

07-Jan-94 API # 47- 95-01166 F

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

WW Division of

SEP 1 1995

Well Operator's Report of Well Work

Farm name: CAMPBELL, MARY KAY

Operator Well No.: WILSON HEIRS #1

LOCATION:

Elevation: 910.00

Quadrangle: PENNSBORO

District:

CENTERVILLE County: TYLER
1575 Feet South of 39 Deg. 22Min. 30 Sec.
2100 Feet West of 80 Deg. 52 Min. 30 Sec.

Latitude: 1575 Longitude 2100

Company: APPALACHIAN ENERGY DEVELO ROUTE 2, BOX 499 GRAFTON, WV 26354-0499

Agent: GEORGE WILLIAMS

Inspector: MIKE UNDERWOOD Permit Issued: 01/10/94
Well work Commenced: 02-4-94
Well work Completed: 02-5-94 Verbal Plugging Permission granted on:
Rotary N/A Cable
Total Depth (feet) 2860
Fresh water depths (ft)

N/A Salt water depths (ft)

Is coal being mined in area (Y/N)? N Coal Depths (ft):_

	Casing	Used in	Left	Cement
	Tubing	Drilling	in Well	Fill Up Cu. Ft.
	Size		 	
	5 1/2	 2068	2068	 cts
i			2000 	CCS
 -	2,7/8	5020	 4986	 235 sks
, 				

OPEN FLOW DATA

Producing formation	Gordon	Pay zone depth	(ft) 2635
Producing formation Gas: Initial open flow	smellMCF/d C	Dil: Initial open flow	$0 \frac{Bb1/d}{}$
Final open flow	646 MCF/d	Final open flow	0 Bbl/d
Time of open flow	<u> petween initi</u>	ial and final tests	4 Hours
Final open flow Time of open flow Static rock Pressure	3/5# psig (s	surface pressure) after	r 48 Hours
Second producing forma		Pay zone depth	(ft)
Gas: Initial open flow	MCF/d C	Dil: Initial open flow	(ft)Bbl/d
Gas: Initial open flow Final open flow	MCF/d (Dil: Initial open flow Final open flow	Bbl/d
Gas: Initial open flow Final open flow	MCF/d (MCF/d between initi	Dil: Initial open flow	Bbl/d Bbl/d Hours

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: APPALACATIAN ENERGY DEVELOPMENT,

By:

Date:

Perforate Gordon from 2634 - 2638 with 12 holes
Frack with 50 sks 80/100, 300 sks20/40, 27,500 scf N2, 500 gal acid
395 bbls sand laden fluid

See original OG-10 for drillers log

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WR-35

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MECELVI	department of energy
FEB 1 3 1987	DEPARTMENT OF ENERGY
	Bil und Bas Bivision

Date	1-	11-	87					
Operator's								
Well	No	#	1					
Farm	Wils	son	Heirs					
APT N	5 0 47	7 _	095	- 1166-D				

DIVISION OF OIL & GAS
DEPARTMENT OF ÉNERGY
WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 910' Watershe	d Big Run of Mi	ddle Islan	d Creek	
District: Centerville County	Tyler	Quadrangle	Pennsb	oro
OMPANY Appalachian Energy Development, Inc.				
ADDRESS PO Box 902, Belington, WV 26250	_ Caşing	Used in	Left	Cement
DESIGNATED AGENT George Williams	Įα	Drilling		fill up Cu. ft.
ADDRESS PO Box 902, Belington, WV 26250	Size	D11111119	TIT HOLL	- The managed and the Control of the
SURFACE OWNER Ralph J. Underwood	20-16			
ADDRESSt.1,B 177, Pennsboro, WV 26415	Cord.			
MINERAL RIGHTS OWNER		4" 396'	396 '	
ADDRESS	9 5/8		77704	
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1118'	1118'	
Robert LowtherADDRESS Middlebourne, WV	7			-
PERMIT ISSUED 12-22-86		16" 1852'	1852'	70 sks.
DRILLING COMMENCED 12-23-86	4 1/2			
ORTHING COMPLETED 1-11-87	3		,,,,,,	005
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 7/8	<u>'</u>	4986'	235 sks.
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN NA			l	1
GEOLOGICAL TARGET FORMATION Benson			th <u>491</u>	
Depth of completed well 4950' fe				
Water strata depth: Fresh Reported for	eet; Salt_Repo	rted_feet	٠	
Coal seam depths: No Record	Is coal	being min	ed in the	e area? No
OPEN FLOW DATA				
Producing formation Combination Benso	n/Riley Pa y	y zone dep	th 4509'	/4919' feet
Gas: Initial open flow 0 Mc				
Final open flow (689,000 Mc				
Time of open flow between	initial and f	inal tests	4ho	ours
Static rock pressure 1575 psig(s	urface measure	ment) afte	r_48_ho	ırs shut in
(If applicable due to multiple compl	etion)			
Second producing formation	Pa	y zone dep	oth	feet
Gas: Initial open flow Mc				
Final open flow Mo				
Time of open flow between				
	rface measurem			_

