

#### State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

### Well Operator's Report of Well Work

Farm name:	STUART, ED	WARD	Operator	Well No.: B	ED STUART	#2
LOCATION:	Elevation:	1020.00 Quad	rangle: BI	ROWNTON		
	District: Latitude: Longitude	ELK 11925 Feet Sou 11300 Feet Wes	th of 39	ounty: HARR Deg. 12Min Deg. 12 Min	. 30 Sec.	•
		LOPMENT COR				
P. (BRI	O. BOX 26 DGEPORT, WV	26330-0026	Casing   &   Tubing	Used in     Drilling		Cement    Fill Up   Cu. Ft.
Agent: ERI	C R. STEARN	S	Size		 	
Inspector: Permit Issu- Well work C	ed:	02/27/90	11 3/4"	25'	25'	
Well work C Verbal Plug	ompleted: ging	03/10/90	8 5/8"	1012'	1012'	240 sks
Permission Rotary x Total Depth	Cable	Rig 4382'	4 1/2"	4330'	4330	377 sks
Fresh water 110; 345	_					
Salt water	depths (ft)					
Is coal bei Coal Depths	ng mined in (ft): <u>237-23</u>	area (Y/N)? <u>n</u> 39;344-348;565-570				
OPEN FLOW D	ATA					
Gas: I F T	nitial open inal open f ime of open	on Benson  flow MCF  flow 353 MCF  flow between i  gure 1100 psi	nitial an	d final tes	flow low ts	Bbl/d Bbl/d Hours
F	inal open fine of oper	formation Ball flow MCF flow co-mingled MCF flow between is	'/d F nitial an	inal open f d final tes	flow low ts	2842.5-346 Bbl/c Bbl/c Hours Hours
Third p	producing form	nation <u>Fifth/Four</u>	th Sand	_ Pay zone d	epth (ft) 2	200-2258
INTERVALS,	FRACTURING IS A SYSTE	FORM PUT THE OR STIMULATING EMATIC DETAILED FERED BY THE WEI FOR: PETROLE	GEOLOGIC JEORE	AL BECORD	ETC. 2). OF ALL FO	THE WEL
			Eric R. Ste			
		By: Date:	April 11			

### Stuart #2

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1ST	Benson	9(4227.5-4229.5)	100	450	500	69.2
2ND	Balltown	10(2842.5-3461)	100	450	750	66.6
3Rd	Fifth/Fourth	9(2200-2258)	100	450	604	69.2

#### WELL LOG

FORMATION	TOP FE		REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL sand, shale, Big Lime Big Injun sand, shale Gantz sand, shale 50 ft	13 14 15 17 17 17	1715 15 1725 25 1740 40 1770	3/4" stream H2O @ 110' 1" stream H2O @ 345' Coal 237-239, 344-348 Coal 565-570 gas chk @ 1566' 6/10-1" H2O gas chk @ 1846' 2/10-1" H2O
sand, shale 30 ft sand, shale Gordon sand, shale 4th sand, shale	18: 19: 19: 20: 21:	00 2195 95 2147	gas chk @ 2033' 2/10-1" H20 gas chk @ 2124' 2/10-1" H20
4th A sand, shale 5th sand, shale Bayard sand, shale	220 225 226 230 231	75 2209 09 2254 54 2287 87 2313 13 2322 22 2684	gas chk @ 2248' 2/10-1" H20
Speechley sand, shale Balltown sand, shale Bradford sand, shale	30: 30: 33: 34: 35:	10 3053 53 3358 58 3402 02 3528 28 3989	gas chk @ 2432' 2/10-1" H20  gas chk @ 2858' 12/10-1" H20
Riley sand, shale Benson sand, shale	409 420 420	91 4202 02 4262 62 4385 85 4385	gas chk @ 3116'12/10-1" H20 gas chk @ 3703' 12/10-1" H20 gas chk @ 4104' 16/10-1" H20 gas chk @ 4260' 12/10-1" H20 Driller TD 10/10-1" H20 gas chk @ DC 10/10-1" H20
	(18 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	4382	Logger TD

