

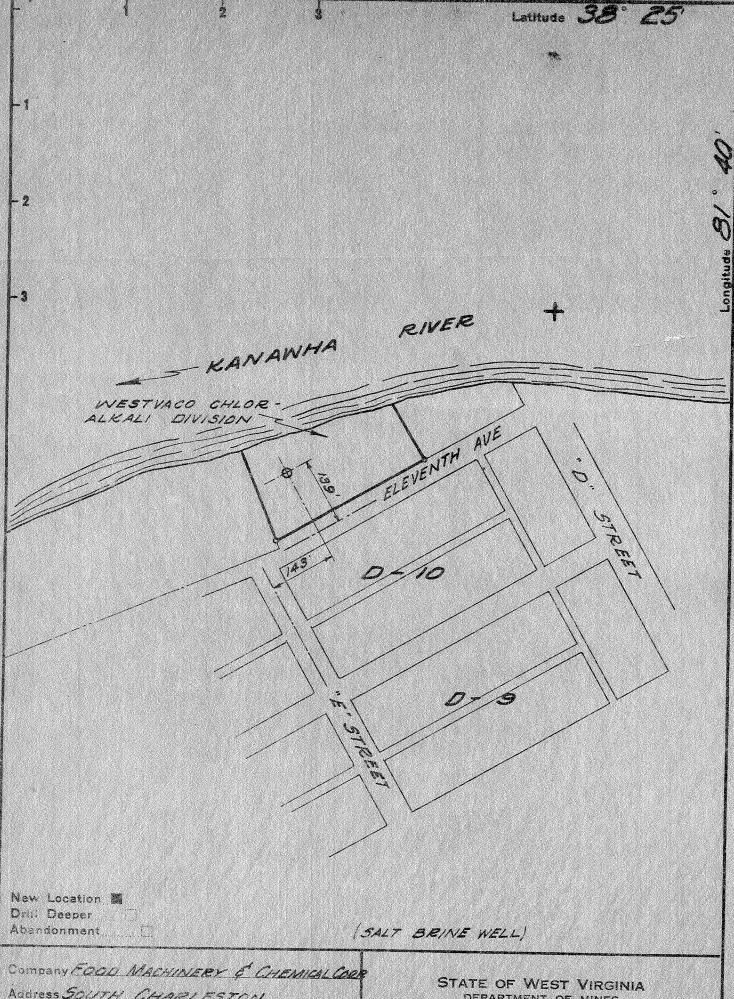
CSD\_\_\_ Mflm\_\_

Deep Hell

JUL 21 1975

M D. D. 4-17/70CEN - 2 1,870 9 RIVER - KANAWHA WESTVACO CHLOR DIVISION Now-Education...[] Drill Deeper....... (SALT BRINE WELL) Abandonment...... Company Eaga MACHINERY & CHEMICAL CORP STATE OF WEST VIRGINIA DEPARTMENT OF MINES Address SOUTH CHARLESTON, W.VA. 25303 OL AND GAS DIVISION Farm MESTUACO CHLOR - ALKALI DIVISIAN CHARLESTON Tract\_\_\_\_\_Acres 407\_Lease No.\_\_ WELL LOCATION MAP Well (Farm) No. \_\_\_\_\_ Serial No. 2-1 FILE NO. KAN-1636-D.D. Elevation (Spirit Level) 600.85 Quadrangle CHARLESTON WO Denotes location of well on United States Gounty KANANHA District LOUDON Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented Engineer & W Mudd by border lines as shown. Engineer's Registration No. 2540 - Denotes one inch spaces on border line File No. PF-20003 Drawing No. of original tracing. Date 10-24-55 Scale 1"= 200 Reep Well (newburgh 27 1970 WE TRACING CLOTH T.M.

