

Reviewed\_

Recorded.

## State of West Virginia Division of Environmental Protection Section of Oil and Gas

Section of	Oil and G	as		
ECTION OF Well Operator's	Report of	Well Work		CENT
The state of the s		Well No.:	Office	(A) (五) (7) (F) (B) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F
LOCATIOn Elevation: 975.00 Quad	irangle: W	EST UNION	B	1 1 93
District: WEST UNION Latitude: 14390 Feet Sou Longitude 4400 Feet Wes			BIDDE W	Division of
Longitude: 14390 Feet Sou	th of 39	Deg. 22Min	30 Sec	ental Protection
	t of 80	Deg. 45 Mi	n. 0 Sec	
Company: DRILLING APPALACHIAN CORP				
P. O. BOX 99	Casing	Used in	1 7064	
ALMA, WV 26320-0099	&	l osed In	Left	Cement
Agent: KENNETH R. MASON	Tubing	Drilling	in Well	Fill U
Inspector: MIKE UNDERWOOD	Size			
Permit Issued: 12/21/02	8-5/8	10 <i>5</i> 8 °	1058'	CTS
well work Commenced: 12/31/02			1000	235sks
Well work Completed: 1/11/93 Verbal Plugging	**************************************	8		1
Permission granted on !	4-1/2	4	5065"	300sks
Total Depth (feet) 5110		e section		
Total Depth (feet) 5110' Fresh water depths (ft) 180'				
1740	1	1		
Sait water depths (ft)		9		
Is coal being mined in area (Y/N)? N				
Coal Depths (ft): N/A	things, a	•		
N/A		e acque	quaka	
OPEN FLOW DATA				
Producing formation Benson Sand				4970-74
The state of the s	Oil: Ini	Pay zone de	ptn (ft)	
Final open flow 581 MCF/c	Fin	al open flo	Tom 0	Bbl/d
Time of open flow between ini Static rock Pressure	tial and	final tests	" 36	Bbl/d Hours
Static rock Pressure 1525 psig	(surface	pressure) a	fter 48	
Second productna formation				
Gas: Initial open flow MCF/A		Pay zone de tial open f	pth (ft)_	
rinal open flow Mcr/a				Bbl/d
Time of open flow between ini				Bbl/d
Static rock Pressurepsig	(surface	oressure) a	fter	Hours Hours
en e		, στουσή ω.		nours
NOTE: ON BACK OF THIS FORM BUT THE				
NOTE: ON BACK OF THIS FORM PUT THE FOUNTERVALS, FRACTURING OR STIMULATING, LOG WHICH IS A SYSTEMATIC DETAILED GR	DLLOWING:	1). DETAIL	S OF PER	FORATED
LOG WHICH IS A SYSTEMATIC DETAILED CO	THITOTON	CHANGE, ET	C. 2). TI	HE WELL
INCLUDING COAL ENCOUNTERED BY THE WELLBO	ODOGICAL ORE.	KECURD OF	ALL FORM	ATIONS,
Sor Detrition	Ph 270 Cl . C			
For: DRILLING A	PPALACHIA	N CORP.	· · · · · · · · · · · · · · · · · · ·	

By:\_\_

Date:

Perforated at a depth of 4970'4974', 16 shots Fractured with10,000# 80/100, 40,000# 20/40 sand, 20# gel water, 87,000 CF nitrogen gas. Formation break, 1882 psi, avg treatment psi, 2875 psi, avg fluid rate 26.18 bbls/minute, ISIP 2151 psi.

Permian Sands/Shales	Surface	500
Pennsylvanian Sands/Shales	500	1930
Big Lime shale Keener shale Big Injun shale Weir Sand shale Gantz Sand Shale/Siltstone Gordon Sand shale/siltstone Warren shale/siltstone Riley shale/siltstone Benson Sand shale/siltstone TD	1930 2000 2009 20033 3035 2035 2106 2254 2341 2441 2468 2671 2706 3346 3371 4516 4547 4970 4975	2000 2008 2032 2034 2105 2253 2340 2440 2467 2670 2705 3345 3370 4515 4546 4969 4974 show gas 5110 5110

OF 1 - 435

(Type)

