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:	
26740		C1	04		03
6. Status: ☐ Approved ☐ Delate ☐ Del	nied by DWR/GMD	Dismiss by Reques	t/Failure to Return	7. Filing Date o	of Change:
				12/6	5/21
8a. Applicant(s) New to system □	Person ID 9535 Add Seg#	8c. Landowno		Person ID Add Seq#	
KLEYSTEUBER & GILLI 13060 S COUNTY RD 20 GARDEN CITY, KS 6784	EN INC				
8b. Landowner(s) New to system □	Person ID Add Seq#	8d. WUC New to sy	stem 🗌	Person ID Add Seq#	
8a		8A			
9. Documents and Enclosure(s): 🛛 D	WR Meter(s) Date to Compl	y: 12/31/22	⊠ N & P Date to	Comply:	3/1/21
☐ Anti-Reverse Meter ☐ Meter	Seal	☑ N & P Form	☑ Water Tube	riller Copy 🛛	H & E Letter
☐ Conservation Plan Date Requi	red: Da	te Approved:	Date to	Comply:	
10. Use Made of Water From:		To: _			
			Date Prepared: 12/10 / Date Entered:	/21 By: AN By:	1

File No. 26740	11. County: I	HS	Bas	sin: AF	RKAN	SASR	IVER			St	tream:								rmation Code: 1/331	Special Use:	
12. Points of Diversion CHK														Rate	and Q	uantity					
MOD														A	Nuthori	zed		Ad	dditional		
DEL PDIV ENT Qualifier	S	Т	R	ID		N	ʻW		Com	ment	(AKA I	Line)		Rate		Quantity af	r	Rate gpm		Overlap PD Files	
DEL 7709																					
ENT SE NW NE	17 2	.7S 3	32W		41	131	156	1						790		252		790	252	NONE	
															-						
13. Storage: Rate	N	F	Quar	ntity					ac/ft	Ad	ddition	al Rat	e				_ NF	Addi	tional Quantity _		_ac/ft
14. Limitation:	af/yr at				9	gpm (_				cfs) wh	nen co	mbine	ed with	file nu	umber	(s)					
Limitation:	af/yr at				9	gpm (_				cfs) wh	nen co	mbine	ed with	file nu	umber	(s)					
15. 5YR Allocation: Allocation	Туре	Sta	ırt Year			5 YR	Amou	nt		Amo	unt Ur	nit	_	Base	Acres		_ Co	mment _			
16. Place of Use CHK			NE	=1/4			NV	V ¹ / ₄			sv	V1/4			S	E1/4		Total	Owner Chg	? Overlap Files	
MOD DEL ENT PUSE S T R	ID	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	NE 1⁄4	NW 1/4	SW 1/4	SE 1/4				
CHK 4116	10																				
CHK 11509																					
CHK 14187																					
CHK 24542																					
CHK 29949																					
Base Acres: Year: Comments:	Mi	nimum	n Reas	onable	Quan	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 10, 2021

KLEYSTEUBER & GILLEN INC 13060 S COUNTY RD 20 GARDEN CITY, KS 67846-9711

RE: Filed Office Application for Change

Water Right, File No. 26740

Dear Sir or Madam:

Enclosed is the order 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 number.

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 order modifies the original document referred to above, it should be recorded with the Register of Deeds as other instruments affecting real estate.

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

Sincerely,

Austin J. McColloch

Assistant Water Commissioner

AM:

enclosures

pc: GROUNDWATER MANAGEMENT DISTRICT NO. 3

CERTIFICATE OF SERVICE

On this 10th day of December, 2021, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 26,740 dated 10th day of December, 2021 was mailed postage prepaid, first class, US mail to the following:

KLEYSTEUBER & GILLEN INC 13060 S COUNTY RD 20 GARDEN CITY, KS 67846-9711

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.

