

Kansas Department of Agriculture  
 Division of Water Resources  
**CHANGE: P/D WORKSHEET**

1. File Number: <b>44090</b>	2. Status Change Date: <u>12-14-2021</u>	3. Change Num: <b>C1</b>	4. Field Office: <b>4</b>	5. GMD: <b>3</b>
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6. Status: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return	7. Filing Date of Change: <b>11/30/2021</b>
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8a. Landowner, WUC, Applicant(s) New to system <input type="checkbox"/>  <b>GALE V FRANK</b> <b>405 WW RD</b> <b>COPELAND, KS 67837</b>	8c. Landowner(s) New to system <input type="checkbox"/>  Person ID <u>36176</u> Add Seq# _____
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8b. Landowner(s), New to system <input checked="" type="checkbox"/>  Person ID _____ Add Seq# _____	8d. WUC New to system <input type="checkbox"/>  Person ID _____ Add Seq# _____
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9. Documents and Enclosure(s):  DWR Meter(s) Date to Comply: 12/31/2022     N & P Date to Comply: 3/1/2023

Anti-Reverse Meter     Meter Seal     Check Valve     N & P Form     Water Tube     Driller Copy     H & E Letter  
 Conservation Plan    Date Required: \_\_\_\_\_    Date Approved: \_\_\_\_\_    Date to Comply: \_\_\_\_\_

10. Use Made of Water    From: \_\_\_\_\_    To: \_\_\_\_\_

Date Prepared: **12/14/2021**    By: **MAM**  
 Date Entered: \_\_\_\_\_    By: \_\_\_\_\_

File No. **44090**      11. County: HS      Basin: ARKANSAS RIVER      Stream:      Formation Code: **211/331**      Special Use:

12. Points of Diversion  
 Rate and Quantity  
 Authorized      Additional  
 Rate      Quantity      Rate      Quantity  
 gpm      af      gpm      af      Overlap PD Files

CHK	MOD	DEL	PDIV	Qualifier	S	T	R	ID	'N	'W	Comment (AKA Line)	Rate gpm	Quantity af	Rate gpm	Quantity af	Overlap PD Files
<b>DEL</b>				<b>12631</b>												
<b>ENT</b>				<b>SWSWSW</b>	<b>15</b>	<b>27S</b>	<b>31W</b>		<b>576</b>	<b>4776</b>		<b>1745</b>	<b>433</b>	<b>745</b>	<b>0</b>	<b>3666, 19218</b>

13. Storage: Rate \_\_\_\_\_ NF      Quantity \_\_\_\_\_ ac/ft      Additional Rate \_\_\_\_\_ NF      Additional Quantity \_\_\_\_\_ ac/ft

14. Limitation: \_\_\_\_\_ af/yr at \_\_\_\_\_ gpm ( \_\_\_\_\_ cfs) when combined with file number(s) \_\_\_\_\_  
 Limitation: \_\_\_\_\_ af/yr at \_\_\_\_\_ gpm ( \_\_\_\_\_ cfs) when combined with file number(s) \_\_\_\_\_

15. 5YR Allocation:      Allocation Type \_\_\_\_\_      Start Year \_\_\_\_\_      5 YR Amount \_\_\_\_\_      Amount Unit \_\_\_\_\_      Base Acres \_\_\_\_\_      Comment \_\_\_\_\_

CHK	MOD	DEL	ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files
									NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼				
<b>CHK</b>				<b>30053</b>																								

Base Acres:      Year:      Minimum Reasonable Quantity:  
 Comments:

Garden City Field Office  
4532 W. Jones, Suite B  
Garden City, KS 67846



Phone: 620-276-2901  
Fax: 620-276-9315  
www.agriculture.ks.gov

Mike Beam, Secretary

Laura Kelly, Governor

December 14, 2021

GALE V FRANK  
405 WW RD  
COPELAND, KS 67837

RE: Field Office Application for Change  
Water Right, File Nos. 3666, 12872, 1289214232, ~~19128~~<sup>19218</sup>, 44090

Dear Sir:

Enclosed are orders executed by the designee of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the application for change under the above referenced file numbers.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in this approval for change. A condition of this approval is that an acceptable water flow meter must be installed on the diversion works authorized under the referenced file number and meet current specifications. Please return the required notification of completion of the diversion works and installation of the required meter as soon as these actions are completed.

Since the orders modify the original documents referred to above, they should be recorded with the Register of Deeds as other instruments affecting real estate.

The abandoned well must be plugged in accordance with the requirements of Article 30 of the Rules and Regulations as adopted by the Kansas Department of Health and Environment.

