## Kansas Department of Agriculture Division of Water Resources

### **CHANGE: P/D WORKSHEET**

1. File Number:	2. Status Change Date:	3. Change Num:	4. Field Office:	5. GMD:
3666	12-14-2021	C1	4	3
6. Status: Approved Deni	ed by DWR/GMD	Dismiss by Reques	t/Failure to Return	7. Filing Date of Change:
				11/30/2021
8a. Landowner, WUC, Applicant(s) New to system □	Person ID 36176 Add Seq#	8c. Landowne		Person IDAdd Seq#
GALE V FRANK 405 WW RD COPELAND, KS 67837				
8b. Landowner(s), New to system ⊠	Person IDAdd Seq#	8d. WUC New to sy	stem □	Person IDAdd Seq#
9. Documents and Enclosure(s): 🛛 DV	VR Meter(s) Date to Comp	ly: <b>12/31/2022</b>	N & P Date to	Comply: 3/1/2023
☐ Anti-Reverse Meter ☐ Meter	Seal	☑ N & P Form	☑ Water Tube ☐ Di	riller Copy 🛛 H & E Letter
☐ Conservation Plan Date Require	ed: Da	te Approved:	Date to	Comply:
10. Use Made of Water From:		To: _		
			Date Prepared: <b>12/14/</b> Date Entered:	<b>2021</b> ву: <b>МАМ</b> Ву:

File No. <b>3666</b>		11. County:	: HS	Ва	ısin: AF	RKAN	SAS R	RIVER			S	tream								rmation Code: 1/331	Special Use:	
12. Points of Div	ersion														Rate	and Q	uantity					
CHK MOD DEL PDIV											A	Authori	zed		Additional							
ENT	Qualifier	S	Т	R	ID	0	'N	ʻW		Com	ment	(AKA	Line)		Rate		Quanti af	ty	Rate gpm		Overlap PD Files	
DEL 12631																						
ENT	swswsw	15	27S	31W		5	76	477	'6						875	5	244		875	244	19218, 44090	
13. Storage: Rate	e	1	NF	Qua	ntity					ac/ft	А	dditior	ıal Rat	e				NF	Addi	tional Quantity _	a	c/ft
14. Limitation:		af/yr a	at			(	gpm (_				cfs) w	hen co	mbine	d with	file n	umber	(s)					
Limitation: af/yr at gpm ( cfs) when combined with file number(s)																						
15. 5YR Allocation	n: Allocation	Туре	_ St	art Yea	r	_	5 YR	Amou	nt		Amo	ount U	nit	_	Base	Acres		_ Co	omment _			
16. Place of Use CHK				NI	E1/4			NV	V <sup>1</sup> / <sub>4</sub>			sv	V <sup>1</sup> / <sub>4</sub>			S	E1/4		Total	Owner Cho	g? Overlap Files	
MOD DEL ENT PUSE	STR	ID	NE		SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4				
CHK 30053																						
Base Acres: Comments:	Year:	M	linimur	m Reas	onable	Quar	ntity:															

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

19218

Water Right, File Nos. 3666, 12872, 1289214232, 19<del>128</del>, 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,

