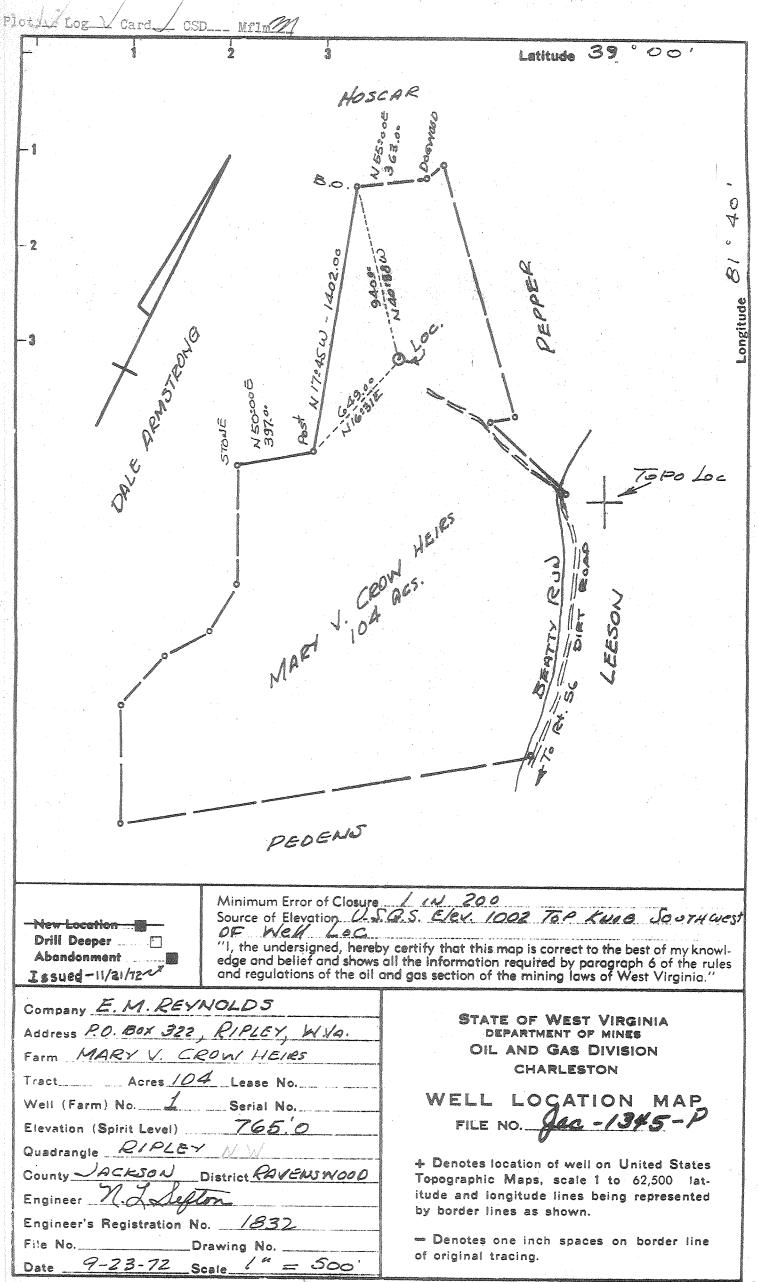
-DEEP WELL

Card CSD Mflm ... Latitude 39 00 HOSCAR 1363.00 8.0. 40 2 3 N 50:00 © 397.0° 1000 Loc MARY VIOA R BEATTY RUE PEDENOS 200 Source of Elevation U.S. G.S. Elev. 1002 Top Kuse Southwest Minimum Error of Closure OF Well Loc
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." 40C **Drill Deeper** Abandonment Sissonville, W. Va. 25320 STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION CROW HEIRS CHARLESTON Lease No. LOGATION Jac - 1345-P FILE NO. Elevation (Spirit Level) RIPLE 4 Denotes location of well on United States District RAVENSWOOD Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown. 1832 Engineer's Registration No. - Denotes one inch spaces on border line Drawing No. of original tracing. 500 Scale