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

PERFORATING	_	Superior	Wireline	1-27-87
DEBFORGITHG		O - F		-

Benson 4876-4919' 20 holes Avg Riley 4509-4558' 14 holes Avg

Avg. pressure 3700 # Avg. rate 14 BPM Avg. pressure 3300 # Avg. rate 16 BPM

FRACTURING - Halliburton Services 1-28-87

1st. Stage 2nd. Stage 10,000 # 20/40 sand 25,000 # 20/40 sand 5,000 # 80/100 sand 5,000 # 80/100 sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale Gordon Shale Riley Shale Benson Shale T.D.			2038' 2621' 2644' 4494' 4547' 4860' 4868'	2621' 2644' 4494' 4547' 4860' 4868' 5016'	
Town to	29.18				FEB 13 1987 DIVISION OF OIL & GAS DEPARTMENT OF ÉNERGY

(Attach separate sheets as necessary)

Appalaghian Energy Development, Inc.

Well Operator

By: Incl Lillian President

Date: February 1987

Note: Regulation 2.02(i) provides as follows:

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

FEB 1 8 1987

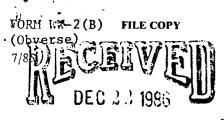
FORM WW-2B 14 0 6 94

095-1166-F essued 01/10/94

Page of

			· F	DEPAR	EMENT OF E	ENERGY, DI ORK PERMIT	VIRGINIA VISION OF O APPLICATIO	IL AND GAS N	_	
	1)	Well	Opera	tor:_	Appalachi	an Energy	م) Development	Inc. 2	325 (1) 53	
	2)	Opera	ator's	Well	Number: W	ilson Heir	s_#1	3) E	levation: 910	
593	4)					or Ga:				
18				(b)	If Gas:		n <u>XX</u> / Underg P <u></u> /	round Storac Shallo		
	5)	Propo	osed 1	arget	Formation	n(s): Gord	on 419			
	5 ·)	5) Proposed Total Depth: feet								
	7)					trata dep				
	8)	8) Approximate salt water depths: N/A								
	9)	Appro	ximat	e coal	l seam dep	oths: N/A				
	10)	Does	land	contai	in coal se	ams tribu	tary to act	ive mine?	'des/ No/	
	10) Does land contain coal seams tributary to active mine? Yes No 11) Proposed Well Work: Set frac plug and stimulate									
	Set frac plug and stimulate 12) Set frac plug and stimulate 13) Set frac plug and stimulate 14) Set frac plug and stimulate 15) Set frac plug and stimulate 16) Set frac plug and stimulate 16) Set frac plug and stimulate 17) Set frac plug and stimulate 18) Set frac plug and stimulate 19) Set frac plug and stimulate 19) Set frac plug and stimulate 10) Set frac plug and stimulate 11) Set frac plug and stimulate 12)									
	TYPE	· · · · · · · · · · · · · · · · · · ·		S	SPECIFICAT	IONS	FOOTAGE I	•	CEMENT	
				Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
	Condu	ctor		10 3/4	, +	001	1/1/m/	396	3?	
	Fresh	Wate	r			filledo	1992			
	Coal			8 5/8		Hole	1:00	1118	1.	
	Inter	media	te	5 3/16		"	160	1852	10.8pe	
	Produ	ction		2 7/8		EMON		4986	235 sks	
	Tubin	g	-			has well	Puras			
	Liner	s		1			7 2/ 6			
	PACKE		Kind_	<u> </u>	Dhow Come	nt Jacobs	for 10/1/ 3	878 M m	Completion	
		<i>^</i>	Sizes Depth						J. Jepat	
ر م	\ <u>0</u> /N	7	-	F	or Diviso	n of Oil a	nd Gas Use	Only	\bigcap_{α}	
8	1-10	Fee(s) paj	a: 42	× 1 We ll w	ork Permit	Rec	lamation Fug	d WPCP	
•	14	Plat	/#Ir	WW-9	1 ww-	2B 1 E	Sond	DELINKER	Agent	
	/		v		U	//		(Type)		