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

ot all	ersion a	and/or p	iace of	use.		F	File <b>N</b> o	3666				_					F	1	SEIVED 1:35 Am 3 0 2021
1. /	Applicat	ion is he	ereby n	nade fo	or appi				-					e or b	oth):				City Field Office
							lace o					of Dive						ion of	Water Resource:
		e water			the s									ndition	s desc	ribed t	below.		
	The sou	rce of su	apply is	S:		⊠ G	iround	water			Surfac	ce wate	er						
		nd addre																	
	405 WW RD COPELAND KS 67837																		
	Phone Number: () Email address:  Name and address of Water Use Correspondent: Same as above																		
	varrie ai	iu auure	555 01	vvalei	USE C	onesp	onden	it. <u>Saii</u>	ic as a	above									
i	Phone N	lumber:	(	)					Email	addres	ss:								
		sently a																	
	Owner o	of Land -	NA	AME:															
			ADDRE																
	(If there is	s more th	an one	landow	ner, at	tach su	ppleme	ental sh	eets as	neces	sary.)								
				NE	1/4			NV	V1/4			SV	V1/4			SE1/4			TOTAL ACRES
Sec	Twp.	Range	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NVA*/4	SW1/4	SE1/4	AONES
																	-	$\vdash$	
																	_	$\vdash$	
		plication of Land -	NA	AME: .															
			ADDRI																
	(If there is	s more th	nan one	landov	ner, at	tach su	ppteme	ental sh	eets as	neces	sary.)								
					1/4				V1/4				V1/4				Ξ¼ Ι	-	TOTAL ACRES
Sec	. Twp.	Range	NE1/4	NVA9/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	- NONEO
							-											$\vdash$	
																		$\vdash$	
$\overline{}$																			
	For Offi	ce Use	Only:	Code		Fe	e \$ <u></u>	00,00	TR	#		Re	eceipt	Date _	11.3	0-21	Chec	k#	1574

5.	Presently authorize	ed point of c	liversion:				
	One in the	SW	Quarter of the	SW	Quarter of the _	SW	Quarter
	of Section	15	, Township	27	South, Range _	31	W,
	in HASKELL	Cou	nty, Kansas, <u>425</u>	_ feet North _	4955 feet West	of Southeast corr	ner of section.
	Authorized Rate		nty, Kansas, <u>425</u> _ Authorized Quantity		Depth of well	300 (fe	eet)
	(DWR use only: Co	mputer ID I	No. OF	'S	feet North	feet V	/est)
			☐This point will be change				
	Proposed point of	diversion: (	Complete only if change	ge is request	ed or if existing point	t is better descri	bed by GPS)
	One in the	SW	Quarter of the	SW	Quarter of the _	SW	Quarter
			, Township				
	in HASKELL	Cou	nty, Kansas, <u>576</u>	_ feet North _	4776 feet West	of Southeast corr	ner of section.
	Proposed Rate		_ Proposed Quantity _		Proposed well dep	oth (feet) 826	<u> </u>
			☐ Geo Center List o				
						/	
6.	Presently authorize	ed point of c	liversion:				
٠			Quarter of the		Quarter of the		Quarter
			, Township				
	in	Cou	nty, Kansas,	feet North	feet West	of Southeast corr	ner of section.
	Authorized Rate		Authorized Quantity		Depth of well	(fe	eet)
	(DWR use only: Co	mputer ID I	No GF	s	feet North	feet V	Vest)
			This point will be change				
			Complete only if chang				
			Quarter of the				
			, Township				
			nty, Kansas,				
			Proposed Quantity _				
			Geo Center List o				
L	Thio point to:	antionial vvoii		ATTOT WATER TIE	The true vill doo true pe		
7.	The changes herein	are desired	for the following reason	s?			
						orth	
				30 F	0 200 100	0 100 200	0 300 ПППППЧ
						± '	. '∄
8.	If a well, is the test ho	le log attache	ed? X Yes No		_   / +   -		200
	*	J		200	-1/+ 1 + 1 -	_	200
9.	The change(s) (was)(	will be) comp	leted by?		_/	<del>-</del> - • -	100
				100	1 + 1 + 1 -	= 1 + 1 +	100
						Ξ ' ' '	#
10.	If the point of diversion	n is a well:		ļ		Ī	3
	(a) What are you go	ing to do with	the old well?	West 0		<b>z</b> ndan mdmh	0 East
				Į.		<u> </u>	
				100	$\frac{1}{4}$ + + + $\frac{1}{4}$	<u> </u>	-   🗐 100
	(b) When will this be	done?		100		= ' ' ' '	
						<u> </u>	
11.			recommendation attache	d? 200	-141-	=   +   +	200
	∐ Yes	∐ No				= -/-	. =
12	Assisted by AT/CCE	,				<u> </u>	li.ii
12.	Assisted by AT/GCF0	)		30		0 100 200 outh Scale: 1 hash	
13a	. If the proposed point of	of diversion w	ill be relocated more than	300			
	feet but within 2,640 f	eet of the exis	sting point of diversion, at	tach 13b.If the	e proposed point of diven radius of the existing po	ersion will be relocated in	ated <u>within a 300</u>
	sources, show all wel	ls (including of	otograph. For groundw domestic) within one-half	mile on t	he diagram shown abov	e in relation to the	existing point of
	of the proposed poin	t of diversion	and the names and ma	ilina dive	rsion. The proposed in	point of diversion	must be located
	names and address	iers. For surf ses of the	face water sources, show landowner(s) one-half	mile cen	in the circle shown abo ter of diagram abo	ove represents	the presently
	downstream and one	e-half mile u	pstream from your prop	erty auth	norized point of divers	ion.)	procently

