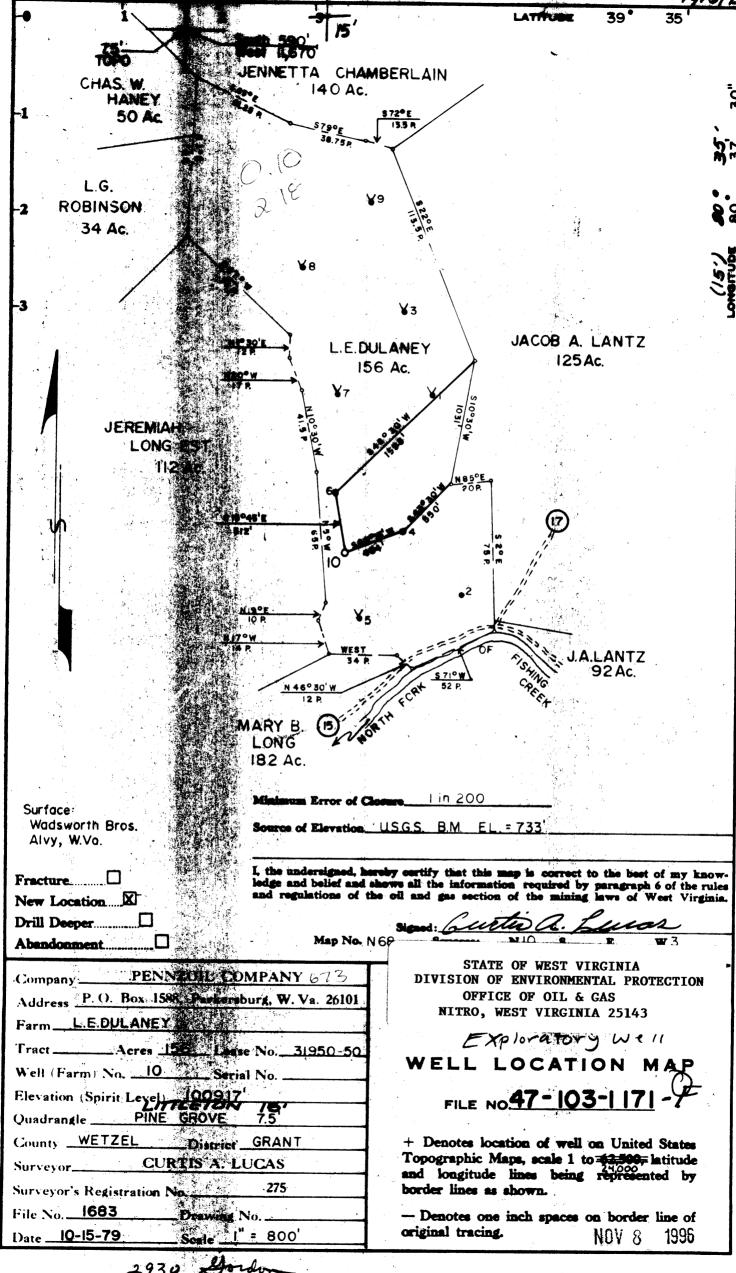
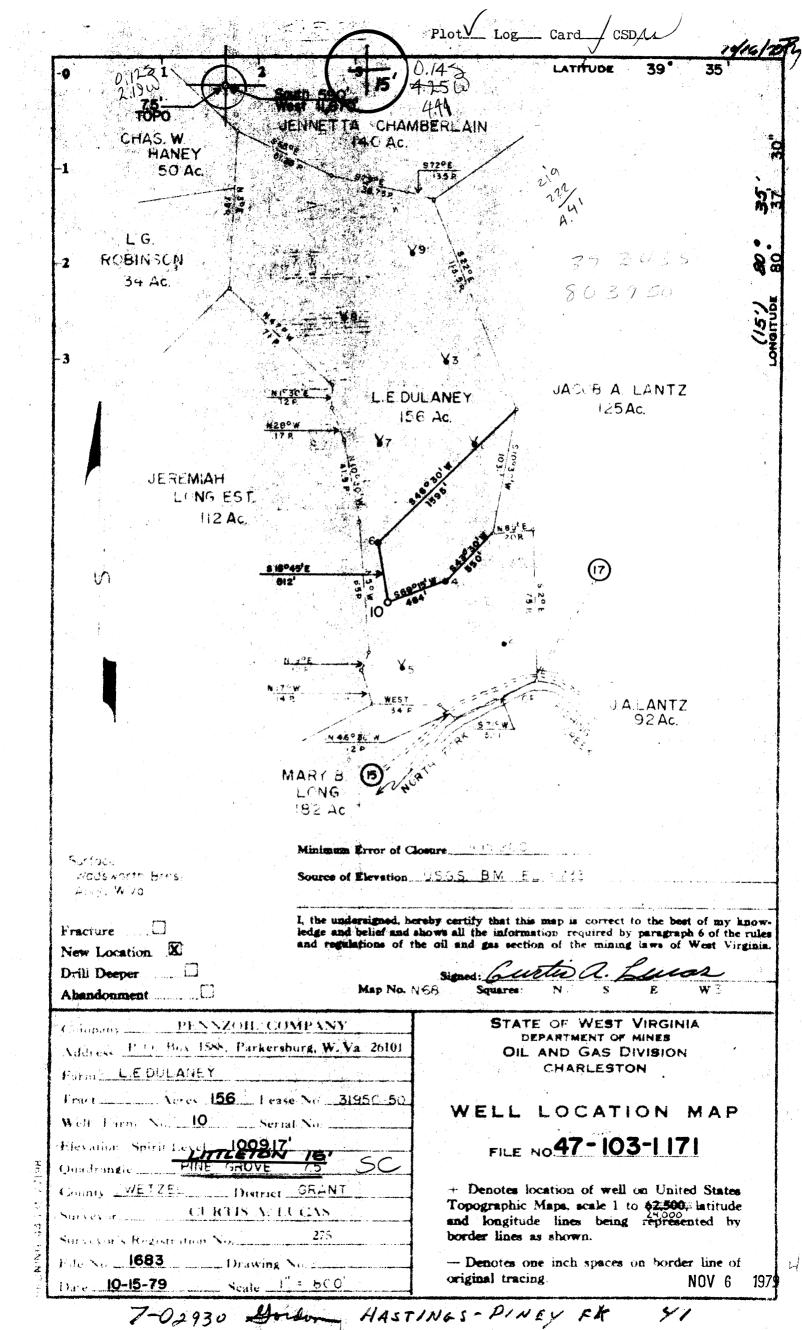


