# Kansas Department of Agriculture Division of Water Resources

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

1. File Number: <b>25503</b>	2. Status Change Date:	3. Change Num:	4. Field Office:	5. GMD:
6. Status: Approved Deni	Iied by DWR/GMD ☐	Dismiss by Reques	t/Failure to Return	7. Filing Date of Change: <b>4/16/2021</b>
8a. Applicant(s) New to system □	Person ID 40187 Add Seq#	8c. Landowne		Person IDAdd Seq#
J B CIRCLE LAND INC 9520 S HANDS RD GARDEN CITY, KS 67840	5-8921			
8b. Landowner(s)  New to system □	Person ID Add Seq#	8d. WUC New to sy	stem 🗌	Person IDAdd Seq#
8a		8a		
9. Documents and Enclosure(s): 🛛 DV	VR Meter(s) Date to Comp	ly: 12/31/2021	N & P Date to	Comply: <u>3/1/2022</u>
☐ Anti-Reverse Meter ☐ Meter☐ Conservation Plan ☐ Date Requir				riller Copy
10. Use Made of Water From:		To: _		
			Date Prepared: <b>4/19/2</b> Date Entered:	<b>2021</b> By: <b>AM</b> By:

File No.	25503	3	11. County	y: FI	Ва	asin: Al	RKAN	SAS F	RIVER			S	tream:								rmation Code: 1/331	Special Use:	
12. Poi CHK	nts of Dive	ersion														Rate	and Qı	uantity					
MOD DEL	PDIV														P	Authori	zed		A	dditional			
ENT	PDIV	Qualifier	S	Т	R	ID		'N	ʻW		Com	ment	(AKA	Line)		Rate		Quantit af	у	Rate gpm		Overlap PD Files	
DEL	54759																						
ENT		NE SW NE	31	26S	33W		3	775	143	4						775	5	260		775	260	NONE	
MOD	5306	SW NE SW	31	26S	33W	03	1	355	381	8						700	)	260		700	260	NONE	
MOD	23528	SE NW SE	31	26S	33W	04	1	344	132	3						750	)	260		750	260	NONE	
MOD	82630	SE SE NW	31	26S	33W	05	2	735	279	5						785	5	260		785	260	NONE	
13. Stor	age: Rate	e		NF	Qua	ntity _					ac/ft	Α	dditior	ıal Rat	e				NF	Addi	tional Quantity _		_ ac/ft
Lim	itation:		af/yr	r at				gpm (_				cfs) w	hen co	mbine	ed with	file n	umber	(s)					
15. 5YF	Allocation	n: Allocation	Туре	_ s	tart Yea	ır	_	5 YR	Amou	nt		Amo	ount U	nit	_	Base	Acres		_ C	omment _			
CHK	ce of Use				N	E1/4			NV	V¹/4			sv	<b>V</b> ½			S	E1/4		Total	Total Owner Chg? Overlap Files		
MOD DEL ENT	PUSE	STR	ID	NE 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				
снк 9																							
Base A		Year:			ım Rea				MO	VE C	ON C	NIE '	A/F	1.0	TUF	- D \A	/E!!	e IID	DAT	INC P	ASED ON G	· ne	

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

April 19, 2021

J B CIRCLE LAND INC 9520 S HANDS RD GARDEN CITY, KS 67846-8921

RE:

Water Right, File No. 25503

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 19<sup>th</sup> day of April, 2021, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, Water Right, File No. 25,503 dated 19<sup>th</sup> day of April, 2021 was mailed postage prepaid, first class, US mail to the following:

J B CIRCLE LAND INC 9520 S HANDS RD GARDEN CITY, KS 67846-8921

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

		ľ	lace o														F	-	EIVED
						F	File No	. <u>2550</u>	)3										1 6 2021
1.	Applicati	on is he	ereby r	nade f	or app	roval c	of the C	Chief E	inginee	er to ch	nange	the (ch	neck or	ne or b	oth):		Ga	rdon C	City Field Office
						□ P	lace o	f Use		×,	Point	of Dive	ersion				Divis	ion of	Water Resour
	under the	e water	right v	vhich is	s the s	ubject	of this	applic	ation i	n acco	rdanc	e with	the co	ndition	s desc	ribed l	oelow.		
	The sour	ce of s	upply i	s:		₩ G	round	water			Surfa	ce wat	er						
	Name ar	nd addr	ess of	Applic:	ant .I	B CIR	CLET	AND II	NC.										
	9520 S F								10										
	Phone N								Email	addre	SS:								
	Name ar								ME AS	ABO\	/E								
	-																		
	Phone N	umber:		)					Email	addre	ss:								
	The pres	ently a	uthoriz	ed pla	ce of u	se is:													
	Owner of	f Land -	NA	AME:	NO CH	HANGE	Ξ												
		,	ADDRI	ESS:															
	(If there is	more th	an one	landov	vner, at	tach su	ippleme	ental sh	eets as	neces	sary.)								
				NE	Ξ1/4		NW1/4					SW1/4					Ξ1/4		TOTAL
Se	c. 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	NW1/4	SW1/4	SE1/4	ACRES
				_															
_																			
	If this app	plicatio	n is for	a cha	nge in	place	of use	it is p	ropose	ed that	the pl	ace of	use be	e chan	ged to	:			
	Owner of	f Land -	NA	AME:															
		,	ADDRI	ESS:															
	(If there is	more th	an one	landov	vner, at	tach su	ppleme	ental sh	eets as	neces	sary.)								
				NE	1/4			NV	V1/4			SV	V1/4			SE	1/4		TOTAL
Sec	c. 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	NW1/4	SW1/4	SE1/4	ACRES

5.	Presently author	ized point of	diversion:				
	One in the		Quarter of the	NC	Quarter of the	NE	Quarter
	of Section	31	, Township	26	South, Range	33	(W),
	in <u>Fl</u>	Coi	unty, Kansas, <u>3960</u>	_ feet North _	1345 feet West of	Southeast corner	r of section.
					Depth of well		
	(DWR use only:	Computer ID	No. 64 0\ GP	S	feet North	feet We	st)
					No change, point better o		
	Proposed point of	of diversion:	Complete only if change	je is requeste	ed or if existing point is	better describe	d by GPS)
	One in the	NE	Quarter of the	SW	Quarter of the	NE	Quarter
	of Section	31	, Township	26	South, Range	33	(VV),
	in <u>FI</u>	Cou	unty, Kansas, <u>3775</u>	_ feet North _	1434 feet West of	Southeast corner	of section.
					Proposed well depth		
Į	This point is:	Additional Well	☐ Geo Center List o	ther water rigl	hts that will use this point		·
ا ہ	Presently author	ized point of	divorcion:				
6.				NC	Quarter of the	SW	Quarter
					South, Range		
					3935 feet West of		
					Depth of well		
					feet North		
					No change, point better de		
	Proposed point of	of diversion: (	Complete only if change	e is requeste	ed or if existing point is	better describe	d by GPS)
	One in the	SW	Quarter of the	NE	Quarter of the	SW	Quarter
					South, Range		
					3818 feet West of S		
	Proposed Rate		Proposed Quantity		Proposed well depth	(feet)	
L	This point is: A	dditional Well	☐ Geo Center List o	ther water righ	nts that will use this point		
7.	The changes here	in are desired	for the following reasons	s?			
					North		
				300	) 200 100 0	100 200	300 ПТТТЧ
8.	If a well, is the test	hole log attach	ed? Xes No	200	- + + + =	1 + 1 +	200
				200	-1/+   +   =	+ + +	200
9.	The change(s) (was	s)(will be) com	oleted by?	E	-/ =		
				100	<i>+</i>	1 + 1 +	100
10	If the point of divers	sion is a well.		#			4
10.	•		the old well?	West 0		doolootooloo	1 0 Fast
	(a) What are you o	going to do with	i the old well?				3
				<u> </u>	I I I I I		<b>1</b>
	(b) When will this I	be done?		100	1 + 1 + 1 =	1 + 1 +	100
				E	- \ =		/=
11.			recommendation attached	d? 200 E	-1 🕂 । 👆 । 🚊	+++	200
	☐ Ye	es 🛛 No		E	\ _ =	_ /_	4
12	Assisted by			Ē		<del></del>	طسلة
				300	200 100 0 South	100 200 Scale: 1 hashmar	300 k=10 ft
13a	If the proposed poin	t of diversion w	ill he relocated more than t	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 on the diagram shown above in relation to the existing point of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius of the existing point of diversion will be relocated within a 300 foot radius 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

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.)