Return to Wal . 1 ... B - 3 RIVER - KANAWHA WESTVACO CHLOR ELEVENTH AVE DIVISION ALKALI 3.22 5. 1.85 W. No Samples or Cores New Location, M Drill Deeper..... (SALT BRING WELL) Abandonment...... 4-6 (5-5) Company <u>FOOD MACHINERY & CHEMICAL COR</u> STATE OF WEST VIRGINIA DEPARTMENT OF MINES Address SOUTH CHARLESTON OIL AND GAS DIVISION Farm WESTVACO CHIOR - ALKALI DIVISION CHARLESTON Tract\_\_\_\_\_Acres 407\_Lease No.\_ WELL LOCATION MAP Well (Farm) No. \_\_\_\_ Serial No. X -/-FILE NO. KAN-1636 Elevation (Spirit Level) 600.86 Quadrangle CHARLESTON -W.C. 4 Denotes location of well on United States County KANAWHA District LOUDON Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented Engineer 6. W. Mudd by border lines as shown. Engineer's Registration No. 2540 - Denotes one inch spaces on border line File No. PF-20003 Drawing No. of original tracing. Date 10-24-55 Scale / "= 200 ' Deep Well Well was cored all the was donn;



Company FOOD MACHINERY & CHEMICAL COOR
Address SOLITH CHARLESTON

Farm MESTVACO CHLOR-ALKALI DINISION

Tract\_\_\_\_\_ Acres LOT\_ Lease No.

Well (Farm) No. \_\_ / Serial No. Y-/

Elevation (Spirit Level) 600.86

Quadrangle CHARLESTON

County KANAWHA District LOLIDON

Engineer \_\_ C. W. Y. W. L.

Engineer's Registration No. 2540

File No. PF-20003 Drawing No.

Date 10-24-55 Scale /"= 200"

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

# WELL LOCATION MAP

- + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line of original tracing.



## DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

Spudder Cable Tools

Rotary

Storage

X

Quadrangle

WELL RECORD

'ermit No. KAN-1636-DD	WELmLm F	RECORD		Oil or (	Gas Well (KIND)
ompany FMC Corp., Natural R	es. Dept.	Classing wood Tanksing	Used in Drilling	læft in Well	Packers
Lot Kanawha River.	Acres	Size		<u></u>	Kind of Packer
Aell No. X-1 District Loudon County K	Elev. 600.86	10	1 1		Size of
The surface of tract is owned in fee byF	MC Corp.	81/4 7	4,627		Depth set
Mineral rights are owned by	MC Corp.	5 3/16	(See KAN 5,458		
Drilling commenced 1 May 1970 (5, Drilling completed 1 May 1970 (5, Date Shot From With	316 feet) 516 feet)	3 2 Liners Used			Perf. top
Open Flow /10ths Water in /10ths Merc. in /10t	Inch Cu. Ft.	CASING CEM Amount of cem Name of Service	ENTED 4½ ent used (bags).	size <sup>5458</sup> 100 s Dowe	erranen errane
Oil WELL ACIDIZED (DETAILS)	bbls., 1st 24 hrs.	COAL WAS E	NCOUNTEREL INC	OHES.	FEET INCHES
WELL FRACTURED (DETAILS) 13 May 20/40 sand, 591 bbls. wate	1970 - Sand er, 20 gals.	Prac. 500 Dowell Pro	gars. ac e-Flo, 40	O lbs.	7-84, 500 lbs.

J-111 3500 lbs CaCl 23.9 bpm average injection rate.

ROCK PRESSURE AFTER TREATMENT

Foet ...... Salt Water Fresh Water

reducing Sand			and the second s	anne de la companya dela companya dela companya de la companya dela companya de la companya de l	Depth		
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
	pan urunganggilishan dangundurus(),(milp/),(hilp/),(hilp/),(hilp/),(hilp/),(hilp/),(hilp/),(hilp/),(hilp/),(hilp/),(hilp/),(hill/),(hi	egeneral en viga en el compression de mentales en en el constitución de la constitución de la constitución de	0	5,312	See Well	Record KAN	-1636
Sand (Newburg)	White	Hard	5,483	5,499		5483	
Para angerency de la representation de server de la definition en que partidio.	n+h - 5	515 312 03' new				4678	
	€	23 new	tortage		Date: 15	June 1971	
		and so	To the state of th		Approved	FMC Corr Owner	oration,
		5093			By: A. P	McCue Develor	ment Engine
		1778				-	
	- Color man man - Area man -						
							2960C