2930 Gordon



2930 Dordo



•	FORM IVLIS (Obvense		•	····	ه. پانساند		Da	ite: Mar	ch 25, 1980
	[08=78]				SIL OPERAT	SR'S GEP∩P⊤.ψ	<	<u>L.</u>	E. Dulaney 1
· ·		<u> </u>		<u> </u>	01 72 310 / 07 (1:		ATT.		47-103-1171
WELL T	YPE: 011_1								tate into
	,	as", Pro	duction	/ bin	uid Injectio	nn	in Discossi		
LOCATIO	N: Elevat	10n: _1	009.17	1	Undergrou	Barker	To Discossi		W ()
	Distri	et: Gr	ant		Courter W	Barker	Run		
WELL OP	ERATOR	Da			sounsy:	crzel	Gun irangle:	Pine Gr	ove 7.5'
. Ada	iress	P					AGENT Mr.		
					Contract of the Contract of th		55 P.		
			CLBDGI	B, WV	26101		Par	kersburg.	IV 26101
PERMITTE	D WERK: Or	111 <u>X</u>	୍ ଓର୍ n v	/e==	_/ Drill d	ene /	Par COLUM		20101
	Pl	ug off o	ld form	nation_	/ Perf	prate new	The state of the s	Pregue or	stimulate
	Ot	her phys:	cal ch	ange in	well (spec		MAR 2 6 19		
						-		000	
PERMIT	SCUED ON	Octob	er 16		79		OIL & GAS DIV	ISION	
CON	TIMUOUS PRO	ightha Ca	DRY H	OLE On		OIL 4 70 E	MENTO FOR	THEN FEEDER:	
REWO	ORKING. VER	BAL PERM	ISSION	RILLING OBTATN	OR ED	Hame	Phil Tracy		1.49
		, 1	9			Addres	s <u>Rt. 23,</u>		
GEDLOGICA	L TARGET FO	RMATION:		Go	rdon		Alma, WV		
Dept	h of comple	ted well	, 29	20	Cash	otany Y	DepthCable Tools	2930	feet
Wate.	r strata de	pth: Fre	sh,	[ee	t; salt	feet.	Cable Tools		
Work	was commend	ed No	ovembe	r 1,	10 79	eing mined in	the area?		
CASING AND	TUBING PRO					and complete	the area?	8	19 79
Carrid on	11 6	DDann							
TUBING TYP	E S126 25	PECIFICATION We1s!	TIONS ht	, 1	FOOTAGE	INTERVALS	CEMENT FILL-		eli es t
Conquetor		est per	it New	Useci	or drilling	Left in well	CEMENT FILL- OR SACKS (Cubic feet		ACKERS
Fresh water				-				ii	
Ccal	8-5/8		+-	+-+				Minds	
Intermediat	e				856	856	360 sks	Sizes	
Production	4-1/2		1					3.263	
Tubing					2918	2918	125 sks	70000	
liners			1-1					Depths set	-
****			++					Poncara	
			1-1					Perforatio	
			+					Top	Bottom
OPEN FLOW DAT			<u></u>	L					
Con	E formation	Explo	ratory	Core	Well				
UAS	· initial	open flor	W,		les/d 01	l: Initial a	A% Aono depth pen flow,		feet
	"inal on	en flow,			lc r/d	Final one	pen flow,	Bb1/d	
	7.7	· · · · · · · · · · · · · · · · · · ·	1 Cleans	****			the state of the s		
[if annia	cahl .	, saure, _		_ psir,	(surface mea	Surement) nr	hours		
Second no	cabir duc :	o multip	le com	pletion]		hour	3 shut in	
arabila pr	Sugarul, ton	mation							
943:	Fina!	woll ned	•	Mc	er/d 011	. Initial on	y zone depth en flow,		feet
	truat Chei	n flaw,		Мс	6/4	71		Bb1/d	er og sær et d
					170	Final open final tests,	flow.	561/d	

