

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

Office of C.1.2 Gas

Well Operator's Report of Well Work

Farm n	ame: H	ARTLEY,	DAVID	Operator	Well	No.:	HARTLEY	#1
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Elevation: 1,064.00 Quadrangle: PENNSBORO LOCATION:

District: MEADE County: TYLER
Latitude: 7375 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 7960 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: DOMINION APPALACHIAN DEVE					
P. O. DRAWER R JANE LEW, WV 26378-0000	Casing &	Used in	Left	Cement Fill Up	
·	Tubing	Drilling	in Well	Cu. Ft.	
Agent: JOHN T. HASKINS	Size		 		
Inspector: MIKE UNDERWOOD Permit Issued: 05/20/97 Well work Commenced: 7/10/97	11 3/4	30	PULLED		
Well work Commenced: 7/10/97 Well work Completed: 7/16/97 Verbal Plugging					
Permission granted on N/A	8 5/8	815	815	155	
Rotary x Cable Rig Total Depth (feet) 5218' Fresh water depths (ft) 75'	4 1/2	5183	5183	190_	
Salt water depths (ft) N/A					
Is coal being mined in area (Y/N)? N Coal Depths (ft): None					

OPEN FLOW DATE

FLOW DATA	
Producing formation Alexander Gas: Initial open flow 33MCF/d Oil: I Final open flow 179MCF/d F Time of open flow between initial an	rinal open flow Bbl/
Static rock Pressure 950 psig (surface	ce pressure) after <u>72</u> Hours
Second producing formation BENSON Gas: Initial open flow * MCF/d Oil: I	Pay zone depth (ft)4918-492
Gas: Initial open flow * MCF/d Oil: I Final open flow * MCF/d F	initial open flow * Bbl/Ginal open flow * Bbl/G
Time of open flow between initial an	ind final tests * Hours
Static rock Pressure * psig (surfac	ce pressure) after <u>*</u> Hour

* Commingled

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

FOR: DOMINION APPALACHIAN DEVELOPMENT, INC.

LARRY J. CAVALLO; MAGAGOF ENGINEERING

Juli 1997,

2	STAGE(S) 20# Gel	FRAC		DATE	8/22/97
CONES	PERFS	HOLES	BBL	BP	ISIP
lexander	5140-5144	10	210	2458	1250
enson	4918-4925	12	492	2861	1100

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS	
KB-GL			0	10		
Sand & Shale	Gray/Red	Medium	10		wet@75'1"	st
Sand	Gray	Hard	75	100		~ ~
Sand & Shale	Gray/Red	Medium	100	282		
Sand	Gray	Hard	282	326		
Sand & Shale & RR	Gray	Medium	326	474		
Sand	Gray	Medium/hard	474	494		
RR & Shale	Red/Gray	Medium	494	502		
Sand & Shale	Gray	Hard	502	510		
RR & Shale & Sand	Gray/Red	Medium	510	690	4.	
Sand & Shale	Gray	Hard	690	730	• 900.	
Sand	White	Hard	730	740		
RR & Sand & Shale	Gray/Red	Medium	740	1529		
Sand	Gray	Hard	1529	1550		
Sand & Shale	Gray/Red	Medium	1550	1654		-
Sand	Gray	Hard	1654	1676		-
Sand & Shale	Gray/Red	Medium	1676	1793 Hole	Damp 1765'	
Sand	Gray	Hard	1743	1801	_	٠.
Sand & Shale	Gray	Mdeium	1801	1883		
Sand	Gray	Hard	1883	1905 Soap	Hole,1892'	
Shale	Gray	Soft	1905	1909		
B. Lime	Gray	Hard	1909	1966 Gas C	K 1915 No S	Sho
Injun Sand	Gray/White	Hard	1966		DOT 1966'	
Sand & Shale	Gray	Medium	2130		k 2039'No s	Sh∩
Warren	Light Brown	Hard	3510		k 2100'No S	
Sand & Shale	Gráy	Medium	3540		k 2992'No S	
Sand (Riley)	Gray	Hard	4748		k 3705'No s	
Sand & Shale	Gray	Medium	4772		k 4913'No S	
Sand	Light Brown	Hard	4931	4935 Gas (k 5002 10/1	10-
Sand & Shale	Gray .	Medium	4935	5218	1" H2O	- 0
			TD	5218 Gas (ck@5218' 10/	/10
				000	1" W/W	
				Gag (Ck @ DC 10/1	
				Gub (1" W/W	
					± ¥1/¥1	