						ı	File No	. <u>2674</u>	0									RE	CEIVED
1. <i>A</i>	Application	is he	reby n	nade f	or app	roval c	of the C	Chief E	ngine	er to ch	nange	the (ch	eck or	ne or b	oth):				
						□ P	lace o	f Use		\boxtimes	Point	of Dive	ersion				_ 0	arden	City Field Offic
ι	under the v	vater	right w	vhich is	s the s	ubject	of this	applic	ation i	n acco	rdance	e with t	he co	ndition	s desc	ribed I	pelow.	ision o	of Water Resour
1	The source	of su	ipply is	S:		\boxtimes 0	Ground	water			Surfa	ce wate	er						
2. 1	Name and	addre	ess of	Applica	ant: <u>M</u>	ARK (GILLE	NTH#	2										
1	13060 S C	OUNT	TY RD	20 G/	ARDE	V CITY	′ KS 6	7846-9	711										
	Phone Nun								Email	addre	ss:								
1	Name and	addre	ess of	Water	Use C	orresp	onden	t: KLE	YSTE	UBER	& GIL	LEN II	VC						
_	13060 S C																		
	Phone Nun								Email	addre	ss:								
	The presen																		
(Owner of L	and -	NA	AME:															
(If there is m	ore th	an one	landov	vner, at	tach su	ippleme	ental sh	eets as	neces	sary.)								
		Danas		NE1/4				NV	V1/4			SW1/4					SE1/4		TOTAL ACRES
Sec.	Twp. R	ange	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	NIA474	SW1/4	SE1/4	ACRES
(f this applic	and -	NA Addri	AME: . ESS: .															
(If there is m	ore th	an one	landov	ner, at	tach su	ppleme	ental sh	eets as	neces	sary.)								
				NE					V1/4				V1/4				Ε½ Ι		TOTAL ACRES
Sec.	Twp. R	ange	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	NW1/4	SW1/4	SE1/4	AONES
_																			
	or Office	Hea	Only	Code		Fo	0 \$ 10	0.10	TR	#		Po	coint	Dato	21	21	Chac	k#	210

5.	Presently authorize	ed point of di	version:				
	One in the		Quarter of the	NC	Quarter of the	NE	Quarter
					South, Range		
- 1					1320 feet West of S		
- 1					Depth of well		
- 1					feet North		
					No change, point better de		
					ed or if existing point is		
					Quarter of the		
					South, Range		
	in HASKELL	Coun	ty Kansas 4131	feet North	1561 feet West of S	Southeast corne	er of section
					Proposed well depth (
					nts that will use this point		
L	This point is	ittoriai vvoii		ther water rigi	tto that will doc this point.		
ا ۵	Presently authorize	d point of di	varaioni				
6.					0		
	one in the		Quarter of the		Quarter of the		Quarter
	of Section		, Township		South, Range		(E/VV),
- 1					feet West of S		
					Depth of well		
	(DWR use only: Co	mputer ID N	o GP	'S	feet North	feet We	est)
					☐ No change, point better de		
					ed or if existing point is		
					Quarter of the		
	of Section		, Township		South, Range		(E/W),
	in	Coun	ty, Kansas,	_ feet North _	feet West of S	Southeast corne	er of section.
					Proposed well depth (
L	This point is: Add	litional Well	☐ Geo Center List o	ther water righ	nts that will use this point		·
7.			or the following reason	s?			
	(please be specific) _			300	North 200 100 0	100 200	300
				F	udunlundunin duntu	The same of the sa	шшд
				=			=
8.	If a well, is the test ho	le log attached	d? ⊠ Yes □ No	200	-1/4 + =	1 + 1 1	200
0	The section (1) (1)	20.1. 8		200		1 1 1 1	1 3 200
9.	The change(s) (was)(v	will be) comple	eted by?				100
				100		1 + 1 +	100
10	If the point of diversion	a ia a wall:		#	=		4
10.	If the point of diversion		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E			
	(a) What are you going	ng to do with t	he old well?	westu	= ⊷dundinulunlundinulun ® in	umdianimaln	East
	8/0m (1	2		Ŧ.			7
				100	\	1 + 1 +	100
	(b) When will this be	done?		E			/=
	0			=			/ =
11.			ecommendation attache	d? 200 =	-14 1+1=	+ +/	200
	☐ Yes	≥ No		E	\ - =	-/-	4
12	Assisted by AT/GCFO)		Ē	mlandandan da d a	4	السلس
				300	200 100 0 South	100 200 Scale: 1 hashma	300 ark=10 ft
13a	. If the proposed point o feet but within 2,640 fe	f diversion will eet of the exist	be relocated more than ing point of diversion, att	300 tach 13b.If the	proposed point of diversio		(a)

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

3b. 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	om the existing point of diversion, complete the following:
(a) Does the undersigned represent all owners of the currently authors ☐ Yes ☐ No (If no, all owners must sign this applied)	
 (b) Will the ownership interest of any owner of the currently author 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 sub ☐ Yes ☐ No (If no, all owners must sign this applic	
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 affirm age and the owner, the spouse of the owner, or a duly author their behalf, in regards to the water right(s) to which this appropriate true, correct and complete.	zed agent of the owner(s) to make this application on dication pertains. I further verify that the statements
Dated at, Kansas, this	6th day of Necember, 20 21.
KleysTeyber & Gillen Inc.	(Spouse)
H. Dennis KleysTealer (Please Parit)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Kansas County of	, 44
I hereby certify that the foregoing application was signed in r	
My Commission Expires JULIE JONES My Appointment Expires December 15, 2022	Notary Public
ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. To be complete, all accurate information; maps, if necessary, must be included; signatures of all the apthe appropriate fee must be paid.	
Each application to change the place of use or the point of diversion under forth in the schedule below: Make checks payable to: Kansas Departme (1) Application to change a point of diversion 300 feet or less (2) Application to change a point of diversion more than 300 feet (3) Application to change the place of use	r this section shall be accompanied by the application fee set ent of Agriculture \$100 \$200
7-1	

