



DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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TO THE DEPARTMENT OF MINES.	
Charleston, W. Va.	.DATEOctober 22, 1982
Surface Owner Leo Townsend	•
Address Rt. 1. Murraysville, WV 26153	Company Kaiser Exploration and Mining Company
Kineral Owner Same	Address P. O. Box 8, Ravenswood, WV 26164
A 1 1	Farm Leo Townsend Acres 220
Coal Owner Same	Location (waters) Big Pond Creek
	Well No KFM #147 Elevation 826
	District Harris
Coal Operator None	Quadrangle Pond Creek (7.5) Belleville (15)
	. (20)
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22.	
THE LOCATION TO THE WALCOCK THE LOCATION IS THE	
IF OFERATIONS HAVE TO DOMNEROUS BY 1/27/83 20	BE NOTIFIED Deo Mace
BY Free Deutschle ADD	RPSS D4 1 Barrier C
	RESS Rt. 1, Box 65, Sandridge, WV
PHO	NE <u>655-86</u> 93
ENTLEMEN:	
The undersioned well operator is seen	
le thereto, (or as the consumer to drill upon the ab	ove named farm or tract of land for oil and gas, having fee
ownsend made to Nining Company	d April 19 19.79 by I leo & Alma and seconded on the 29th day of October
79 in Wood County, Book 729	and recorded on the 29th day of October
	PageOO
NEW WELLDRILL DEEPER	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BE	FORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer or lie to been notified as of the above date.	tensed land surveyor and all coal owners and/or operators
The above named coal owners and/or enemand	
The above named coal owners and/or operator are hereby notifinate by Section 3 of the Code, must be received by, or filed	fied that any objection they wish to make, or are required with the Department of Mr.
Copies of this notice and the enclosed plat was and the	the beginning of mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed by regional owners at their above shown respective address le day with the mailing or delivery of this copy to the Desired	stered mail, or delivered to the above named coal operators
e day with the mailing or delivery of this copy to the Departm	nent of Mines at Charleston, West Virginia.
91	truly yours.
DUVCTCAT TOCC DEDOCTOR	Λ ()
OPHYSICAL LOGS DIRECTLY TO: . (Sign	Well Operator
T VIRGINIA GEOLOGICAL AND	Kaiser Exploration and Mining Company
NOMIC SURVEY Address	- F U ROX R
0. BOX 879 of	Street
CANTOWN, WEST VIRGINIA 26505 Well Operator 304 - 292-6331	Ravenswood
~~.	Cny or Town
40 44	West Virginia 26164
	State

*SECTION If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of sand plat by the department of mines, to said proposed location, the department shall forthwith usue to the well operator a permit reciting the said operator and that the same is approved the well operator.

RIANKET ROND

Formerly W00-1208 - Re-

DRILLING CONTRACTOR: (MESPONSIBLE AGEN	т:
NAME Clint Burt & Asso	ciates. Inc.	NAME Robert A.	Pryce ·
	Elkview. HV 25071	ADDRESS P. O. B	ex 8, Ravenswood, WV 201
TELEPHONE 273-5371		TELEPHONE273_	5371
	PLETED WELL: 4611'	ROTARY X	CABLE TOOLS.
PROPOSED GEOLOGICAL FO			
TYPE OF WELL: OUR	GAS CO	MBSTORAC	E DISPOSAL
•			OODOTHER
TENTATIVE CASING PROGRA			•
CASING AND TUBING SIZE	USED FOR DRILLING	LIST IN WELL	CEMENT 1 II I, UP " OR SACKS - CUBIC 1-T.
20 - 16			
13 - 10	•	•	
9-5/8 10 3/4"	250'.	250'	150 sks class A (to surf
8 - 5/8			
7	2086'	2086'	65 sks 50/50 pozirix
5 %			100 sks Class A
6 %	4611'	4611'	225 sks class A
As a second			Perf. Top
jiens .			Perf. Bottom
			Perf. Top
		_	Perf. Bottom
UPPROXIMATE FRESH WATER	DEPTHSFEET	SAIT WATER	E-E-P-P
UPPROXIMATE COAL DEPTHS		on market	PEE1
S COAL BEING MINED IN TH	E AREA? None	•	*
	NONE NONE	BY WHOM?	
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE B	OND AND PERMANENT COPY
O DRILL DEEPER OR REDRIL			•
	tana ana ana ana ana ana ana ana ana ana	•	
WELLS DRILLED PRIOR T	OF OG - 1. SHOWING ORIGINA TO 1929, A PERMANENT COPY TD.	L PERMIT NUMBER AN Y OF THE PLAT AND T	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
O FRACTURE - STIMULATE:	•	6 .	
OIL AND/OR GAS WELL OF	RIGINALLY DRILLED BEFORE AND ORIGINAL WELL RECOR	JUNE 5, 1929, FIVE (5) (COPIES OG - 1, PERFORMANCE
OIL AND/OR GAS WELL OR	THE REWI	OP Approximation	9. Five cories og - 1, show-
		OND.	
four (24) hours in advance.	min minery (an) case of com	pletion for bond release.	Inspector to be notified twenty-
		• •	
		•	
	•		The Control of the Co
	•	•	
The following waiver must be ereof.	r completed by the coal operato	or if the permit is to be is	ssued within ten days of receipt
	,		•
MIVEIL: I the undersigned, Agen	l for	_ Coal Company, Owner	or Operator of the coal under
. The season was exceptibilities	and hace on our mine make	this proposed well locate	on.
We the	Coal Company have	no objections to said	Il being drilled at this location,
providing operator has co	mplied with all rules and regulation	one in Articles 4 f	II being drilled at this location, Chapter 22 of the West Virginia
Code.	setuidu	m saudes 4, 5, and 7	, Cuspter 22 of the West Virginia
•	· · · · · · · · · · · · · · · · · · ·	••	•
•	•		•
4.		For	(Cost Compuny
•			
			Official Title
•			