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

т)	Well Oper	ator: DO	MINION A	PPALACHIAN	5735 I DEVELOPMEI	NT, INC. 47	1851 4	539
2)	Operator'	s Well N	umber: DA	VID HARTLE	Y #1 (114	71) 3) El	.evation://	064'
4)	Well type			or Gas		Justice	d 05/20/9	7 7
36		(b) I	f Gas: E	Production Deep		cound Storag	ge/	′ /
23636	Proposed	Target F	ormation((s): <u>BENSON</u>	435			
				120'		A.	· · · · · · · · · · · · · · · · · · ·	
	Approxima	ate fresh	water s	trata dept	hs: <u>750</u>			
	Approxima	ate salt	water de	pths: <u>None</u>	Reported	~~~~		
9)	Approxima	ate coai	seam dep	ths: None	Reported		1995	
10)	Does land	d contair	coal se	ams tribut	ary to act	ive mine? 🧖	es/ No	_X_/
11)	Proposed	Well Wor	k: DRILL	& STIMULA	TE NEW WELI	_		
12)				~ mun	wa ppoansy			
					NG PROGRAM		CEN	M TO N I TO
TYPE		<u> </u>	PECIFICAT	IONS	FOOTAGE I	NTERVALS		MENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-t	£t.l
Cond	luctor	11 3/4"		27#	30'	0 PULLED	38 CSR 18-11.3	
Fres	h Water							
Coal	\times						10,kY	nice
Inte	exmediate	8 5/8)•	20#	790'	790' CTS	38 CSR 18-11.2	-2
Proc	duction	4 1/2	1	9.5#	5070'	5070'	38 CSR 18.11.1	
Tub	ing							
Line	ers							
PACI	KERS : Kir	nd						
/		zes oths set						
For Divison of Oil and Gas Use Only								
\ <u>\</u>								
I	Plat	i ww-9	ww	-2B I <u> </u>	Bond	(M)		Agent
						(Type)		

(x,y) = (x,y) + (x,y

Page 1 of
Form WW2-A
(6/94)
File Ćopy

1)	Date:				
2)	Operator	's wel	I num	ber	
	HARTL	EY #1	L	(11471)	

3) API Well No: 47 - 095 - 1679
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served: 5) (a) Coal Operator:
	(a) Name <u>DAVID HARTLEY</u>	Name N/A Address
	Address HC 83 BOX 207	Address
	ELLENBORO, WV 26346	
	(b) Name	_ (b) Coal Owner(s) with Declaration
	Address	Name SAME AS SURFACE
	(-) M	Address
	(c) Name	
	Address	NameAddress
		Address
6)	Increator MIKE UNDERWOOD	(a) Cool Loope with Declaration
0)	Inspector MIKE UNDERWOOD Address ROUTE 2 BOX 135	(c) Coal Lessee with Declaration
	/ ladicas riocit to box raa	Name N/A
	Telephone (304)- 288-4604	Address
	relephone (304)-288-4804	
	TO THE PERSON(S) NA	MED ABOVE TAKE NOTICE THAT:
	TO THE PERSON(S) NA	MED ABOVE TAKE NOTICE THAT.
	Included is the lease or leases or other	er continuing contract or contracts by which I hold the
riaht	to extract oil and gas OR	or continuing contract or contracts by which I hold the
X	Included is the information required by	Chapter 22, Article 6, Section 8(d) of the Code of West
Virgir	nia (see page 2)	oriapior 22, fittiole o, decitori o(a) or the code of vvest
· g	I certify that as required under Chante	er 22 of the West Virginia Code I have served copies of
this r	notice and application, a location plat a	and accompanying documents pages 1 through on
the a	bove named parties, by:	and accompanying documents pages i through on
o u	Personal Service (Affidavit attac	ched)
	x Certified Mail (Postmarked post	al receipt attached)
	Publication (Notice of Publication	an receipt attached)
	1 dbileation (14otice of 1 dbileation	or attached)
	I have read and understand Chapter	22-6 and 38 CSR 11-18, and I agree to the terms and
cond	tions of any permit issued under this ap	22-0 and 30 CSR 11-10, and 1 agree to the terms and
00110	I certify under negative of law that I	have personally examined and am familiar with the
inforr	nation submitted on this application form	m and all attachments, and that based on my inquiry of
those	e individuals immediately responsible for	obtaining the information, I believe that the information
is tru	e, accurate, and complete.	obtaining the information, I believe that the information
		penalties for submitting false information, including the
poss	bility of fine and imprisonment	perfection submitting raise information, including the
grand and and and and and and and and and	Well Opera	ntor DOMINION APPALACHIAN DEVELOPMENT, INC.
1 1	Ву:	JOHN T. HASKINS
War Street	Ite: CZNITO	R VICE PRESIDENT
18 25		O DRAWER R
die a	≥ / (ANE LEW, WV 26378
		(304) 884-2000
Subs		ay of <u>May</u> , 19 <u>97</u>
_(196111	110/
	Kunsk & Kulli	Notary Public
Myc	ommission expires // / Coc	mber 26 200ch