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OBLONG SQUARE  CUT STONE	28 17 05
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	C.C. DICKINSON
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COURTNEY	387 STONE
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STAKE STAKE LOC. Cane	Fork Hills
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STONE MONUMENT ON POINT RIDGE	Rush
BLACK	BAND COAL CO.
- Comprehension	
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not on OGIS may	
Fracture 7-29-75	
Company Cities Service Oil Co.	5323 STATE OF WEST VIRGINIA
Address Box 873 Charleston W. Va. 2 Farm Kanawha City Co	
Farm	CHARLESTON
Well (Farm) No. /3 Serial No.	WELL LOCATION MAP
Quadrangle <u>Charleston</u> Quadrangle <u>Charleston</u>	FILE NO. 12n-253-
County Kanawha	+ Denotes location of well on United States
District Loudon	Topographic Maps, scale 1 to 62,500, lat-
Engineer C.a. Bramham	itude and longitude lines being represented by border lines as shown.
Engineer's Registration No. 683	
le No Drawing No	Denotes one inch spaces on border line     of original tracing.
te 6/4/36 Scale /"=/320"	Deep Hele 41-039
	Forest (305)

ロウンン

3815

907

Loudon District, Kanawha County, W. Va. By Columbian Carbon Co., Charleston, W. Va. Drilled under permit Kan-253, issued June 22, 1936. On 2500 acres, on Right Fork of Cane Fork of Davis Creek. Surface and minerals owned by Kanawha City Co., \$I. Noyes Smith, Kanawha Banking & Trust Co., Charleston, W. Va. Elevation, 907! L. 14" **6.** D. casing, 36';  $10\frac{3}{4}$ " '0. D., 290';  $8\frac{5}{8}$ " 0. D., 1358'; 68" O. D., 4619"; 2" tubing, 4731". Goal was encountered at 380-383 . Completion reported to Dept. of Mines Oct. 21, 1936. Well was shot at 4706-4722'. Freshmater at 60'; salt water at 770'. Gas well. Record to RCT from Mrs. Griffith 11-28-37. Production before shot, 427, M. cu. ft.; after shot, 554 M. cu. ft. Top. Bottom. Thickness. 36 36 0 -Gravel . 36 -41 Slate, blue. 19 41 -Sand (hole full water at 60') 60 - 60 -52 112 Slate and shells 112 -135 Sand 35 135 -170 Slate 170 - 185 Sand 185 - 280 Slate and shells 280 -300 --50 Sand 380 300 -80 Slate 383 37 380 -Coal 383 **-**410 Slate 65 410 -475 Sand 475 -545 Slate 590 545 -45 Sand 33 590 -62**3** Slate 62**5 -** 730 730 **-** 735 107 Sand Slate Salt Sand (water, 770'; hole full) 735 - 850 850 - 857 115 (gas show, 7501) \$57 - 920 Lime Sand (gas, 977', 1,118 M.; drowned out) 920 - 1005 85 30 1005 - 1035 1035 - 1130 Sand (water send, 11291) 1130 - 1135 1135 - 1157 Red rock - 22 Slate 106 1157 - 1263 Maxton Sand Amademment. 35 1263 - 1298 Little Lime 1298 - 1300 Slate (cave) 1300 - 1333 33 Lime, black 1333 - 1512 1512 - 1550 179 Big Lime, white (gas show, 15001?) 38 Big Injun Sand, red 394 1550 - 1944 Slate and shells 1944 - 1954 10 Shale, brown 1954 - 1960 Berea Sand 4613 4706 1960 - 3140 1180 Slate and shells 3140 - 4577 1437 Shale, brown 4577 - 4613 36 Shale, black 3706 4613 - 4706 - 93 Corniferous Lime 4706 - 4722 Oriskany Sand 4722 - 4731清 Lime Total depth 4731音

/ OTTTON

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Gas, 4150-75', 2/10 W. in 2". 48
Gas, 4708-8½', 21/10 W. in 2". 48
Gas, 4708-9', 40/10 W. in 2". 36'
Gas, 4709-10½', 80/10 W. in 2". 36'
Gas, 4712½-13½', 18/10 W. in 3". 403
Gas, 4715½-15½', 16/10 W. in 3". 379
Gas, 4715½-20½', 18/10 W. in 3".
Gas, 4720½-22½', 18/10 W. in 3".
Gas, 4720½-22½', 18/10 W. in 3".
Gas, 4720½-25½', 18/10 W. in 3".
Gas, 4725½-25½', 18/10 W. in 3".
Gas, 4725½-25½', 16/10 W. in 3".
Gas, 4725½-29½', 16/10 W. in 3".
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Production, before shot, 427 M. cu. ft. Production, after shot, 554 M. cu. ft.





