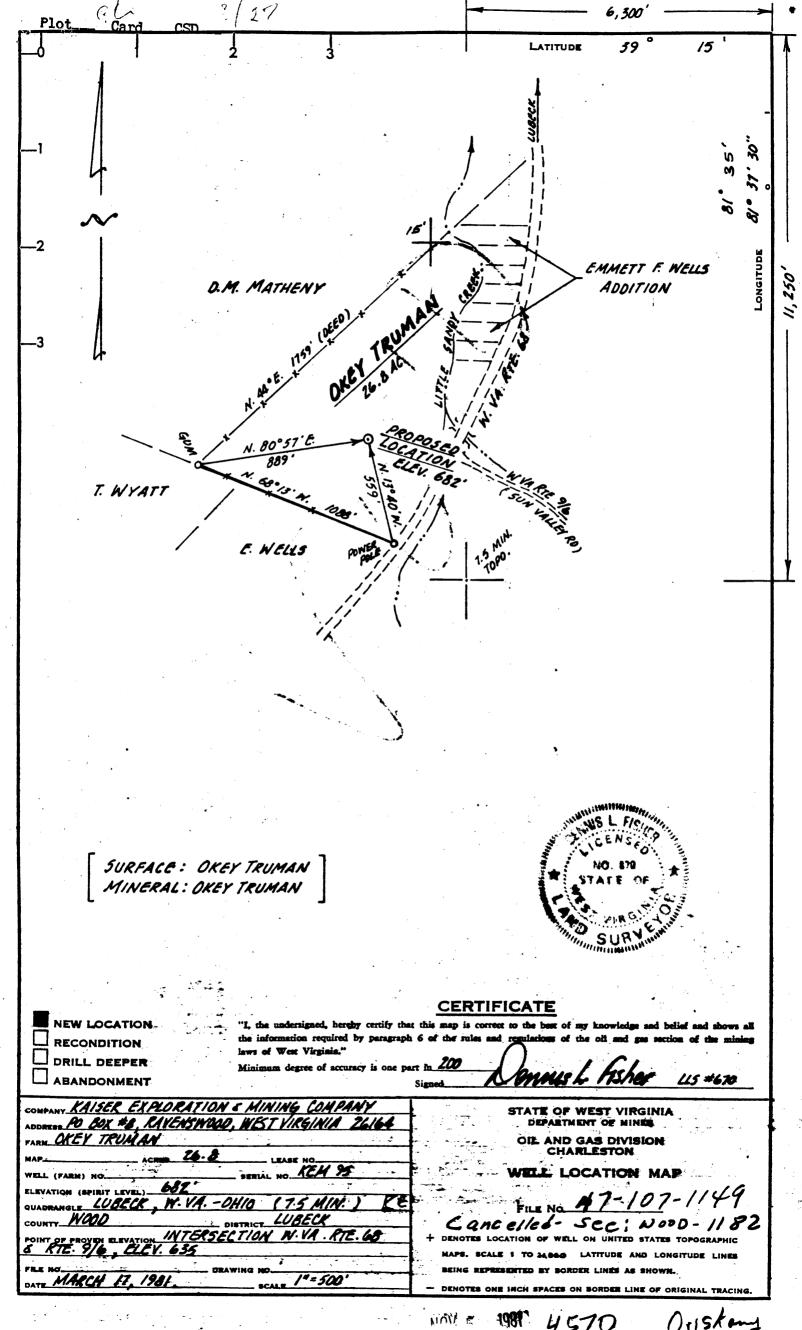