# APPLICATION FOR APPROVAL TO CHANGE THE PLACE OF USE AND/OR POINT OF DIVERSION

#### SUPPLEMENTAL SHEET

FILE NO. <u>25503</u>

Presently authorize	zed point o	f diversion:				
One in the		Quarter of the	NC	Quarter of the	SE	Quarter
of Section	31	Quarter of the, Townshipounty, Kansas,1320	26	South Range	33	(W)
in FI	С	ounty, Kansas. 1320	feet North	1295 feet West of S	Southeast corne	er of section
Authorized Rate		Authorized Quantity		Depth of well	(fe	et)
(DWR use only: C	omputer I	Authorized Quantity  D No. 04 GF	PS .	feet North	feet We	est)
This point will not	be changed	This point will be char	nged as follows	: No change, point better	described with G	PS as follows:
Proposed point of	diversion	: (Complete only if chang	ge is request	ed)		
One in the	SE	Quarter of the	NW	Quarter of the	SE	Quarter
of Section	31	Quarter of the , Township	26	South, Range	33	(W).
in FI	C	ounty, Kansas, 1344	feet North	1323 feet West of S	Southeast corne	er of section.
Proposed Rate		ounty, Kansas, 1344 Proposed Quantity		Proposed well depth	(feet)	
This point is:	dditional We	ell Geo Center List o	ther water rig	hts that will use this point		
Presently authorize						
One in the	SE	Quarter of the	SE	Quarter of the	NW	Quarter
of Section	31	, Township	26	South, Range	33	(W),
in <u>FI</u>	C	ounty, Kansas, <u>2739</u>	_ feet North _	2722 feet West of S	Southeast corne	er of section.
Authorized Rate		Authorized Quantity		Depth of well	(fee	et)
(DWR use only: C	omputer II	D No. 05 GP	S	feet North	feet We	est)
☐ This point will not	be changed	This point will be char	nged as follows	: ☑ No change, point better	described with G	PS as follows:
Proposed point of	diversion	(Complete only if change	ge is requeste	ed)		
One in the	SE	Quarter of the	SE	Quarter of the	NW	Quarter
of Section	31	Township	26	South Range	33	(VV)
in FI	Co	ounty, Kansas, 2735	feet North	2795 feet West of S	Southeast corne	er of section.
Proposed Rate		ounty, Kansas, <u>2735</u> Proposed Quantity _		Proposed well depth	(feet)	
This point is:	ditional We	ell Geo Center List o	ther water rigi	hts that will use this point		
Presently authoriz						
One in the		Quarter of the		Quarter of the		Quarter
I of Section		. Township		South, Range		(F/W)
in	Co	ounty, Kansas,	feet North	feet West of S	Southeast corne	er of section.
Authorized Rate		Authorized Quantity O No GP		Depth of well	(fee	et)
(DWR use only: C	omputer II	O No GP	S	feet North	feet We	est)
☐ This point will not	be changed	☐ This point will be char	ged as follows:	□ No change, point better	described with G	PS as follows:
		(Complete only if change				
One in the		Quarter of the		Quarter of the		Quarter
of Section		, Township		South, Range		(E/W).
in	Co	ounty, Kansas,	feet North	feet West of S	Southeast corne	er of section.
Proposed Rate		Quarter of the, Township punty, Kansas, Proposed Quantity _		Proposed well depth	(feet)	
This point is:	Iditional We	☐ Geo Center List o	ther water rigi	nts that will use this point	. ,	

