



OCT 29 1982

IV-35 (Rev 8-81)



OIL & GAS DIVISION

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State of West Birginia

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Bepartment of Mines

Gil und Gas Birision

Opera	October 28, 1982
	No. 12-AC Crab Orchard
	b. 47 - 081 - 610

xixix shut in

(Continue on reverse side)

### WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIME	LATING, C	R PHYSICA	L CHANGE	
WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Undergrou	ind Storag	re/ Deep	p/ Sha	
IOCATION: Elevation: 2418' Watershed Ug				
District: Trap Hill County Rale	igh	Quadrangle	<u>Eccles</u>	7 <u>1 '</u>
COMPANY Peake Operating Company				
ADDRESS 423 Charleston Nat'l Plaza, Charleston WV 25301 DESIGNATED AGENT Floyd B. Wilcox	Casing Tubing	Used in Drilling		Cement fill up Cu. ft.
ADDRESS 423 Charleston Nat'l Plaza, Charleston, SURFACE OWNER Crab Orchard Coal & Land	Size 20-16 Cond.	20'	20'	
ADDRESS P.O. Box 443, Charleston, WV 25322	13-10"	476'	476'	
MINERAL RIGHTS OWNER Crab Orchard Coal & Land	9 5/8	7/0		
ADDRESS P. O. Box 443, Charleston, WV 25322	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Craig	7	1389'	1389'	
Duckworth ADDRESS Mt. Lookout, WV.	5 1/2	1369	1303	
PERMIT ISSUED July 1, 1982	4 1/2	3061'	3061'	
DRILLING COMMENCED September 7, 1982	3	3001	3001	
DRILLING COMPLETED September 16, 1982	2			<del> </del>
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Big Lime		Dept	h 2854	feet
Depth of completed well 3107 feet R	otary X	/ Cable	Tools	
Water strata depth: Fresh 80'/125' feet;	Salt 301	0 feet		
Coal seam depths: 590'	Is coal	being mine	ed in the	area? No
OPEN FLOW DATA				
Producing formation <u>Maxton</u>	Pay	zone dept	h <u>2608-2</u>	661 feet
(RI L May)				Bbl/d
				Bb1/d
Time of open flow because x haring	akxandxfi	<u>yadaack x keex</u>	4 hou	irs
Static rock pressure 420 (combined)	measurem	ent) after	3 5000	shut in
(If applicable due to multiple completion-	-			
Second producing formation Rig Lime				
Gas: Initial open flow 0 Mcf/d			-	<del></del>
Final open flow 220 (BL) Mcf/d				
Time of open flow between initi	al and fi	nal tests	ho	ırs

Static rock pressure 585 psig(surface measurement) after

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

10/14 - Perforated Big Lime, 22 holes (2944'-2954'). 10/15 - Acidized Big Lime: 500 gal. 28% HCl, 8,000 gal. gelled 15% HCl; breakdown pressure approx. 200 psi; fluids taken on vacuum. Instant shut in pressure 0 psi.

10/18 - Perforated Maxton (46 holes): 2608'-12' (8 holes); 2619'-23' (8 holes); 2642'-46' (8 holes); 2650'-61' (22 holes). Foam frac'd Maxton: Breakdown pressure 0 psi; average treating pressure 1600 psi; maximum treating pressure 1700 psi. 15,000# 80/100, 45,000# 20/50, 207 bbls fluid, up to 10#/gal. of sand as 75 Q foam at 7 bbls/min. 1000 gal. 15% HCl, 207 bbls. total fluid. Instant shut in pressure 1100 psi; 15 min shut in pressure 900 psi.

#### WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas			
Sand and shale Sandy Shale Princeton Shale Ravencliff Avis Sand and shale Lower Maxton Sand and shale Little Lime Pencil Cave Big Lime  DTD - 3107 LTD - 3082  Log tops from G.L.	0 1479 1602 1662 1810 1845 1880 2602 2614 2710 2807 2856	1479 1602 1862 1810 1845 1880 2602 2614 2710 2807 2856 TD	Water: 80', 1 gal./min.			

(Attach separate sheets as necessary)

Peake Operating	
Well Operator	5 W/10
By: Tloyd	B Willer
Date: October 2	3, 1982

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 inval, encountered in the drilling of a well."

FORM IV-2 (Obverse) (12-81)

TELEPHONE: (304) 348-3092



Date:	June	14	, 19	82
Operator's Well No	Çrab	Orch	ard	#12-AC
API Well No	. 47	- 081	_	0610
	State	Cou	nty	Permit

