the move meets

the rules for the area. Staff therefore recommends approval of the application.

Water Rights and Points of Diversion Within 1.00 miles of point defined as: 1474 ft N and 5260 ft W of the SE Corner of Section 22, T 34S, R 30W Located at: 100.578683 West Longitude and 37.072270 North Latitude GROUNDWATER ONLY File Number Use ST SR Dist (ft) Q4 Q3 Q2 Q1 FeetN FeetW Sec Twp Rng ID Batt Auth_Quan Add_Quan Unit 23038 00 IRR NK G* 169 -- -- CW SW 1320 5180 22 34 30W 1 282.00 A__ 42042 00 IRR NK G* 169 -- -- CW SW 1320 5180 22 34 30W 1 206.00 206.00 AF Total Net Quantities Authorized: Direct Storage .00 .00 Total Requested Amount (AF) -.00 Total Permitted Amount (AF) = .00 .00 Total Inspected Amount (AF) -.00 Total Pro_Cert Amount (AF) = .00 .00 488.00 .00 Total Certified Amount (AF) = Total Vested Amount (AF) = .00 .00 (AF) = 488.00 .00 TOTAL AMOUNT An * after the source of supply indicates a pending application for change for the file number. An * after the ID indicates a 15 AF exemption was granted for the file number. A "G" in the Batt column indicates the GEO CTR of a battery. A "B" indicates a well in the battery. The number in the Batt column is the number of wells in the battery. Water Rights and Points of Diversion Within 1.00 miles of point defined as: 100.578683 West Longitude and 37.072270 North Latitude GROUNDWATER ONLY WATER USE CORRESPONDENTS: Use ST SR File Number A__ 23038 00 IRR NK G HARDEN FARMS INC > % DEAN HARDEN > 28120 5 RD > PLAINS KS 67869 >-----42042 00 IRR NK G HARDEN FARMS INC > & DEAN HARDEN > 28120 5 RD > PLAINS KS 67869 



#### Thomas Downey <tdowney@downeydrilling.com>

#### Harden Farms #23038, 42042

1 message

Thomas Downey <tdowney@downeydrilling.com>

To: "Makens, Thom" < Thom. Makens@ks.gov> Cc: Dean Harden <spiderdean54@gmall.com>

Bcc: DDI - Josle Bauer <ibauer@downeydrilling.com>

Wed, Apr 19, 2017 at 5:22 PM

#### Thom,

Doon Hardon has asked me to start the permitting presents replace the well on NW/OW 22-040-00W Meade Co. Please find attached the test hole log, geophysical log, proposed well design, and water sample analysis as required for this area.

If you need any additional information please contact me or Dean Harden at 620-629-0047. Time is of the essence as is normal this time of year.

Thank you,

Tom

Tom Downey President/CEO Downey Drilling Inc. PO Box 278 402 N Grant St - Office 75471 RD 435 - Yard Lexington, NE 68850 (308) 324-2303 Office (308) 325-9890 Cell (308) 324-4825 Fax

#### 4 attachments

harden farms sw 22-34s-30w meade test hole io 562K

harden farms sw 22-34s-30w meade e-log.pdf 1685K

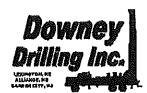
ল harden farms ew 22-34s-30w meade - proposed well design.ndf

Water1.pdf

RECEIVED

JUN 0 8 2017

Garden City Field Office Division of Wider Resources



### Well Design & Construction

	DEN LHICME		
Legal: NW/SW 22-34	5-30W C		ADE
GPS:		Date:	
		WO #:	and the state of t
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HELPER(S):		DRILLING RIG:	
	2"	DRILLING METHOD:	Z.C.
CASING DIAMETER: //			
TOTAL WELL DEPTH:  DRILLING FLUID: "T8		GRAVEL:	LOARSE 110 TON
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			545

DATE: 4/13/2017

#### PAX No 308 324-4825

#### **WELL LOG**



CUSTOMER NAME:	HARDEN FARMS, INC.	manufacture of the state of the	
LEGAL:	SW 22-345-30W		
COUNTY:	MEADE		_
GPS:	37 04'	20.262' N	_