14. If the proposed groundwater point of diversion is 300 or fewer feet fro	om the existing point of diversion, complete the following:
<ul><li>(a) Does the undersigned represent all owners of the currently author</li><li>☐ Yes</li><li>☐ No</li><li>(If no, all owners must sign this application)</li></ul>	
<ul> <li>(b) Will the ownership interest of any owner of the currently author 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 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 authori their behalf, in regards to the water right(s) to which this appropriate in this application are true, correct and complete.	ized agent of the owner(s) to make this application on
Dated at Garden City, Kansas, this, Kansas, this, (Owner)	15 day of (1) , 20 21 (Spouse)
Janet S. Hands (Please Print)	Samuel Li Hands (Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
(Owner)	(Spouse)
(Please Print)	(Please Print)
State of Kansas ) SS	
I hereby certify that the foregoing application was signed in rof 2021.	my presence and sworn to before me this 15th day
My Commission Expires 1/30/2025	Spolie S. Monton 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.	of the applicable portions of the application form must be completed with oppopriate owners' must be affixed to the application and notarized; and
FEE SCHEDU	<u>JLE</u>
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	ent of Agriculture

#### 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. 25503 A change application was received on Agril 12051 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 summary order shall b 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 Dot Applicable The point(s) of diversion authorized herein shall not actually be located more than authorized point(s) of diversion. 
☐ Applicable ☐ Not Applicable 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 K.A.R. 5-6-13. Applicable ☐ Not 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. ☐ Not Applicable ≥ Applicable Installation of the works for diversion of water shall be completed on or before December 31, 202, 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 11. Additional Conditions are attached. No. 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. 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 Mcchock (Print Name): Hostin 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, 207 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 STATE OF JULIE JONES My commission expires My Appointment Expires PUBLIC (Notatoen Seals, 2022

Downey Drilling Inc.