FRACTURE STIMULATE.

osed work order to

DEPARTMENT OF MINES the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

	DATE January 25, 1982
arface Owner Leo Townsend	
ddress Rt. 1. Murraysville, WV 26153	Company Kaiser Exploration and Mining Company Address P. O. Box 8. Ravenswood, WV 26164
lineral Owner Same	- Loo Townsond
ddrest	Location (waters) Big Pond Creek
oal Owner Same	
ddress	Dievation 020
oal Operator None	word_
ddress	Quadrangle Pond Creek (7.5) Belleville (15)
	INSPECTOR TO BE NOTIFIED Dec Mace
1087	Deo Mace
FEB 3 - 1982 OIL AND GAS DIVISION WYDERARTMENT OF MINES	DDRESS Rt. 1. Box 65, Sandridge, WV
W DEPARTMENT OF	HONE 655-8693
NTLEMEN:	선거 보이 하는 것으로 보는 것이 되는 것이 되는 것으로 보는 것을 하는 것이다. 1980년 - 1980년
The undersigned well operator is entitled to drill upon the	above named farm or tract of land for oil and gas, having for
	above named larm or tract of land for oil and gas, having for
wnsend made to Mining Company	lated April 19 19 79 by I. Leo & Alma
wnsend made to Mining Company	and recorded on the 29th day of October
winsend made to Kaiser Exploration and Mining Company Government of lease de Kaiser Exploration and Mining Company Governm	and recorded on the 29th day of October Page 680
Winsend made to Kaiser Exploration and Mining Company Wood County, Book 729 X New Well Drill Deeper	and recorded on the 29th day of October Page 680 REDRILL FRACTURE OR STIMULATE
Winsend made to Kaiser Exploration and Mining Company Government of lease de Kaiser Exploration and Mining Company Government of lease de Kaiser Exploration and Mining Company County, Book 729 X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED	Page 680 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969.
Winsend made to Kaiser Exploration and Mining Company Government of lease de Kaiser Exploration and Mining Company Government of lease de Kaiser Exploration and Mining Company County, Book 729 X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED	and recorded on the 29th day of October Page 680 REDRILL FRACTURE OR STIMULATE
Winsend made to Kaiser Exploration and Mining Company G in Wood County, Book 729 X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer or a 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	and recorded on the
Winsend made to Kaiser Exploration and Mining Company 9 in Wood County, Book 729 X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer on a been notified as of the above date. The above named coal owners and/or operator are hereby in the coal owners and/or operator are hereby in the coal owners and the enclosed plat were mailed by a coal owners at their above shown respective address.	and recorded on the 29th day of October 680 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. relicensed land surveyor and all coal owners and/or operators obtified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators
Winsend made to Kaiser Exploration and Mining Lompany 9 in Wood County, Book 729 X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer on a been notified as of the above date. The above named coal owners and/or operator are hereby in make by Section 3 of the Code, must be received by, or fill copies of this notice and the enclosed plat were mailed by a real owners at their above shown respective address the day with the mailing or delivery of this copy to the Dept.	and recorded on the 29th day of October 680 REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969. relicensed land surveyor and all coal owners and/or operators obtified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. * registered mail, or delivered to the above named coal operators
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Winsend made to Mining Company 9 in Wood County, Book 729 X NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLED The enclosed plat was prepared by a registered engineer on the above date. The above named coal owners and/or operator are hereby in the above named coal owners and/or operator are hereby in the above of this notice and the enclosed plat were mailed by its coal owners at their above shown respective address the day with the mailing or delivery of this copy to the Deput ASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO: BLANKET BOND	and recorded on the
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^{**}SECTION If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of the and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting filing of sur; plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved the well operator authorized to proceed.