#### STATE OF WEST VIDGINIA

## DEPARTMENT OF MINES OIL AND GAS DIVISION 7

Quadrangle Charleston

Permit No. KAN-1636

### WELL RECORD

Brine Exploration

(KIND)

• •		& Chemical C		Casing and	Used in	Left in	Packers
Address Box 81	L27, So. Cl	narleston 3,	West Virgini	a Tubing	Drilling	Well	E GOMOLD
Farm Researc	eh Building	roperty ,	Acres 1 1/8	Size			
		illed - not r			701	701 K	None None Ind of Packer
Well No X-1				16	- J		LING OF A SCACE.
District Loud	on	County_ <u>Kanaw</u>	ha	13	-		
	the state of the s	fee by Food Mac		10	-		ize of
:		AddressSouth C		81/4	1,710	1 -1 -	1
		ood Machinery		£%x_7"	4740	4740 I	Depth set
		Address_South		5 3/16	-		6.4
		er 9, 1955		3	-	1	erf. top
		3, 1956		2			Perf. bottom
Date Shot			DOM: Web Only (Str)	Liners Used	-	i	Perf. top
With	and the early of the				-		erf. bottom
Open Flow			Inch	Carticle Company (Company) (September 1997)	7 (18	70 3	70/16/55 704
		X.	Inch				. Ft. 10/16/55 Date
Volume			Cu. Ft.		ze 940 No. :	tt. 4/18/56	Date •
Rock Pressure		V	hrs.	COAL WAS E	CNCOUNTERED	AT 216 F	EETINCHES
Oil			_bbls., 1st 24 hrs.				EETINCHES
Fresh water			feet				
Salt water		feet	feet	320 FEE 403, 451.	<u> 5, 169, 189</u>	,_533, <u>_826</u>	EETINCHES
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth Found	Remarks
		PROSPECTION, ASSESSED AND ASSESSED AND ASSESSED ASSESSED AND ASSESSED ASSESSED AND ASSESSED ASSESSEDA ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSED ASSESSEDA	журн эдин дами обира эсийгийн хогоо бөгү байгайн өөлөөт төвсөгийг ад, этом онд о, о оно онд о	AND			
SAND	Partly	Fine to	40 °	701	ned.	-	
	iron	coarse			Section 2	-	
	stained	-	•		MIL COLUMN AND AND AND AND AND AND AND AND AND AN		
NO SAMPLES			70	75	-		Core lost.
SANDSTONE		Soft	75	110		6100	
CITATE	Gray to	Soft	llo	115			<b>644</b> 9
SHALE	green	West St	1.1.0	رخسد			^
	6.00						
SANDSTONE		Soft	115	120	000	-	Streaks of
J. 19			3447 T				shale.
		Soft	700	134	-	_	Thin coal
SANDSTONE		201.0	120	234	:		streaks.
					-		
SANDSTONE	Light	Soft	134	143	and	Print.	<b>M</b>
	gray to	, sudjeta				1	
	gray						
SANDSTONE	Light	Soft to	143	165	cmo		Oil stained
	gray to	medium			Military and the second		scattered clay
	gray to	hard					
	buff	885.6			Account of the contract of the		
SHALE	Gray	Soft	165	169	Sua		Egus Frið - Sjúller brekssis i
MUDSTONE	Grayish	Soft	169	174	Control of the contro	1 SATT	12192 =
LIVE L CEVE	buff		-		- Company of the Comp	1/600	
		100 JA	are t		- 100		
SHALE	Gray	Soft	174	178		Ar Soig	4 -
SILTSTONE	Grayish	Soft	178	184	- Parties and the second secon		
DITTIDI (ME	brown	DOLO			and the second s		
The second of the second of		A CONTRACTOR OF THE STREET		ni yangana inga sara kanan inga kanan inga kanan kanan inga dan palaban inga manana sara sara da	-		