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. 26740 A change application was received on December 6, 1505 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 previously authorized. The point of diversion authorized by this summary order shall be located within a foot radius of the authorized point(s) of diversion. 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 300 5. feet from the previously 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 ☐ Not Applicable K.A.R. 5-6-13. Applicable The owner of the authorized place(s) of use shall properly install an acceptable water flow meter on or before **December 31, 20** ____, 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 Installation of the works for diversion of water shall be completed on or before December 31, 20 \(\frac{1}{2}\), or within any authorized extension of time. By March 1, 20 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 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 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 FOR OFFICE USE ONLY 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 review must state a basis for review pursuant to K.S.A. 77-527. McCollock (Print Name): Hustin Division of Water Resources - Kansas Department of Agriculture File any request with Kansas Department of Agriculture, 202 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 ember 10, 2021 Acknowledged before me on Signature: Notary Public JULIE JONES NOTARY My commission expires: My Appointment Expires Public Notary Segment 15, 2022

File No. 26740

Downey Drilling Inc.

CUSTOMER NAME: MARK GILLEN TH#2

LEGAL: NE 17-275-32W WR 76740

COUNTY: HASKELL CO, KS

GPS: 37.704483

-100.839837

			LOGGER: DRILLER:	ROCKY			WO:	21-030
rw	FROM	то	TYPE	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	00	2	TOPSOIL	SOFT	BROWN	FAST		SMOOTH
	2	12	BROWN SILTY CLAY	SOFT	BROWN	FAST		SMOOTH
	12	18	SANDY CLAY W/ FINE SAND	SOFT	BROWN	FAST		SMOOTH
	18	27	FINE SAND	SOFT		FAST		SMOOTH
	27	35	SANDY CLAY W/ FINE SAND	STIFF	BROWN	SEMI- SLOW		SMOOTH & VIBRATION
	35	53	FINE-MED-COARSE SAND	STIFF		FAST		VIBRATION
	53	76	FINE-MED-COARSE SAND W/ FINE-MED GRAVEL	STIFF		FAST		FAST CHATTER
	76	85	FINE-MED-COARSE SAND W/ FINE-MED-LARGE GRAVEL	STIFF		FAST		CHATTER
	85	95	FINE-MED-COARSE SAND W/ FINE-MED-LARGE GRAVEL W/ BIG ROCKS	FIRM		FAST		CHATTER
	95	114	FINE-MED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST		FAST CHATTER
	114	116	FINE-MED-COARSE SAND W/ CEMENTED SAND	FIRM		FAST		CHATTER
	116	118	BROWN CLAY	SOFT	BROWN	FAST		SMOOTH
	118	125	FINE-MED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST		FAST CHATTER
	125	148	FINE-MED-COARSE SAND W/ FINE-MED GRAVEL	STIFF		FAST		CHATTER
	148	165	FINE-MED-COARSE SAND W/ SANDY CLAY LEDGES	STIFF	BROWN	FAST		SMOOTH & FAST CHATTER
	165		CEMENTED SAND W/ FINE-MED-COARSE SAND, FINE-MED GRAVEL	HARD	WHITE, BROWN	SLOW	×	CHATTER
		173	SANDY CLAY LEDGES	HARD	WHITE & BROWN	SLOW	×	CHATTER
7	173	181	SANDY CLAY W/ FINE-MED-COARSE SAND	SOFT	BROWN	FAST		VIBRATION
\neg	181	184	FINE-MED-COARSE SAND	STIFF		FAST		FAST CHATTER
\top	184	185	SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
\top	185	197	FINE-MED-COARSE SAND	STIFF		FAST		FAST CHATTER
\forall	197	198	CEMENTED SAND	HARD	WHITE	SLOW	x	CHATTER
\neg	198	209	SANDY CLAY W/BROWN STICKY CLAY	SOFT	BROWN	FAST		SMOOTH & VIBRATION
1	209	227	BLUE CLAY	SOFT	BLUE	FAST		SMOOTH
\neg	227	245	BLUE CLAY W/ GREEN SOAPSTONE	SOFT	BLUE, GREEN	FAST		SMOOTH, CHOPPY
\neg	245	254	BLUE SOAPSTONE W/ SANDSTONE LEDGES	SOFT	BLUE	FAST		СНОРРУ
	254	257	SANDSTONE	HARD	GRAY	SLOW	x	CHATTER
	257	288	SOAPSTONE W/ SANDSTONE W/ FINE SAND	SOFT	GRAY, BLUE	FAST		CHATTER, SMOOTH
1	288	296	GRAY SILTY CLAY W/ SOAPSTONE LEDGES	STIFF	GRAY	SLOW	x	SMOOTH & CHATTE
7	296	310	GRAY SILTY CLAY STATIC	SOFT	GRAY	FAST		SMOOTH
	310	310	FINE-MED-COARSE SAND W/ FINE GRAVEL W/ BROWN	STIFF	BROWN & WHITE	FAST	-	FAST CHATTER
1	10	330	ROCK W/LIMEROCK	STIFF	BROWN & WHITE	FAST		FAST CHATTER
1	330	347	FINE-MED-COARSE SAND W/ FINE GRAVEL	STIFF		FAST		FAST CHATTER
+	347	370	THE WILD GOARD WITHE GRAVEE		-	FAST	-1-7-2	12
	047	3/0	FINE-MED-COARSE SAND	STIFF		L'AST		CHOPPY
	370	389	FINE-MED-COARSE SAND W/ CEMENTED SAND W/ SANDY CLAY LEDGES	SOFT	BROWN	FAST		CHOPPY