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

	OIL	AND GAS W	ELL PERM.	IT APPLIC	ATION
WELL TYPE:	Oil /	Gas X			\$ 
1		ction X/	Underground	storage	/ Deep/ Shallow <u>X</u> _/)
LOCATION:	Elevation: 24	<del></del> -			nch of Millers Camp Creek
DEATION.	District: Trai		•		Quadrangle: Eccles 7½'
WELL ODED T	OR <u>Peake Ope</u>		•		AGENT Floyd B. Wilcox
. '	•		<del>'</del>		201 Dumbar Office Park
	201 Dunbar O	•			Dunbar, WV 25064
	Dunbar, WV	23004	<del></del>	<del>*,</del>	DUMPAL: NY ZOVY
OIL & GAS ROYALTY OWN	NER Crab Orcha	rd Coal & Lan	d Co	COAL OPERA	TOR Westmereland Coal Company
Address	P. O. Box 44	3	· ·	Address	Tams, WV 25933
	Charleston, V	√V 25322			
Acreage	7882			COAL OWNER	R(S) WITH DECLARATION ON RECORD:
_ ,	TED C-1 O-1	marmila e tu			Orchard Coal & Land Company
	ER <u>Crab Orcha</u>		na Lo.		P. O. Box 443
Address	P. O. Box 443			Yadiess	Charleston, WV 25322
	Charleston, V	IV 25322	<del></del>		·
Acreage	1221				Attn: Rick Gregg
_	F MADE) TO:	72.7	ecei/	V EDESS-	
Address	N/A			-	S WITH DECLARATION ON DECORD.
,					E WITH DECLARATION ON RECORD:
OIL & GAS IN	SPECTOR TO BE N	OTIFIED C	IL AND GAS I VV DEPARTMENT	OF MINES	moreland Coal Company
	Craig Duckworth		<del></del>	, Address _	Tams, WV 25933
Address	P. O. Box 4	54		<del>-</del>	Attn: Randy Hansford
. *	Mt. Lookout.	WV 26678			
The undersign	ed well operator is ent	itled to operate for	oil or gas purpo	ses at the above	location under a deed/ lease X
other contract	/ dated	June 19 , 19	81, to th	ne undersigned v	well operator from Crab Orchard
Coal & La	nd Company case, or other contrac				
				the County Con	nmission of Raleigh County, West
	aseBook4				•
		• •	_	-	
PROPOSED W		-		•	cture or stimulate/
	_	ormation	-		
	Other physica	l change in well (	specify)	<u> </u>	
	<del></del>	· · · · · · · · · · · · · · · · · · ·			
	—planned as	shown on the wor	rk order on the	reverse side h	ereof.
	<u>-</u>			•	ny objection they wish to make or are required to
•	22-4-3 must be filed v	vith the Departmen	nt of Mines with	hin fifteen (15) (	days after the receipt of this Application by the
Department.	Daniela Amallandia - au i			_1	
		-		-	mailed by registered mail or delivered by hand to mailing or delivery of this Permit Application to
	of Mines at Charlest			re the day of the	maning of denvery of this Fermit Application to
			•		
	T COPIES OF ALL LOGS DIRECTLY	•		1	
то:				Peake	Operating Company
	A OIL AND GAS	<b>.</b>		$\mathcal{A}_{\mathcal{V}}$	Will Operator
CONSERVA SION		BLANKE	T BOND	Ву	mild D Howel
1615 WASHING? CHARLESTON,	FON STREET EAST WV 25311			Its <u>At</u>	torney-in-Fact

## PROPOSED WORK ORDER

## THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CO	ONTRAC	TOR (IF	KNOW	N)	Unkr	10WII	<del> </del>		-	
				Add	dress _	·	·			
					_					
GEOLOGICAI	TARGE	T FORM	NOITAN	, <u>B</u> :	ig Li	me				
Estimate	d depth	of comp	leted we	<sup>11</sup> ,	3209	fee	t Rotar	/ X / Cat	ole tools	_/
Approxi	mate wat	er strata	depths:	Fresh	ı, <u>_</u> 5	o feet	salt, <u>50</u>	00 feet.		
Арргохі	mate coal	seam d	epths: _5	82,8	838,	1151 Is coal	being mined	in the area? Yes	/ No	/
CASING AND				· <del>-</del>		<del></del> -			·	
<del></del>	·					·		3.4		
								. :		
CASING OR TUBING TYPE		Grade	Weight per ft	New	Used	FOOTAGE	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	(Males
Conductor	13 3/8	H-40	48#	x		30'	30'	To surface	Kinds	-4: 
Fresh Water	7"	J-55	17#	х		1400'	1400'	150 sacks as	req. rule 15	.01
Coal									Sizes	****
Intermediate								·		
Production	415"	J~55	9.5#	x		3019'	30191	300 sacks	Depths set	
Tubing	2 3/8		4.6#			30001	3,000 '			
Liners	1 3/ 5	33	1.50	-					Perforations:	
									Тор	Bottom
	ļ.,,		be st	<u> </u>						-1 <del>1.</del>
presc "Rec previ Code	ribed by lamation ously paid \$22-4-8a	Regulati Plan'', a l on the s a from th form Iv-2	on 12, o pplicable ame well ne owner shall not	r in lie to the , the fe of any be requ	eu the reclar e requ water	reof the other mation require ired by Code § well or dwell or fracturing or	security allowed by Code \$ .22-4-12a, and ling within 20 stimulating a	lation 11, (ii) a bond is wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the confidence of the propose well where fracturing Form IV-2 filed in confidence.	<ol> <li>(iii) Form IV- ion 23, (iv) unler consent required let d well.</li> </ol>	9, ss py to
<b>-</b>						·		 a		V.
THIS PERMIT						114 STED 22				
ALL PROVISION ARTICLE 4 OF								•		
APPROVED FO						_	£			
IF OPERATION										
BY	1									
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The deci	following aration u	waiver m nder Cod	nust be co le 22-4	mplete -20, if	d by th	e coal operator	and by any co issued within	al owner or coal lessee fifteen (15) days of r	who has recorde receipt thereof.	ed a
						WAIT	/ER	•		
proposed well The undersign	location. ned has n	If a mine o objecti	map exi	sts which work	ch cove propos	ers the area of	the well location at this location	the coal under this on, the well location han, provided, the well is.	as been added to	the mine man
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Date:			, 19			. File	Ву			
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