

N21664

6-4-77

Date_

Drawing No.

Scale.

" = 400 '

JUL 6 1977

47-035

Fresh water_

Producing Sand Oriskany



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

CLOGAS DIVISION

JAN 1 1 1978

Oil and Gas Division

WELL RECORD/4

Quadra	ngle_	<u>kavenswood</u>	TO
		•	
Permit	No	JAC-1405	

Rotary_XXX_	Oil
Cable	G%XXXX
Recycling	Comb.
Water Flood_	Storage
Disposal	(Kind)

Feet -

Permit No. <u>040-1403</u> .47-035				Disposal	(Kind)
Company Kaiser Exploration & Mining Co. Address Kenneth Donohew Acres 20		Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Left Fork of Cow Run Well No DEK #44 Elev897 District Union County Jackson		Size 20-16 Cond.			
The surface of tract is owned in fee by Kenneth & Mary Donohew Address Evans, WV	Numreuch schwert (- Numreu	13-10" 9 5/8 8 5/8	259	259	110 Sax=to surface
Mineral rights are owned by Kenneth & Mary Donohew Address Same		7 5 1/2	2626	2626	75 Sax=625'
Drilling Commenced 6/25/77 Drilling Completed 7/9/77 Initial open flow 121 MCFD 5	hie	4 1/2	4842	4842	150 Sax=1732'
Final production 1113MCFQu. Well open 3 hrs. before test 1380	bls.	Liners Used			
Well treatment details: Perforated Oriskany at 4767½'-4768½'		Attach copy of c Omega Jet sho	ementing rec	ord. Hall	iburton
Completed natural - Did not fracture					
Coal was encountered at None	Feet		Inch	es	erriginas (surantinos (secures como como especial esta (surantinos (secures surantinos (secures surantinos (se

__ Salt Water_

Depth 4767½ - 4768½'

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Soil	0	20	Management of the control of the con
Sand	20	30	
Red Shales	30	230	
Sand	230	242	
Shale	242	395	
Sand	395	307	
Shales & Red Rock	307	608	
Sand	608	615	
Red Rock	615	671	
Sand	671	682	,
Red Rock	682	845	
Sand	845	866	
Red Rock	866	886	
Sand	886	912	
Red Rock	912	961	
Sand	961.	976	
Red Rock	976	1015	
Sand	1015	1035	
Red Rock	1035	1122	
Shale	1122	1194	
Salt Sand	1194	1288	
Shale	1288	1360	
Sand	1360	1396	
Shale	1396	1538	

Feet .

(over)

	W- EAST-COLOR COLOR COLO					- And Commercial Comme
Formation	Color	Hard or Soft	Top Feet 14	Bottom Feet	Oil, Gas or Water	* Remarks
Sand Shale Sand Shale Maxon Shale Big Lime Shale Injun Sand Shale Coffee Shal Berea Sand Shale Brown Shale Shale Marcellus S Onondaga I. Oriskany Sa	ie Shale S.		1538 1557 1672 1721 1771 1841 1851 1990 2007 2118 2468 2486 2498 3652 4111 4516 4661 4736	1557 1672 1721 1771 1841 1851 1990 2007 2118 2468 2468 2498 3652 4111 4516 4661 4736 4769		
Helderberg Log Total		and the second s	4769	TD		
109 1002	. Depui			4840	4661	2000/SS-50-
		Basery		The state of the s	2764	
		Company of the Compan				
			· · · · · · · · · · · · · · · · · · ·			aliko da kuma e da kata kata kata kata kata kata kata k
			Land Control C			
			VII nimetrality			
				spinospinospinospinospinospinospinospino		
			Î	ř	en e	
		1		Į.		
			an en diagon de la colonia.	v		
garan era		4	i i	į	en programme de la companya de la c La companya de la co	
						ing the state of
		E .	Additional and the second	ğ.		
		Anna Constitution of the C				
		salaw wegensya	SERVING AND	And the second s		
						A second
		PLUDDACTO O O O O		cupility of		Abbilio de La companio
•		ewaysight-cause e		n-merchanism of the second		
	•	Manual Manual Production				
		the electronic description of the el		Marie Marie Proposa		
		an promotion of the state of th				
		T .	THE PROPERTY OF THE PROPERTY O	· · · · · · · · · · · · · · · · · · ·		
				and the second s		
tiski, omtoppysenid kontribje en og en sjondensk som til till skal statistisk som til en standerske persentati I	CO. CO. C. ST. LOCKSON, C. SEGON AS PARTICULAR AND		CONTRACTOR OF THE PROPERTY OF			CONTRACTOR

(Title)





Careas de Mara. Dhifti of Miness.