#### STATE OF WEST VIRGINA DEPARTMENT OF MINES

# Oil and Gas Division

didress Box 873, Charleston, WV 25323  Irm Kanawha City Land Co. Acres 2500  Irocation (waters) Davis Creek  Size  Elev. 907'  Strict Loudon County Kanawha Construct is owned in fee by Kanawha  City Company, % Kanawha Banking & Trust  Iddress Charleston, WV 85/  Ineral rights are owned by Romawha Commenced 12-30-75  Irocation (135 M cu. ft day bbls. Production 135 M cu. ft day bbls. Production 288 hrs. before test 420# RP. ell treatment details:  Frac with 30,000# 20-40 sand & 30,000 gal. gel  Isomo Sand Oriskana 4706-22	6 d 14**	Drilling  36 33.75# 290  1358 DD 24# 4619 4668 4.7 471! of cementing r Max press ter 35 min	Left in Well  6' 36' 290' 8' 1358' 9' 4619' 8 Pulle 5' 4715' ecord. sure 3450#	Cement fill v Cu. ft. (Sks.  91 sx 20 sx
diress Box 873, Charleston, WV 25323  Irm Kanawha City Land Co. Acres 2500  Davis Creek  Elev. 907  Strict Loudon  County Kanawha  Sixe  Strict Loudon  County Kanawha  Conc  Strict Loudon  County Kanawha  Conc  Sixe  Strict Loudon  County Kanawha  Conc  Kanawha  Conc  Kanawha  City Company, % Kanawha Banking & Trust  didress Charleston, WV  Interal rights are owned by  Address  Commenced 12-30-75  Completed 5-17-76  Itial Company  Ale M cu. ft/day bbls.  Production 135 M cu. ft/day bbls.  Production 288 hrs. before test 420# RP.  ell treatment details:  Frac with 30,000# 20-40 sand & 30,000 gal. gel  15 min. SIP 2600# 30 min. SIP 2400# AIR 14.5 Feet  Coal was encountered at Feet  Coducing Sand Oriskana  Frac With Conce  Feet  Coducing Sand Oriskana  Conce  Size  Feet  Coducing Sand  Size  Fixed  Size  Coducing Sand  Size  Conce  Feet  Size  Size  Size  Coducing Sand  Size  Conce  Size  Size  Coducing Sand  Size  Coducing Sand  Size  Coducing Sand  Size  Size  Coducing Sand  Size  Size  Coducing Sand  Size  Size  Coducing Sand  Size  Size  Size  Size  Coducing Sand  Size  Size	Tubing  6 d.14** 0.3/4** 32 8 8 24# 0-5/8** OI 2 2 11.6# 3/8** OD 4 as Used ach copy of water.  3/M. Afte	Drilling  36 33.75# 290  # 1358 DD 24# 4619  # 4668 4.7 471!  of cementing r Max press ter 35 min	in Well  6' 36' 0' 290'  8' 1358' 9' 4619'  8 Pulle 5' 4715'  record. sure 3450#  S.I. Back  sches	91 sx 20 sx
diress Box 873, Charleston, WV 25323  Irm Kanawha City Land Co. Acres 2500  Davis Creek  Elev. 907  Strict Loudon  County Kanawha  Sixe  Strict Loudon  County Kanawha  Conc  Strict Loudon  County Kanawha  Conc  Sixe  Strict Loudon  County Kanawha  Conc  Kanawha  Conc  Kanawha  City Company, % Kanawha Banking & Trust  didress Charleston, WV  Interal rights are owned by  Address  Commenced 12-30-75  Completed 5-17-76  Itial Company  Ale M cu. ft/day bbls.  Production 135 M cu. ft/day bbls.  Production 288 hrs. before test 420# RP.  ell treatment details:  Frac with 30,000# 20-40 sand & 30,000 gal. gel  15 min. SIP 2600# 30 min. SIP 2400# AIR 14.5 Feet  Coal was encountered at Feet  Coducing Sand Oriskana  Frac With Conce  Feet  Coducing Sand Oriskana  Conce  Size  Feet  Coducing Sand  Size  Fixed  Size  Coducing Sand  Size  Conce  Feet  Size  Size  Size  Coducing Sand  Size  Conce  Size  Size  Coducing Sand  Size  Coducing Sand  Size  Coducing Sand  Size  Size  Coducing Sand  Size  Size  Coducing Sand  Size  Size  Coducing Sand  Size  Size  Size  Size  Coducing Sand  Size  Size	Tubing  6 d.14** 0.3/4** 32 8 8 24# 0-5/8** OI 2 2 11.6# 3/8** OD 4 as Used ach copy of water.  3/M. Afte	Drilling  36 33.75# 290  # 1358 DD 24# 4619  # 4668 4.7 471!  of cementing r Max press ter 35 min	in Well  6' 36' 0' 290'  8' 1358' 9' 4619'  8 Pulle 5' 4715'  record. sure 3450#  S.I. Back  sches	91 sx 20 sx