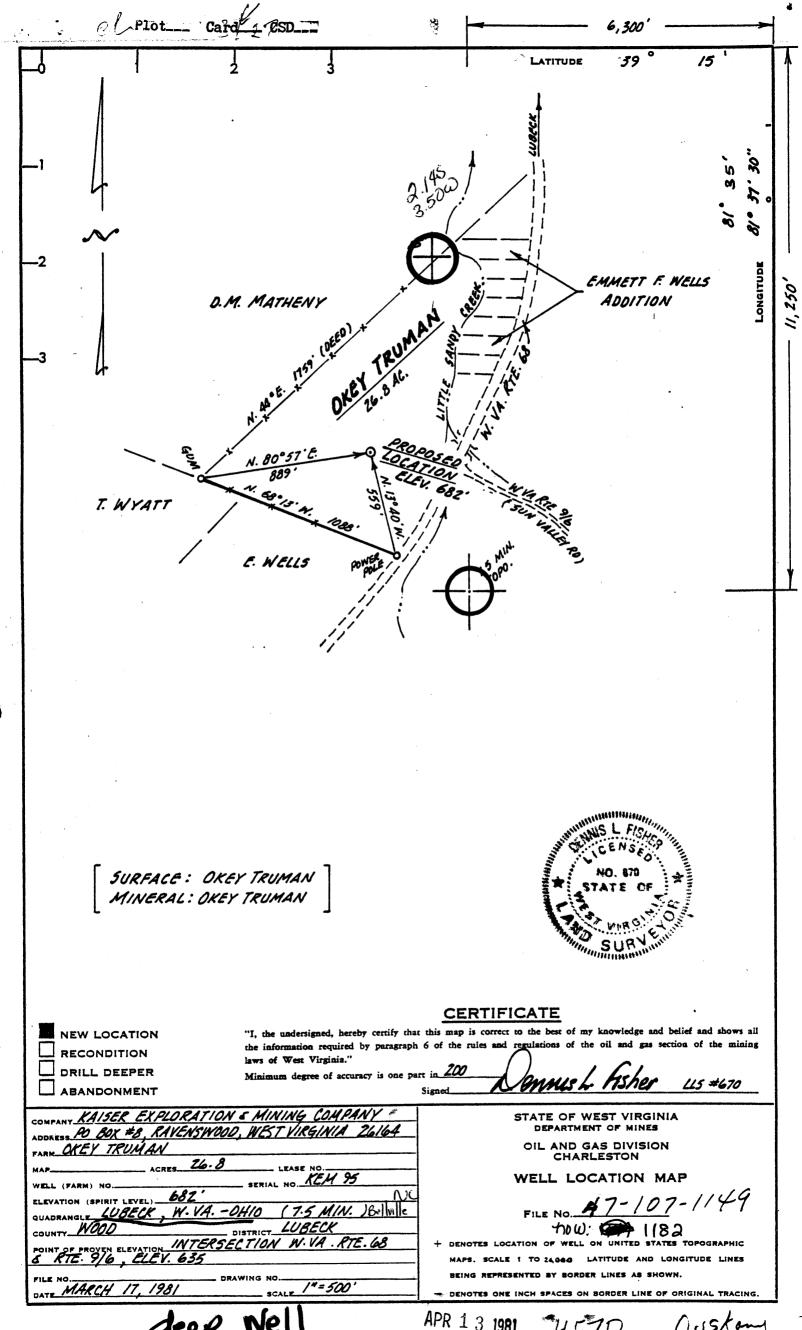


