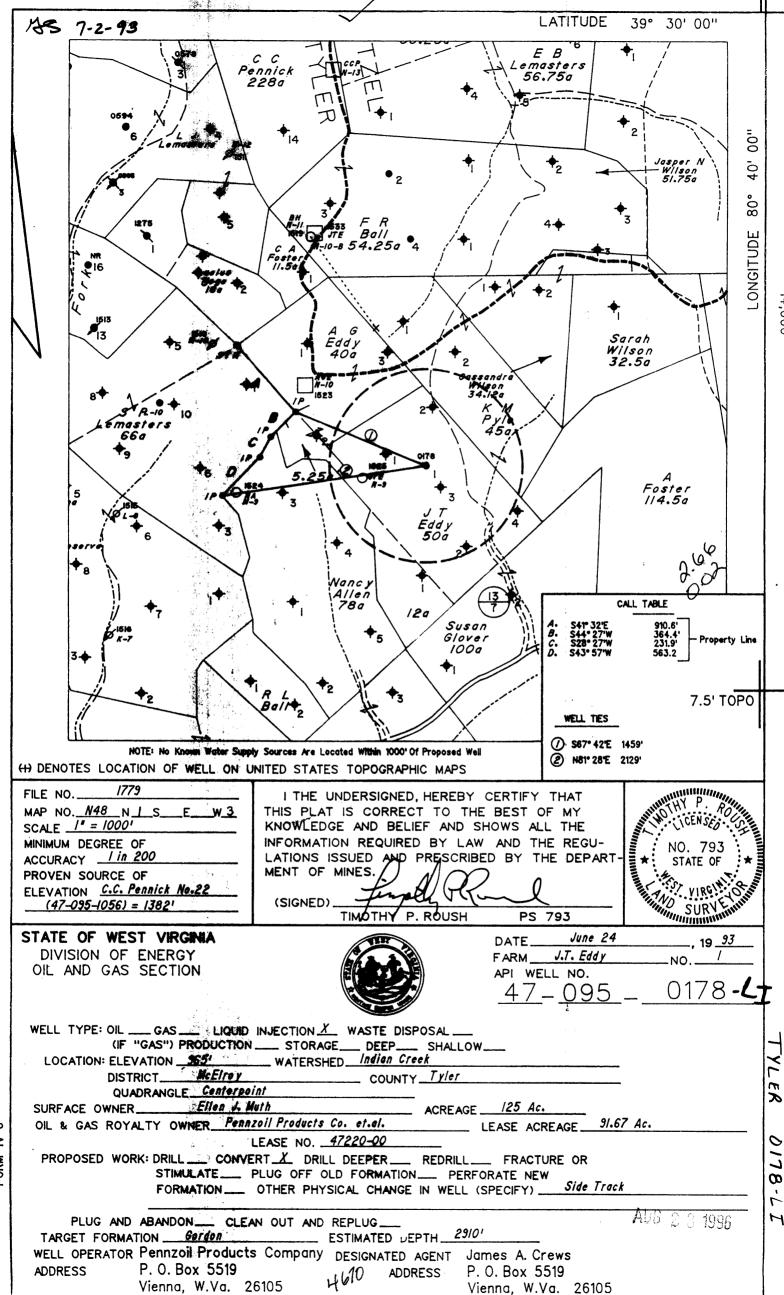


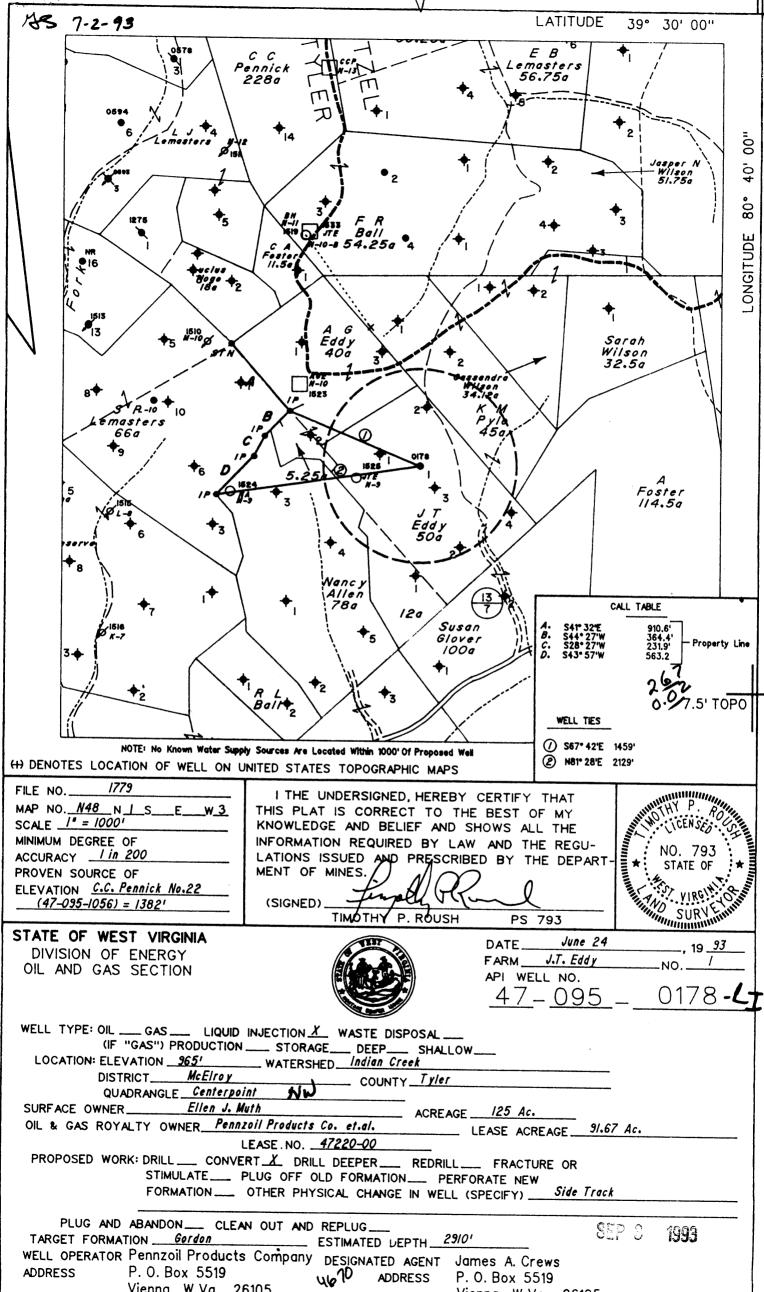
Vienna, W.Va.

26105

Vienna, W.Va. 26105



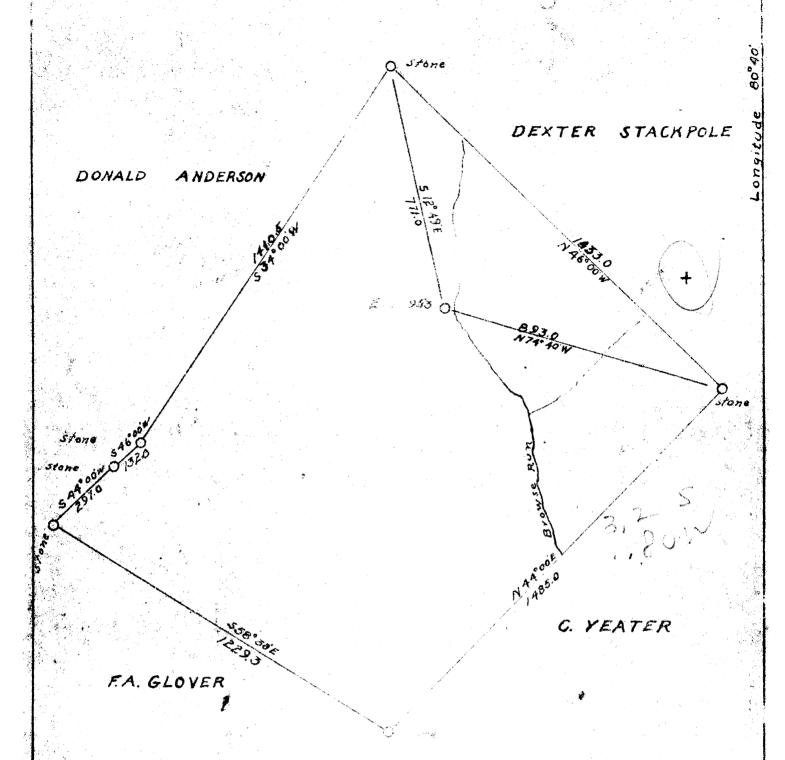




Vienna, W.Va. 26105

Vienna, W.Va. 26105

Latitude 3 4 30



New	Location	. X	
Drill	Deeper		
	4		

Company GEORGE KERNS

Address ONLE WYA

Form SITE ALV HES

Tract One Acres 50 Lease No.

