

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

1. File Number: 19218	2. Status Change Date: <i>12-14-2021</i>	3. Change Num: C1	4. Field Office: 4	5. GMD: 3
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: 11/30/2021
8a. Landowner, Applicant(s), wuc New to system <input type="checkbox"/> GALE V FRANK 405 WW RD COPELAND, KS 67837		Person ID 36176 Add Seq# _____	8c. Landowner(s) New to system <input type="checkbox"/> Person ID _____ Add Seq# _____	
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# _____	
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: 12/31/2022 <input checked="" type="checkbox"/> N & P Date to Comply: 3/1/2023 <input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input checked="" type="checkbox"/> Water Tube <input type="checkbox"/> Driller Copy <input checked="" type="checkbox"/> H & E Letter <input type="checkbox"/> 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. **19218** 11. County: HS Basin: ARKANSAS RIVER Stream: Formation Code: **211/331** Special Use:

12. Points of Diversion
 CHK
 MOD
 DEL PDIV
 ENT
 Qualifier S T R ID 'N 'W Comment (AKA Line) Rate gpm Quantity af Rate gpm Quantity af Overlap PD Files

DEL 12631
ENT SWSWSW 15 27S 31W 576 4776 1000 189 125 189 3666, 44090

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 _____

16. Place of Use CHK MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files	
						NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼					
CHK 30053																										

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, ¹⁹²¹⁸~~19128~~, 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 14th 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 14th 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. 19218

RECEIVED
 11:39 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 3616, 44090

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?

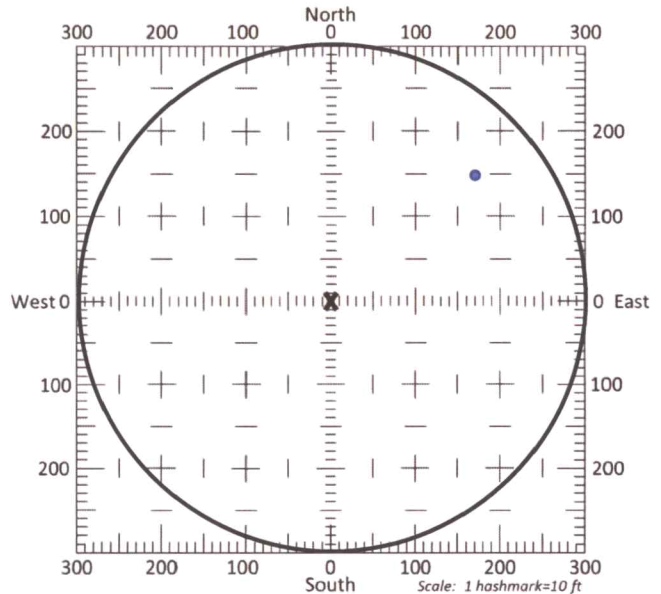
10. If the point of diversion is a well:
 (a) What are you going to do with the old well?

 (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 30th day of November, 2021.

[Signature]
(Owner)

[Signature]
(Spouse)

Cole Frank
(Please Print)

Florene Frank
(Please Print)

(Owner)

(Spouse)

(Please Print)

(Please Print)

(Owner)

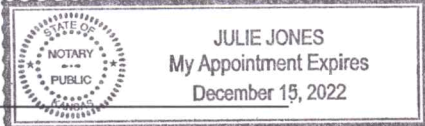
(Spouse)

(Please Print)

(Please Print)

State of Kansas }
County of Winney } SS

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

My Commission Expires 

[Signature]
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

SUMMARY ORDER APPROVING APPLICATION FOR CHANGE AND IMPOSING CONDITIONS

This Summary Order is issued under authority of K.S.A. 82a-708b, as amended, and K.A.R. 5-5-1, *et seq.* and other applicable provisions of the *Kansas Water Appropriation Law, K.S.A. 82a-701 et. seq.*, and rules and regulations promulgated thereunder. With the exception of those conditions expressly contained herein, this Summary Order does not change the terms, conditions and limitations of File No. 19218 _____.

