





IV-35



(Rev 8-81)

OIL & GAS DIVISION State of Mest Hirginian DEPT. OF MINES Gil und Gas Zivision

Date_		. 8	, 19	85		
Operat		CI	E 2			
Farm I				RT M	IRACLI	<u> </u>
API No	47	_	107	_	1308	

#### WELL OPERATOR'S REPORT OF

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	Elevation:							
•	District:_	UNION	County_	. WO	OD	Quadrangle		
OMPANY A	PPALACHIAN EN	ERGY TECHN	OLOGY, INC					<u> </u>
ADDRESS 2	188 BARCELONA	DRIVE, CL	R FL 33	54 <u>6</u>	Casing	Used in	Left	Cement fill up
ESIGNATE	D AGENT J. K	CHAPLESTON	.W. VA.	28305	Tubing	Drilling	in Well	
DDRESS_19	200- CHARLESTON	LANOITAN N	PLAZA -		Size			
SURFACE OF	WNER DONALD M	ITRACLE			20-16 Cond.			
	OUTE 2, WAVERL				13-10"			
MINERAL R	ights owner i	ONALD & RO	BERT MIRAC	LE	9 5/8			
ADDRESS_RC	OUTE 1. WILLIA	AMSTOWN, W.	VA. 2618	7	8 5/8	275'	275	SURFACE
OIL AND G	AS INSPECTOR	FOR THIS	WORK ROBINS PLEASANT E	N ON STATE	7			
	ADDRESS	MINERAL W	ELLS, W. VA	26150				
PERMIT IS	SUED 5/23	3/84			4 1/2	2750	2750	300 sk s
DRILLING	COMMENCED 7/1	1/84			3			
DRILLING	COMPLETED 7/1	13/84			2			
	ABLE: PLUGG IS PROGRESSIO				Liners			
	S PROGRESSION VERBAL PE				used			
ON								
GEOLOGICA	AL TARGET FOR	MATION	GORDON				<b>th</b> 2650	**
Dept	th of complet	ed well_	(2750)	feet I	Rotary X	/ Cabl	e T∞ls_	-
	er strata đep							
Coa]	L seam depths	}: <u></u>	NONE		Is coal	being min	ed in the	e area? NO
OPEN FLOW	V DATA							•
•	ducing format	tion	GORDON		Pa	y zone dep	th 2620	) feet
Proc		oen flow	30 <b>M</b>	cf/d	Oil: In	itial open	flow 0	Bbl/d
	: Initial or		75 V	cf/d	Fi	nal open f	low_ 0	Bb1/d
	: Initial of Final oper	n flow (	13 / M					
	Final oper	\			ial and f	inal tests	24 h	ours
Gas	Final oper	of open f	low betwee	n init				
Gas: Stat	Final oper Time	of open f	low betwee 5 psig(	n init surfac	e measure			
Gas: Stat	Final oper Time tic rock pres	of open f ssure 63 due to mul	low betwee 5 psig(	n init surfaction	e measure )	ment) afte	er 240 ho	urs shut ir
Stat - (If	Final oper Time tic rock pres applicable o	of open f ssure 63 due to mul g formation	low betwee 5 psig( tiple comp	n init surfac	e measure ) Pa	ment) afte ny zone deg	er 240 ho	urs shut ir feet
Stat - (If	Final oper  Time  tic rock pres  applicable of  ond producing  : Initial oper	of open f ssure 63 due to mul g formatio pen flow	low between 5 psig( tiple comp nM	n init surfac letion cf/d	e measure ) Pa Oil: Ir	ment) after my zone dep nitial oper	er 240 ho	rs shut ir feet Bbl/6
Stat - (If Seco	Final oper  Time  tic rock pres  applicable of  ond producing  : Initial oper	of open f ssure 63 due to mul g formatio pen flow n flow of open f	low between 5 psig( tiple compon M M Ilow between	n init surface letion lcf/d lcf/d lcf/d ln init	e measure ) Pa Oil: Ir Oil: Fi	ment) after my zone depositial open inal open in final tests	oth	feet Bbl/cours

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

PERFORATIONS 2603 - 2631 29 shots

FRAC JOB

\$ <del>{</del>} <del>{</del> { } <del>{ } </del> <del>-</del> -

1,200 bbls water

200,000 Ns

40,000 #

20/40 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
UNKNOWN UNKNOWN 1st SALT SAND 2nd SALT SAND 3rd SALT SAND MAXTON SAND BIG LIME INJUN SAND SQUAW SAND WEIR SAND BEREA SAND THIRTY FOOT SAND GORDON SAND	45 170 1317 1419 1490 1570 1628 1730 1876 2010 2240 2466 2603	50 180 1407 1450 1520 1618 1683 1854 1892 2020 2251 2514 2631	FRESH WATER SALT WATER SHOW SALT WATER SHOW SALT WATER SHOW SHOW OF GAS - SALT WATER SHOW OF GAS - SHOW OF GAS - OIL - SHOW OF GAS - OIL
		TD. 2750 Up Dev. Undeff.	2750 895 1855

(Attach separate sheets as necessary)

APPALACHIAN ENERGY TECHNOLOGY, INC.