## STATE OF WEST VIRGINIA Expused 12/31/92 of BTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

Office of Oil

1) Well Op	erator:_	DRILLIN	G APPALACHIA	N CORPORATION	14	425 (8) 670
2) Operato	r's Well	Number:_	Freema	n #1	3) El	evation: 975'
4) Well ty			3			
	(b)	If Gas:	Production Deep	uX/ Underg	round Storag Shallo	e/ w_X/
5) Propose	d Target	Formation	n(s):	Benson = 3		
6) Propose	d Total D	epth:	5250±	feet		
7) Approxi	mate fres	h water s	strata dept	:hs:	<u>.</u>	
8) Approxi	mate salt	water de	epths:			
9) Approxi	mate coal	seam dep	oths:			
10) Does la	nd contai	n coal se	eams tribut	ary to act	ive mine? Y	es/ NoX_/
11) Propose	d Well Wo	rk: Dril	l, perforate	, stimulate n	ew formation	
12)		CASIN	IG AND TUBI	NG PROGRAM		
TYPE	S			FOOTAGE II		CEMENT
	Size	**************************************	Weight		Left in	Fill-up (eu. ft.)
Conductor	11-3/4"		34#	30'	0 .	
Fresh Water						OK ME
Coal				·	1-	7
Intermediate	8-5/8=		20∦	1090'	1090'	CTS-38CSR18-11.3
Production	4-1/2	J-55	105#	5095 '	<b>☞</b> 5095¹	CTS-38CSR18-11.1
Tubing						
Liners						-
<u>PACKERS</u> : Kii	nd zes					
	pths set					
144	F	or Diviso	n of Oil a	nd Gas Use	Only	
/_  Fee(s)	paid:  _	_  Well W	ork Permit	_  Rec	lamation Fund	d   _   WPCP
Plat	WW-9	WW-	·2B    B	ond		_    Agent

				A.C.	-				
Pag	e 1 of	otection of the contraction of t	_	1)	Date:	Dec. 23	1992	ARIG	INI
For	m WW?-A	otection, in the contraction		2)	Operator	's well nu	mber	<u> </u>	77777
(10	-91)	DEC 3 0 92							
		Permitting	7	3)	API Well	No: 47 -	017	40	)11
	,	Permitting Office of Oil &	300			State -	County	- Perm	iit
		Office of or	STÄTE OF	F WEST	' VIRGINIA	•			
	DIVISI	ON OF ENVI	RONMENTAL	PROTE	CTION, OF	FICE OF OI	L AND	GAS	
			) APPLICAT						
4)	Surface C	wner(s) to	be served	• 7	5) (a) C	oal Operat	or:		
	(a) Name	Homer Marti Route 2, Bo	n, et al		Name	-			
					Address				
	(b) Name	West Union,	WA 50-520		(b) Coal	Owner(s)	with De	clarat	ion
	Address _				Name		wrett De	Clarac	TOIL
					Address				<del></del>
	(C) Name				37				
	Address _			**********	Name Address				
	and the second s	T-2004				****	MTT		
6)	Inspector	Mike Underw	ood		(c) Coal	Lessee wi	th Decl	aratio	n
		Rte 2, Box Salem WV 2		<del></del>	Name				
		(304) - 7			Address _				
		(304)	32-1043			•			
		TO THE PER	SON(S) NAM	ED AB	OVE TAKE	NOTICE THA	AT:		
Sect I ha	Included ion 8(d) o I certify eve served empanying d entering Cert entering Publ	hich I hold is the info f the Code that as re copies of t ocuments pa onal Servic ified Mail ication (No	ormation recommended with the control of the contro	equire irgini der Ch e and ough _ vit at ed pos ublica	ed by Char a (see parapter 22F application the tached) tal recei	oter 22B, age 2) 3 of the Wellon, a local above name of attached ached	Article est Vir ation p med par ed)	ginia ( lat, an ties, l	nd by:
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		in the second se	By: Its:		Presid	H KTV	bus_		
			Address			Box 99, Alma	, WV 26	320	
							-		
Cirk-	aribed 1		Telephone		304/75	71			
	OFFI	CIAL SEAL	re me this	3 29	day of _	pereme	w	, 19	920
1. A.	Norary Public,	State of West Virginia		(X	3.H. A	Itaker)	Not	ary Pub	olia
NEW C	on sion	Apures _	Librury	<u> 13 - </u>	anni	ceacr	140 C	TTA EAT	J.L.C
1.16		WV 26320							
No.		polyes February 13, 2001							