Issued 2/27/90 Cypres 2/27/92 Page of

FORM WW-2B

# STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Ope	rator:	Petro	leum Develop	ment Corporati	on 35200	0 (5) 26
2) Operator	's Well N	Number:	Ed St	uart #2	3) EI	levation: 1020
4) Well typ	e: (a) (	Dil_/	or Gas	5 <u>XX</u> /	•	
			Production	XX/ Undergr	ound Storag	de XX
5) Proposed	Proposed Target Formation(s): Benson					
6) Proposed	Total De	epth:50	000	feet		
7) Approxim	ate frest	n water s	trata dept	hs: 36, 558	720, 750	
8) Approxim	ate salt	water de	pths:	N/A		mark handler and MAN III and SAN SAN SAN A short san a s
9) Approxim	ate coal	seam dep	ths: 146,	557		
10) Does land	d contair	n coal se	ams tribut	ary to acti	ve mine?	Yes/ No XX
11) Proposed						
12)						
·		CASIN	IG AND TUB	NG PROGRAM		
TYPE	SI	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	\$ . I	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	H-40	42	30	#2 22 00 00 00	
Fresh Water						
Coal	′					
Intermediate	8 5/8	H-40	20	1000	1000	
Production	4 1/2	J-55	10.5	5000	5000	450 sks
Tubing						
Liners						PERCO
PACKERS : Kin	d					The state of the s
Siz	esths set		,		<u> </u>	FER 27 Year
Den					p is	101011 C = C1
, 4910 Dep	رح رح	or Diviso	on of Oil a	and Gas Use		<del>/ 10.10 についしょる。</del> [2.15] <i>E</i> RTSEAT (NES N.15)
Dep				and Gas Use	Only Dir	ARTMENT OF INC.  ad         WPCP

Page 1 of \_\_\_\_\_ Form WW2-A (09/87) File Copy

1	J. Cart	File to A	الما الما	
	FEB	27	1990	(2)

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY 3)

Date	e :	Febru	lary .	23,	1990			
Operator's well number								
_	Edwa	ard Stu	uart :	#2				
API	Well	No:	47 -	_	033	_	3698	
		Stat	e -	Co	untv	_	Permit	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

#### NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	A CHARLES AND AN ANALYSIS AND A	TO CASE OF THE PROPERTY OF THE
4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
- /	Surface Owner(s) to be served: (a) Name Edward Stuart	
	Address 207 Davisson Street	NameAddress
	Bridgeport, WV 26330	Address
	(b) Name	(b) Coal Owner(s) with Declaration
	)ddross	(D) Coal Owner(S) with Decidedion Name Same as Surface
	Address	Name Same as Surface
	(a) Namo	Address
	(c) Name	E (
	Address	Name
		Address
<i>7</i> 3 .	T Ctophon Coppy IIO	
6)	Inspector Stephen Casey #2 Address Rt. 2, Box 232-D	(c) Coal Lessee with Declaration
	Address <u>Rt. 2, Box 232-D</u>	Name
	Jane Lew, WV 26378	Address
	Telephone (304)- <u>745-4888</u>	
	TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:
	Included is the lease or leases or	r other continuing contract or
contr	acts by which I hold the right to	extract oil and gas OR
XX	Included is the information requir	red by Chapter 22B. Article 1.
Secti	on 8(d) of the Code of West Virgin	nia (see page 2)
	I certify that as required under (	Chapter 22B of the West Virginia Code
T hat	re served copies of this notice and	application, a location plat, and
7 1100	opening deciments make 1 through	application, a location plat, and
accon	panying documents pages I through	on the above named parties, by:
	Personal Service (Affidavit a	attached)
	XX Certified Mail (Postmarked po	ostal receipt attached)
	Publication (Notice of Public	cation attached)
	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
to th	e terms and conditions of any perm	mit issued under this application.
	I certify under penalty of law that	at I have personally examined and am
famil	iar with the information submitted	on this application form and all
attac	hments, and that based on my inqui	iry of those individuals immediately
respo	ensible for obtaining the informati	ion, I believe that the information
is tr	ue, accurate, and complete.	- ony i bould to the fill of material
	I am aware that there are signific	cant penalties for submitting false
infor	mation, including the possibility	of fine and imprisonment
	mation, including the possibility Well Operator	Petroleum Develonment Corporation
	OFFICIAL SEAL BY: NOTARY PUBLIC Its:	) Geologist
12-2	STATE OF WEST VIRGINIA	P.O. box 26
T A	JOSEPH R. VELTRI Address	
	Bridgement W.V. Scrool	Bridgeport, WV 26330
	Telephone	304-842-6256
July 2	Tiber and swift efore me this 26	2 day of Jehran 1990
,	1 - aliz / / TT.	
My an	more comments of the comments	Notary Public
Му со	emitistion expires (1211/3/9	40