Wup Well

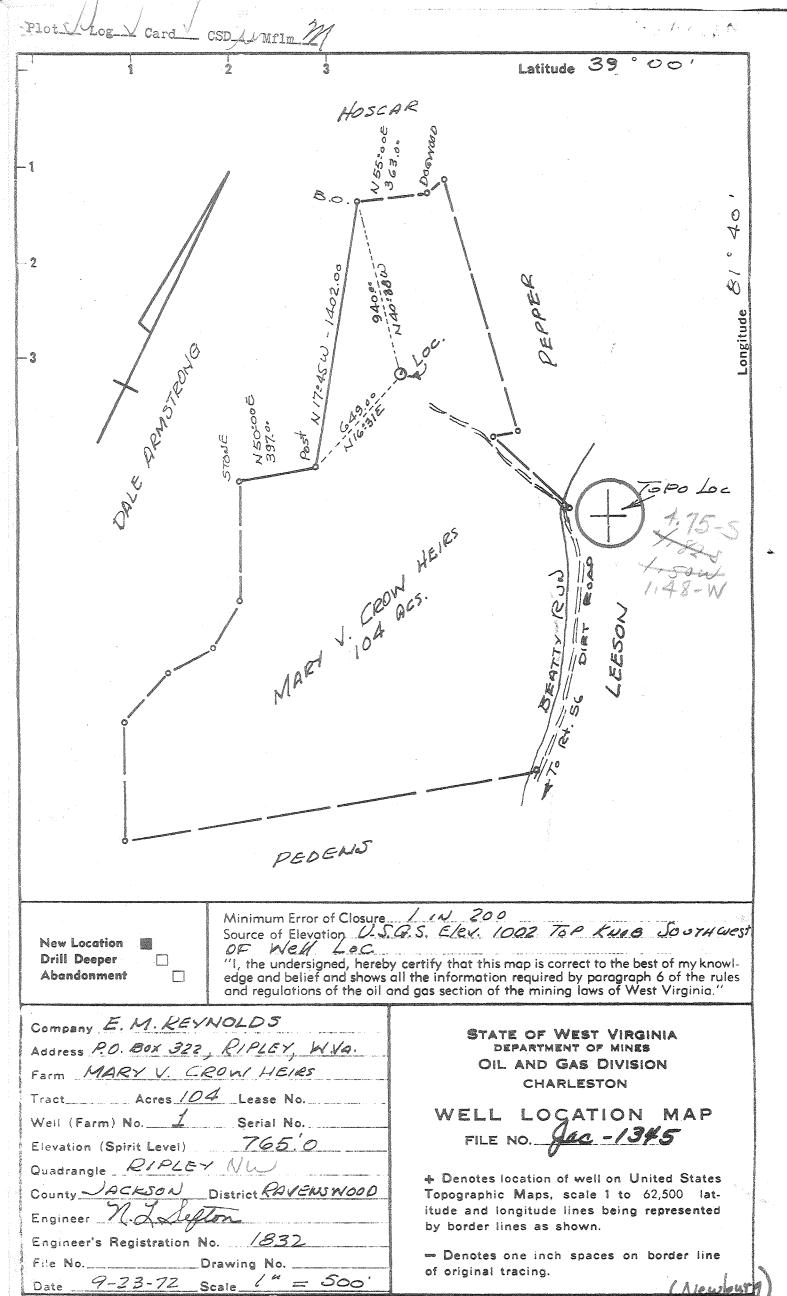
OCT 29 1973



Deep Well

5-0 Willeston

NOV 2 7 1972



5-0

WHEATON RUN Deep Well OCT 11 107



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES 3. C. OIL AND GAS WELLS DIVISION ...

NOV 24 1972 Rotary

Spudder

X 

Cable Tools

Oll or Gas Well...

Storage

Ripley

WELL RECORDS ermit No. Jac-1345 P

Critical 1900-1913-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-						
ompany E. M. Rey	molds Ripley, W. V	7a. (2019)	Casing and Tubing	Used in Drilling	Left in Well	Packers
idress P. U. FOX 322,  arm Mary V. Crow  ocation (waters) Beatty	A	cres 104	Size			Kind of Packer
cation (waters) #1		Elev. 765.0		112	1	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
istrict Ravensweod	County Jacks	son	10			Size of
he surface of tract is owned in fe	e by Mary V.	. Crow	81/2K 5/8			Depth set
fineral rights are owned by	Same		5 306 1/2	5626		
Same A						
orilling commenced 11-6			3			Perf. top
Orilling completed 11-1	9-72		2			Perf. bottom
Date Shot From	ייר	3	Liners Used			Perf. top
Vith From						Perf. bottom
Rock Pressure		bbls., 1st 24 hrs.	COAL WAS I	ENCOUNTERED ET INC ET INC	AT	FBETINCHE
				*****		and the second of the second o
RESULT AFTER TREATMENT	(Initial open Flow	or bbls.)	HOURS		: : : : : : : : : : : : : : : : : : :	
77 S. VIII.	Dogt		Salt Water		Feet	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Producing Sand Doy				Depth	5638	
Formation Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Clay		0 5	5 25			

Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Clay Mhite Sd. Rocked Shale Vtr. Sd. Kd. & Sh. Kray Sh. Ked Rock Kray Shale Red Rock R			0 5 25 60 70 112 120 140 175 210 235 240 250 470 608 685 800 1015 1135 1200 1370 1620 1650 1710	5 25 60 70 112 120 140 170 175 210 235 240 250 470 608 685 800 1015 1135 1200 1340 1370 1620 1650 1710 1740			
Injun Sd.			1940	2040			*

Formation	Color	Hard or Soft	Top 5	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sd. & Sh. Lime	A OP I C	A SAND 482 SAND A SAND	4855 4860 4835 4890 5470	2120 2210 2403 2408 2940 3150 4750 4855 4860 4890 5470 5595	(Show of Oi	1 & Gas)	(Oriskany 4830')
Lime & Sh.				2017			(5617 to 5638)
MCKENSI	Saver Contraction		563				
		P.I. Cee		PLEASTI	15564		7.0. at
					(545)		least 563
	, de se tilita i. Lassina Lamb				The second secon		
			I. Bedy elikara. Yan bari'n Isaba ia				
				an areas and areas			
	Constitution of the Consti						ekin Piran Papiten Pi kasasa Tahu 1998 tahun Pelabah Indonesi
et da de disposition. Esta de disposition							
							la l
The production	andrije. Andrije				erande		
							The state of the s
					71. 71.		
	Approximation of the second				grid Mari		
elongsweitellielt/prichbrist dietelli						11-21	

APPROVED . M. Keywolds , Owner

By (Title)

IV-35 (Rev 8-81)

1) RELIVER OF MINES

THE STATE OF THE S	Date March 11, 1982
ate of Mest Virginia	Operator's Well No. 1
Bepariment of Mines	Farm Mary V. Crow
Gil und Gas Zivision	API No. 47 - 035 - 1345RD

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL.	IYPE:	Oil/ (If "Gas,"	Gas <u>X</u> / L Production	iquid Inject	tion grou	/ Wast nd Storag	e Disposa e/ Deep	l/ p/ Sha	llow <u>x</u> /)
LOCAT	ION:	Elevation:	765 GL	Watershed	Ве	atty Ru	n		
		District: R	avenswood	County Ja	cksc	<u> </u>	Quadrangl	e Ripley	
	***************************************	dette Oil			1				Cement
				C" Chas. W	V	Casing	Used in	Left	fill up
		AGENT Mich	مسك ه			Tubing	Drilling	in Well	Cu. ft.
		21 Big Tyl			,	Size	- Anna Justinia (1884)	Absence contrade	
		WER Mary V.		rs		20-16 Cond.			
	***************************************	venswood,			•	13-10"	112	112	Surface
MINER	AL RI	GHIS OWNER M	Mary V. Cr	ow Heirs	•	9 5/8			
ADDRE	SS <u>Ra</u>	venswood,	WV		•	8 5/8	2115	2115	Surface
OIL A	ND GA	S INSPECTOR	FOR THIS W	ORK Richard		7			
			***	antsville,	. WV	5 1/2			
PERMI	T ISS	UED 7-25-8	31		,	4 1/2			
DRILL	ING O	OMMENCED 7-	-29-81			3			
DRILI	ING O	OMPLETED 8-	<u>-17-81 🗸 </u>	<del>Value or a property of the second of the se</del>	•	2 7/8	4480	4480	340 sks.
		BLE: PLUGG PROGRESSIO				T :			
		VERBAL PE				Liners used			
ON	******************				•				
GEOLO	GICAL	TARGET FOR	MATION De	vonian Bøc	wn	Shale	Dep	th 4480	feet
	Depth	of complet	ed well 44	80 fee	t R	otary x	_/ Cabl	e Tools_	
	Water	strata dep	th: Fresh	80 fee	t;	Salt 1200	feet		
	Coal	seam depths	3 <b>*</b>			Is coal	being min	ed in the	area? No
		DATA	MANY THE CONTROL OF T	AVI.	WOMPH LEEKING				
OPEN			• • • • • • • • • • • • • • • • • • • •			Dat	r roma den	÷h	foot
				Mcf/					
	ن <i>ح</i> مت			Mcf/					
				w between i				-	
	C+a+i			psig(sur					
							ierc, ara		TO STAC TI
	-		,	ple complet			rope der	+h	foot
				W-F					
	ت دمت			Mcf/					*.
				Mcf/					
	C4-4-			w between i					
	للصد	e rock pres	35ULE	psig(surf	.ace	neasuren	ent) arter	not	TS SINC TU
							(Conti	אווים מאו אויי	moreo cido

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Devonian Brown Shale has not been perforated yet so no production records as to pressure or open flow can be obtained.