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

Sincerely,

A handwritten signature in blue ink that reads "Michael A. Meyer".

Michael A. Meyer  
Water Commissioner

MAM  
enclosures

pc:

GROUNDWATER MANAGEMENT DISTRICT NO. 3


### CERTIFICATE OF SERVICE

On this 14<sup>th</sup> day of December 2021, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 3,666, 12,872, 12,892, 14,232, 19,128, 44,090 dated 14<sup>th</sup> day of December 2021 was mailed postage prepaid, first class, US mail to the following:

GALE V FRANK  
405 WW RD  
COPELAND, KS 67837

Pc:

GROUNDWATER MANAGEMENT DISTRICT NO. 3

  
Division of Water Resources Staff

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.

File No. 44090

**RECEIVED**  
 11:40 AM  
 NOV 30 2021

Garden City Field Office  
 Division of Water Resources

1. Application is hereby made for approval of the Chief Engineer to change the (check one or both):

Place of Use                       Point of Diversion

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: GALE FRANK

405 WW RD COPELAND KS 67837

Phone Number: (    )                      Email address: \_\_\_\_\_

Name and address of Water Use Correspondent: Same as above

Phone Number: (    )                      Email address: \_\_\_\_\_

3. The presently authorized place of use is:

Owner of Land ---- NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

(If there is more than one landowner, attach supplemental sheets as necessary.)

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES		
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼			

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: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

(If there is more than one landowner, attach supplemental sheets as necessary.)

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼				

**For Office Use Only:** Code \_\_\_\_\_ Fee \$ 100.00 TR # \_\_\_\_\_ Receipt Date 11-30-21 Check # 1574

5. **Presently authorized point of diversion:**  
 One in the SW Quarter of the SW Quarter of the SW Quarter of Section 15, Township 27 South, Range 31 W, in HASKELL County, Kansas, 425 feet North 4955 feet West of Southeast corner of section.  
 Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_ Depth of well +300 (feet)  
**(DWR use only: Computer ID No. 01 GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)**  
 This point will not be changed  This point will be changed as follows:  No change, point better described with GPS as follows:  
**Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)**  
 One in the SW Quarter of the SW Quarter of the SW Quarter of Section 15, Township 27 South, Range 31 W, in HASKELL County, Kansas, 576 feet North 4776 feet West of Southeast corner of section.  
 Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_ Proposed well depth (feet) 820  
 This point is:  Additional Well  Geo Center List other water rights that will use this point held, 1928

6. **Presently authorized point of diversion:**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_ Depth of well \_\_\_\_\_ (feet)  
**(DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)**  
 This point will not be changed  This point will be changed as follows:  No change, point better described with GPS as follows:  
**Proposed point of diversion: (Complete only if change is requested or if existing point is better described by GPS)**  
 One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.  
 Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_ Proposed well depth (feet) \_\_\_\_\_  
 This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

7. The changes herein are desired for the following reasons?  
 (please be specific) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

8. If a well, is the test hole log attached?  Yes  No

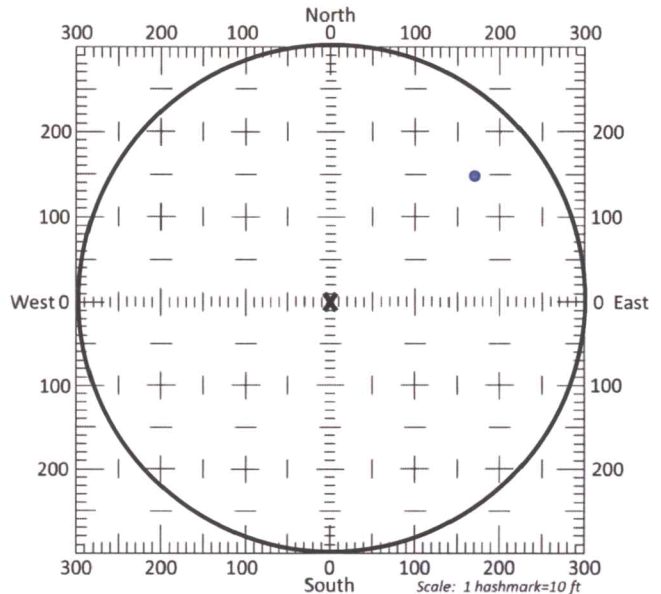
9. The change(s) (was)(will be) completed by?  
 \_\_\_\_\_  
 \_\_\_\_\_

10. If the point of diversion is a well:  
**(a)** What are you going to do with the old well?  
 \_\_\_\_\_  
**(b)** When will this be done? \_\_\_\_\_