Size  cation (waters) Davis Creek  cation (13, GW-362 Elev. 907   -20 + 10    strict Loudon County Kanawha County Kanawha  cation (waters) Elev. 907   -20 + 10    strict Loudon County Kanawha County Kanawha  cation (waters) County Kanawha County Kanawha  cation (waters) Pointy  cation (waters)	6 d 14**	33.75# 290 # 1358 DD 24# 4619 # 4668 4.7 4719 of cementing r . Max press ter 35 min	290' 8' 1358' 9' 4619' 8 Pulle 5' 4715' record. sure 3450#	91 sx 20 sx
Elev. 907  strict Loudon County Kanawha Consessive Strict Loudon County Kanawha  the surface of tract is owned in fee by Kanawha  city Company, % Kanawha Banking & Trust didress Charleston, WV  ineral rights are owned by Address  citing Commenced 12-30-75  citing Commenced 5-17-76  itial approximation 45 M cu. ft/day bbls.  ral production 135 M cu. ft per day bbls.  ell treatment details:  Frac with 30,000# 20-40 sand & 30,000 gal. gell  15 min. SIP 2600# 30 min. SIP 2400# AIR 14.5 Febbls. Sand laden water  coal was encountered at Feet  coducing Sand Oriskang 4706-22	6 d 14**	33.75# 290 # 1358 DD 24# 4619 # 4668 4.7 4719 of cementing r . Max press ter 35 min	290' 8' 1358' 9' 4619' 8 Pulle 5' 4715' record. sure 3450#	91 sx 20 sx
Strict Loudon  County Kanawha  Resurface of tract is owned in fee by Kanawha  City Company, % Kanawha Banking & Trust  didress Charleston, WV  Address  Address  Address  Completed  Froduction  135 M cu. ft/day bbls.  Production  135 M cu. ft / day bbls.  Line  Production  135 M cu. ft / day bbls.  Production  135 M cu. ft / per day bbls.  Frac with 30,000# 20-40 sand & 30,000 gal. gel  15 min. SIP 2600# 30 min. SIP 2400# AIR 14.5 Fbbls.  Sand laden water  Peet  Coducing Sand  Oriskang  Producing Sand  Oriskang  Producion  Feet  Coducing Sand  Oriskang  Conty Kanawha  KRSKI  KRANAWha  KRSKI  KRANAWha  KRSKI  KRANAWha  KRSKI  KRANAWha  KRSKI  KRANAWha  KRSKI  KRANAWha  KRSKI  Feet  Sand  Address  Sand  Address  Sand  Atla  Feet  Coducing Sand  Oriskang  Feet  Coducing Sand  Oriskang  Conty  Kanawha  KRSKI  KRANAWha  KRSKI  Feet  Coducing Sand  Conty  KANAWha  RANAWha  KRSKI  Feet  Coducing Sand  Conty  KRANAWha  Atla  Conty  KRANAWha  Banking & Trust  Feet  Address  Atla  Feet  Coducing Sand  Oriskang  Conty  KRANAWha  Banking & Trust  Feet  Atla  Feet  Coducing Sand  Oriskang  Conty  KRANAWha  Banking & Trust  Feet  Coducing Sand  Charleston, WV  RANAWha  Atla  KRSKI  Fract  Atla  Feet  Coducing Sand  Oriskang  Conty  RP  Atla  Atla  Conty  RP  Atla  Atla  Atla  Conty  RP  Atla  Atla  Atla  Conty  Conty  RP  Atla	0'3/4" 33 8 8 24# 6-5/8" OF 2 2 11.6# 8/8" OD 4 6rs Used 6ch copy of 8/M. Afte	33.75# 290 # 1358 DD 24# 4619 # 4668 4.7 4719 of cementing r . Max press ter 35 min	290' 8' 1358' 9' 4619' 8 Pulle 5' 4715' record. sure 3450#	91 sx 20 sx