14. If the proposed groundwater point of diversion is 300 of fewer feet from	If the existing point of diversion, complete the following.
(a) Does the undersigned represent all owners of the currently autho ☐ Yes ☐ No (If no, all owners must sign this application)	
<ul> <li>(b) Will the ownership interest of any owner of the currently authori affected if this application is approved as requested?</li> <li>☐ Yes</li> <li>☐ No</li> <li>(If yes, all owners must sign this application)</li> </ul>	
(c) If this application is not approved expeditiously, will there be subs ☐ Yes ☐ No (If no, all owners must sign this application)	
If the application proposes a surface water change in point of diversion, a or a change in place of use, the application must be signed by all owners agent (attach notarized statement authorizing representation).	
I hereby verify, being first duly sworn upon my oath or affirmating age and the owner, the spouse of the owner, or a duly authorize their behalf, in regards to the water right(s) to which this application are true, correct and complete.	zed agent of the owner(s) to make this application on
Dated at Sarden Lity, Kansas, this	day of Norman, 20 21.  (Spouse)
Gale Frank (Please Print)	Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Kansas County of SS	20th
I hereby certify that the foregoing application was signed in m of 20 .	ny presence and sworn to before me this day
My Commission Expires  JULIE JONES My Appointment Expires December 15, 2022	Notary Public
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all caccurate information; maps, if necessary, must be included; signatures of all the apthe appropriate fee must be paid.	
FEE SCHEDU	<u>LE</u>
Each application to change the place of use or the point of diversion under forth in the schedule below: Make checks payable to: <b>Kansas Departme</b> (1) Application to change a point of diversion 300 feet or less	ent of Agriculture
<ul> <li>(2) Application to change a point of diversion more than 300 feet</li> <li>(3) Application to change the place of use</li> </ul>	

Page 3

File No. \_\_\_\_\_

DWR 1-121 (Revised 09/11/2019)

#### 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. 3666 November 30,2021 A change application was received on 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. 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 The change in point of diversion shall not impair existing rights and shall be limited to the same source or sources of water as 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. 

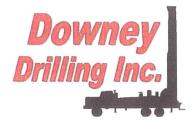
Applicable Not Applicable The point(s) of diversion authorized herein shall not actually be located more than authorized point(s) of diversion. 

Applicable 
Not Applicable feet from the previously 5. 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. ☐ Not Applicable Applicable The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before **December 31, 20** 22, 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. ☐ Not Applicable hstallation of the works for diversion of water shall be completed on or before December 31, 20 22, or within any authorized extension of time. By March 1, 20 23 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. ■ Not Applicable 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 No 11. Additional Conditions are attached. Yes 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 résult 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. FOR OFFICE USE ONLY Administrative Appeal and Effective Date of Order APPLICATION APPROVED AND If you are aggrieved by this order, pursuant to K.S.A. 82a-1901, SUMMARY ORDER ISSUED 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 Duly Authorized Designee of the Chief Engineer administrative review by the Secretary must be filed within 30 days pursuant to K.S.A. 77-531. Any request for administrative MICHAEZ A. MEYER (Print Name): review must state a basis for review pursuant to K.S.A. 77-527. Division of Water Resources - Kansas Department of Agriculture File any request with Kansas Department of Agriculture, Date of Issuance: Legal Division, 1320 Research Park Drive, Manhattan, KS 66502. Failure to timely request a hearing or review may State of Kansas preclude review under the Kansas Judicial Review Act. SS For Use by Register of Deeds County of Acknowledged before me on Signature: Notary Public JULIE JONES NOTARY My commission expires: My Appointment Expires PUBLIC : ¿ (Notarpo Sorador 15, 2022