P WELL 6-6 Washington Bottom 1357







IV-35 (Rev 8-81)

# State of West Wirginia

Department of Alines. Wil und Was Division

Date_			1983			
Opera	tor's	3				
Well	No	KEN	1 # 95			
Farm	0key	Trun	ian			
APT N	b. 47	7 _	107	_	1182	

### WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injecti (If "Gas," Production x / Undergr	ion/Wast round Storag	te Disposa ge/ Deep	l/ p/ Sha	11ow_x_/)
IOCATION: Elevation: 682' Watershed	Little Sand	ly Creek		•
District: Lubeck County W	ood	_Quadrangle	<u>Lubeck</u>	
COMPANY Kaiser Exploration and Mining Company				
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Carian	Used in	7.64	Cement
DESIGNATED AGENT R. A. Pryce	Casing			fill up
ADDRESS P. O. Box 8, Ravenswood, WV 26164	Tubing	Drilling	In well	Cu. ft.
SURFACE CWNER Okey Truman	Size 20-16 Cond.			
ADDRESS Rt. 1, Box 4, Mineral Wells, WV	13-10"	265'(KB)	265'(KB)	150 sks clas
MINERAL RIGHIS OWNER Same	9 5/8			
ADDRESS	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Paul	7	1940"/ VD)		p5 sks pozni 100 sks Clas
Goodnight ADDRESS Smithville, WV 26175	5 1/2	1049 (ND)	1049 (NB.)	LUU SKS LIA
PERMIT ISSUED 10/21/81	4 1/2	4384'(KB)	4384'(KB)	225 sks poz
DRILLING COMMENCED 11/10/81	3	133. (137	(110)	
DRILLING COMPLETED 11/16/81	2			
IF APPLICABLE: PLUGGING OF DRY FICLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN	Liners used			
GEOLOGICAL TARGET FORMATION Oriskany Sandsto				feet
Depth of completed well 4397' feet	<u> </u>		e Tools_	
Water strata depth: Freshfeet;				•
Coal seam depths:	_ Is coal	being min	ed in the	area?
OPEN FLOW DATA				
Producing formation Oriskany Sandstone	e Pa	y zone dep	th 4317-43	22 feet
Gas: Initial open flow Trace Mcf/d	Oil: In	itial open	f164328-43	35 Bb1/d
Final open flow N/A* Mcf/d	Fi	nal open f	low	Bb1/d
Time of open flow between in	itial and f	inal tests	ho	urs
Static rock pressure 325 psig(surfa	ace measure	ment) after	r 24 hou	rs shut in
Static rock pressure 325 psig(surface) (If applicable due to multiple completion	on) Note:	Oriskany (	ineconomic cessive sa	al to produc It water
back: Second producing formation Brown Shale	Pa	y zone dep	th 3537	feet
Gas: Initial open flow Mcf/d	Oil: In	itial open	flow	Bb1/d
Final open flow 170 Mcf/d	Oil: Fi	nal open f	low MAY-	9 1984p1/d
· Time of open flow between in			1 20.00	•
Static rock pressure off psig(surfa	ce measurem	ent) after	1 Ma hou	rs shut in

4/23/83:

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

Perforated Oriskany with 3 5/8" hollow carrier gun; 4317'-4322' and 4328'-4335' total 48 ceramic jet charges (McCullough). 11/19/81:

Hydrofractured Oriskany with 15000# 80/100 sand, 45,000# 20/40 sand, 331,000 11/20/81: SCF of nitrogen, 730 bbl water at 36 BPM and 2450 psig. Formation breakdown

at 2000 psig. Shut in at 1200 psig.

Basin Surveys set permanent bridge plug in 4 1/2" casing at 3682' (KB); perforated Brown Shale at 3537-3641' (KB); 15 holes; .39" diameter. B.J. Hughes foam fractured Brown Shale with 500 gal of 15% HCL acid, 60,000# 20/40 sand, 298 bbl water, and 797,000 SCF of nitrogen, 3400 psig average 4/14/82:

treating pressure.

#### WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEE	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand Shale Sand Shale & Siltstone Sand Shale & Siltstone Sand Shale & Siltstone Sand Shale & Siltstone Salt Sand Shale Coffee Shale (Sunbury) Berea Sand Shale Brown Shale Brown Shale Shale Onondaga Lime Oriskany Sand Helderberg Lime Total Depth	0 326 406 420 854 877 950 998 1137 1216 1486 1607 1927 1954 1956 3104 3642 3986 4216 4297 4360 4397	326 406 420 854 877 950 998 1137 1216 1486 1607 1927 1954 1956 3104 3642 3986 4216 4297 4360 4397	Gas show at 1954' Gas show at 3012' Gas show at 3592, 3619' Gas show at 3882' Gas show at 4035',4119',4182' Gas show at 4220',4250',4235' Gas show at 4308',4317',4330' Gas show at 4378'
			1581