			- C				
Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
SHALE	Buff gray to black	Soft	184:	216'	-	<b></b>	
COAL	Black, shiny	Soft	216	217.5	, purch	cireti	Pyritic Calcite
SILITSTONE	Light brown to light	Soft to medium hard	217.5	221.5	Bear 1		Coaly fragments
SHALE	gray Gray	Medium hard	221.5	226	com		
SANDSTONE	Light gray	Medium hard to soft	, <b>226</b>	261.5	6093	***	
SHALE	Dark gray	Soft	261.5	263.5	**************************************	gene.	Coal streaks.
COAL Not 7	Dull black	Soft	263.5	265	<b>ma</b>	4209	Pyritic streaks.
SILTSTONE & SANDSTONE	Light brown to light	Soft	265	273			000
. Nachhair	gray						
SANDSTONE	Light gray to gray	Soft	273	312	BRID .	derd	
	locally light brown		4				
COAL	Dull to shiny	Soft	312	314			Slightly pyritic
SILTSTONE	black Brownish gray	Soft	314	320			
COAL	Dull to shiny black	Soft	320	321			
SANDSTONE	Grayish brown	Soft	321	323			
COAL	Dull to shiny	Soft	323	323.5	CMS.		
SILTSTONE	black Dark gray to gray	Soft	323.5	337			
COAL	Dull to shiny black	Soft	337	337-5			
SHALE	Black to dark gray		337.5	354		estita grada ya kana	Carpales
					e in the signal to the signal of the	ा भूति (च्या का स्वीतीय स्वीदिक्षी स्वीतीय स्वीतीय स्वीतीय स्वीतीय स्वीतीय स्वीतीय स्वीतीय स्वीतीय स्वीतीय स्व स्वातीय स्वातीय स्वातीय स्वीतीय	g g g gg Shirman a shina bir a ta a ta a a a a a a a a a a a a a a
er Çilatili F			The state of the s	Aredinau Sec	Date		, 19
			756 (1 3 × 5 8 × 1 3	APPROVED	ar h	oranedorono orang di shiro o di Mallin di Albana (19) kakala di Marabadi	, Owner
•				Ву_	,-	(Mit )	

Date		
APPROVED	, Owner	
By	. A	18,
· · · · · ·	(Title)	

Food Machinery and Chemical Corp. Well No. X-1

	17 - F	ran-16:	36					
green.	Formation	Color	Hard or Soft	Тор	7 A Bot- tom	Oil,Gas or Water		Remarks
	SANDSTONE SILTSTONE SHALE	Light gray Dark gray Dark gray	Soft	354	385		cano.	Scattered coal.
		to black						
	SANDSTONE	Light gray	Soft	385	403	qşatr	400	Interbedded siltstone and coal streaks.
					lal			
	COAL	e de la companya de l	Soft		404	-	· · · · · · · · · · · · · · · · · · ·	Pyritic.
	SHALE	Light brown- gray	Soft	404	405.5	gsen	COMMON CO	eta erren erren eta eta Erren er Erren erren er
	SANDSTONE		Soft to medium hard to hard	405.5	451.5	Call		
	COAL	Dull and shiny black	Soft	451.5	453	TO A STATE OF THE	-	Locally pyritic.
	SHALE SILTSTONE SANDSTONE	Dark gray to black, Gray to dark	Medium hard	453	469	(220)		
,	e o coser vectorio. A restricto de la cose	gray, Light gray and gray				eginese a legislegici alicente del constante		
	COAL	Dull and shiny black	Medium hard	469	469.5	Control of the Contro		
	SHALE	Dark gray to	Medium hard	469.5	481	0225	-	garage seek of and Miles garage entries to be a com-
	COAL	Dull and shiny	Medium hard	481	481.5	ans		
	SANDSTONE	Light gray	Medium hard	481.5	484	2000	winds	
	NO SAMPLES	and department of the second o	ARTON • goddan ac	484	519	A CONTRACTOR OF THE CONTRACTOR		Cores lost.
	SANDSTONE	Light gray	Soft	519	533	60000 excco	,	
	SILTSTONE	Gray to dark gray	inger (j. 1844) Geografiske					
	COAL	Black	Medium hard	533	533.5	- COMPA	- Annie Propins de La Contraction de La Contract	
	SILTSTONE	Light gray	Soft	533 - 5	552			•
	SCATTERED	Dull and	Soft	552	621	QUADA	geot:	•
	COAL SILTSTONE	shiny, Gray to	November (November (Novemb			name to the state of the state		
	SANDSTONE SHALE	black, Light gray,	The second secon	)				10 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
		Black to dark brown						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	SANDSTONE	Light gray	Medium	621	646			
		locally gray and	hard to soft	molecular (Tricks)		and the second s		
		brown			None de la constante de la con	Spiriteling and Administration of the Control of th		Charles of the second s
		CONTRACTOR OF THE PROPERTY OF					outsing of the second of the s	