DRILLING CONTRACTOR: (11)	어머니의 모든 아이트 프로마스 그 그를 제작하다면 그는 그 그 가게 그 하나요?		RACTURE STIMULATE			
COLL COLL COLL CO. A. C. C.	(nown)	RESPONSIBLE AGENT				
NAME LITTLE MULTER ASSOCIA	ites. Inc.	NAME_Robert A. Pryce				
ADDRESS P. 0. Box 388, E1	kview. WV 25071	ADDRESS P. O. Bo	x 8; Ravensward, WV 261			
TELEPHONE 273-5371			371			
ESTIMATED DEPTH OF COMPLE	TED WELL 4611'		CABLE TOOLS			
PROPOSED GEOLOGICAL FORM		MUIARI <u> </u>				
TYPE OF WELL OL.		The state of the s				
TENTATIVE CASING PROGRAM:		WATER FLA	OOD OTHER			
CASING AND TUBING SIZE	USED FOR DRILLING	NI TELL	CHMENT HILL UP			
	DRILLING	WELL	OR SACKS - CUHIC FT.			
20 - 16 - 13 - 10						
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9-5/8 10 3/4"	2501 .350	250' 350 ·	150 sks class A (to surf			
8 - 5/8			65 de 50/50			
	2086'	20861	65 sks 50/50 pozmix			
5 %						
4 %	4611'	4611	225 sks class A			
			Perf. Ton			
			Perf. Bottom			
Liners		•	Perf. Top			
			Perf. Bottom			
IS COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES OF PLAT.						
SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINAL PERMIT NUMB Required forms must be filed w	OG - 1, SHOWING ORIGINAL 1929, A PERMANENT COPY SINALLY DRILLED BEFORE A ND ORIGINAL WELL RECORD SINALLY DRILLED ON AND/O ER, AND PERFORMANCE BOY	UPERMIT NUMBER AND TO OF THE PLAT AND TO CUME 5, 1929, FIVE (5) CO D. OR AFTER JUNE 5, 1929 ND.	O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE FIVE COPIES OG - 1, SHOW-			
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MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINAL PERMIT PLAT AIR OIL AND/OR GAS WELL ORIGINAL PERMIT NUMB Required forms must be filed we four (24) hours in advance. The following waiver must be detected. We the	OG - 1, SHOWING ORIGINAL 1929, A PERMANENT COPY SINALLY DRILLED BEFORE A ND ORIGINAL WELL RECORD SINALLY DRILLED ON AND/O ER, AND PERFORMANCE BOS sithin ninety (90) days of comp completed by the coal operator or and place on our mine maps to Coal Company have	UPERMIT NUMBER AND TO CO. UNE 5, 1929, FIVE (5) CO. OR AFTER JUNE 5, 1929 ND. Idetion for bond release. If the permit is to be is Coal Company, Owner of this proposed well location no objections to said well	O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-			
SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINAL PERMIT PLAT AND OIL AND/OR GAS WELL ORIGINAL PERMIT NUMB Required forms must be filed we four (24) hours in advance. The following waiver must be chereof. WAIVER: I the underzigned, Agent for this lease have examined a providing operator has com-	OG - 1, SHOWING ORIGINAL 1929, A PERMANENT COPY SINALLY DRILLED BEFORE A ND ORIGINAL WELL RECORD SINALLY DRILLED ON AND/O ER, AND PERFORMANCE BOS sithin ninety (90) days of comp completed by the coal operator or and place on our mine maps to Coal Company have	UPERMIT NUMBER AND TO CO. UNE 5, 1929, FIVE (5) CO. OR AFTER JUNE 5, 1929 ND. Idetion for bond release. If the permit is to be is Coal Company, Owner of this proposed well location no objections to said well	O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty- sued within ten days of receipt or Operator of the coal under on.			