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY Well Operator	
Ву:	
Date: May 16, 1983	

Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including





## Oil and Gas Division

CIL & GAS DIVISION DEPT. OF M

# OIL AND GAS WELL PERMIT APPLICATION

Charles	RTMENT OF MI ton, W. Va.	<u></u>	, DATE	March 23	3. 1981	•
face Owner_0	key Truman		· · · · · · · · · · · · · · · · · · ·	•		and Mining Compan
race Owner		Mineral Wells	e alaman di e		ox 8, Ravensy	
	ame					
2	ame		•	Okey Trumar		_Acres _ 26.8
<u></u>			Locati	•		
. • • • • • • • • • • • • • • • • • • •	ame					Elevation 682
11 C. 22	ame		Distric	<u>Lubeck</u>		County Kanawha
d Operator N	one		Quadr	angle Lubeck	. 0-WV (1	WOOD COUNTY)
iress N	one	• •	· ·			· ·
DEBAUT ANIST	BE POSTED AT T	THE WELL SITE				
rovinons, being	in accordance with	th Chapter 22,				
a W. Va. Cod	e, the location is us	Marki A. Adams	INSPECTO	R		
drilling	. This perm	it shall expire it	TO BE NO	TIFIED MAY	<del>EXXXXXXXXXX</del>	PAUL GOODNIGH
alians have not	commenced by 12-	1-81	ADDDDCC	WY V VW V WE Y V	WWW.VVWW.VVYV	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	4	• •	ADDRESS	<del>XXXXXXXXXX</del>		**************************************
120	Jungey Division	n	PHONE X	<b>WANGOW</b> XXX	477–3660	
Deputy Director	- Oil & Gar Division					
TLEMEN:	V					
he undersigned	i well operator is	entitled to drill	upon the above na	med farm or tr	act of land for	oil and gas having fee
						on and san, naving let
thereto, (or a	s the case may b	ser Explorat	r lease dated De	cember 19	19 <mark>80</mark> 1	oy Okev & Bessie
man	the case may be Kall made to	<b>se) under grant</b> Ser Explorat lining Company	r lease dated De on and	cember 19	1980 1 the 16th	oy Okev & Bessie  day of January
thereto, (or a man _, inKana	the case may be Kall made to	<b>se) under grant</b> Ser Explorat lining Company	r lease dated De lon and and 749 Page	cember 19	1980 1 the 16th	Okey & Bessie  day of January
_ in _ Kana	the case may be Kai made to	ser Exproration Ser Exproration Company Sounty, Book	r lease dated De ion and a v an	cember 19 d recorded on 589	1980 1 the 16th	oy Okev & Bessie  day of January
L, in <u>Kana</u> ———NEW	the case may be made to Mai wha Co	Ser Exproration Ser Exproration Company County, Book DRILL DEEP	r lease dated De lon and Page 749 Page	cember 19 d recorded on 589	1980 the 16th	Okey & Bessie  day of January  LE OR STIMULATE
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in Kana	made to	Ser Exploration Ser Exploration of Company Company County, Book	r lease dated De lon and Page 749 Page ER RORILLED BEFORI	cember 19 d recorded on 589 EDRILL JUNE 5, 196	1980 1 the 16th  FRACTURE	day of January  LE OR STIMULATE
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n Kanal  NEW  OIL  he enclosed placed placed points been notified	made to	Ser Exploration Ser Exploration Ser Exploration Ser Exploration County, Book	r lease dated De lon and TA9 Page ER RORILLED BEFORE	cember 19 d recorded on 589 EDRILL JUNE 5, 196 land surveyor	1980 1 the 16th  FRACTURE  9.  and all coal ow	day of January  LE OR STIMULATE  mers and/or operators
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he enclosed place notified he above name take by Section opies of this most owners at a day with the ASE SUBMIT PHYSICAL LOT VIRGINIA NOMIC SURVID. BOX 879	made to	Ser Exploration County, Book	Page  749 Page  ER R  ORILLED BEFORE  Ingineer or licensed  Thereby notified the by, or filed with the sailed by registered the by the Department of the Dep	d recorded on  589  EDRILL  JUNE 5, 196  land surveyor  lat any objection the Department mail, or delive day of Mines at Cha	the 16th  FRACTUF  39.  and all coal ow  of Mines within  red to the above  rleston, West Vir  Well Operator  ploration and  8	day of January  de OR STIMULATE  mers and/or operators  make, or are required ten (10) days. *  named coal operators before, or on the rginia.
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\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of ice 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 such 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.