	Machinery	and	Chemical	Corp.
Well	No. X-1			

	<u> </u>	20-183	6					
	Formation	Color	Hard or Soft	Тор	7 A Bot- tom	Oil,Gas or Water		
	SILTSTONE SHALE SCATTERED COAL	Light gray to gray, Gray to black, Dull to	Soft	646	759			410
	SANDSTONE	shiny Light gray locally	Soft to medium	759	803	Total Control of the		Dark laminae of mica, clay, and coal, locally inclined 30°.
	SILTSTONE	gray Dark gray	hard Medium hard to soft	803	826.5	en e		Coal fragments.
	COAL SHALE SANDSTONE	Gray,	Soft to	826.5	827.5 830	of the state of th	and and a second a se	Pyritic.
	SANDSTONE	Gray to light gray, Dark gray Gray	medium hard Soft	830	839	And a decision of the second o	The control of the co	Laminae of clay, mica, and plant
	SANDSTONE	Gray	Medium hard	839	858		of a female of the female of t	fragments.  Mica flecks. Dark gray clay laminae.
	SANDSTONE SILTSTONE SHALE	Light gray to gray, Dark gray to black,	Soft	858	860	490	und	****
	SANDSTONE	Black Light gray	Medium hard to hard	860	969		CONTRACTOR	Local dark clay laminae inclined 15° to 20°.
	CONGLOMER- ATE SANDSTONE	Clear and white, Light gray	Soft to medium hard	969	996			Sandstone thinly interbedded. Conglomerate, granules and pebbles to 1".
	SANDSTONE	Nearly white	Soft to medium hard	996	1016	- <b>wh</b>		Sandstone gets brown at base.
	SANDSTONE SILTSTONE SANDSTONE	Brown, Dark gray	Medium hard Soft,	1016	1026	<b>2000</b>	<b>866</b>	Locally coarse. Locally pebbly. Dark
The second secon			medium hard and very hard					clay laminae inclined 25°. Local coal streaks. Local siltstone - dark gray to black. Local conglomerate light gray consisting of granules of pebbles of 1" clear to white quartz.
	SANDSTONE	Light gray	Medium hard	1207	1234			Thin bed shale.  Dark clay laminae.
	*	Light gray	Hard to medium hard	1234	1270	<b>~</b>	www.	Thin gray shale partings.
							diameter	