CUSTOMER NAME: JB CIRCLE LAND, INC. TH#2 J3-7

25503

LEGAL: NE 31-26S-33W

COUNTY: FINNEY CO, KS

GPS: N 37.747132

W-100.967149

			LOGGER: DRILLER	DIEGO VAL	LE		WO:	20-1351
TW	FROM	то	TYPE	HARDNESS		SPEED	PULL DOWN	OTHER / DRILLING ACTION
	0	4	TOPSOIL	SOFT	BROWN	FAST		sмоотн
	4	8	SILTY SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
	8	37	SILTY CLAY W/ FINE SAND	SOFT	BROWN	FAST		SMOOTH & VIBRATION
	37	47	SILTY CLAY W/ WHITE CLAY & FINE SAND	SOFT	BROWN & WHITE	FAST		SMOOTH & VIBRATION
	47	91	MED-COARSE W/ FINE-MED GRAVEL	SOFT	RED / TAN	FAST		CHATTER
	91	96	SANDY CLAY	SOFT	TAN	FAST		SMOOTH
	96	113	MED-COARSE SAND W/ FINE GRAVEL	SOFT	RED / TAN	FAST		CHATTER
	113	116	SAND, SANDY CLAY	SOFT	BROWN	FAST		SMOOTH
	120	138	MED-COARSE SAND W/ FINE GRAVEL	SOFT	RED / TAN	FAST		FAST CHATTER
	138	149	SANDY CLAY	SOFT	TAN	FAST		SMOOTH
	149	163	MED-COARSE SAND	SOFT	BROWN / TAN	FAST		FAST CHATTER
	163	173	GRAY & BROWN CLAY W/ CEMENTED SAND LAYERS	SOFT & FIRM	GRAY & BROWN	FAST		SMOOTH & CHOPPY
	173	204	MED-COARSE SAND W/ FINE GRAVEL	SOFT	RED / TAN	FAST		FAST CHATTER
	204	217	SANDY CLAY	SOFT	TAN	FAST		SMOOTH
	271	231	MED-COARSE SAND W/ FINE GRAVEL	SOFT	RED / TAN	FAST		FAST CHATTER
	231	242	CLAY, SANDY CLAY	STICKY	BROWN	FAST		SMOOTH
	242	260	CLAY	STICKY	BLUE	FAST		SMOOTH
	260	279	MED-COARSE SAND, FINE GRAVEL	SOFT	RED / TAN	FAST		FAST CHATTER
	279	284	CLAY STATIC 292'	STICKY	BLUE & BROWN	FAST		SMOOTH
	284	299	FINE-MED-COARSE SAND	SOFTER	BROWN	FAST		FAST CHATTER
į	299	329	MED-COARSE SAND, FINE GRAVEL 30	SOFT	RED / TAN	FAST		FAST CHATTER
	329	334	CLAY	STICKY	BROWN	FAST		SMOOTH
	334	349	MED-COARSE SAND	SOFT	BROWN	FAST		FAST CHATTER
	349	352	SANDYCLAY	STICKY	BROWN	FAST		SMOOTH
	352	374	MED-COARSE SAND, TR. FINE GRAVEL 22	SOFT	RED/TAN	FAST		FAST CHATTER
	374	396	SANDY CLAY	STICKY	BROWN	FAST		SMOOTH
	396	398	FINE-MED-COARSE SAND 2	SOFT	TAN	FAST		FAST CHATTER
	398	408	SANDY CLAY W/ FINE SAND	SOFT	TAN	FAST		SMOOTH & VIBRATION
	408	415	FINE SAND 7	SOFT	TAN	FAST		VIBRATION
	415	445	SANDY CLAY W/ FINE SAND & CEMENTED SAND LAYERS	SOFT & FIRM	TAN	FAST		SMOOTH & CHOPPY
	445	481	FINE-MED-COARSE SAND W/ LIMEROCK LAYERS 36	SOFTER	BROWN	FAST		FAST CHATTER
	481	489	WEATHERED SHALE	STIFF	YELLOW	FAST		SMOOTH
X	489	530	BROWN ROCK W/ SANDSTONE, MED SAND	SOFTER	BROWN	FAST		FAST CHATTER
	530	542	SHALE	STIFF	BLUE	SLOW		sмоотн
	542	546	SANDSTONE	SOFTER	TAN	FAST		FAST CHATTER
	546	564	SHALE	STIFF	BLUE	SLOW		SMOOTH

TW	FROM	то	ТҮРЕ	HARDNESS	COLOR	SPEED	PULL DOWN	OTHER / DRILLING ACTION
	564	565	SANDSTONE	SOFTER	TAN	FAST		FAST CHATTER
	565	567	SHALE	STIFF	BLUE	SLOW		SMOOTH
	567	574	SANDSTONE 7	SOFTER	TAN	FAST		FAST CHATTER
	574	576	SHALE	SOFT	BLUE	SLOW		SMOOTH
1	576	580	SANDSTONE	SOFTER	TAN	FAST		FAST CHATTER
	580	584	SHALE	STIFF	BLUE	SLOW		SMOOTH
	584	586	SANDSTONE 2	SOFTER	TAN	FAST		FAST CHATTER
X	586	593	SANDSTONE 7	FIRMER	TAN	FAST	x	CHATTER
	593	604	SHALE	STIFF	BLUE	SLOW		SMOOTH
	604	621	SANDSTONE 17	SOFTER	LT. TAN	FAST		FAST CHATTER
	621	633	SHALE	STIFF	BLUE	SLOW		SMOOTH
1	633	644	SANDSTONE	SOFTER	LT. TAN	FAST		FAST CHATTER
	644	646	SHALE	STIFF	BLUE	SLOW		SMOOTH
	646	662	SANDSTONE W/ FINE SAND	SOFTER	LT. TAN	FAST		FAST CHATTER & VIBRATION
	662	680	SHALE	SOFT	BLUE	SLOW		SMOOTH
			110					
			QUIKGEL - 14					
			WATER LOADS - 4					
			BRAN-3 OCOALIAU	+ =	119			
			BRAN - 3 OCOHILAUS					
			HOLE PLUG-2 ATHERTA	4.)	110			
			CASING SEAL - 1					
			SODA ASH - 1/2		229			
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