CHUC LANK DURE

47-107-1149 now 1182

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

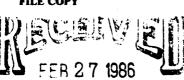
PROPOSED WORK ORDER TO	XDRILL	DEEPEN	FRACTURE-STIMULATE
DRILLING CONTRACTOR: (II	•	RESPONSIBLE AGE	NT:
NAME Clint Hurt & Associ		NAME Robert A.	Prvce ·
ADDRESS P. O. Box 388, El	kview. WV 2507]	ADDRESS P. O. E	Box 8, Ravenswood, WV 26164
TELEPHONE 273-5371		TELEPHONE273-	-5371
ESTIMATED DEPTH OF COMPL	ETED WELL: 4570'	ROTARY X	_ CABLE TOOLS
PROPOSED GEOLOGICAL FORM	•		
TYPE OF WELL: OIL_	GAS X	COMB STORA	GE DISPOSAL
	RECYCL	ING WATER F	LOODOTHER
TENTATIVE CASING PROGRAM	± I: 		
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	•		
9 - 5/8 10 3/4"	250!	250'	150 sks class A(to surfac
8 - 5/8		·	
7	1900'	1900'	50 sks 50/50 pozmix :
5 1/3			100 sks class A
4 1/2	4570'	4570'	225 sks class A 💆
3			Perf. Top
Liners			Perf. Bottom
A			Perf. Top
			Perf. Bottom
OF TEAT.  TO DRILL DEEPER OR REDRILI SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	OF OG - 1, \$100.00 PERMINED OF OG - 1, SHOWING ORIGINALLY DRILLED BEFORMAN ORIGINAL WELL REGINALLY DRILLED ON AN IBER, AND PERFORMANCE	INAL PERMIT NUMBER A OPY OF THE PLAT AND REJUNE 5, 1929, FIVE (5 ORD. ND/OR AFTER JUNE 5, 19 BOND.	BOND AND PERMANENT COPY  AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  229, FIVE COPIES OG - 1, SHOW-  Linspector to be notified twenty-
WAIVER: I the undersigned, Agent this lease have examined We the	I for Coal Company l	Coal Company, Own	e issued within ten days of receipt 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

FORM WW-2(B) FILE COPY

7/85

(Obverse)





1)	Date: Ja	nuary	31		19_86
2)	Operator's	VEM	#0E	T	

KEM #95, Truman Well No. 3) API Well No.