City Company, % Kanawha Banking & Trust  diress Charleston, WV  ineral rights are owned by  Address  Address  String Completed  5-17-76  Froduction  itial open and production  and production 235 M cu. ft / day bbls.  Production 288 hrs. before test 420# RP.  cell treatment details:  Frac with 30,000# 20-40 sand & 30,000 gal. gel  15 min SIP 2600# 30 min SIP 2400# AIR 14.5 Febbls. Sand laden water  Toducing Sand  Oriskana  Feet	8 24# 6-5/8° OI 2 2 11.5# 8/8° OD 4 ors Used sch copy of water. 3/M. Afta	1358 DD 24# 4619 4668 4.7 471! of cementing r Max press ter 35 min	8	91 sx 20 sx
ineral rights are owned by  Address Address  Solvery Commenced 12-30-75  String Commenced 5-17-76  String Commenced 5-17-76  String Completed 5-17-7	8 24# 5-5/8** OI 2 2 11.6# 8/8** OD 4 as Used ch copy of water. 3/M. Afta	24# 4619 4668 4.7 4719 of cementing r Max press ter 35 min	9 4619 8 Pulle 5 4715 9	20 sx
Address 5 1/  Address 5 1/  States Commenced 12-30-75 4 1/  States Completed 5-17-76 3  Production 45 M cu. ft/day bbls. Line Production 288 hrs. before test 420# RP. ell treatment details:  Frac with 30,000# 20-40 sand & 30,000 gal. gell 15 min. SIP 2600# 30 min. SIP 2400# AIR 14.5 Febbls. Sand laden water  Tesh water Feet Feet Goducing Sand Oriskans 4706-22	5-5/8° OI 2 2 11.5# 3/8° OD 4 as Used ach copy of water. 3/M. Afte	24# 4619 4668 4.7 4719 of cementing r Max press ter 35 min	9 4619 8 Pulle 5 4715 9	20 sx
Address 5 1/  String Commenced 12-30-75 4 1/  String Completed 5-17-76  Production 45 M cu. ft/day bbls. 2-3  nal production 135 M cu. ft per day bbls. Line Production 288 hrs. before test 420# RP.  ell treatment details: Atta  Frac with 30,000# 20-40 sand & 30,000 gal. gel  15 min SIP 2600# 30 min SIP 2400# AIR 14.5 F  bbls. Sand laden water  resh water Feet  resh water Feet  roducing Sand Oriskana 4706-22	2 11.6# 3/8* OD 4 ars Used ach copy of water. 3/M. Afte	4.7 471:  of cementing r . Max press ter 35 min	8 Pulle 5' 4715' ecord. sure 3450#	F. ISIP 3100
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String Completed 5-17-76  itial openation 45 M cu. ft/day bbls. 2-3  nal production 135 M cu. ft per day bbls. Line Production 288 hrs. before test 420# RP.  ell treatment details: Atta  Frac with 30,000# 20-40 sand & 30,000 gal. gel  15 min SIP 2600# 30 min SIP 2400# AIR 14.5 F  bbls. Sand laden water  oal was encountered at Feet  resh water Feet  oducing Sand Oriskana 4706-22	3/8° OD 4 ors Used och copy of water. 3/M. Afte	of cementing r . Max press	ecord. sure 3450#	F. ISIP 3100
itial approximation 45 M cu. ft/day bbls. 2-3 nal production 135 M cu. ft per day bbls. Production 288 hrs. before test 420# RP. ell treatment details: Atta Frac with 30,000# 20-40 sand & 30,000 gal. gell 15 min SIP 2600# 30 min. SIP 2400# AIR 14.5 Ft bbls. Sand laden water  pal was encountered at Feet resh water Feet resh water Feet roducing Sand Oriskana 4706-22	ch copy of water.  3/M_Afte	of cementing r . Max press ter 35 min	record. sure 3450#	#. ISIP 3100
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(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.