Food Machinery and Chemical Corp. Well No. X-1

	-1636						
	Tank and the second			78	<u>ACCEPTANCE OF THE PARTY OF THE</u>		The transfer of the
Formation	Color	Hard or	Top	Bot-	Oil,Gas		Remarks
		Soft		tom	or Water	Found	Superior of device from the control
200000000000000000000000000000000000000	A CAMPACIAN CONTRACTOR AND A CAMPACIAN CONTRACTOR AND A CAMPACIAN CONTRACTOR AND A CAMPACIAN CONTRACTOR AND A		POLICE AND				
SANDSTONE	Light gray	B	1270	1301	dayek	2002	Thin black shale partings. Some black siltstone.
	locally white	very hard					piack silestone.
Continue	Page 1	anger constraint of the constr	3.003	1 200	į		Scattered quartz pebbles. Local
SANDSTONE	Light gray to very	Medium hard to	1301	17371		-	dark gray shale partings.
	light gray	soft					
SHALE	Dark	Medium	1397	1403		***	Allerando de trata de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición del composición de la composición de la composición del composición
Carlo di Andre di And	greenish	hard			9844		
	gray to black						
			-100	2110			Table Simple worthing Topply
SHALE	Light greenish	Hard to very hard	1403	1443			Locally finely pyritic. Locally dolomitic. Gray siltstone and
	gray and						sandstone near base.
namena,	red						e different e anticalis e estados por escentra en en en el compositorio de la compositorio de la compositorio d La compositorio de la compositorio
DOLOMITE	Dark gray	Very hard	1443	1480		elo	Thin beds dark gray to black shale.
	to gray	ENGLAND TO THE PARTY OF THE PAR		200000000000000000000000000000000000000			Gray limestone near base.
LIMESTONE	Buff to	Very hard	1480	1504	son.	-	Thin gray shale partings.
	very light		1487				
	NOT 1	- Carried Statement Control of the C					gusta de despeta de morales que para en la companya de la companya del companya de la companya de la companya del companya de la companya de
DOLOMITE	Buff dark brown	Very hard	1504	1527	-		Scattered thin shale partings.
					anis-cinemistra		
LIMESTONE	Light buff Buff	Very hard	1527	1538	-	-	Shaly zones. Local dolomite.
	Bull						A SANTA CARACTER SANTAN
LIMESTONE	Light tan	Very hard	1538	1544	-	-	••
	to buff			de la constanta de la constant			
LIMESTONE	Light gray	Very hard	1544	1603	orun		Thin gray shale partings.
	buff buff	t to medium hard					
	77 7 3.4.	7/1- 3	1603	1616	ACTION OF THE PROPERTY.		Locally shale dark gray.
DOLOMITE	Very light gray to	Medium hard	1003	TOTO			incourty silence desire grows.
	light				acidocopie magaza ass		ter presentation general interpretaging a series in
	greenish gray	. Subjection of the state of th		(A)			State of the control of the control of the state of the control of
		dozza	12/2/	1641	2000		Local oil stain.
LIMESTONE	Buff gray, light buff		1616	TO4T			LOCAL OIL STAIM.
		The State of the S	1641	1661	Oil & G	n c Noon	and Make 10 million and a second of the Second
DOLOMITE LIMESTONE	Buff to gray,	Soft to medium	1041	TOOT		top.	
SHALE INTER	- Grayish,	hard			Salty	Local ly	Taylor of herman stages and
BEDDED	Very dark gray to		2007/2007/date				
	buff gray						en saker i sa tifesak in i sapennya yantek in
SHALE	Gray to	Medium	1661	1677	-	_	Some dolomite near base - gray.
Artist States	brick red	hard					The first of the f
SANDSTONE	Gray to	Soft	1677	1713	Salty	Local	Local conglomerate, quartz, sub-
ATTENDED AND AND AND AND AND AND AND AND AND AN	greenish					ly	rounded pebbles to 1/4".
	gray				3	. 5.	
SHALE	Greenish	Medium	1713	1725		-	Streaks of gray siltstone. A bed of sandstone light gray.
	gray to black	hard to	Bio constanting distance const	945			Patinphotic Tiene Stale
		soft	-	Date of the Control o		A Company of the Comp	
		COLUMN PARAMETERS AND			: *	Editionina	
	· matty side	- Little			and account	all the state of t	