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

DOWN ON THE WAY TO A TANKE OF A TO SEE A TANKE OF A TAN	
TO THE DEPARTMENT OF MINES, Charleston, W. Va.	0 1077
	DATE June 8, 1977
Surface Owner Kenneth & Mary Donohew	Company Kaiser Exploration & Mining Co.
Address Evans, W. Va.	Address Box 98 Ravenswood W Va
Mineral Owner Kenneth & Mary Donohew	Farm Kenneth Donohew Acres 20 ac
Address Fyans W. Va.	Location (waters) Left Fork of Cow Run
Coal Owner Same as above	Well No. DEK #44 Elevation 897
Address	District Union County Jackson
Coal Operator Not operated	Quadrangle Cottageville 7½" Ravenswood 15'
Address	e uaurangie
THIS PERMIT MUST BE POSTED AT THE WELL	SITE
la l	22
Torovisions being in accordance with Chapter of the W. Va. Code, the location is hereby appro-	ved - : :
for <u>drilling</u> . This permit shall expir	TO BE NOTIFIED Richard Morris
operations have not commenced by 10-22-77	ADDRESS Grantsville, W. Va.
	PHONE 354-7259
Deputy Director - Oil & Gas Division	and the state of t
GENTLEMEN:	
The undersigned well operator is entitled to drill up	oon the above named farm or tract of land for oil and gas, having fee
19 69 in Jackson County, Book 1 XXX NEW WELL DRILL DEEPER	Page 386 REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DR	
The one will omigmater or	ILLED BEFORE JUNE 3, 1989.
The enclosed plat was prepared by a registered enginate been notified as of the above date.	ineer or licensed land surveyor and all coal owners 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	nereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mai or coal owners at their above shown respective addressame day with the mailing or delivery of this copy to the copy to th	led by registered mail, or delivered to the above named coal operators day before, or on the he Department of Mines at Charleston, West Virginia.
	MATCED FOOD OPATION & MINING CONDA
PLEASE SUBMIT COPIES OF ALL	Very truly yours, KAISEK EXPLORATION & MINING COMPA
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) X / / / / West Operator
TTT TTT TTT ADAT ACTAL - 1.	w. r. wegener, owner's Representative
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	PO Box 98 Address
P. O. BOX 879	of
MORGANTOWN, WEST VIRGINIA 26505 We	Ravenswood,
AC-304 - 292-6331	City or Town
	West Virginia
	State
notice and plat by the department of mines, to said proposed lo	y the Department of mines, within said period of ten days from the receipt of cation, the department shall forthwith issue to the well operator a permit reciting coal operators or found thereto by the department and that the same is approved
arte de VI Mila	

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article & Section 126 and will carry out the specified requirements."