OIL & GAS DIVISION DEFT. OF MINES

### Oil and Gas Division

# OIL AND GAS WELL PERMIT APPLICATION

	TO THE DEPARTMENT OF MINES,				
	Charleston, W. Va.	DAT	E <u> 382 y 23 . 10</u>	78	
	Surface Owner	Comp	oany <u>(1184 54</u>	24420 (A)	
	Address	Addr	ess		
	Mineral Owner				_Acres
	Address		ion (waters)		1000 all 1000
	Coal Owner		No. 13 (14-3	Anna Salata Sala	Elevation **
	Address		ct		_County
	Coal Operator		rangle_Charlest		
	Address	-	The state of the s	and and a	
us Pi	RMIT MUST BE POSTED AT THE WELL SITE				
l pro	wittons being in accordance with Chapter 22, W. Va. Code, the location is hereby approved				÷
or f	racturing . This permit shall expire if				
-erali	ons have not commenced by 11-29-75.				
	the state of the s				
no.	with Michael and a committee of the comm	CTOR TO BE	NOTIFIED-	rtin Nicho	Section of Section (Section of Section
land days	GENTLEMEN: PH:	548-6993	_ADDRESSC	lend <b>e</b> nin,	W. Va.
	The undersigned well operator is entitled to drill upo	on the chave u			
1886/1	title thereto, (or as the case may be) under grant or le	ease dated		19_14 r	by the same to
<b>(4)</b>	19 , in County, Book		and the second	ne"	day of
	NEW WELLDRILL DEEPER		145, 154		LE OR STIMULATE
	OIL AND GAS WELL ORIGINALLY DRI	LLED BEFOR	E JUNE 5, 1969.		
	The enclosed plat was prepared by a registered engine have been notified as of the above date.	neer or license	d land surveyor a	nd all coal ow	ners and/or operators
	The above named coal owners and/or operator are he to make by Section 3 of the Code, must be received by	ereby notified, or filed with	that any objection the Department o	they wish to f Mines within	make, or are required ten (10) days. *
	Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the		day		_ before, or on the
		Very tru	ly yours, 😘 😘		II. Gorașii
		(Sign Na		ell Operator	
	10 A				
PLE	ASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:	Address of		Street	
A.10.0	t Virginia Geological and Economic Survey Well	l Operator			
Wes P	t Virginia Geological and Boomers of the Co. S79		City	or Town	
	gastwo, W. Va. 26505				
AC	304-296-4461			State	

\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved

47-039 Deep Hell

and the well operator authorized to proceed.

BLANKET BUND

# THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DRILL	DEEPENFR	ACTURE-STIMULATE
DRILLING CONTRACTOR: (If K	nown)	RESPONSIBLE AGENT:	i, whitedown mil West
NAME		NAME NAME	
ADDRESS		ADDRESS 100 873, C	Marioskon, I. Ja. 2532
TELEPHONE			-8383
ESTIMATED DEPTH OF COMPLE	TED WELL: 4731.*	ROTARY	CABLE TOOLS
PROPOSED GEOLOGICAL FORMA	ATION: Orlandy		
TYPE OF WELL: OIL	GAS X	COMB STORAGE	DISPOSAL
•	RECYCL	ING WATER FLOO	ODOTHER
TENTATIVE CASING PROGRAM:			
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP
SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.
20 - 16 16 16 18	enderstelle der stelle		
13 - 10	293*		
9 - 5/8			
8 - 5/8	1374	1,374 *	<b>10</b> C C C C C C C C C C C C C C C C C C C
a. 6-9/8" 24#			2.0 8**
5 ½			
4 ½			
2	4731	4731	Perf. Top Perf. Bottom
Liners		** ** *** ***	Perf. Top
			Perf. Bottom
	A. M. 6	W. a., alle alle.	
ADDO VIMATE EDECII WATED T	VEDATIC EDEM	CATO WAMPE	
APPROXIMATE FRESH WATER D	AND THE RESIDENCE AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADD		FEET_
APPROXIMATE COAL DEPTHS		,	•
IS COAL BEING MINED IN THE	AREA?	BY WHOM?	
TO DRILL:			
SUBMIT FIVE (5) COPIES O OF PLAT.	F OG - 1, \$100.00 PERM	MIT FEE, PERFORMANCE BO	OND AND PERMANENT COPY
TO DRILL DEEPER OR REDRILL			
		~ Th. T. A. W. WANTER MATTER MATTER ATTACKS. A REST	
	1929, A PERMANENT		D PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:			
			COPIES OG - 1, PERFORMANCE
ING ORIGINAL PERMIT NUM			9, FIVE COPIES OG - 1, SHOW-
Required forms must be filed four (24) hours in advance.	within ninety (90) days of	completion for bond release.	Inspector to be notified twenty-
The following waiver must be thereof.	completed by the coal o	perator if the permit is to be i	ssued within ten days of receipt
WAIVER: I the undersigned, Agent		Coal Company, Owner maps this proposed well locati	
We the	•		ell being drilled at this location,
providing operator has co Code.	implied with all rules and re	guiauons in Articles 4, 5, and 7	7, Chapter 22 of the West Virginia
Oue.			
			er No de Total
		Fo	or Coal Company

Official Title