Page 4

DWR 1-121 (Revised 09/11/2019)

File No.



CUSTOMER NAME: GALE FRANK

LEGAL: SWNW 4-27S-31W

COUNTY: HASKELL CO, KS

GPS: 37.728728

-100.723621

			LOGGER: DRILLER:	ROCKY			WO:	20-1263
rw	FROM	то	ТҮРЕ	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		SMOOTH
	7	15	GREEN CLAY	SOFT	GREEN	SEMI- SLOW		SMOOTH
	15	20	BROWN SILTY CLAY	SOFT	BROWN	FAST		SMOOTH
	20	26	SANDY CLAY W/ FINE SAND	SOFT	TAN	FAST		SMOOTH & VIBRATIO
	26	30	GREEN CLAY	SOFT	GREEN	SEMI- SLOW		SMOOTH
	30	40	SANDY CLAY W/ FINE SAND & CALICHE	SOFT	TAN & WHITE	FAST		SMOOTH & VIBRATIO
	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 & VIBRATIO
	150	163	FINE-MED-COARSE SAND	FIRM	IAN	FAST		FAST CHATTER
			SANDY CLAY W/ FINE-MED-COARSE SAND LAYERS & CEMENTED SAND LEDGES		YELLOW & WHITE	FAST		
-	163	175		FIRM				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	DDOUAN	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	FINE-MED-COARSE SAND W/ FINE GRAVEL STATIC 245'	SOFT	WHITE	FAST		SMOOTH
-	219	245	FINE-WED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST	-	FAST CHATTER
	245	267	CEMENTED SAND W/ FINE-MED-COARSE SAND & FINE GRAVEL	HARD	WHITE	FAST	<u> </u>	CHATTER
	267	271	SANDY CLAY	SOFT	TAN	FAST		SMOOTH
	271	276	FINE-MED-COARSE SAND W/ LIMEROCK	FIRM	WHITE	FAST		VIBRATION
1	276	292	FINE-MED-COARSE SAND W/ FINE-MED GRAVEL & LIMEROCK	STIFF	WHITE	FAST		CHATTER
	292	294	CEMENTED SAND FINE-MED-COARSE SAND W/ FINE-MED GRAVEL, LIMEROCK, SANDY CLAY	HARD	WHITE &	SLOW	X	CHATTER
	294	307	& CEMENTED SAND LEDGES	STIFF	TAN	FAST		FAST CHATTER
	307	312	SANDY CLAY WI FINE SAND	SOFT	TAN	FAST		SMOOTH & VIBRATIO
	312	316	CEMENTED SAND W/ FINE-MED-COARSE SAND & FINE GRAVEL	HARD	WHITE TAN &	FAST		CHATTER
	316	327	SANDY CLAY W/ CEMENTED SAND	FIRM	WHITE	FAST		SMOOTH & CHOPPY
	327	335	FINE-MED-COARSE SAND W/ CEMENTED SAND & SANDY CLAY LAYERS	FIRM	TAN &	FAST		FAST CHATTER
	335	346	SANDY CLAY W/ FINE SAND & CEMENTED SAND LEDGES FINE-MED-COARSE SAND W/ FINE-MED-LARGE GRAVEL & CEMENTED	FIRM	WHITE	FAST		SMOOTH & CHOPPY
	346	359	SAND	HARD	WHITE TAN &	FAST		CHATTER
	359	369	SANDY CLAY W/ FINE-MED SAND & CEMENTED SAND	FIRM	WHITE	FAST		SMOOTH & CHOPPY
	369	374	BROWN STICKY CLAY	STICKY	BROWN	FAST		SMOOTH