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
Clay	0	5	
White Sand Rock	5	25	
Red Shale	25	60	
Sand	60	70	
Sand & Shale	70	112	
Gray Shale	112	120	
Red Rock	120	140	
Gray Shale	140	170	
Red Rock	170	175	
Gray Shale	175	210	
Red Rock	210	235	
Gray Shale	235	240	
Red Rock	240	250 470	
Gray Shale	250 470	608	
Sand & Shale	608	685	
Sand	685	800	
Shale Sand & ShaleShale	800	1015	out.
Shale	1015	1135	<b>₩</b>
Sand	1135	1200	
Shale	1200	1340	
Sand & Shale	1340	1370	
Shale	1370	1620	
Sand & Shale	1620	1650	
Lime	1650	1710	
Injun Sand	<b>≟</b> 710	1740	
Shale	1740	1940	and the second of the second o
Sand & Shale	1940	2040	
Coffee Shale	2040	2120	
Berea Sand	2120	2210	
Shale	2210	2403	
Total Depth	2403	2408	
	2408	4480	
•			
	I		

(Attach separate sheets as necessary)

Burdette Oil & Gas Co., Inc.	
Well Operator	
11-1110	
By: Michael 4 Tourdeto	
Date: March 11, 1982	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including wal, encountered in the drilling of a well."

OIL AND GAS WELL PERMIT APPLICATION <u>1345-RED</u> WELL TYPE: Gil \_ / Gas County. State (If "Gas", Production / Underground storage Elevation: LOCATION: Watershed: Weakty Pun WELL OPERATOR COAL OPERATOR Address Charleston, F.V. 23512 COAL OWNER(S) WITH DECLARATION ON RECORD: OIL & GAS Tar T. Cra Talra ROYALTY OWNER Name Pavanoucout, Site. Address Address 急等等 Acreage COAL LESSEE WITH DECLARATION ON RECORD SURFACE OWNER Address Address Well NO. 104 Acreage BEFORE CONSTRUCTION BEGINS NOTIFY MINES FIELD SALE (IF MADE) TO: DISTRICT OIL AND GAS INSPECTOR: Name Address Street City DESIGNATED AGENT Address .Va. PH:The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_/ lease \_\_/ other contract  $\sqrt{1}$  dated  $\sqrt{7-23}$ , 198/, to the undersigned well operator from Kaiser undersigned well operator from Kaiser Exploration and Mining Co. (If said deed, lease or other contract has been recorded:) , 19\_\_, in the office of the Clerk of the County Commission of County, West Virginia, in \_\_\_\_\_\_ Book \_\_\_\_, at page \_\_\_\_. A permit is requested as follows: PROPOSED WORK: Drill / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation Other physical change in well (specify) same formation take which it was originally --planned as shown on the work order on the reverse side hereof. The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the maililg or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia. PLEASE SUBMIT COPIES OF ALL Burdetto Oil & Gas Co., Inc. GEOPHYSICAL LOGS DIRECTLY TO: OFFICE OF OIL AND GAS BLANCE BURG Well Operator 1615 Washington Street, East By: Michael A. Rurdette Charleston, West Virginia 25311 Telephone - (304) 348-2057

UIL AND GAS - DEPARTMENT OF MINES

Date: July 22,

## PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

7.1.T.7.1.10 CO!	MINACTO	K (IF	KHONII)						
				AGETE				46	-
				٠	enant.				
ECTOCICAT 1	ARCET	70rmat	10H, _						
ēst <b>im</b> et	ed dep	th of	complet	ed we	11, _		feet	Rotary/	Cable tools/
Approx1	w ster	ater s	trata d	lepths	TT :	esh,	eet; salt,	feet.	
Approxi	zate c	cal se	am dept	:hs:	in in the second second second second	Is	coal being mi	ned in the area	1? Yes/ No/
asing and t	P95 <b>P</b> 997	2206211	P.W					•	
asing or	1		" Ificat:	'A# <b>©</b>	•		INTERVALS	8 A000000000000000000000000000000000000	
UBING TYPE	S170	9	i We 1 ght	. 9	mend	B .	•	CEMENT FILL-UF OR SACKS (Cubic feet)	
onductor	13-3	Į.			7360	112	mert in well	. Cubic lees)	
resh water				/-/4				•	Variage
cal					Acceptance			•	
ntermediate	8-5,	787		2.5		2115	22.88	STATE OF THE STATE	Sizes
roduction	244			ų):		5600			
ubing	2-3	18"				5650		K. Jok	Depths set
iners							OF THE OUR OW		Perforations:
					100000000000000000000000000000000000000				
		10							Too Bottom
			(2006) (1006) (1006) (1006) (1006) (1006) (1006)			-			
IIS PERMIT /	MUST B	e pos	TED AT	THE \	MELL rapter	22,			
redril	ling		This per	rmit sho	ill exp	ire if			
pperations have Deputy Dis	-A-C		Mel	Ø	-	To the second se			MAN
								C. C.	
The cation has all location	to be under examin	issusd signed ed thi well l	coal c s propo ocation	fift.  perat	raea een (	declaration  15) days of r  WAIVER  country  cation. If	under Code § eccipt thereo lessee a mine map ex	/ of the c ists which cove e undersigned h	e permit  cal under this well  rs the area of the
Palcecte Pe	driles	ents o	I the k	iest V:	lrgin	is Code and t	ne governing	regulations.	ማማደብ <u>ከ</u> ዋቦ <u>ዊ</u> <b>ዋ</b> ዋቸ
.60:		** *	_, ·19			ø -			