Wall (Farm) No. Chr. Sevial No.

Elevation (Spirit Level) 263

Quadrangle Gentex Point

County Tylex District Markey

Engineer 54 MeInties

Engineer's Registration No. 1187

The No.

Date No. 12-10-10 Suste 1"- 300

STATE OF WEST VIRGINIA.

DEPARTMENT OF MINES

CIL AND GAS DIVISION

CHARLESTON

WELL LOCATION MAP

+ Danotes location of well on United States
Topographic Mans scale 7 to 62,500. /allives and longitude lines brong represented
by but or lines as shown.

- Dinotes one men si, as on border line of segund fracing

State of West Virginia DEFARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

rarm name:	MUTH, ELLEN J.		Operator	Well No.:	J. T. EDDY	#1
LOCATION:	Elevation:	965 Quadi	rauaje: C	ENTERPOINT		
	Latitude:	MCELROY 100' South of 14,000' West of	:30	Dunty: TYLE Des. 30 m Des. 40 m	in.	
	NNZOIL FRODUC O. BOX 5519 ENNA, WV 2610	5-5519	&	 I Used in I	i	Fill Up
Asent: JA	MES A. CREWS			Drilling		
Permit Iss	Mike Underwood ued: 9/1/93 Commenced: _	9/2/93	Size (See	 original wel	l record)	
Well work Verbal Plu Fermission	Completed: _ gging granted on:_	12/16/94	 	 	 	! ! !
Total Dest Fresh wate	- Caule h (feet)2 <u>9</u> r depths (ft)	Rig 11'	, 	! 	 	
				l _l 2903		l l 25 sks.
Is coal be Coal Depth	ing mined in s (ft): N/A	area (Y/N)?N	1	1		1 i
		Water Injection We				
Gas:	Initial open Final open fl Time of open	flow *MCF/ ow _ *MCF/ flow between in	/d Oil: In /d F: nitial and	nitial open inal open f d final tes	flow <u>*</u> low* ts	Bb1/d Bb1/d Hours
Secon Gas:	d producins f Initial open	ormationMCF/	/d Oil: I	_ Pay zone nitial open	derth (ft flow)Bbl/d
	Time of open	flow between in Trepsi	nitial and	d final tes	ts	Hours
INTERVALS, LOG WHICH	FRACTURING IS A SYSTEM	FORM PUT THE OR STIMULATING: ATIC DETAILED RED BY THE WELL	, FHYSIC GEOLOGIC BORE.	AL CHANGE, AL RECORD	ETC, 2), OF ALL FO	THE WELL RMATIONS,
		For: PENNZOZI By:	PRODUCT	S COMPANY		

TREATMENT

Perforated with 16 holes 2864'-2868'. Treated with 300 gallons HCL acid, 238 barrels gelled water and 7,000 lbs. of 20/40/sand.

WELL LOG

(See original well record).