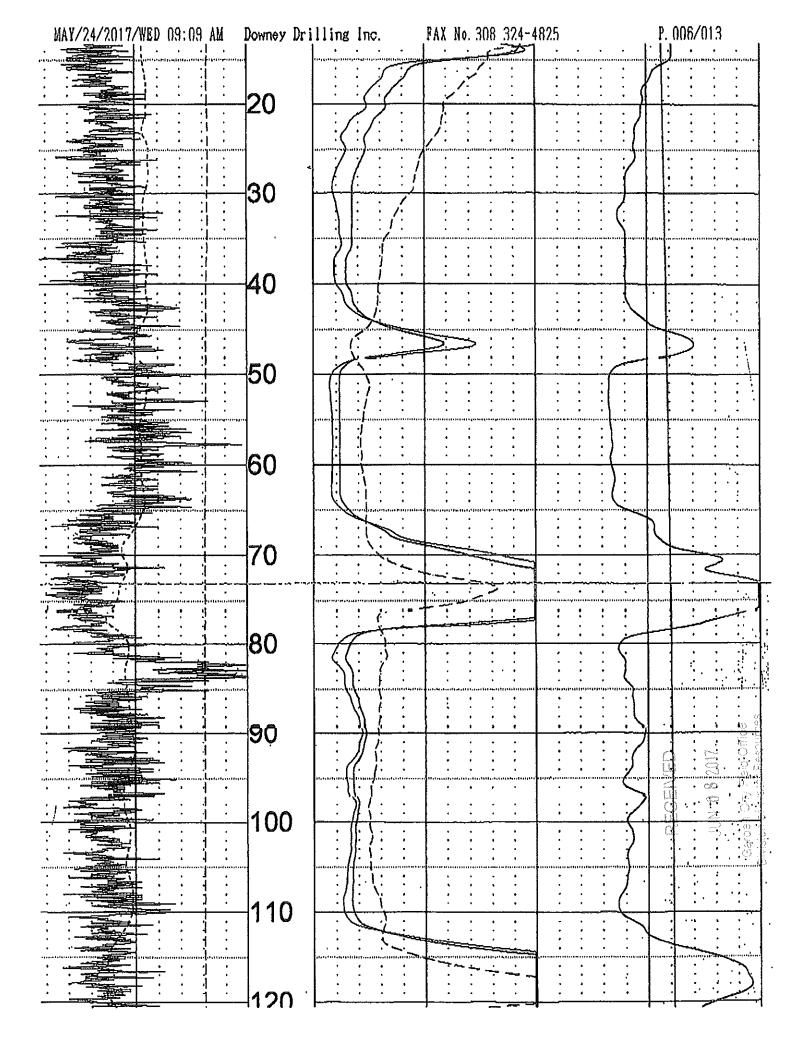
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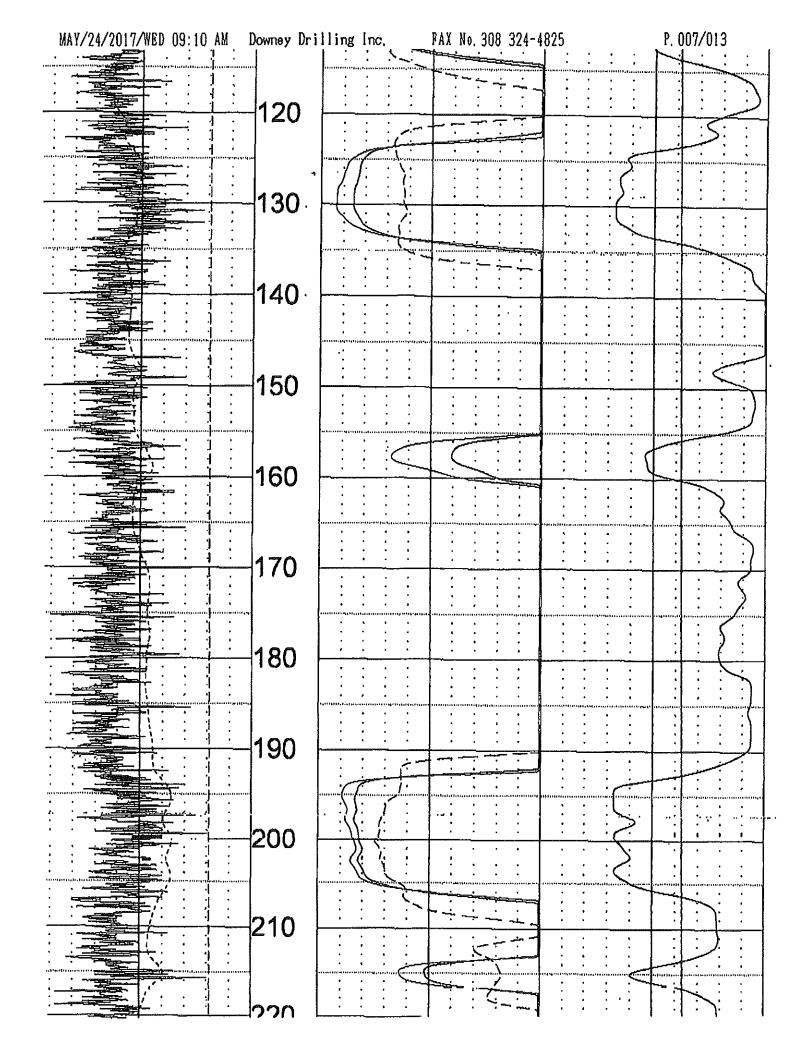
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	8	11	SILT WITH SAND					
	11	28	SILT, MAG, AND SAND				ļ	
	2A	36	CI AY	<del></del>	GRAY			
	36	47	CLAY W(TH B(LT		BRÓWN			
	47	49	SILT AND MEDIUM SAND					
	49	51	SANDY CLAY		BROWN			
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	77	78	FINE-TRACE OF MEDIUM GRAVEL LENSE				KEU	JEIVED
	76	112	CLAY WITH MAG STRINGERS					
	112	110	VERY VERY COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL				JUN	08701/
	119	128	CLAY AND SANDY CLAY				Sarden C	ly Ciald Office
	128	149	CLAY, SANDY CLAY WITH VERY THIN MEDIUM-VERY COARSE SAND LENSE, AND A TRACE OF MAG			D		fater Resources
у.	1/10	167	FINE MEDIUM GRAVEL WITH SANDY CLAY LEDISES					
_	157	162	SANDY CLAY					
×	162	177	MEDIUM COARSE-TRAVE OF VERY COARSE SAND					
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	194	194.5	CEMENTED SAND				_	NO CHATTER
×	194.6	220	COARSE-VERY VERY COARSE SAND					FAST CHATTER