The

TO THE DEPARTMENT OF MINES,





OIL & GAS DIVISION DEFT. OF MINES

## Oil and Gas Division OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE September 25, 1972				
Surface Owner	Company				
Address	Address				
Mineral Owner Management Manageme	Farm Acres Acres				
Address	Location (waters)				
Coal Owner	Well No. Elevation				
Address	District County				
Coal Operator	QuadrangleQuadrangle				
Address	- Wadialigie				
THIS PERMIT MUST BE POSTED AT THE WELL SITE All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for This permit shall expire if operations have not commenced by 1-26-73	INSPECTOR TO BE NOTHED Mr. Fred Burdet Box 190 Cicerone Route PH: 984-9263 Sissonville, W. Va. 25185				
Deputy Director 013 & Gas Division					
NEW WELL DRILL DEEPER  OIL AND GAS WELL ORIGINALLY DRILLED  The enclosed plat was prepared by a registered engineer or have been notified as of the above date.  The above named coal owners and/or operator are hereby not make by Section 3 of the Code, must be received by, or file Copies of this notice and the enclosed plat were mailed by ror coal owners at their above shown respective address	and recorded on the day of				
•	Very truly yours.  Sign Name) Well Operator				
Address	Street				
of	Date on Mariana				
Well Operat	City or Town				
•					

\*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 and the well operator authorized to proceed.

EORD DRILL

PERMIT NUMBER

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

PROPOSED WORK ORDER 7	FO DRILL	DEEPENFRACTURE-STIMULATE					
DRILLING CONTRACTOR: (	If Known)	ADDRESS 322 322					
NAME CARA SEALES							
ADDRESS							
TELEPHONE			4611				
ESTIMATED DEPTH OF COM		ROTARY	CABLE TOOLS				
PROPOSED GEOLOGICAL FO							
TYPE OF WELL: OII			E DISPOSAL				
TENTATIVE CASING PROGR			CEMENT FILL UP				
SIZE	DRILLING	WELL	OR SACKS - CUBIC FT.				
20 - 16	and at the	AND					
13 - 10	****		A CONTRACTOR OF THE CONTRACTOR				
9 - 5/8	2200		- E. C. C				
8 - 5/8 7	<i>i, s</i>	10 10 10 10 10 10 10 10 10 10 10 10 10 1	To Surface				
5 ½	<u>.</u>	5689*					
4 ½							
3			Perf. Top				
2			Perf. Bottom				
Liners			Perf. Top Perf. Bottom				
			Torr Borrom				
OF PLAT.  TO DRILL DEEPER OR REDI SUBMIT FIVE (5) COPIE WELLS DRILLED PRIOR MUST ALSO BE SUBMIT  TO FRACTURE - STIMULATE OIL AND/OR GAS WELL BOND, PERMANENT PL OIL AND/OR GAS WELL ING ORIGINAL PERMIT	RILL: ES OF OG - 1, SHOWING ORI R TO 1929, A PERMANENT TTED. E: L ORIGINALLY DRILLED BEF AT AND ORIGINAL WELL R L ORIGINALLY DRILLED ON NUMBER, AND PERFORMANC	GINAL PERMIT NUMBER A COPY OF THE PLAT AND ORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 19 CE BOND.	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  29, FIVE COPIES OG - 1, SHOW-  Inspector to be notified twenty-				
thereof.  WAIVER: I the undersigned, this lease have examined.  We the	Agent for on our mine Coal Compan	Coal Company, Owner maps this proposed well locally have no objections to said	er or Operator of the coal under ation.  well being drilled at this location, 17, Chapter 22 of the West Virginia				
			For Coal Company				

Official Title