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLRECORD

Permit No. Tyl 178		Oil Well
Centerpoint Quad.		CASING & TUBING
Company	George R. Kerns	
Address	Dale, W.Va.	10 28 0 280
Farm	J.T. Eddy Hrs. A 50	8 1 1185 1185
Location	Indian Creek	6 5/8 228 0 2280
Well No.	1 Elev. 9533	
District	McElroy Tyler County	
Surface	Donald Anderson, Dale, W.Va.	
Mineral Commenced	J.T. Eddy Hrs., Marysville, Oh	110
Completed	Aug. 3,1950 Oct. 14 1950	
Date shot	Oct. 14,1950 Oct. 21 Depth 2844 to 2851	
200 0 0110 V	with 50 qts.	
Open flow	60/10ths W in 1/2"	
0il	8 bbls. 1st 24 hrs.	
Fresh Water	1004	
Salt Water	2105% 1 b. per hr.	
	-	
Conductor Wood	15 Red Rock	S 184 5 1975
Clay Gr	0 15 Med nock Uttle Lime Dk	H 1975 1975
Rock	15 50 Fencil Cave Wh	S 1995 2000
Lime Gr H	50 80 Big Lime Wh	H = 2000 2096
Red Rock S	80 100 Big Injun Wh	H 2096 2270
Sand Wh S	100 125 Slate Lime Dk	H 2270 2405
Red Rock S	125 160 Sand Sand	H 2405 2448
Slate Wh	160 185 Slate Dk	S 2448 2451
Lime Shells H	185 235 Lime Dk	H 2451 2490
Red Rock S	235 275 Sand Dk	Н 2490 2505В
Lime Wh S	275 310 Lime Shells Wh	H 2505 2635
Slate Wh S	310 375 Slate Dk	H 2635 2674
Red Rock S	375 385 Slate Wh	H 2674 2715
Sand Wh S	385 410 Pink Rock	S 2715 2755
Slate Dk S	410 415 Stray Sand Lime	
Lime Wh H	415 440 Slate Dk	S 2785 2817
Slate Wh H	440 470 Pink Rock	S 2817 2827
RedRRock S	470 480 Lime Dk 480 495 Found Sand Wh	H 2827 2840
Lime Wh H		
Slate Dk S	495 530 First Oil and G	
Lime Wh H	530 635 Lime Sandy Dk	
Slate Wh H	635 665 T ₀ D ₀	2897
Sand Wh H Slate Shells Wh H	665 680 Measuring line	run av 6041.
State Shells wn H Sand Wh H	680 735	
Slate Wh S	735 840 840 855	
Red Rock H	855 865	
Slate Shells Dk H	865 920	
Red Rock H	920 940	-,C
Slate Wh H	920 940 940 965	253
Red Rock S	965 990	Thu 1
Elate	990 1000	I W
Pink Rk S	1000 1035	
Slate Shells Wh S	1035 1080	
Pink Rock S	1080 1090	
Slate Dk S	1190 1260	
Sl. & Shells Wh S	1260 1280	
Red Rock S	1280 1285	
Sl. and Shell Wh H	1285 1400	·
Lime Wh H	1400 1415 1415 1465	
Slate Dk S	1415 1465 1465 1540	
Sand What H	1465 1540 1540 1565	
Slate Wh H	1540 1565 1565 1575	
Sand Wh H	1575 1600	
Slate Dk S	1600 1610	
Sand Wh H	1610 1680	
Slate Dk S	1680 1 7 50	
Sand Wh H	1750 1 83.0	•
Slate Shelly Wh S	1810 1845	

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FORM WW-3(B)	(elm	COPY COPY	COPY	Ì		ECEIVED e of Oil & Gas	1) Date		7/23/96	
Obverse				Ü	IC Section	2) Well No.		J.T. Eddy No.1		
10/91				1	.101	2 9 1996	3) SIC Cod 4) API Wel		7 - 095	0170
					301	- 4 9 1990	4) AFI We	Sta		- 0178 - Permit
				l	w	V Division of	5) UIC Cod			, I di init
				TAT	Environ E OF	mental Protection WEST VIRGIN				08/22/9C
•	OF LIQU	ID INJE	CTION	or w		DISPOSAL W	ELL WORK	PERMIT.		
224	for the DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS									
WELL TYP	E:	Liquid	l Injection	X		Gas Injection			Waste Disposal	1
LOCATION	:	Elevation	965		10	Wat	ershed I	ndian Creek		72
	District		McElroy		'S o	ounty Tyler				Centerpoint
WELL OPE	RATOR:	Pennzoil	Products	Compa	nv46	70 9) DE	SIGNATED AG	ENT	Philip S. Ondr	
		P.O. Box			<u>-</u> y · ·	- 0,52	CIGNALED AC		P.O. Box 55	
		Vienna, V	VV 26105						Vienna, WV 2	
10) OIL & GAS	INSPECTO	OR TO BE	NOTIFIE	D:		11) D	RILLING CON	TRACTOR:		
		Mike Un					;	Name		
	Address	Route 2,				- 17.18 .	Ad	ldress		
		Salem, W	V 26426					· · · · · · · · · · · · · · · · · · ·		
12) PROPOSEI	WELL WO	ORK:	Drill			Drill Deeper		Redrill	Stimulate	
				_	ld Forn	nation ge in Well (specify)	Perforate New	Formation		Convert
13) Geological t	arget forms	ation		Gordo		419 Dept		Ft. (T	op) t2870) Ft. (Bottom)
14) Estimated d	epth of con	pleted we	ll (or actu	al dept	h of exi	sting well)		2911	Ft.	
15) Approximat	e water str	ata depthe	:	Fresh		NA	Ft.		Salt	NA Ft.
16) Approximat	e coal seam	depths:				NA	- Ft.			
17) Is coal being	mined in t	he area?				Yes	X N	ī _o		
18) Virgin reser			st formatic			•				5
	•			т.		1400		•	urce	Estimated
	Estimated reservoir fracture pressure:					3500	p	eig.		
20) Maximum p	Maximum proposed injection operations: Volume per hour 25 bbl. Bottom Hole Pressure 2332 psig.						2332 psig.			
	Detailed indentification of materials to be injected, including additives: Fresh water, produced water, bactericides and other chemicals as needed to maintain water quality and improve oil recovery.									
22) Filters (if an	ıy):	Cartridge	filters ar	d∕or ∞	al bed f	ilters				
23) Specification	ns for catho	dic protec	tion and o	ther co	rrosion	control:				
24) CASING AN	ID TUBING	G PROGR	 AM:							
CASING OR	İ	SPECI	FICATION	īS			NTERVALS	CE	MENT FILLUP	PACKERS
TUBING TYPE	Size	Grade	Weight	New	Used	For Drilling	Left in Wel	11	OR SACKS	
Conductor	-	<u> </u>								Kinds
Fresh Water Coal	-									
Intermediate	6 5/8"				 	2270	2270	- 13	ing Casing	Sizes
Production	3 1/2"	J-55	9.2#	х	 	2903	2903		ing Casing	Depths Set
Tubing	 	1			 	2000	2503	I I I I I I I I I I I I I I I I I I I	rne Casink	Debring Der