Page	1 of	1)	Date: 10 12-5-93
Form	WW2-A A A A A A	2)	Operator's well number
(09/8	Permitting Office of Oil & Cas		Wilson Heirs #1 API Well No: 47 - 0095 - 1166D
File	Office of Oil & Cas	3)	API Well No: 47 - 0095 - 1166D
	•		State - County - Permit
	STATE O	F WEST	· VIRGINIA
			VISION OF OIL AND GAS
	WORLD IND IDDITE		
	NOTICE AND APPLICA	TION F	OR A WELL WORK PERMIT
4)	Surface Owner(s) to be serve	d:	5) (a) Coal Operator:
- •	(a) Name Mary Kay Campbell		Name
	Address 48-769 Lakeview Cir	cle	Address
	East Liverpool Ohio		
	(b) Name		(b) Coal Owner(s) with Declaration
	Address		NameAddress
	(c) Name		
	Address		Name
			Address
6)	Inspector <u>Mike Underwood</u>		(c) Coal Lessee with Declaration
• ,	Address		Name
	Salem WV		Address
	Telephone (304)-782-1043		
	TO THE DEPONICI NA	אבר אם	SOVE TAKE NOTICE THAT:
	TO THE PERSON(S) NA	MED AD	OVE TARE NOTICE THAT:
_X	Included is the lease or lea	ses or	other continuing contract or
conti	acts by which I hold the rig	ht to	extract oil and gas OR
Cook	Included is the information	requir	ed by Chapter 22B, Article 1,
sect.	ion 8(d) of the Code of West	virgin	nia (see page 2) Chapter 22B of the <u>West Virginia Code</u>
I hav	ve served copies of this noti	ce and	application, a location plat, and
accor	mpanying documents pages 1 th	rough	on the above named parties, by:
	Personal Service (Affid	avit a	ittached)
	X Certified Mail (Postmar	ked po	ostal receipt attached)
	Publication (Notice of	Public	ation attached)
	I have read and understand C	hapter	: 22B and 38 CSR 11-18, and I agree
to th	ne terms and conditions of an	y perm	nit issued under this application.
	I certify under penalty of 1	aw tha	it I have personally examined and am
ramıl	llar with the information sub	mitted	on this application form and all
respo	onsible for obtaining the inf	ormati	ry of those individuals immediately on, I believe that the information
is t	cue, accurate, and complete.		
	I am aware that there are si	gnific	ant penalties for submitting false
inioi	mation, including the possib	ility	of fine and imprisonment.
	By: <u>Geo</u>		ppalachian Energy Dev. Inc.
	Its: Pre	sident	±±±4mb
	Address		of Rwellens
	<u>Grafton</u> Talanhan		7 01 +
Subso	Telephon cribed and sworn before me th	is //	04-265-4147 T day of Amulaku , 1994
		· / / /	day of Amusky, 1994
	Julian Byore	<u> </u>	Notary Public
My co	ommission expires $\frac{11/12/2}{2}$	000_	





1) Date: De	cember				19 86		
2) Operator's Well No.					,		
3) API Well No.		-095-	116	66-1)		
	State	Cor	inte	,	Dermit		