TW	FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
X	402	410	CEMENTED SAND, FINE-MED SAND W/ LIMEROCK	STIFF	WHITE & BROWN	FAST		FAST CHATTER
X	410	432	SANDY CLAY W/ FINE SAND W/ CEMENTED SAND LEDGES	STIFF		FAST	7	СНОРРУ
X	432	451	FINE-MED SAND CEMENTED SAND W/ SANDY CLAY LEDGES	STIFF	BROWN	FAST	9 1	СНОРРУ
X	451	455	FINE-MED SAND W/ BROWN ROCK	STIFF	BROWN	FAST	7 /	FAST CHATTER
X	455	473	WEATHERED CLAY W/ BROWN ROCK	SOFT	BROWN	FAST		СНОРРУ
X	473	484	SHALE W/ SANDSTONE LEDGES	SOFT	BLUE, GRAY	SLOW		CHOPPY
Х	484	493	SOAPSTONE W/ SANDSTONE W/ FINE SAND	STIFF	GRAY	SLOW	x	CHOPPY & CHATTER
X	493	498	HARD SPOT (PULL DOWN 1000 PSI)	HARD		SLOW	×	CHATTER
	498	507	SHALE W/ SANDSTONE LEDGES	STIFF	BLUE GRAY	SLOW	×	CHOPPY CHATTER
	507	515	SHALE	SOFT	GRAY	SLOW		SMOOTH
	515	523	SHALE W/ BROWN SILTY CLAY W/ SANDSTONE LEDGES	HARD	BROWN	SLOW		CHATTER
	523	532	GRAY CLAY	STIFF	GRAY	SEMI- SLOW		СНОРРУ
Х	532	539	SANDSTONE W/ FINE SAND	HARD	GRAY	SLOW	x	CHATTER
	539	548	GRAY CLAY	SOFT	GRAY	SEMI- SLOW		sмоотн
X	548	556	FINE SAND W/ SANDSTONE	STIFF	GRAY	FAST		СНОРРУ
	556	562	GRAY CLAY	SOFT	GRAY	SEMI- SLOW		SMOOTH
	562	565	HARD SPOT (PULL DOWN 1000 PSI)	HARD		SLOW	×	CHATTER
	565	575	GRAY CLAY W/ SANDSTONE W/ FINE SAND	FIRM	GRAY	SLOW	x	CHATTER
-	575	588	SHALE	STIFF	GRAY, RED	SLOW	×	SMOOTH
	588	590	HARD SPOT	HARD		SLOW	x	CHATTER
	590	600	SHALE	STIFF	GRAY, RED	SLOW		SMOOTH
	600	617	SHALE W/ SANDSTONE LEDGES	STIFF	GRAY, RED		×	CHOPPY, CHATTER
	617	625	SOAPSTONE W/ SANDSTONE	FIRM	BLUE	SEMI- SLOW		CHOPPY, CHATTER
X	625	628	SANDSTONE	STIFF	GRAY	FAST		CHATTER
	628	633	HARD SPOT	HARD		SLOW	×	СНОРРУ
	633	641	SHALE W/ SANDSTONE LEDGES	STIFF	BLUE GRAY	SLOW	x	CHOPPY & CHATTER
	641	643	HARD SPOT (PULL DOWN 1000 PSI)	HARD		SLOW	x	CHATTER
	643	654	SHALE	STIFF	BLUE	SLOW	x	SMOOTH
	654	660	HARD SPOT	HARD		SLOW	×	CHATTER
			QUIKGEL - 12					
			WATER LOADS - 2-1/2					
			SODA ASH - 3/4					
			EZ MUD - 1/2					
			HOLE PLUG - 2					
			CASING SEAL - 1					