X	220	240	COARSE-VERY VERY COARSE SAND AND FINE GRAVEL					FAST CHATTER
	240	293	COARSE-VERY VERY COARSE SAND AND FINE GRAVEL					
	200	400	VIDI -		din.			
	298	802	MEDIUM-COARSE-VERY COARSE SAND					
	30,2	304	CLAY		BROWN			
x	304	311	MEDIUM-COARSE-VERY COARSE SAND					CHATTER
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^_ ×	340	362	MEDIUM:COARSE-VERY COARSE SAND AND A TRACE OF FINE GRAVEL & 353, 357	4	TAN		<del>"</del>	FAST CHATTER
X	362	382	COARSE-VERY VERY COARSE SAND AND FINE-TRACE OF MEDIUM GRAVEL		TAN/ REDDISH			FAST / GOOD CHATTER
<u>~                                    </u>	982	402	VERY VERY COARSE SAND AND FINE GRAVEL WITH A CEMENTED LAYER (@393 FIRM F/3")	<del>                                     </del>			NO	
	402	421	SAND LENSE @ 417		·	ANJ THE STATE OF T	NO	
	421	422	CEMENTED SAND				NO	
	422	442	MEDIJM COARSE SAND AND VERY VERY COARSE SAND WITH VERY THIN CEMENTED LENSES				NO	
na Khand	442	462	COARSE-VERY VERY COARSE SAND AND A TRACE OF FINE GRAVEL					
	462	482	COARSE-VERY VERY COARSE SAND AND FINE-MEDIUM GRAVEL					