[08-78]

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

₩ELL LOG

FORMATION Color	ilard or Soft	4<	Bottom	Remarks
Siltstone & Shale	3011	Top Feet	Peet	including indication of all fre
Sand & Silt	1	0	369	Joan, Sil and
Sand		369	624	
Sand & Silt		624	680	
Pittsburgh Coal		680	790	A Commence of the Commence of
Shale		790	795	
Sand	. 1	795	831	
Silt & Shale		831	893	•
Sand	. •	893	1290	
Shale & Silt		1290	1314	
Sand & Silt		1314	1371	
Shale & Silt		1371	1500	
Sand & Shale		1500	1590	
Silt	1 :	1590	1690	
Sand		1690		
Shale & Silt		1740	1740	
state & Silt		1767	1767	
Little Lime		1930	1930	
Pencil Cave		1	1943	
Big Lime		1943	1956	
oyalhanna Big Injun		1956	2007	
ocono Big Injun		2007	2064	
ocono Shale		2064	2259	
ordon Stray		2259	2822	
hale		2822	2843	
ordon		2843	2853	
hale		2853	2868	
	"	2868	2920	
otal Depth				
		1 :	2920	
		1		
		1.		
		l	1	
		1		
in the state of t			1	

(Attach separate sheets to complete is nedessary:

Well Operator

By Court a Louis

kbox __ Civil Engineering Dept.

NOTE: Regulation 2.02(d) provides as follows:

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

	. ww-8(B)	<u> 41CE</u>		COPY	-		119	1)]	Date		October 7,	1996
Obvers	ie					HIZU!	Olia Gas		Well No.	1	E. Dula	ney No.10
10/91						10 601.1C 3 OKU	Section	-	SIC Code			
						OCT	1 7 1935	4) 4	API Well No	State	108 Count	- 1171 y Perm
					`			5) 1	UIC Code			
					STAT		vision si VEST VIRGI	NTA		lsse	eed 1	1107/96
N	OTICE O	F LIQU	ID INJE				DISPOSAL		ORK PER	MIT APPLI	CATIO	N
							or the					11/07/98
	I	IVISIO	N OF E	VIRON	MEN	TAL P	ROTECTION	L OFFIC	E OF OH	AND GAS	1	11107178
W	VELL TYPE	:	Liquie	d Injection	x		Gas Injecti	on.		Wast	e Disposa	1
L	OCATION:		Elevation	1009.17		(i)	٠.	atershed	North	 Fork of Fishin	-	
		District		Grant		<u>1</u> 69/a		tzel		Quadrangle		Pine Grove
., W	VELL OPER	RATOR:	Pennzoil	Products	Compa	- ny 46	70 9)1	DESIGNAT	TED AGENT	- Phili	p S. Ondr	usek
		•	P.O. Box	5519							O. Box 55	
			Vienna,	WV 26105				4.	,,	.Vien	na, WV 2	6105
(O)	OIL & GAS I				D:		11)	DRILLIN	G CONTRA	CTOR:		
			Randall	Mick kshere Dr				•	Nam			
		Address		ton, WV 2					Addres	£		
L2) P	ROPOSED	wei.i.w		Drill		····	D-: II D		D. J. st	1	~	
(<u>2</u>) I	NOI OBED	WEDD WC	JIII.		-	ld Form	Drill Deep ation		Redri		Stimulate	X Convert X
٠							e in Well (speci				ter Inject	
.3) G	icological ta	rget forms	tion		Gordo	n 410	De	p th	2854	Ft. (Top) to	2884	Ft. (Botto
.4) E	etimated de	pth of com	pleted we	ll (or actu	al depti	h of exis	ting well)		292		¥.	
5) A	pproximate	water stra	ata depthe	31 %	Fresh		NA	Ft.		Salt		NA Ft.
6) A	pproximate	coal seam	depths:				780	Ft.				
	s coal being :		-			•	Yes		K No			
•	irgin reserv			et formati			14			G		T
	stimated re	_	•		JII.				peig.	Source_		Estimated
							35		peig.		_	
	laximum pr		_				ne per hour	25 bbl.	·	Bottom Hole		
							ng additives: mprove oil reco	verv.	resh water,	produced wate	r, bacteri	cides and
	ilters (if any	*******		e filters ar		_ -						
	pecification											
<i>,</i> 0	респисации	s tor carmo	cic procec	non and o	ther co	rrosion (ontrol:					
4) C	ASING AN	D TUBINO	PROGR	AM:								
CASING	G OR			FICATION		. 1	FOOTAGE	INTERV	ALS	CEMENT F	ILLUP	PACKERS
	G TYPE	Size	Grade	Weight	New	Used	For Drilling	Left	t in Well	OR SA	CKS	
onduc		2										Kinds
resh V	Vater	8 5/8"	LS.	20#			845		845	Existing Casi	ng	Tension
nterme	ediate	4 1/2"	J-55	10.5#		-	2907		2907	Existing Casi		Sizes
njectio		2 3/8"	J-55	4.6#			2500		2500	On Packer	ng	Depths Set
ubing										102744		2500'
iners										1		Perforations
					<u> </u>							Top Bottom
**					<u> </u>	\vdash		_	· · · · · · · · · · · · · · · · · · ·			<u> </u>
5) A	PPLICANT	S OPERAT	LING RIG	HTS war	. accrris	ed from		1	LF Dul	l New et ====		<u> </u>
1.	by Deed		Lease		-	her Con		Dated	L.E. Dular Jan. 3			of record in the
	•		Wetzel		-		Office in	Lease	Book		t Page	_ 01 record in the 115
						,	, 0.1100 III			- O1 a	rrage	110

FORM WW-3(A) Obverse

`3	1) Date		. C	ctober 7	, 1996		
- 1	2) Well No.		L	.E. Dula	ney No.:	10	
	3) SIC Code					· · · · · · · · · · · · · · · · · · ·	
	4) API Well No.	47	-	103	-	1171	_T-

State

County

Permit

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

6)	SUR	FACE O	WNER(S) OF RECORD TO BE SERVED	7 (i)	COAL OPE	RATOR:	
					Name	N/A	
	(i)	Name	Paul Abel		Address		···
		Address	P.O. Box 5213		_		
			Tokoma Park, Maryland 20913	7 (ii)	COAL OW	ER WITH DECLARATION (ON RECORD:
	(ii)	Name			Name	N/A	
		Address			Address		
				•			
	(iii)	Name		7 (iii)	COAL LES	SEE WITH DECLARATION	ON RECORD:
		Address			Name	N/A	
					Address		
TO '	THE	PERSO	N(S) NAMED ABOVE: You should have	e received this	Form and	he following documents:	
(2) (3)	sets The The whi	out the plat (see Constict sets	cation for a Liquid Injection or Waste I e parties involved in the drilling or oth surveyor's map) showing the well locat ruction and Reclamation Plan on Forn tout the plan for erosion and sediment sed for the first injection or waste disp	her work, and ion on Form a WW-9 (unle control and	l WW-6; and ess the wel	l l work is only to plug a	well),
WH	CH.	ARE SU	OU RECEIVED THESE DOCUMENTS IS UMMARIZED IN THE "INSTRUCTIONS")) DESIGNATED FOR YOU. HOWEVER,	ON THE REV	ERSE SIDE	OF THE COPY OF THE	APPLICATION
			Take notice that under Chapter 22B of the proposes to file or has filed this Notice an Well Work Permit with the Director of the of Energy, with respect to a well at the local statement of the control	d Application e Division of C	and accomp oil and Gas,	anying documents for a West Virginia Departme	