#1)24([V.]*						2) Ope	rator's	
(5 42)			•			\$4 t	NEM #	107 1208 Pop
	• • • • • • • • • • • • • • • • • • • •			_		1יוא (נ	Well No	107 - 1208-Ren
DRILLING CONT.	RACTOR:			ST	ATE OF WEST NOR	GINIA		· · · · · · · · · · · · · · · · · · ·
Clint_Hur	"L		DEPA	TIMENT	OF MUNES, OFCA	ND GAS DIVISIO		
•			ស៊ីអ	, AND G	AS WULL PERMIT	APPLICATION		
			Y					•
4) WELLTYPE	: A Oil	all Brodu	Gas^	/	/ Underground ste	ornye	_/ Decp	/ ShallowX/)
5) LOCATION:	Elevation	ı: <u>826</u>	'		_ Watershed:	Bia Pond Cr	reek	
·	District:	<u>Har</u>	ris		County: Wo	ood	Quadrangle:	Pond Creek
				on_and			AGENTR	A. Pryce
Address). Box Piswood	0 1, WV	26164		Address		
7) OIL & GAS				_3:_3:_1.				
ROYALTY O	WNER Le	o Town:	send		12	•	TOR None	
Address		nravev	ille. W	V 2	5153	Address		
Acreage			N					ATION ON RECORD:
8) SURFACE O						· NameNo	one	
Address						Address		•
		<u> </u>			-	Name		
Acreage 9) FIELD SALE	(IF MADE)	TO:				Address		
Address								
					14	•	E WITH DECLARATI	ON ON RECORD:
10) OIL & GAS I			OTIFIED			Name No.	one .	
Address	Linden	Rt., B	Box 3A,	Loone	yville, WV	724		
		<u>:</u>						
15) PROPOSED							cture or stimulate	
					Perforate n			
in GEOLOGIC					Brown Shale			
17) Estimate	d depth of cor	npleted wel	11,4	611	fcet			
18) Approxi	mate water str	ata depths:	Fresh,				feet.	
19) Approxi	mate coal sëan	n depths: _			Is coal	being mined in the	area? Yes	'No
20) CASING AN	D TUBING	PROGRAM	А					•
CASING OR TUBING TYPE	11 .	SPECI	FICATIONS Weight	1	FOOTAG	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
s · · · · · · · · · · · · · · · · · · ·	Size	Grade		lew Used	For drilling	Left in well	(Cubic feet)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Conductor	10 3/4		·	x	350 250	350 250	150 sks cla	Kinds Gy Kulliso
Fresh water Coal	10 3/4			`- 	350 250	050 200		Sizes
Intermediate	7"			χ	2086	2086	65 sks 50/5 100 sks 61a	pozmíx Sa A
Production	4 1/2'				4611	4611	225 sks 50/	Copbinix -
Tubing					<u> </u>	 		Perforations:
Liners								Top Bottom
21) EXTRACTION								
Check and p	rovide one of	the follow	ing:	ntinuina c	ontract or contracts	hy which I hold th	ne right to extract oil or	cas.
Include The re	equirement of	Code 22-4	-1-(c) (1) th	rough (4)	. (See reverse side for	or specifics.)	ic i.g.i. to oxiliate on	
22) POVALTY	PROVISIONS				•			no for flat well royalty of any
Is the right to	extract, prod	uce or mar	ket the oil o	r gas base r of the o	d upon a lease or oth	er continuing contr sich is not inheren	fact or contracts providing the related to the volume	ng for flat well royalty or any ne of oil or gas so extracted,
produced or	marketed?	∕es 🔲 N	to 🔲					
If the answer abo	ve is No, not	ning addition	onal is need	ed. If the	answer is Yes, you	may use Affidavit	Form IV-60.	•
23) Required Co			Leba amalaca	al al a an	Leadamation plan h	and been unabed by	resistered mail or defi	vered by hand to the above
named coal of	Permit Appu Secutor, coal o	owner(s), a	nd coal less	ce on or l	pefore the day of the	mailing or deliver	y of this Permit Applic	ation to the Department of
Mines at Char							- A P -	~
Notary:						Signed:	ieral Manager	
My Commission	on Expires					lts: Gen	ici a i manager	
					OFFICE USE O	ONLY		
-	47-107-1	208-Re	n	1	rima ing rus		Augu	st 25, 1983
Permit number _						*	Da	The second section of the second section is a second secon
This permit cover	ing the well o	perator ar	nd well locu	tion show	n below is evidence	of permission gran	ited to drill in accordan	ice with the pertinent legal te-
quirements subject	et to the cond	itions cont	ained heren	n and on	the reverse hereother	officiation many be-	olean to the District Oi lon, the well operator o	l had Gos In the Kalt notify the
(Refer to No. 10) P proper district oil	tion to the cor Land gas imp	ector 24 h	ours before	actual pe	ishilfed work has cor	ninenced.)		
Permit expires _		A	ugust 2	25, 19	85 unless d	rilling is commence	ed prior to that date and	prosecuted with due diffigence.
Bond:	Agent	1 1	lat:	Cari	- 1 i	1	1//	1
11/1/3	10.	A K	2	13			Administrator, Office of	f Oil and Gas
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