w	FROM	то	ТҮРЕ	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		BROWN	FAST		SMOOTH
$\neg$	394	438	FINE-MED SAND W/ SANDY CLAY & CEMENTED SAND LEDGES	FIRM	TAN & WHITE	FAST	7	FAST CHATTER & SMOOTH AT TIMES
	438	453	FINE-MED SAND W/ CEMENTED SAND & SANDY CLAY LAYERS	FIRM	WHITE &	1701		
	400	400	THE VIEW DAIND WY DENIENTED DAIND & SANDT CEAT EATERS	FIRIVI	GRAY, YELLOW &		<del></del>	CHOPPY & SMOOTH
4	453	459	WEATHERED SHALE W/ BROWN ROCK, SANDSTONE & FINE SAND	FIRM	BROWN YELLOW &	FAST	4	FAST CHATTER
_	459	468	SANDSTONE W/ FINE SAND & GRAY CLAY LEDGES	STIFF	GRAY BROWN &	SLOW		СНОРРУ
4	468	477	BROWN ROCK W/ SANDSTONE & FINE SAND	STIFF	YELLOW	FAST		FAST CHATTER
	477	494	SANDSTONE W/ FINE SAND & SOAPSTONE	STIFF	GRAY	SEMI- SLOW		СНОРРУ
	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		sмоотн
	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	1	FAST CHATTER
1	578	586	SHALE	SOFT	BLUE	SLOW	-	
$\neg$	586	594	GRAY CLAY	SOFT	GRAY	SLOW		SMOOTH SMOOTH
	594	600	SANDSTONE W/ FINE SAND & IRON PYRITE				v	
		614	SANDSTONE W/ FINE SAND, IRON PYRITE	HARD	GRAY	SLOW	X	CHATTER
	614	622	SHALE	STIFF	GRAY	FAST	-	FAST CHATTER
				SOFT	GRAY	SLOW		SMOOTH
	622	627	FINE SAND W/ SANDSTONE	STIFF	GRAY	FAST		FAST CHATTER
		629	HARD SPOT	HARD		FAST	X	CHATTER
$\neg$	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
$\dashv$	715	732	BLUE SHALE	SOFT	BLUE	SLOW		SMOOTH
-	732	733	HARD SPOT	HARD		SLOW	Х	CHATTER
4	733	740	BLUE SHALE	SOFT	BLUE	SLOW	-	SMOOTH
	740	769	FINE SAND W/ SANDSTONE & IRON PYRITE	STIFF	GRAY	FAST	-	СНОРРУ
4	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	х	СНОРРУ

		QUIKGEL - 7				OTHER / DRILLING ACTION
		WATER LOADS - 2				
		SODA ASH - 1/2				
		EZ MUD - 1/4				
+		HOLE PLUG - 2				
+	 	CASING SEAL - 1				
_	 					
+	 				 <b></b>	
+	 				 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
+	 					
+	 					
$\perp$	 					
$\bot$	 				 	· · · · · · · · · · · · · · · · · · ·
					 	WA. 400.
$\top$						
+						
+			<u> </u>			
+						
+						
+			<u> </u>		 	
+	 		<del> </del>		 <del> </del>	
+	 				 +	
+			<del> </del>		 +	
+	 		+	<del>                                     </del>	 <del>                                     </del>	
+	 				 +	
+	 				 -	
+	 			-	 1	<u></u>
+	 			<del> </del>		
$\perp$	 		-	<b> </b>	-	-
$\perp$	 		<b>_</b>		 <del> </del>	
			-		 	
	 				 -	ļ
				-	1	ļ
_						