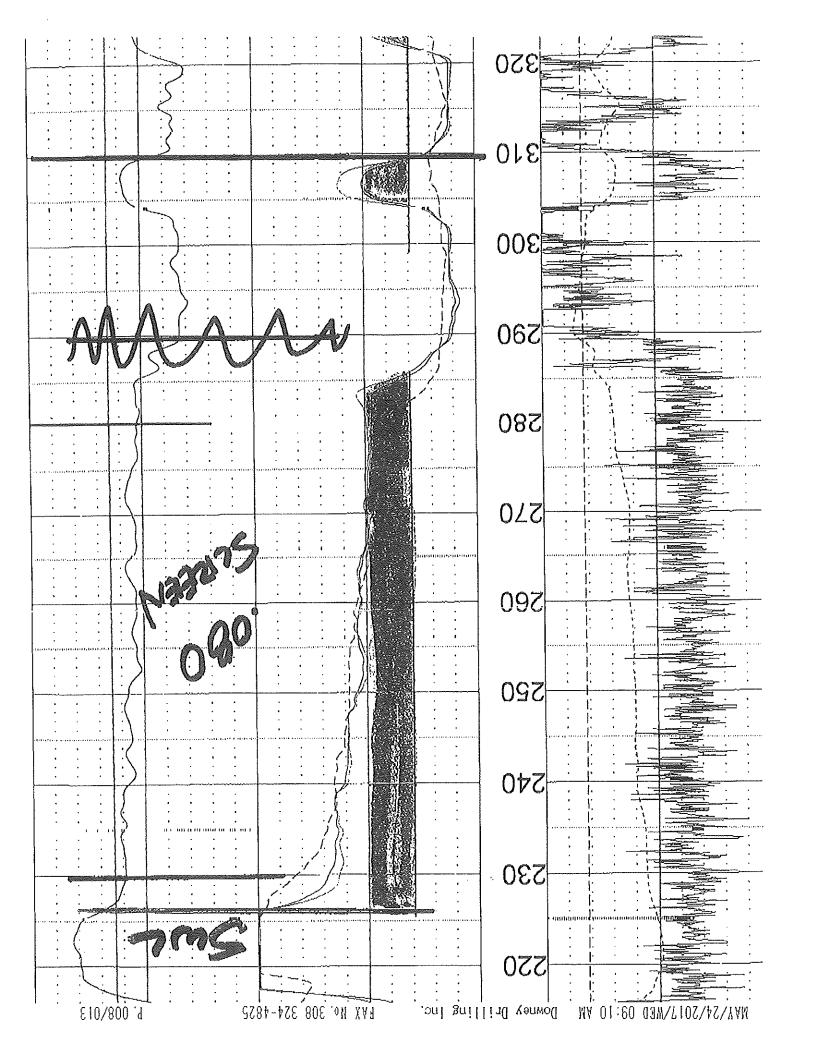
MAY/24/2017/WED 09:08 AM Downey Drilling Inc. FAX No. 308 324-4825