JAC-1405 PERMIT NUMBER

47-035

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

DRILLING CONTRACTOR: (If Known) NAME F A D DRITTING CORDADY ANDRESS BOX 448, Elkview, W. Va. ADDRESS BOX 448, Elkview, W. Va. ADDRESS BOX 1433, Charleston, N. Va. TELEPHONE 342-3171 ROTARY XXX CABLE TOOLS PROCOSED GEOLOGICAL FORMATION: Driskany TYPE OF WELL: OIL GAS XXX COMB STORAGE DISPOSAL RECYCLING WATER PLOOD OTHER TENTATIVE CASING FROGRAM: CASING AND TURING USED FOR LIFT IN CLIMINI FILL UP 13-16 20-16 CASING AND TURING USED FOR LIFT IN CLIMINI FILL UP 13-18 20-16 20-18 20-19 3-19	PROPOSED WORK ORDER TO	O XXX DRILL	DEEPEN F	RACTURE-STIMULATE
ADDRESS BOX 448, Elkview, W. Ve. TELEPHONE 965-3379 TELEPHONE 965-3379 TELEPHONE 342-3171 TELEPHONE 965-3379 TELEPHONE 342-3171				
TELEPHONE 342-3173 REFINANCE DEPTH OF COMPLETED WELL. 4950	NAME FWA Drilli	ng Company	NAME Bill W.	Backus
ESTIMATED DEPTH OF COMPLETED WELL: 4950 ROTARY XXX CABLE TOOLS— PROPOSED GEOLOGICAL FORMATION: 0riskany TYPE OF WELL: OLL GAS XXX COMB. STORAGE DISPOSAL. RECYCLING WATER FLOOD OTHER TENTATIVE CASING FROGRAM: CASING AND TUSING USED FOR LETT IN CHMAT FILL UP 29-16 29-16 19-16 19-16 20-10 20-11 20-10 20-11 20-10 20-11 20-10 20-11 20-10 20-11 20-10 20-11 20-	ADDRESS Box 448, Elkv	iew, W. Va.	ADDRESS Box 1433	, Charleston, W. Va.
ESTIMATED DEPTH OF COMPLETED WELL: 4950. ROTARY XXX CABLE TOOLS— PROFOSED GEOLOGICAL FORMATION: Oriskany TYPE OF WELL: OIL GAS XXXX COME. STORAGE DISPOSAL. RECYCLING WATER FLOOD OTHER TENTATIVE CASING FROGRAM: CASING AND TUSING USED FOR LIFT IN CHMENT FILL UP SIZE DEBLING WELL OR SACKS CUBIC FT. 29. 16. 19. 10 19. 10 19. 578 250' Z50' T110 Sax = to SUPF 8. 578 2 558 250' Z50' T110 Sax = to SUPF 8. 588 2 588 7 2 625' 650' 75 Sax = 625' 5 5 445 4950' 4950' 150 Sax = 1800' 2 1. 10 2 1. 10 2 1. 10 2 1. 10 3 1. 10 4 1. 10 4 1. 10 5 1. 10 5 1. 10 5 1. 10 6 1. 10	TELEPHONE 965-3379			
PROPOSED GEOLOGICAL FORMATION: ORL ORL ORS XXX COMB. STORAGE DISPOSAL RECYCLING WATER FLOOD OTHER TENTATIVE CASING FROGRAM: CASING AND TUBING USED FOR BYELL OR SACKS - CUBIC FT. 20 - 16 SIZE DRILLING USED FOR BYELL OR SACKS - CUBIC FT. 21 - 16 22 - 16 25 - 16 25 - 17 26 - 17 25 - 18 25 - 19 25 - 19 25 - 19 25 - 10 25 - 10 25 - 10 25 - 10 25 - 10 25 - 10 26 - 10 27 - 2625	ESTIMATED DEPTH OF COME	PLETED WELL: 4950		
TYPE OF WELL: CASING AND TUBING	PROPOSED GEOLOGICAL FOR	RMATION: Oriskany		
TENTATIVE CASING PROGRAM: CASING AND TUSING USED FOR DRILLING				DISPOSAT
CASING AND TUSING SIZE DRILLING WELL OR SACKS - CUBIC IT. 20-16 13-10 9-5/8 250' 250' 110 SAX = to SUPF 4-5/8 4-5/8 26-25' 5650' 75-5AX = 625' 36 4950' 4950' 150 SAX = 1800' 2-2 4950' 4950' 150 SAX = 1800' Perf. Relton Perf. Relton Perf. Belton Perf. Belton APPROXIMATE FRESH WATER DEPTHS None anticipated No BY WHOM? TO DRILL: SUEMIT FIVE (5) COPIES OF OG - 1, S100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. WO DRILL DEEPER OR REDRILL: SUEMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECMUSIVE AND PERFORMANCE BOND TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, SHOWING GRIGINAL PERMIT NUMBER AND PERFORMANCE BOND. OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, SHING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. OIL AND/OR GAS WELL ORIGINALLY DRILLED OR AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. OIL AND/OR GAS WELL ORIGINALLY DRILLED OR AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following wasver must be completed by the coal operator if the permit is to be issued within ten days of reference. WALVER: I the undersigned, Agent for				
CASING AND TUBING STZE DRILLING WELL OR SACKS. CUBIC FT. 20-16 19-16 19-18 2-16 19-19 2-18 2-19			JIIIOWAIDII FIX	OTHER
SIZE DRILLING WELL OR SACKS - CUBIC FT. 29 - 16 13 - 10 9 - 5/8 250' 250' 110 sax = to surf 8 - 5/8 250' 250' 110 sax = to surf 8 - 5/8 2625' 650' 75 sax = 625' 5 \(\text{S} \) 4950' 4950' 150 sax = 1800' 2	TENTATIVE CASING PROGRA	λM:		
20.16 13.10 3.5/8 2625' 650' 75 SAX = 625' 5 M 4950' 4950' 150 SAX = 1800' 24/10 4950' 150 SAX = 1800' 24/10 4950' 4950' 150 SAX = 1800' 250' 261 Ferf. Bottom Perf. Top Perf. Bottom Perf. Top Perf. Bottom APPROXIMATE FRESH WATER DEPTHS APPROXIMATE COAL DEPTHS None anticipated BY WHOM? TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. TO DRILL SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED DEFORE JUNE 5, 1929, PIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR APTER JUNE 5, 1929, PIVE COPIES OG - 1, SHING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAJVER: I the undersigned, Agent for			\$	
9 - 5/8 250' 250' 110 sax = to surf 8 - 5/8 2625' 650' 75 sax = 625' 5 16 4 4 4 4950' 4950' 150 sax = 1800' 2 4 5 650' 75 sax = 625' 5 16	Challeton All Marketon and All Andrews Constraints and the Antennae Constraints and Antennae Con	DRILLING	WELL.	OR SACKS - CUBIC FT.
9-5/8 250' 250' 250' 3.56 3.56 7 2625' 650' 75 Sax = 625' 54 4				
8-5/8 7 2625' 650' 75 Sax = 625' 5 ½ 4 ½ 4 4950' 4950' 150 Sax = 1800' 3 Perf. Top Perf. Bottom Perf. Top Perf. Bottom Per		250'	250'	110 cay = to supface
7 2625		La V V	250	110 Sax - to surface
4 ½ 4950' 4950' 150 Sax = 1800' 2 Poff. Ton Poff. Bottom APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER FEET APPROXIMATE COAL DEPTHS None anticipated IS COAL BEING MINED IN THE AREA? NO BY WHOM? TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1928, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR APTER JUNE 5, 1929, PIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for		26251	650'	75 cay = 6251