11. Groundwater Management District recommendation attached?  
 Yes  No

12. Assisted by AT/GCFO

13a. If the proposed point of diversion will be relocated more than 300 feet but within 2,640 feet of the existing point of diversion, attach a topographic map or aerial photograph. For groundwater sources, show all wells (including domestic) within one-half mile of the proposed point of diversion and the names and mailing addresses of the owners. For surface water sources, show the names and addresses of the landowner(s) one-half mile downstream and one-half mile upstream from your property lines



13b. If the proposed point of diversion will be relocated within a 300 foot radius of the existing point of diversion, indicate its location on the diagram shown above in relation to the existing point of diversion. The proposed point of diversion must be located within the circle shown above. **(PLEASE NOTE: The "X" in center of diagram above represents the presently authorized point of diversion.)**

14. If the proposed groundwater point of diversion is 300 or fewer feet from the existing point of diversion, complete the following:

- (a) Does the undersigned represent all owners of the currently authorized place(s) of use identified in this application?  
 Yes     No    (If no, all owners must sign this application.)
- (b) Will the ownership interest of any owner of the currently authorized place(s) of use identified in this application be adversely affected if this application is approved as requested?  
 Yes     No    (If yes, all owners must sign this application.)
- (c) If this application is not approved expeditiously, will there be substantial damage to property, public health or safety?  
 Yes     No    (If no, all owners must sign this application.)

If the application proposes a surface water change in point of diversion, a groundwater change in point of diversion greater than 300 feet, or a change in place of use, the application must be signed by all owners of the currently authorized place of use, or their duly authorized agent (attach notarized statement authorizing representation).

I hereby verify, being first duly sworn upon my oath or affirmation and under penalty of perjury, that I am of lawful age and the owner, the spouse of the owner, or a duly authorized agent of the owner(s) to make this application on their behalf, in regards to the water right(s) to which this application pertains. I further verify that the statements contained in this application are true, correct and complete.

Dated at Warden City, Kansas, this 30<sup>th</sup> day of November, 2021.

Gale Frank  
(Owner)

Florence Frank  
(Spouse)

Gale Frank  
(Please Print)

FLORENCE FRANK  
(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

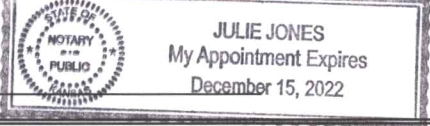
(Spouse)

(Please Print)

(Please Print)

State of Kansas }  
County of Jenney } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 30<sup>th</sup> day of November, 2021.

My Commission Expires 

Julie Jones  
Notary Public

**ONLY COMPLETE APPLICATIONS WILL BE PROCESSED.** To be complete, all of the applicable portions of the application form must be completed with accurate information; maps, if necessary, must be included; signatures of all the appropriate owners' must be affixed to the application and notarized; and the appropriate fee must be paid.

**FEE SCHEDULE**

Each application to change the place of use or the point of diversion under this section shall be accompanied by the application fee set forth in the schedule below: Make checks payable to: **Kansas Department of Agriculture**

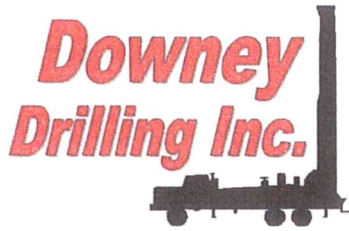
(1) Application to change a point of diversion 300 feet or less	\$100
(2) Application to change a point of diversion more than 300 feet	\$200
(3) Application to change the place of use	\$200





# WELL LOG

DATE: 10/5/2021



CUSTOMER NAME: GALE FRANK

LEGAL: SWNW 4-27S-31W

COUNTY: HASKELL CO, KS

GPS: 37.728728

-100.723621

LOGGER:

DRILLER: ROCKY

WO: 20-1263

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
0	3		TOPSOIL	SOFT	DARK BROWN	FAST		SMOOTH
3	7		BLACK SILTY CLAY W/ CALICHE	SOFT	BLACK & WHITE	FAST SEMI-SLOW		SMOOTH
7	15		GREEN CLAY	SOFT	GREEN	FAST SEMI-SLOW		SMOOTH
15	20		BROWN SILTY CLAY	SOFT	BROWN	FAST		SMOOTH
20	26		SANDY CLAY W/ FINE SAND	SOFT	TAN	FAST SEMI-SLOW		SMOOTH & VIBRATION
26	30		GREEN CLAY	SOFT	GREEN	FAST SEMI-SLOW		SMOOTH
30	40		SANDY CLAY W/ FINE SAND & CALICHE	SOFT	TAN & WHITE	FAST		SMOOTH & VIBRATION
40	59		FINE-MED-COARSE SAND W/ FINE GRAVEL	FIRM		FAST		FAST CHATTER
59	71		FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER
71	112		FINE-MED-COARSE SAND W/ FINE-MED-LARGE GRAVEL	HARD		FAST		CHATTER
112	113		CEMENTED SAND	HARD	WHITE	FAST		CHATTER
113	115		SANDY CLAY W/ FINE-MED-COARSE SAND	FIRM	BROWN	FAST		FAST CHATTER
115	128		FINE-MED-COARSE SAND W/ FINE-MED GRAVEL	STIFF		FAST		CHATTER
128	138		FINE-MED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST		FAST CHATTER
138	150		SANDY CLAY W/ FINE SAND	SOFT	TAN	FAST		SMOOTH & VIBRATION
150	163		FINE-MED-COARSE SAND	FIRM		FAST		FAST CHATTER
163	175		SANDY CLAY W/ FINE-MED-COARSE SAND LAYERS & CEMENTED SAND LEDGES	FIRM	YELLOW & WHITE	FAST		SMOOTH & CHOPPY
175	180		CEMENTED SAND W/ SANDY CLAY	FIRM	WHITE	FAST		CHOPPY & SMOOTH
180	198		FINE-MED-COARSE SAND W/ FINE GRAVEL & CEMENTED SAND LEDGES	HARD		FAST		FAST CHATTER
198	202		BROWN STICKY CLAY	STICKY	BROWN	FAST		SMOOTH
202	215		FINE-MED-COARSE SAND W/ FINE GRAVEL & CEMENTED SAND LEDGES	STIFF	WHITE	FAST		FAST CHATTER
215	219		WHITE CLAY	SOFT	WHITE	FAST		SMOOTH
219	245		FINE-MED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST		FAST CHATTER
245	267		CEMENTED SAND W/ FINE-MED-COARSE SAND & FINE GRAVEL	HARD	WHITE	FAST		CHATTER
267	271		SANDY CLAY	SOFT	TAN	FAST		SMOOTH
271	276		FINE-MED-COARSE SAND W/ LIMEROCK	FIRM	WHITE	FAST		VIBRATION
276	292		FINE-MED-COARSE SAND W/ FINE-MED GRAVEL & LIMEROCK	STIFF	WHITE	FAST		CHATTER
292	294		CEMENTED SAND	HARD	WHITE	SLOW	X	CHATTER
294	307		FINE-MED-COARSE SAND W/ FINE-MED GRAVEL, LIMEROCK, SANDY CLAY & CEMENTED SAND LEDGES	STIFF	WHITE & TAN	FAST		FAST CHATTER
307	312		SANDY CLAY W/ FINE SAND	SOFT	TAN	FAST		SMOOTH & VIBRATION
312	316		CEMENTED SAND W/ FINE-MED-COARSE SAND & FINE GRAVEL	HARD	WHITE	FAST		CHATTER
316	327		SANDY CLAY W/ CEMENTED SAND	FIRM	TAN & WHITE	FAST		SMOOTH & CHOPPY
327	335		FINE-MED-COARSE SAND W/ CEMENTED SAND & SANDY CLAY LAYERS	FIRM		FAST		FAST CHATTER
335	346		SANDY CLAY W/ FINE SAND & CEMENTED SAND LEDGES	FIRM	TAN & WHITE	FAST		SMOOTH & CHOPPY
346	359		FINE-MED-COARSE SAND W/ FINE-MED-LARGE GRAVEL & CEMENTED SAND	HARD	WHITE	FAST		CHATTER
359	369		SANDY CLAY W/ FINE-MED SAND & CEMENTED SAND	FIRM	TAN & WHITE	FAST		SMOOTH & CHOPPY
369	374		BROWN STICKY CLAY	STICKY	BROWN	FAST		SMOOTH

EST  
STATIC 245'