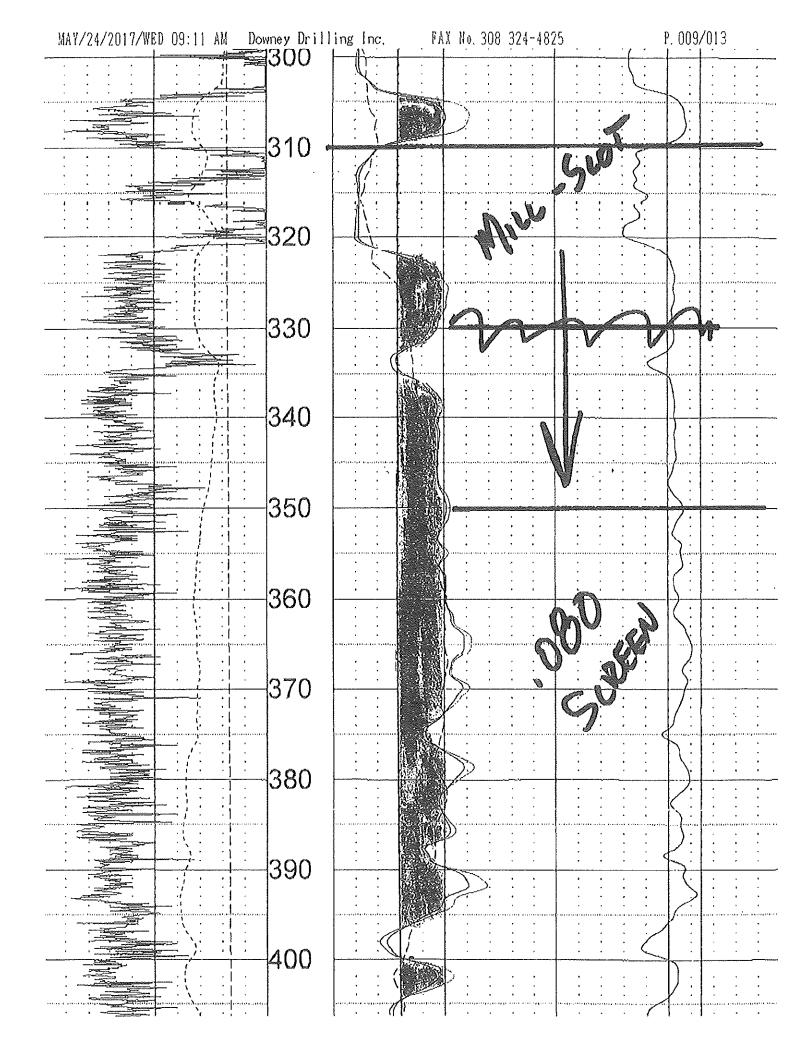
P. 003/013

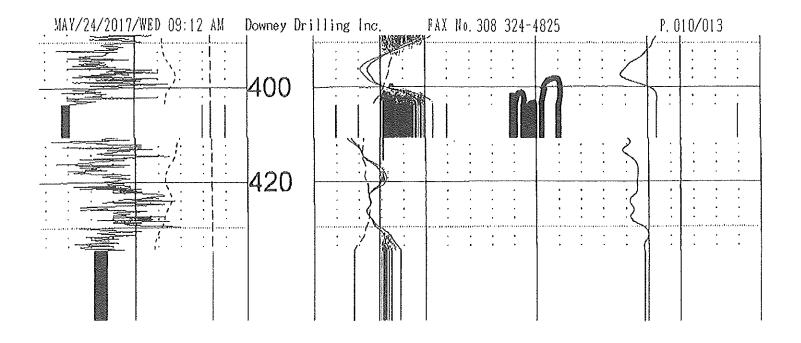
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	482	502	COARSE-VERY VERY SAND WITH A TRACE OF FINE GRAVEL					
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	522	542	GRAVEL, AND A TRACE OF VERY THIN SILT LENSES FROM 535-542 COARSE-VERY VERY COARSE SAND WITH A FEW VERY THIN SHALE					
	542	502	LENSES					
	562	582	VERY VERY COARSE SAND AND FINE MEDIUM GRAVEL VERY COARSE VORY VERY COARSE SAND WITH A TRACE OF FINE					
	682	602	GRAVEL AND A FEW SHALE CLAY LENSES		<del>Vanamatiiniihkasiinedhaana</del>			ļ
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JUN 0 8 2017

Garden City Field Office Division of Water Resources

PAX No. 308 324-4825

Downey Drilling Inc.

WAY'24/2017/WED 09:09 AM



#### HARDEN FARMS, INC

\$b\$ ! TOWNSHIP OTHER SERVICES:

MOT:

PERMANENT DATUM : GL

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CASING THICKNESS: УЕСОКОЕО ВХ

15110

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HARDEN FARMS, INC.

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PTTH ORILLER

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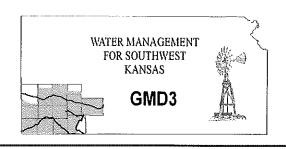
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#### ALL, SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

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#### Southwest Kansas Groundwater Management District No. 3 2009 E. Spruce Street

Garden City, Kansas 67846

(620) 275-7147 phone (620) 275-1431 fax www.gmd3.org

June 8, 2017

Thomas P. Makens Division of Water Resources 2508 N Johns Street Garden City, Kansas 67846

RE: Application for Change in Point of Diversion

Water Right, File No. 23038 & 42042

#### Dear Thomas:

We have completed a review of the application for the above referenced water right. The proposal is not in conflict with the Management Program of the Southwest Kansas Groundwater Management District No. 3 (GMD3). The proposed distance moved and spacing to neighboring wells is met in accordance with K.A.R. 5-23-3. The log provided seems to satisfy K.A.R. 5-23-4, dealing with the Chloride area this well is in. It is therefore recommended that the application be approved at this time.

Thank you for the opportunity to review the applications and to provide a recommendation. If you have any questions, please don't hesitate to contact us.

Sincerely,

Jason L. Norquest Assistant Manager

RECRIVED

UN 147017