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CTATE OF WEST VIRGINIA OIL & GAS DIVISION DEPARTMENT OF MINEDEPT. OF MINES

		Dil and (Gas Divis	ion	THE VICE	n trans
			RECORD	· (a) 0	Rotary_X	0il <u>X</u>
Owdnay Iariff 7	.5'				Capie	C.,
Permit No. <u>47-087</u> -37	80		•		Wales Floo	Comb.
Compay Pennzoil	Company				Ulipotal :	Z Slouage _
Fum S. M. Sergent	3. Parkersb	1 200	101 Casing and Tubing	Used in Drilling	Less in Well	Cement fill (Cu. ft. (Sks.
Location (Steen) Bran Well No. 12 District Smithfield	County F	Elev. <u>975.98</u> '	Size 20-16 Cond.	•		·
The surface of time is own Warren Cott	ed in fee hu		13-10			
Address Tariff, WV Mineral rights are owned by			9 5/8 8 5/8	218	218	125 sks.
Drilling Commenced 8	ersbura Rd.	Spencer, WV	5 1/2			· · · · · · · · · · · · · · · · · · ·
Drilling Completed 8.	-18-83		3	1984	1984	105 sks.
Initial open now WIW Final production	cu. (1 ~1 day	LLI.	2 Liners Used			
Well open Well trestment details:	her. before test	R.P.				
	8/83 Big	Injun w/240	Allach copy of RGW, 1500# 20	cementing record	I.	

oil wis encountered it		Feet.		Inches		
oducing Sind Big I	niun Fe	61	Salt W	/ater		Feet
Furmation Color H	And the second s					
Sand & Silt	ard or Soft	Top Feet	Bottom Feet	Oil, Gas or W	ites • ş	Remarks
Sand & Silt	and the second	0 306	306 322			
Salt Sand Silt, Shale, Sand	all modern against a sea ann an ann ann ann ann ann ann ann an	322 1527	1527 1657			
Little Lime Blue Monday	÷	1657 1812	1812 1852			
Pencil Cave Big Lime	William Street and Control of the Co	1852 1857	1857 1870		;	
Big Injun Pocono Shale	* The second second	1870 1984	1984 2008			
otal Depth	Microscopy of the control of the con	2008	2053		:	
F 411	** Productions	open-months and the second	(2053			
		- Application of the control of the			4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
		-	Andrews			Step and the step
	unada de la composição		·		* de la constantina della cons	

FORM IV-3	
(Obverse)	1) Date: June 9 19 83
[%][02-83] 	2) Operator's Well No. S. M. Sergent #12
DRILLING CONTRACTOR	3/ SIL Code
	4) API Well No. 47 -087 -3780 State County Perm
	5) UIC Permit
STATE OF WEST VII	RGINIA
LIQUID INJECTION OR WASTE DISPOSAL For Both	
DEPT. OF MINES, OFFICE OF OIL AND GAS, DNE	R, DIVISION OF WATER RESOURCES
6) WELL TYPE: I =	
/) TOCATTON	sposal / Gas Injection /
The count on in	atershed Branch of Henry Fork
8) WELL OPERATOR D	ounty Roane Quadrangle
Address P. O. Box 1588	12) DESIGNATED AGENI James A. Crews
	Address P. O. Box 1588
Parkersburg, WV 26101	Parkersburg, WV 26101
9) ROYALTY OWNER Richard Bowlby	13) COAL OPERATOR NO COMMERCIAL COAL
rarkersburg ka.	Address
Spencer, WV 25276	Control and here and the control and the contr
Acreage 300	14) COAL OWNER(S) WITH DECLARATION ON RECORD:
warren cottrill	Name Name
Address Tariff, WV	Address
Acreage	Name
OIL AND GAS INSPECTOR TO BE NOTIFIED BEFORE	Character (American Character) and the Character (America
DRILLING, AND 24 HOURS IN ADVANCE OF ANY MECHANICAL INTEGRITY TEST	Address OIL & GAS DIVISION DEPT. OF WHNES
	Land land I to had a
Name Homer H. Dougherty 1	5) COAL LESSEE WITH DECLARATION ON RECORD:
THUCH NO. 3 DUX 3-A	Name
Looneyville, WV	Address
The undersigned well operator is entitled disposal purposes at the above location under	to operate for liquid injection or waste
dated October 4.19 09 to the indomes and	rease X / other contract /
144 SOLIU UERII. 18986 AM ARBANA ANNI	
Recorded on ,19 , in the office Roane County, West Virginia, in permit is requested as follows:	of the Clerk of the County Commission of
permit is requested as follows:	Lease Book 17 at page 429 . A
PROPOSED WORK: Convert / Drill X / Drill dee off old formation / Other physical change in Date of first liquid injection or waste dispose	ener / Exame
Off old formation / Other physical change in	well (specify)
Date of first liquid injection or waste disposa	1:
PROPOSED WORK	ORDER
TUTO TO AN TOWN	A many control of the
ACTUAL INFORMATION MUST BE SUBMITTED Estimated depth of completed wall 1001	ON FORM IV-37 UPON COMPLETION
Estimated depth of completed well 1991 feet Approximate water strata depths: Final	Rotary X / Cable tools /
The second debilis: Fresh	Faata - 1.
Approximate coal seam depths: Is coal GEOLOGICAL TARGET FORMATION Dis Lois D	. being mined in the area? Yes/No X/
Big Injun Dep	oth 1907 feet(top) to 1021 feet (top)
b) Estimated reservoir fractions	commation 80 psig; Source Estimate
b) Estimated reservoir fracture pressure c) Perforation intervals Ope	psig (BHFP)
MAXIMUM PROPOSED INJECTION OPERATIONS	Big Injun
volume per hour: 12.5 Bbls. Bo	ttom hole pressure: 1800 psig
TO BE .	INJECTED - PLUS ADDITIVES
Fresh Water	
SPECIFICATION FOR CATHODIC PROTECTION AND OT	THER CORROSION CONTROL
	CONTROL
FILTERS (IF ANY) Coal Filters	