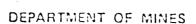
depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

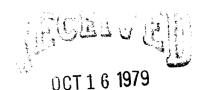
The person signing this document shall make the following certification:

"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 Telephone (304) 422-6565







Oil and Gas Division OLEGAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,		
Charleston, W. Va.	DATE October 12	2, 1979
Surface Owner Wadsworth Bros.		
A 1 E.T.Y		38, Parkersburg, WV
Mineral Owner Ingrim Myers, Jr., Agent		Acres156
Address 3833 Riverside Dr., Macon, Geo		
Coal Owner NO COMMERCIAL COAL		
		Elevation 1009.17
Address		County Wetzel
Coal Operator	Quadrangle FINE Gr	ove 7.3
THIS PERMIT MUST BE POSTED AT THE WELL SITE		
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	INSPECTOR	Phil Tracy
for drilling . This permit shall expire if	TO BE NOTIFIED Paul	- Carrett
operations have not commenced by 6-16-80	inning 221 Basel Ch	
Johnt & less	ADDRESS - SEE BEECH - SE:	-, Clarksburg, WV-26301
Deputy Director - Oil & Gas Division	PHONE 758-4573	
GENTLEMEN:		
The undersigned well operator is entitled to dril	l upon the above named farm or tract	of land for oil and gas, having fee
title thereto, (or as the case may be) under grant	or lease dated	1899 by Louisa E.
& Edward Dulaney made to	and recorded on the	e3 day of July
1899 in Wetzel County, Book	61 Page 115	
X NEW WELLDRILL DEE	PERREDRILL	FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY		
	•	
The enclosed plat was prepared by a registered have been notified as of the above date.	engineer or licensed land surveyor and	d all coal owners and/or operators
	·	
The above named coal owners and/or operator a to make by Section 3 of the Code, must be receive	te hereby notified that any objection to	they wish to make, or are required
	•	
Copies of this notice and the enclosed plat were or coal owners at their above shown respective ad-	dress day	before or on the
same day with the mailing or delivery of this copy	to the Department of Mines at Charles	ston, West Virginia.
•	Very truly yours, PENNZOI	L COMPANY.
PLEASE SUBMIT COPIES OF ALL	Pier	D-Lines -
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Summe	Operator Curtis A. Lucas,
WEST VIRGINIA GEOLOGICAL AND	P.O. Box	Civil Eng. Dept.
ECONOMIC SURVEY	Address	Street
P. O. BOX 879	of Well Operator Parkersbu	rg,
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331		or Town
202 202	West_Virg	inia 26101
		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 shill forthwith issue to the sell 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.