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

DEPARTMENT OF ENERGY, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL T	YPE: A (Oil	/ Ga		<u>X</u> /						
	-	=	Production		X 271 = 1	/ Undergro	und stora	ıge	/ DeepXX	_/ Shallow	/)
5) LOCATION		evation: _	910 Center		347				Middle Island		
						County: _		ler 093	Quadrangle: <u>F</u>	ennsboro 7.5'	<u>5</u> 5
		Dev	elopme	nt.	EX COI	DE: 727	7)		AGENT Georg		
Addre						, WV 2625	^	Address	P.O. Box 902		
					ngton	WV 2025			Belington, W	V 26250	
8) OIL & G	AS INSPEC Robert	TOR TO Lowth	BE NOTII	FIED			9)		ONTRACTOR:		
Name	Go		Delive	rv					user Well Ser		
Addre			urne,		26149			Address	P.O. Box 13		
							XX		Clarksburg,		
10) PROPOS	ED WELL	WORK:			_/ Drill	ueeper			/ Stimulate	/	
						n/ Pe		new formation	/		
					change l enson	n well (specify)					
11) GEOLOG				· -	000'	435	~ ~ ~ ~				
	nated depth	-	•				feet	TAT A			
	oximate tra	-				feet;	salt,	NA	feet.		
		-					Is coal be	ing mined in the	area? Yes	/ NoXX	/
15) CASING	AND TUB										
CASING OR TUBING TYPE		SPEC	CIFICATIONS Weight	}		FOOTA	AGE INTE	RVALS	CEMENT FILLUP	PACKERS	
	Size	Grade	per ft.	New	Used	For drilling		Left in well	OR SACKS (Cubic feet)		
Conductor]	3/4					396				Kinds	
Fresh water	8 5/8	ļ				1118'		`			
Coal										Sizes	
Intermediate	3/16		<u> </u>			1852'					
Production										Depths set	
Tubing	7/8			000	'			5,000'	1.000'		
Liners										Perforations:	
										Top Bottom	
· · · · · · · · · · · · · · · · · · ·											
		<u> </u>									
											-
						OFFICE US	E ONI	_Y			
						DRILLING	PERM	IT			
Permit number.		47-095	-1166-1	D					ъ.	0.0 10	
erinic number .		., 0,5	1100	<u> </u>					<u> </u>		_86_
This permit cov	ering the w	ell operato	or and well	locatio	on shown	helow is evide	nce of ne	rmission grant		ce with the pertinent lega	.1
quirements subj	ect to the c	onditions of	contained h	nerein a	nd on th	e reverse hereof	Notifica	tion must be oi	ven to the District Oil	and Cas Inspector (Peter	n re-
o. 8) Prior to th	he construct	ion of roa	ds, locatio	ns and	pits for a	ny permitted w	ork. In	addition, the w	ell operator or his con	and Gas Inspector, (Refer tractor shall notify the pr	oper
istrict on and p	gas mspecie	1 24 HOUIS	belove ac	tuai pe	illilited v	voi k iias comme	encea.)				
The permitted v everse hereof.	vork is as d	escribed in	the Notice	and A	pplicatio	n, plat, and rec	lamation	plan, subject t	o any modifications a	nd conditions specified or	n the
Permit expires]	Decemb	er 22,	1988	3	unless		. i			
crimit expires						umess	well wor	k is commenced	prior to that date and	prosecuted with due dilige	ence.
	·····	- <u>-</u> -	1		_	T	· · · · · · · · · · · · · · · · · · ·			<i>[</i>	
Bond:	Agent	: 12	Jat.	CARZ	ng	Fee WP	SE/	SEE	Other	/ /	
	12.1	3 /K	15 E	/X.	>l 3	94 1	1	100	$A \mid I \mid $	1	
			*			62	~/		// ///		
					•			11	Att		
NOTE: Keep	one copy of	this perm	it posted a	t the di	rilling lo	cation.	Diro	otor To	ision of Oil	and C	
					-		DITE	لالاس الماري	TPROU OI OII	and Gas	File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.