Hazel L. Kinney et al.

Dated

Deed

August 16, 1978

Book 216

Perforations Top Bottom

of record in the

725

at Page

Liners

by Deed Lease X Other Contract

Tyler County Clerk's Office in

25) APPLICANTS OPERATING RIGHTS were acquired from

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verse)	177 20 20 20 20 20 20 20 20 20 20 20 20 20				19630
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		ATE OF WEST	re		
Permit number <u>47-095-0</u>					19
This permit covering the well op quirements subject to the condition	perator and well location sh	own below is evidence of peri	mission granted to dril	in accordance with	the pertinent lega
No. 8) Prior to the construction district oil and gas inspector 24	of roads, locations and pits	for any permitted work. In a	ddition, the well operat	or or his contractor	shall notify the pr
The permitted work is as describe conditions specified below.					any modifications
Permit expires	-22-98		is commenced prior to	that date and process	AND THE STATE OF T
	NORDE -		is commenced prior to	inat vate and prosect	teu wiin cue dinge
Bond: Agenty	Plat: Casing	Fee		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	neit Getre
	mind for white he	CLE		and the state of t	ad CLA
		0301420926	the A. Ith	M+/	
The second secon			- VIVI OX DAG	(year your	/ }
NOTE: Keep one copy of this	permit posted at the drillin	g location.	IEF, OFFICE OF	OIL AND GAS	
	in de la companya de La companya de la co				
PER	MIT MODIFICATIONS A	ND CONDITIONS (IE ANY)	TO THE BRODGES	WELL WORK	
·		10 CONULLIONS (IF AN I)	IO THE PROPOSEL	WELL WORK	
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necessaries in the contraction of present	Stell teste	Latin was philosoph	in supplied to the constant of	183 19 10 10	
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	Stell teste	Latin Zon opinosi	a sand the control of	183 194 194 195 - San San San Alfr 195 - San San San Alfr 195 - San San San Alfred 195 - San San San San 195 - San San San San 195 - San San 195 - San San 195 - San 195	កំព្មេះ នៃវាស្ថាមនេះ ស្ត្រីនេះនេះសារប្រជុំ ស្ត្រីសារប្រភព្វស្តិ ស្ត្រីស្ត្រីស្ត្រីស្ត្រី
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1) Date Well No. SIC Code

API Well No.

7/23/96 J.T. Eddy No.1

095 State County

0178 Permit

TEOF WEST VIRGINIA NOTICE OF LIQUID INJECT **DISPOSAL WELL WORK PERMIT APPLICATION**

for the DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

) SURFACE OWNE	R(S) OF RECORD TO BE SERVED	7 (i) COAL OPERATOR:
		Name N/A
(i) Name	Ellen & Brent Muth	Address
Address	Rt. #3, Box 465	
	Cynthiana, KY 41031	7 (ii) COAL OWNER WITH DECLARATION ON RECORD:
(ii) Name		Name N/A
Address		Address
(iii) Name		7(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Address		Name N/A
		Address

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

> Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Pennzoil Products Company Well Operator

Its Supervisor, Surveying/Mapping

(304) 422-6565 Telephone