BLANKET BOND

47-103-1171

PERMIT NUMBER

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

PROPOSED WORK ORDER TO	O X DRILL	Denoez n	TO A VERTILE CONTINUES A TWO				
DRILLING CONTRACTOR. (1	f Known)	RESPONSIBLE AGENT.					
NAME			NAME PENNZOIL COMPANY				
ADDRESS			1588, Parkersburg, WV 2				
TELEPHONE			22-6565				
ESTIMATED DEPTH OF COMP			CABLE TOOLS				
PROPOSED GEOLOGICAL FOR		MOTANT	CABLE TOOLS				
		'OUR STORAGE	E DISPOSAL				
3.2	PECYCLI	NG WARR TI	DISPOSAL				
	RECTCE!	WATER FLO	OODOTHER				
TENTATIVE CASING PROGRA	M:						
		•					
CASING AND TUBING	USED FOR	LEFT IN	CLMENT THE UP				
SIZE	DRILLING	WFt.t.	OR SACKS - CUBIC FT.				
20 - 16 13 - 10							
9 - 5/8		,					
8 - 5/8	9/.51						
7	845'	845'	cement to surface				
5 1'2							
4 1/2	2930'	2930'	100				
3		2730	100 sks				
2			Perf. Bottom				
Liners			Perf. Top				
			Perf. Bottom				
APPROXIMATE FRESH WATER	DEPTHS FFFT	CALT WATER					
APPROXIMATE COAL DEPTHS	784'						
			•				
IS COAL BEING MINED IN TH	in Area:	BY WHOM?					
TO DRILL:			. •				
SUBMIT FIVE (5) COPIES	OF OG - 1, \$100.00 PERMI	IT FEE, PERFORMANCE B	OND AND PERMANENT COPY				
OF PLAT.							
O DRILL DEEPER OR REDRII	LL:						
SUBMIT FIVE (5) COPIES	OF OG - 1, SHOWING ORIGI	INAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON				
"EBBO DICIBBLE TICION	10 1929, A PERMANENT CO	OPY OF THE PLAT AND T	THE ORIGINAL WELL RECORD				
MUST ALSO BE SUBMITTE	ED.						
O FRACTURE - STIMULATE:	•						
OIL AND/OR GAS WELL O	RIGINALLY DRILLED REFO	RE HINE = 1000 FIVE (5)	COPIES OG - 1, PERFORMANCE				
BOND, PERMANENT PLAT	'AND ORIGINAL WELL REC	CORD.	COPIES OG - 1, PERFORMANCE				
			9, FIVE COPIES OG - 1, SHOW-				
ING ORIGINAL PERMIT NU	MBER, AND PERFORMANCE	BOND.	9, FIVE COPIES OG - 1, SHOW-				
four (24) hours in advance.	d within ninety (90) days of c	completion for bond release.	Inspector to be notified twenty-				
_							
			The state of the s				
•							
The following waiver must l	be co mpleted by the coal one	rator if the permit in the t	issued within ten days of receipt				
nereof.	* 2	rator if the permit is to be	issued within ten days of receipt				
ALVER: I the undersigned, Age	nt for	Coal Company Owner					
this lease have examine	ed and place on our mine ma	ins this proposed well locati	or Operator of the coal under				
providing operator has o	Complied with all subsections	have no objections to said w	ell being drilled at this location,				
Code.	there with an rules and regt	nations in Articles 4, 5, and 7	7, Chapter 22 of the West Virginia				
		•					
		Fo	or Coal Company				
		.:					
			Otticial Title				

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

raim name.	ADDE, PAUL		Operator	Metr No.:r.E	LUULANEY #10
LOCATION:	District:	1,009.00 Qu GRANT 590 Feet S 11670 Feet N	C	INE GROVE ounty: WETZEL Deg. 35 Min. Deg. 37 Min.	0 Sec. 30 Sec.
Well Type:	OIL	GAS	Injection X	ż	
Company: Per P. Vie	nnzoil Produc O. Box 5519 enna. WV 2610	ts Company 05-5519	Coal O or Own	perator DUPEC er 6451 Libra	K Inc. Pleasant St. ry, PA 15129
Agent: P.	S. Ondrusek		Coal O	perator	
Permit Issue	ed: 08/11/9	7	or Own	er 	· · · · · · · · · · · · · · · · · · ·
the above and filling Gas Inspect commenced the well was TY: 10 sks 65 sks 30 sks	sworn according to the above tor represent as plugged PE . cement	ss: rding to law ng and fillin operator, well, and senting the 29th da and filled FROM 2780' 865' 88'	and particip Randal Mi Director, ay of Septem in the fol TO 2680' 665' Surface	as wells and ated in the wick say that her , 199 lowing manne PIPE REMOV	
and that	at the wor	nument: 4½" k of pluggi: ober	x 44' casing ng and filli, 19_97.	ng said well	was completed on
And furthur	deponents	saith not.	Do	J. San 6	
Sworn and so My commission	ubscribe be	fore me this August 7, 2	18th day 9	of December	, 19 <u>97</u>
OFFICIAL NOTARY F STATE OF WES DIANE E. E PENNZO'IL PRODU P. C. BOD VIENNA, WV : My Commission Expi	PUBLIC IT VIRGINIA BOSLEY OSI a: CTS COMPANY (5519 28105-5519	nd Gas Inspe	ctor:	Notary	Public JAN 6 9 100