Perf. Ton Perf. Bottom Perf. Bottom	5 ½			13 30X - 023
Perf. Top Perf. Top Perf. Bottom Perf. Top Perf. Bottom Perf. Top Perf. Bottom Perf. Top Perf. Bottom Ber Withom Ber Withom By Whom? Bermanner Bond and Performance Bond and Perform	4 1/2	4950'	4950'	150 sax = 1800'
Liners Perf. Bottom Perf. Bottom	3		Lisaria ika sa kara taki ni Abawaya	Perf. Top
APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER FEET APPROXIMATE COAL DEPTHS None anticipated IS COAL BEING MINED IN THE AREA? NO BY WHOM? TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR ANTER JUNE 5, 1929, FIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.	2			Perf. Bottom
APPROXIMATE FRESH WATER DEPTHS FEET SALT WATER FEET APPROXIMATE COAL DEPTHS None anticipated IS COAL BEING MINED IN THE AREA? NO BY WHOM? TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECOMMUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, PIVE COPIES OG - 1, SHING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twe four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WALVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.	Liners			Perf. Top
APPROXIMATE COAL DEPTHS None anticipated 16 COAL BEING MINED IN THE AREA? No BY WHOM? TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, PIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.				Perf. Bottom
APPROXIMATE COAL DEPTHS None anticipated No BY WHOM? TO DRILL: SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COF PLAT. TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, PIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.				<u> </u>
TO DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twe four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.	TO DRILL:			
SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twe four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of re thereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.	SUBMIT FIVE (5) COPIES OF PLAT.	S OF OG - 1, \$100.00 PERI	MIT FEE, PERFORMANCE B	OND AND PERMANENT COPY
WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL REC MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG -1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG -1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.	TO DRILL DEEPER OR REDRI	ILL:		
OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Vin Code.	WELLS DRILLED PRIOR	TO 1929, A PERMANENT	GINAL PERMIT NUMBER AN COPY OF THE PLAT AND	ID PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMA BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD. OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Vin Code.	<i>-1</i> + + + + + + + + + + + + + + + + + + +			
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG -1, SH ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND. Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified two four (24) hours in advance. The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal upon this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Vin Code.				
The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal uthis lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Viry Code.	BOND, PERMANENT PLA	T AND ORIGINAL WELL RI	ECORD.	
The following waiver must be completed by the coal operator if the permit is to be issued within ten days of rethereof. WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal understand this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginian Code.	OIL AND/OR GAS WELL (ING ORIGINAL PERMIT N	ORIGINALLY DRILLED ON . UMBER,AND PERFORMANC	AND/OR AFTER JUNE 5, 192 E BOND.	9, FIVE COPIES OG - 1, SHOW-
WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal use this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virg Code.	Required forms must be fil four (24) hours in advance.	ed within ninety (90) days of	completion for bond release.	Inspector to be notified twenty-
WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal use this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virg Code.				
WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal use this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virg Code.				
this lease have examined and place on our mine maps this proposed well location. We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virgicode.	The following waiver must thereof.	be completed by the coal o	perator if the permit is to be	issued within ten days of receipt
We the Coal Company have no objections to said well being drilled at this local providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virg Code.	WAIVER: I the undersigned, Ag	gent for	Coal Company, Owner	or Operator of the coal under
providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virgode.				
ante de Codé. La companya de la com La companya de la co La companya de la co	We the	Coal Company	have no objections to said w	ell being drilled at this location,
		complied with all rules and re	gulations in Articles 4, 5, and	7, Chapter 22 of the West Virginia
,我们就是一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大				
For Coal Company			Annual services and the services of the servic	2 Cool Co

Official Title