TW	FROM	TO	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	374	388	FINE-MED SAND W/ LIMEROCK & CEMENTED SAND	FIRM	WHITE	FAST		FAST CHATTER
	388	394	BROWN STICKY CLAY	STICKY	BROWN	FAST		SMOOTH
	394	438	FINE-MED SAND W/ SANDY CLAY & CEMENTED SAND LEDGES	FIRM	TAN & WHITE	FAST		FAST CHATTER & SMOOTH AT TIMES
	438	453	FINE-MED SAND W/ CEMENTED SAND & SANDY CLAY LAYERS	FIRM	WHITE & TAN			CHOPPY & SMOOTH
	453	459	WEATHERED SHALE W/ BROWN ROCK, SANDSTONE & FINE SAND	FIRM	GRAY, YELLOW & BROWN	FAST		FAST CHATTER
	459	468	SANDSTONE W/ FINE SAND & GRAY CLAY LEDGES	STIFF	YELLOW & GRAY	SLOW		CHOPPY
	468	477	BROWN ROCK W/ SANDSTONE & FINE SAND	STIFF	BROWN & YELLOW	FAST		FAST CHATTER
	477	494	SANDSTONE W/ FINE SAND & SOAPSTONE	STIFF	YELLOW & GRAY	SEMI-SLOW		CHOPPY
	494	506	SHALE W/ BROWN SILTY CLAY	SOFT	BLUE & BROWN	SLOW		SMOOTH
	506	507	HARD SPOT	HARD		SLOW	X	CHATTER
	507	514	SANDSTONE W/ FINE SAND & BROWN ROCK	STIFF	GRAY & BROWN	FAST		FAST CHATTER
	514	524	SHALE	SOFT	GRAY	SEMI-SLOW		SMOOTH
	524	535	SANDSTONE W/ FINE SAND & BROWN ROCK	STIFF	GRAY & BROWN	FAST		FAST CHATTER
	535	545	SHALE	SOFT	GRAY	SEMI-SLOW		SMOOTH
	545	550	SANDSTONE W/ FINE SAND & BROWN ROCK	STIFF	GRAY & BROWN	FAST		FAST CHATTER
	550	552	SHALE	SOFT	GRAY	SEMI-SLOW		SMOOTH
	552	559	SANDSTONE W/ FINE SAND, BROWN ROCK & IRON PYRITE	HARD	GRAY & BROWN	SLOW	X	CHATTER
	559	574	SHALE	SOFT	BLUE	SLOW		SMOOTH
	574	578	SANDSTONE W/ FINE SAND	STIFF	GRAY	FAST		FAST CHATTER
	578	586	SHALE	SOFT	BLUE	SLOW		SMOOTH
	586	594	GRAY CLAY	SOFT	GRAY	SLOW		SMOOTH
	594	600	SANDSTONE W/ FINE SAND & IRON PYRITE	HARD	GRAY	SLOW	X	CHATTER
	600	614	SANDSTONE W/ FINE SAND, IRON PYRITE	STIFF	GRAY	FAST		FAST CHATTER
	614	622	SHALE	SOFT	GRAY	SLOW		SMOOTH
	622	627	FINE SAND W/ SANDSTONE	STIFF	GRAY	FAST		FAST CHATTER
	627	629	HARD SPOT	HARD		FAST	X	CHATTER
	629	633	BLUE SHALE	SOFT	BLUE	FAST		SMOOTH
	633	634	HARD SPOT	HARD		FAST	X	CHATTER
	634	656	BLUE SHALE	SOFT	BLUE	FAST		SMOOTH
	656	658	HARD SPOT	HARD		FAST	X	CHATTER
	658	682	BLUE SHALE	SOFT	BLUE	FAST		SMOOTH
	682	686	SANDSTONE	HARD	GRAY	SLOW	X	CHATTER
	686	690	BLUE SHALE	SOFT	BLUE	SLOW		SMOOTH
	690	695	SANDSTONE W/ FINE SAND & SOAPSTONE	STIFF	GRAY	FAST		FAST CHATTER
	695	709	BLUE SHALE	SOFT	BLUE	SLOW		SMOOTH
	709	715	SANDSTONE W/ FINE SAND & SOAPSTONE	HARD	GRAY	SLOW	X	CHATTER
	715	732	BLUE SHALE	SOFT	BLUE	SLOW		SMOOTH
	732	733	HARD SPOT	HARD		SLOW	X	CHATTER
	733	740	BLUE SHALE	SOFT	BLUE	SLOW		SMOOTH
	740	769	FINE SAND W/ SANDSTONE & IRON PYRITE	STIFF	GRAY	FAST		CHOPPY
	769	780	SOAPSTONE W/ SANDSTONE & FINE SAND	FIRM	GRAY	SLOW		VIBRATION & CHOPPY
	780	805	BLUE SHALE	SOFT	BLUE	SLOW		SMOOTH
	805	812	WHITE CLAY	STIFF	WHITE	SLOW		SMOOTH
	812	820	RED BED	HARD	RED	SLOW	X	CHOPPY