107 State County

#### STATE OF WEST VIRGINIA

#### DIVISION OF OILDERARSMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGAPPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A O	il	/ Ga	s <u>X</u>						
	B (1	f " <b>Ga</b> s", I			_X		storage		_/ Shallow _	<u> </u>
5) LOCATIO	N: Ele	vation: _	682•		/A	Watershed: _	<u>Little San</u>	iy Creek		
	Dis	trict:	<u>ubeck</u>	\rati	nass.	County:	Wood	Quadrangle:	Lubeck	
6) WELL OP	ERATOR_	Waya.	Wabay	j' Col	hpangde	: 25550	7) DESIGNATED	AGENT R. A.	Pryce	
Address	s	P. O.	BOX 8				Address	Same		
	-		swood,		26164					
-,	S INSPEC			FIED			9) DRILLING CO	ONTRACTOR:		
	Glen Ro						Name			
Addres		ral We			ent Est 26150	ates	Address	*		
					-					
10) PROPOSE	ED WELL	WORK:			_/ Drill			/ Stimulate	/	
							rate new formation	/ nd Produce Co	mminalad.	. / -   7 -
11) GEOLOG	ICAT TAD	CET EOD		1 4		SHALE		ia Produce Co	umurngrea v	Vsnale_
12) Estim					#368					
12) Estini 13) Appro	•	' <del>-</del> '		N/A			t. N/A	feet.		
13) Appro 14) Appro		-			<b>′</b> A			e area? Yes	/ No_)	!
15) CASING		•						-		/
CASING OR	li		IFICATION!	•	Ħ	FOOTAGE	INTERVALS _	I CEMENT FILLUP	PACKE	RS
TUBING TYPE	Star	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	1	<u> </u>	par 111	146.11			Tarria wen	i i i i i i i i i i i i i i i i i i i	Kinds	
Fresh water	10 3/4	H-40	32.7	X		265	265	150 sks cla	<del> </del>	
Coal							1	100 383 010	Sizes	
Intermediate	7"	K-55	20	X		1849	1849	165 sks		
Production	4 1/2	N-80	11.6	X		4385	4385	225 sks poz	-Depths set	
Tubing	2 3/8	1	4.7	X		3629		225 sks poz	H	
Liners								TECO SKS POE	Perforations:	
								Oriskany	тор 4317	Bottom 433
								Brown Sh.	3537	364
						FFICE USE				
•					D	RILLING PI	ERMIT			
Permit number	4'	7-107	-1182	-Fra	ıc	,		Ms	arch 20.	19 86
r crime namoe:							,	Da		
This permit cov	ering the w	ell operato	or and wel	locati	on shown b	elow is evidence	of permission grant	ed to drill in accordar	ice with the perti	nent legal re-
quirements subj	ect to the c	onditions (	contained	herein :	and on the r	reverse hereof No	tification must be gi	ven to the District Oil	and Gas Inspect	or. (Refer to
io. 8) Prior to ti	ne construct	tion of ros	ds. locatio	ns and	pits for any	permitted work rk has commend	in addition, the w	ell operator or his cor	itractor shall not	fy the proper
										, , ,
i ne permittea v reverse hereof.	VOTE IS AS O	escribed in	the Notic	e and /	application,	piat, and recian	nation plan, subject	o any modifications a	ina conditions sp	ecified on the
Permit expires	Ma	arch ?	20, 1	988		uniess we	ll work is commenced	prior to that date and	prosecuted with	due diligence
vepievo ,								. h	Annual and a second	
		T_			T_					
Bond:	Agent	:   F	lat:	Casi	_	ee WPCP	S&E	Other	• • • • • • • • • • • • • • • • • • • •	
	MI	<sup>3</sup>   A	10L	M	> 969	9339 TAN	KIAH			<u> </u>
£	· · · · · · · · · · · · · · · · · · ·						۸ .			ن بر
						$\bigcirc$	hatt. The	aston by m	arganet	J. Wax
NOTE: Keep	one copy of	this perm	it posted	at the c	Irilling locat	ion.	irector. Div	vision of Oil	and Gas	

See the reverse side of the APPLICAN'R'S COPY for instructions to the well operator.