- 1. A change application was received on November 30, 2021 requesting that the place of use and / or point of diversion authorized under the above-referenced file number be changed as described in the application.
- 2. On and after the effective date of this summary order, the authorized place(s) of use shall be located substantially as shown on the topographic map accompanying the application to change the place of use. Applicable Not Applicable
- 3. The change in point of diversion shall not impair existing rights and shall be limited to the same source or sources of water as previously authorized. The point of diversion authorized by this summary order shall be located within a 50 foot radius of the authorized point(s) of diversion. Applicable Not Applicable
- 4. The point(s) of diversion described herein is administratively corrected to be more accurately described using the Global Positioning System (GPS), as described in the application. Applicable Not Applicable
- 5. The point(s) of diversion authorized herein shall not actually be located more than 300 feet from the previously authorized point(s) of diversion. Applicable Not Applicable
- 6. As required by K.A.R. 5-3-5d, if the works for diversion is a well with a diversion rate of 100 gallons per minute or more, a tube or other device suitable for making water level measurements shall be installed, operated and maintained in accordance with K.A.R. 5-6-13. Applicable Not Applicable
- 7. The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before **December 31, 2022**, or before the first use of water, whichever occurs first. The water flow meter shall be installed, operated and maintained in accordance with K.A.R. 5-1-4 through 5-1-12. As required by K.S.A. 82a-732, as amended, and K.A.R. 5-3-5e, the owner shall maintain records and report the reading of the water flow meter and the total quantity of water diverted annually to the Chief Engineer by March 1 following the end of each calendar year. Applicable Not Applicable
- 8. **Installation of the works for diversion of water shall be completed on or before December 31, 2022**, or within any authorized extension of time. By March 1, 2023 the applicant shall notify the Chief Engineer that construction of the works for diversion has been completed, on the form provided by the Chief Engineer, as required by K.A.R. 5-8-4e. Applicable Not Applicable
- 9. **The completed well log shall be submitted with the required notice.** Applicable Not Applicable
- 10. All diversion works into which any type of chemical or other foreign substance will be injected into the water shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The check valve(s) shall be installed, operated and maintained in accordance with K.A.R. 5-3-5c. Applicable Not Applicable
- 11. Additional Conditions are attached. Yes No
- 12. In accordance with K.S.A. 82a-708a, as amended, and K.A.R. 5-5-14, all of the owners of the authorized place(s) of use of water appropriated under the above-referenced file number are responsible for compliance with its terms, conditions and limitations, as amended and/or supplemented by this Summary Order, and with applicable provisions of the *Kansas Water Appropriation Law* and the *Rules and Regulations* promulgated thereunder. Failure to comply with these provisions may result in civil penalties pursuant to K.S.A. 82a-737, as amended, and/or the suspension or revocation and dismissal of the water or appropriation right or any other enforcement actions authorized by law.

Administrative Appeal and Effective Date of Order

If you are aggrieved by this order, pursuant to K.S.A. 82a-1901, you may request an evidentiary hearing before the Chief Engineer or request administrative review by the Secretary of Agriculture. A request for hearing by the Chief Engineer must be filed within **15 days** of service of this Order and a request for administrative review by the Secretary must be filed within **30 days** pursuant to K.S.A. 77-531. Any request for administrative review must state a basis for review pursuant to K.S.A. 77-527. File any request with **Kansas Department of Agriculture, Legal Division, 1320 Research Park Drive, Manhattan, KS 66502**. Failure to timely request a hearing or review may preclude review under the Kansas Judicial Review Act.

For Use by Register of Deeds

FOR OFFICE USE ONLY
**APPLICATION APPROVED AND
SUMMARY ORDER ISSUED**

By: Michael A. Meyer
Duly Authorized Designee of the Chief Engineer

(Print Name): MICHAEL A. MEYER
Division of Water Resources - Kansas Department of Agriculture

Date of Issuance: December 14, 2021

State of Kansas)

County of Finney) SS

Acknowledged before me on December 14, 2021
by Michael A. Meyer

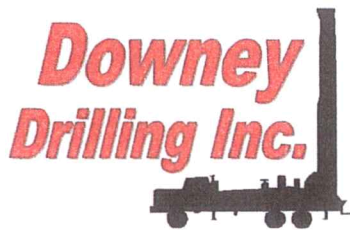
Signature: Julie Jones
Notary Public

My commission expires: _____
My Appointment Expires
(Notary Seal) December 15, 2022



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