Food Machinery and Chemical Corp.
Well No. X-1

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Formation	Color	Hard or Soft	Top	78 Bot- tom	Oil,Gas or Water		Remarks
grand decreased returning or the second or t							
SANDSTONE	Light gray	Medium hard	1725	1733	Significant Control of the Control o	Taxishana and ta	Bands of gray to black shale.
SHALE SILTSTONE	Dark gray Light gray	Medium hard	1733	1744			Streaks of light gray sandstone.
SHALE	Dark gray	Medium hard	1744	1786	and the second s	MAN AND AND AND AND AND AND AND AND AND A	Streaks of hard siltstone.
SHALE	Gray	Soft	1786	1878	******		Silty and sandy streaks.
SHALE	Dark gray	Soft	1878	2130		BOOKERS WAS A STATE OF THE STAT	Streaks of light gray shale. Streaks of brown sandstone. Streaks of white
							to light gray sandstone. Local lime- stone, white.
SANDSTONE	Light gray	Soft	2130	2154		-	Some shale. E e e e e
SHALE	Gray to grayish	Soft	2154	2200	, dan	CARS	
na wa kanasan .	green						
SHALE	Gray to	Soft	2200	2430		piece	Stringers of gray, white, and brown sandstone.
	grayish green		CHICAGO PROPERTY CONTRACTOR CONTR	Proposition of the Proposition o	in in the contract of the cont		
SHALE	Light to dark gray	Soft	2430	2789	4000		Little gray to grayish sandstone. Local grayish brown siltstone. Local milky sandstone.
SHALE	Gray	Soft	2789	2804	-	-	sao
SHALE	Light gray	Soft	2804	3270	- Control of the Cont	24.50	Ding Will School - Sylvenia Charles (1966), 4
	to dark gray	gerage (1779)				The state of the s	Dank bekendarah bake sindarah seri. Dari Manerakan baker bi His
SHALE	Gray	Soft	3270	3370		asia Decision	Streaks of grayish brown siltstone.  Local light gray clay. Streaks of
							brown siltstone. Slightly sandy.
SILTSTONE	Brown and gray to brown	Soft	3370	3560	The Land Control of the La	warz .	Streaks of light gray limestone.
SILTSTONE SHALE	Buff gray, Black	Soft	3560	3926	1	A American Company	Streaks of gray to buff limestone near base.
SHALE SILTSTONE	Gray, Gray to buff	Soft	3926	4096			Local brown siltstone
SILTSTONE SHALE	Gray, Gray to brown	Soft	4096	4440			Streaks of buff to brown sandstone.  Dark brown siltstone near base.
general e en e		G - 6:	1.1.1.0	1, -1.	e de la vane processo de la como	Andrea en esta	Streaks of dark brown limestone.
SILTSTONE	Dark brown	Soft:	111110	4546			Streaks of dark brown limescone.
SHALE SILTSTONE	Gray brown Gray brown dark brown		4546	4580	Section 1		Slightly sandy.
			e stronewine de la companya de la co	spares for concentrational company of the spares of the sp		stookense at purchaselvejvet	Likadok (n. 1919) (n. 1918) ili kulon

growth and the second	Formation	Color	Hard or Soft	Top	7 C Bot- tom	Oil,Gas or Water		
	SHALE SILTSTONE	Gray, Broown and gray brown Dark brown	Soft	4580	4600	general and control and contro	estrò	
	SHALE	Dark brown	Soft	4600	4620	1008	igando)	Slightly sandy.
	LIMESTONE	Brown	Soft	4620	4630	QMT)	600	Huntersville 112'
	LIMESTONE	Light to dark brown mottled	Soft to medium hard to hard	4630	4740	neo	9452	White, brown, some bluish tint chert.
	NO SAMPLE	·		4740	4744			40/3 4/33 4/65
	SANDSTONE	Gray and gray to brown	Very hard	4744	4753	onest 1		Thin bands and partings of black shale. Few bands of gray and blackish gray chert.
	SANDSTONE	Clear to milky	Hard	4753	4761		700	Few scattered shale partings.
	SANDSTONE	Gray to brown	Hard	4761	4766	**************************************	Entre Control	Thin shale partings. Quartzitic.
	SANDSTONE	Light gray to buff	Medium hard to hard	4766	4772		STATE OF THE PROPERTY OF THE P	Slightly quartzitic. Thin shale partings.
	LIMESTONE SANDSTONE	Brown, Clear to milky	Hard to very hard	4772	4886			Cherty. Shale partings. Bands of gray and blackish chert.
	LIMESTONE	Brown to grayish brown	Very very hard	4886	4961	Gas -		Some anhydrite. Gassy. Locally oil stained.
	DOLOMITE	Brown brownish gray to	Very hard	4961	5011	Gas - oil	<b>600</b>	Some anhydrite, gassy. Oil stained shale partings.
	DOLOMITE	buff Dark brown to light	Hard to very hard	5011	5306	Gas - 3		Oil stained. Local sulphur odor. Anhydrite interbedded.
	DOLOMITE	brown Gray to brown	Very hard	5306	5313	Oil	etests	Cores bleed some oil.
		p.	Odparandoministic response	5313	TOTAL	DEPTH		Date <u>December 13</u> , 1957
						Ration and the Application of th		APPROVED Food Mach. & Chem. Corpowner  By C. L. HUNDLEY, Project Engr.  (Title)
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