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27)	CASING AND T	UBIN	G PROGR	RAM							
·	CASING OR	SPECIFICATIONS						I DOOT ACT. TO THE			
191	TUBING TYPE			Weight		1	ll c	OUTAGE IN	ILERVALS	CEMENI FILL-U	PACKE
		Size	<u>≧ Grade</u>	per ft.	New	Used	dFor	drilling	Lerr.	OR SACKS	
	Conductor						1		Tarr METT	Cubic ft.	
	Fresh water	7			-	Х	#				Kinds
	Coal					 ^-	╫	200	200	Cement to Surf	ce
	Intermediate						 				Sizes
		-	-		-						01762
	<u>Production</u>	4-1/	2 K55	9.5	Х			1907	1007	^ -	
	Tubing							1507	1907	Over Salt Sand	Depths
	Liners						 				
							 				Perforation
•											Top Botto
20)											
28)	Copies of	thi s	Permit	Applicat	rivon	and	tho			reclamation pl	
	been mailed o	r del	ivered	by hand	to i	the s	tile i	encrosed	plat and	reclamation pl	an have
í	to the Done-	nor	before	the day	of t	the m	naili	CO Dellier	al opera	tor, coal owner	(s), and
	1		OF LITTLE	es at Una	artes	ston,	West	.g or der. Viroini:	ivery of	tor, coal owner thie Permit Ap	plication
The pa	MSOn sioning	thic	al	· -11-	_				2.0		
follow	ing certifica	ition	:	air suall	. mak	te th	e		PFN	INZOIL COMPANY	
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of	the coal und	er rh	ne coar (operator				/owne	r	/ 10000	_
mi	ne map exists	whic	h cover	rs the or	on ha	as ex	camin	ed this p	roposed	well location	7.5
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			447		المثلا	156	16	מבווונת	scrator	, Office of Oil	and Gas

IE: Keep one copy of this permit posted at the drilling length

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPIDAVIT OF PLUCONG AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, 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.

Pom nemo:	S.M. Serge	ent	Operator Well No.:	. 12		
LOCATION:	Elevation: 107:2 *		Gudani: Newton			
	District Smith	A		Roane	.3	
	Latino:	~			- condetesting and a state of the state of t	
	Longiturde:					
Well Type: C	dil gas	geometric de la companie de la compa	Marthin	\$ 48160 \$ 4280	628	
Commencery	Triad Hunte	Coal Oz	erator .	7200	·.	
3 -	5669 Wallb	ack Rd of Own		NOC	001	
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27)	CASING AND I	UBIN	G PROGI	RAM					_		
	CASING OR SPECIFICATION TUBING TYPE					I TOOTUGE TIMEEKAN			S CEMENI FILL-UP PACE		
	Conductor	Size	Grade	per ft.	Nev	Usec	For drilling	Left. in well	OR SACKS Cubic ft.	P PACKERS	
	Fresh water	 				_				V3 - 3 -	
	Coal Coal	7			ļ	X	200	200	Cement to Sure	Kinds	
		<u> </u>			ļ				Cement to Surf		
	Intermediate	-								Sizes	
	Production Tubic	4-1/	2 K55	9.5	X		1907	1907	0		
	Tubing							1907	Over Salt Sand	Depths s	
	Liners										
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28)	Copies of	his:	Permit	Applica			A. 1		reclamation pl		
print add at men	this location its of the Wes	er per mined mittes and duals he in is trare to the constitution of the constitution o	nalty and a ed in that, s immediate, a that the ting f ility coal (is well n cover to The wided, ginia	of law to familiathis document of interest of fine of the analysis of the analysis of the analysis of the well Code and	hat ar wumen my responding, and sign and WA	I have the first and inquestion infication im-	iry It le hat ER / owner amined this pr	oposed v	/ lessee well location. well location has ork proposed to lapplicable in the location of the location has been sork proposed to lapplicable in the location has been sork proposed to lapplicable in the la	& Mapping If a	
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rk. (Re additions inspec	ispector prior fer to No10 in, the well o for 24 hours	to to to to the perant befor	the cor or or e actu	his cont	on of	road	ication must b	pelow is ments sub e given and pits	evidence of peoject to the co to the District for any permit	nditions FOil	
mit exp	ires Feb uted with due	GILIS	gence.	1984		u	nless work is	cammence	ed prior to tha	t date	
BB	Agent:	P	at: NJ	Casing:		Fee: 1567	Admini	strator,	Office of Oil	and Gas	

E: Keep one copy of this permit posted at the drille