Well Operator

By: TODD HEFTER

Date: JULY 8, 1985

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formation including

1)	MAY	15,	19 <sup>8</sup> 4
•			

2) Operator's MIRACLE # 2
Well No.

3) API Well No. 47 - 107 - 1308
State County Permit

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

#### **APPLICATION FOR A WELL WORK PERMIT**

			· vv		777	200	•				
4)	WELL TYP				~	·/					3737
		•	If "Gas",	Production	n _Д			torage		/ Shallow _	/)
5)	LOCATIO		evation:	nion	<del></del>		Watershed: _	Bull Run			
	,			nion	כויוואים	OV MEGI	County:	Wood	Quadrangle:	Willow Is	<u>sland</u>
6)	WELL OP						H., INC.	7) DESIGNATED	AGENT JOHN	KAISER	·
	Address		8 BARC				<del></del>	Address	1200 CHARLE		
		<u>CP</u>	ARWATE	R, FLC	RIDA	33546			CHARLESTON,	WEST VIRG	INIA 2530
8)	OIL & GAS			BE NOTI	FIED			9) DRILLING CO			
	Name BOI							Name <u>S &amp;</u>	B Drilling	Co.	
	Address	MI	DDLEBO	URNE,	WEST	VIRGIN	IA	Address	P 0 BOX 11	70	
				26	149				Cambridge,	Ohio 43725	<u>;                                    </u>
10)	PROPOSE	D WELL	WORK:	Drill	XX	_/ Drill	deeper	Redrill	/ Stimulate	× 2000	0000
•				Plug of	f old f	formation_	Perfora	ate new formation	1 1	)) 5 (C) 2	
				_						1190-	- 4
11)	GEOLOGI	CAL TAR	GET FOR	MATION	GO	RDON	well (specify)				2 100
	GEOLOGI  12) Estima	ted depth	of complet	ed well.	2750	)	feet			MMZ	<del>३ १५४४ -</del>
	13) Approx	-	-	· ·	100		feet: salt.	1400	feet.	010	DIVISION
	14) Approx		-	TTT	NKNOM	/N		al being mined in the		OIL & GAS	DIVISION
15)	CASING A		-							EPT. OF	MINES
•	SING OR	I		IFICATIONS		H	FOOTAGE II	NTFDVAIS	CEMENT FILL-UP	<u></u>	
	BING TYPE	-	l	Weight	r			1	OR SACKS	PACKE	K5
		Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	MEAT	
	luctor	8 5/8	API	20#	XX	-	200 275	200 275'	65 sks CT	S KANSK 6771	
	water		-	ļ			·			-	
Coal				ļ						Sizes	
	mediate	/ .	<del> </del>	·		<del>                                     </del>					· · · · · · · · · · · · · · · · · · ·
	uction	4 1/2	API	10.5	XX			2750	300 sks	Depths set	
Tubi	ng	ļ	<u> </u>	,		<b> </b>			or as	My by n	ch 15.01
Line	3									Perforations:	
										Тор	Bottom
		<u> </u>	<u> </u>			L					
	·										
						C	FFICE USE C	NLY			
						D	RILLING PE	RMIT			
D		47-	107-13	08			•		May 23	•	19 84
ern	nit number			<del></del>			•	<del></del>		ate	19 0 .
<b>Chie</b>	permit cover	ring the w	ell operato	er and well	Llocatio	an chown h	alow is avidance o	f narmission annut	d to drill in accorda		
uire	ements subject	ct to the c	onditions of	contained	herein a	and on the	reverse hereof. No	tification must be oi	ven to the District (	liice with the perti	nent legal re-
No.	8) Prior to th	ie constru	ction of ro	ads, locati	ons and	l pits for ar	y permitted work.	In addition, the we	ell operator or his co	ontractor shall noti	fy the proper
listr	ict oil and ga	as inspecto	or 24 hours	before ac	tual pe	rmitted wo	rk has commenced	l.)			
The	permitted wo	ork is as d	escribed in	the Notic	e and A	pplication,	plat, and reclama	tion plan, subject to	any modifications	and conditions spe	ecified on the
ever	se hereof.	May	23, 19	986						•	
Perm	nit expires _		<del>,</del>	<u> </u>			unless well	work is commenced	prior to that date an	d prosecuted with	due diligence.
_										•	
Bo	ond:	Agen	<i>y</i> 1	Plat:	Casin	g F	ee			ž ·	•
	الأم	//	/ / .		\ <u></u>	i	i	_			•
	10		11/2	BN	In	1 /0	12	$\mathcal{N}$	, 1,	1	
							_/	Y larga	ut I L	Jasse	
									nistrator, Office of	Oil and Gas	
TOP	E: Keep or	ne copy of	this perm	it posted a	it the d	rilling locat	ion.	$\mathcal{U}$	•	•	
											File