### **DEPARTMENT OF MINES**

# RECEIVED

OCT 13 1981

## Oil and Gas Division

OIL AND GAS DIVISION

### OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.		DATE October 8,	1981	•
Surface Owner Okey Truman	•	Company Kaiser Explo	ration and Mining	Company
Address Rt. 1. Box 4. Mineral Wells.	WV	Address P. O. Box 8	-	26164
Mineral Owner Same		Farm Okey Truman	Acres	26.8
Address				
Coal Owner Same			•	682"
Address		District_Lubeck	County_	
	•	· Quadrangle Lubeck, (		11000
	•	Quadrangie Lyscony		
Address IHIS PERMIT MUST BE POSTED AT THE W All provisions being in accordance with Cha of the W. Va. Code, the location is hereby a fordrilling This permit shall a	pproved IN	SPECTOR BE NOTIFIED <u>Paul</u>	Goodnight Deo M	lace_
Tellimenced by 6-21-82	2	DRESS <u>Smithville,</u> b	V 26178	
Deputy Director - Oil Cas Division	PH	one <u>4<del>77-2455·</del> 6.5</u> 5	-8693	•
GENTLEMEN:				
itle thereto, (or as the case may be) under gra Kaiser Explor Truman made to Mining Com 981, in Kanawha County, Book	1pany 749	and recorded on the	l6thday of	<u>January</u>
X NEW WELLDRILL D	EEPER	REDRILL	FRACTURE OR ST	IMULATE
OIL AND GAS WELL ORIGINAL				
The enclosed plat was prepared by a register clave been notified as of the above date.  The above named coal owners and/or operator of make by Section 3 of the Code, must be receive and the enclosed plat we coal owners at their above shown respective ame day with the mailing or delivery of this cop	r are hereby no ived by, or file ere mailed by re address	otified that any objection to d with the Department of egistered mail, or delivered	mey wish to make, or a Mines within ten (10) of to the above named cos	re required days.
	v	ery truly yours,		•
LEASE SUBMIT COPIES OF ALL SEOPHYSICAL LOGS DIRECTLY TO:		ign Name) A	Operator	
TEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY  O. BOX 879  ORGANTOWN, WEST VIRGINIA 26505  OC-304 - 292-6331	Address of Well Operato	Kaiser Expl P. O. Box 8 Ravenswood Cny on	oration and Minin	g Company
		West Virgin	ria 26164 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 he 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 LANKET BOND

47-107-1182

PERMIT NUMBER

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN	_ FRACTURE-STIMULATE
DRILLING CONTRACTOR: (If I			ENT:
IAME Unknown at this tim			Pryce
DDRESS CANDIC		ADDRESS P. O.	Box 8. Ravenswood, WV 26164
ELEPHONE		TELEPHONE 273-	5371
STIMATED DEPTH OF COMPLE	ETED WELL: 4570'	ROTARY_X	CABLE TOOLS
ROPOSED GEOLOGICAL FORM	ATION: Oriskany	•	
YPE OF WELL: OIL	GAS X	COMB STOR	AGE DISPOSAL
	ILECT CE	WATER I	FLOOD OTHER
ENTATIVE CASING PROGRAM:	• !		
			•
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP
SIZE	DRILLING	WELL	OR SACKS - CUBIC 1-7.
0 - 16			
3 - 10			
- 5/8 10 3/4"	250' .	250'	: 150 sks class A (to surfa
- 5/8			
	1900'	1900'	65 sks 50/50 pozmix
У.	4570'	AL-701	(100 sks class A
У.	40/0	4570'	225 sks class A or into 7"
			Perf. Top
iners			Perf. Bottom
1.171.5			Perf. Top
			Perf. Bottom
MUST ALSO BE SUBMITTED. FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORIGINAL PLAT A	F OG - 1, SHOWING ORIGI 1929, A PERMANENT CO GINALLY DRILLED BEFOR ND ORIGINAL WELL REC	RE JUNE 5, 1929, FIVE (5 XXRD.	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD  5) COPIES OG - 1, PERFORMANCE  929, FIVE COPIES OG - 1, SHOW-
Required forms must be filed w four (24) hours in advance.	within ninety (90) days of c	completion for bond releas	e. Inspector to be notified twenty-
			The same of the sa
			•
•	4		
			be issued within ten days of receipt
this lease have examined	and place on our mine ma	ps this proposed well loc	
We the			
providing operator has con Code.	Coal Company h	nave no objections to said	well being drilled at this location, d 7, Chapter 22 of the West Virginia

Official Title