1)	Date:_	11	/	1			. 12. 85
2)	Operat		Mi 1	racla	#	2	

3) API Well No. 47 - 107 - 1308 Frac
State County Permit

# DIVISION OF OIL & GAS STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A O	il <u>XX</u>	/ G	s XX							
	B (1	f "Gas",	Production	n	/	/ Undergroun	d storage	/ Deep	_/ Shallow XX/)		
5) LOCATIO	N: Ele	vation:	895 1				Bull Run Cre		, Silation <u></u> /)		
.,	Dis	strict:	Union		052				Willow Island		
6) WELL OP	ERATORA	ppala	chian F	Inerg	v CODE		7) DESIGNATE	DAGENT John K	icer		
					Tech.			00 Charlestor			
1120100			Flori			<del></del>			st Virginia 25305		
8) OIL & GA					/				st Viiginia 25305		
•	len Rob			FIED			9) DRILLING C		1		
Addres:				0000	nt Esta	+			Company		
Address							Address	P.O. Box 117			
Mineral Wells, West Virginia 26150  Cambridge, Ohio 43725  10) PROPOSED WELL WORK: Drill deeper / Redrill / Stimulate XX											
10) PROPOSE	ED WELL	WORK:							/		
			Plug of	f old f	ormation_	/ Perf	orate new formation	_XX/			
			-	-	-	vell (specify)_					
11) GEOLOG											
12) Estima	ated depth of	of comple	ted well,		2750	fe	<del>e</del> t				
13) Appro	oximate trat	a depths:	Fresh, _	100		feet; s	alt <u>, 1400</u>	feet.			
14) Appro	oximate coa	l seam de	oths: <u>U</u> I	ıknow	n	ls	coal being mined in the	e area? Yes	/ No_XX/		
15) CASING											
CASING OR	1	SPE	CIFICATION	5	11	FOOTAG	E INTERVALS	CEMENT FILLUP	PACKERS		
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS	111041111		
Conductor	8 5/8	API	20	XX		75	275	(Cubic feet) 65 sks			
Fresh water	<del>                                     </del>		<b></b>					00 0	Kinds		
·	#		+		<del>  </del>						
Coal	#	<u> </u>	+	<del>                                     </del>					Sizes		
Intermediate	4 1/2	API	10.5	XX	├──-}		2750	300 -1			
Production	17 1/2	MI	10.5		<del>  </del>		2730	300 sks	Depths set		
Tubing	<b>↓</b>		<del> </del>	ļ	<b>  </b>						
Linc. s	-		<b></b>	ļ	<b></b>				Perforations:		
<del></del>	<b>_</b>		ļ	ļ	L				Top Bottom		
	ļ			<u> </u>							
				<u> </u>							
					0	FFICE USE	ONLY				
•					D	RILLING P	ERMIT				
	17-	107-1	200 T	1				_			
Permit number_	41-	101-1	308-F	rac					ember 2 1985		
		_						Da			
This permit cove	ering the wo	ell operat	or and wel	locatio	on shown be	elow is evidence	e of permission grant	ed to drill in accordar	nce with the pertinent legal re-		
io. 8) Prior to th	ect to the ct	ion of ro	comanica ads locatio	nerenn a	nits for any	verse nereory	otification must be gi	ven to the District Oil	and Gas Inspector, (Refer to itractor shall notify the proper		
district oil and g	as inspecto	r 24 hour	s before a	tual pe	rmitted wor	k has commen	ced.)	on operator or ms con	mactor shall notify the proper		
The permitted w	ork is as de	escribed in	the Notic	e and A	nnlication	nlat and recla	mation plan subject t	o any modifications a	nd conditions specified on the		
reverse hereof.					.pp <b>-u</b> ,	p.u., u	mation plant, subject t	o any mounications a	na conditions specified on the		
Permit expires _	Dec	ember	2, 1	987		unless w	ell work is commenced	prior to that date and	prosecuted with due diligence.		
								•			
,									_		
Bond:	Agent	:   1	Plat:	Casi		e WPC	P S&E	Other	•		
Co	ME	,	mut.	m	1 05	N/A	1 MW	2 1/. 1	0 -		
				- 1.7	- 1	/-		<del>///  </del> /			
								11/			
NOTE: Keep o	ne conv of	this nern	nit posted :	at the di	rilling locati	on.	- Agu	11/12/11			
			posted t				Director, Div	rising of Oil	and Gas File		
		See	the pevere	aida a	f the ADDI	ICANT'S CO	DV for instructions to	4			