

1) Date:_

2) Operator's Well No._ 3) API Well No.

47 -081-0682 State

Permit

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

4 WELLTYPE: A Oil "Gas", Production X Underground storage Deep Shallow X 1 10 CATION: Elevation X 10 County; Nelch Quadrapide: Cacles 15 33 16 WELLOPERATOR Packer Operations County; Nelch Quadrapide: Cacles 15 33 16 WELLOPERATOR Packer Operations County; Nelch Quadrapide: Cacles 15 33 16 WELLOPERATOR Packer Operations County; Nelch Quadrapide: Cacles 15 33 16 WELLOPERATOR Packer Operations County; Nelch Quadrapide: Cacles 15 33 16 WELLOPERATOR Packer Operations County; Nelch Address 10 16 WELLOPERATOR PACKER OPERATOR PAC					AP	PLICATI	ON FOR A WI	ELL WORK PERMI	T	
B (If "Cas" Production Underground storage Deep Skallow Observed Deep Skallow Observed Deep Skallow Observed Deep Skallow Observed Deep Observed	4) WELL T	YPE: A	Oil	/ (ias X	()				
5) LOCATION: Elevation: 3.160 Waternhold, BEALL of Stephens Reach District Trapphill 7 Country; No.161 Quadrangie: Colless 33/160 MELL OPERATOR Policy Operatives (2.37/160) 7) DESIGNATED AGENT Limitory in William Address 43.5 CHR. Mariesthal Plate Address 54ME Address 70.0 Be NoTIFIED Name Redgill 6.1 MILLIAM Address 70.0 Be NoTIFIED Name Redgill 7 Name Policy 100 PROPOSED WELL WORK: Drill 40 Prill 40 Prill 40 Prill 50 Prill 5						X	/ Underground	d storage	/ Deen	Shellow X
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8) OIL & GASINSPECTOR TO BE NOTIFIED 8) OIL & GASINSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Name PARTICLE AND Address 8) OIL & GASINSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR: Name PARTICLE AND Address 10) PROPOSED WELL WORK: DILL ADDRESS A						7				
Address SALLE (HAS AV 9530) 8) OIL & GAS INSPECTOR D BE NOTIFIED Name Excluser G. Millow Name Excluser G. Millow Address Scapbed LV 85717 (D) PROPOSED WELL WORK: Drill V Drill deeper Redrill Stimulate X 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6) WELL O		D A .	The second second second	A	Co				
8) OIL & GASINSPECTOR TO BE NOTIFIED Name Pad JSEV G. Millow Address Addre		010	3 CHA			AL PL	120		SAME	ing moreon
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Plug off old formation Perforate new formation Set Set Set Offer physical change in well (specify). 12) Estimated depth of completed well, 3198 feet 7, 20, 12) Estimated depth of completed well, 3198 feet, 31, 30 approximate trata depths: Fresh, 50 feet, salt, 500 7 feet. 11, 44 Approximate coal seam depths: \$35, \$60, \$70 Is coal being mined in the area? Yes No X 14, 44 Approximate coal seam depths: \$35, \$60, \$70 Is coal being mined in the area? Yes No X 15, 50 CASING AND TUBING PROGRAM CASING OR SACKS. TUBING TYPE Store of the per fine New Used For drilling Left in well CORSACKS. TUBING TYPE Store of the per fine New Used For drilling Left in well CORSACKS. TUBING TYPE Store of the per fine New Used For drilling Left in well CORSACKS. TUBING TYPE Store of the New York Sack Store of the New York Store of the New York Sack Store of the New York S	(I) PROPOS]	V		1			
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12) Estimated depth of completed well, 2188 feet 13 Approximate trata depths: Fresh, 50 feet; salt, 500 7 feet. 14) Approximate trata depths: \$255,550 \$670 Is coal being mined in the area? Yes No X 15 CASING AND TUBING PROGRAM CASING AND TUBING PROGRAM CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS TUBING TYPE Size Grade Perf. New Used For drilling Left in well Calle fresh water coal 4 149 155 13	II) GEOLOG	ICAL TAI	CET FOR							- V O
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File	OTE: Keen or	ne copy of	this permi	t nosted o	t the deill	ing locati		Admi	histrator, Office of	Oil and Gas
See the reverse side of the APPLICANT'S COPY for instructions to the well operator 11/10/2023		торј от	perim	· posteu a	t the urill	ing locatio	л.	//		File
			See t	he reverse	side of t	he APPLI	CANT'S COPY	for instructions to	he well operator	11/10/2023

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OFFI	CE	USE	UNI	Y

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

Application received

Follow-up inspection(s)

Well work started

Completion of the drilling process

Well Record received

Reclamation completed

OTHER INSPECTIONS

Reason:

Reason:



(Rev 8-81)



DATE		
WELL NO.	32-AC	

State of Mest Mirginia API NO. 047 - 081 - 0682

Bepartment of Mines Bil and Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME PEAKE OPERATING	
Address 423 CNB PLAZA	
Telephone (304) 342-6970	
LANDOWNER CAKE STEPHENS TO	URIST DEV. SOIL CONS. DISTRICT SOUTHERN
Revegetation to be carried out by_	COMPANY CONTRACTOR (Agent)
This plan has been reviewed by_	SOUTHERN SCD. All corrections
and additions become a part of this p	lan: 4-10-85
	Dary W. Boschain (SCD Agent)
ACCESS ROAD	LOCATION
Structure ACCESS ROAD	(A) Structure DRILLING PIT (1)
Spacing ± 300' 0-2% GRADE	Material EARTHEN & UNED
Page Ref. Manual 2-14	Page Ref. Manual N/A
Structure CROSS DRAINS	(B) Structure SEDIMENT BARRIER (2)
Spacing ONE PER 200'	Material HAY BALES
Page Ref. Manual TABLE 1, P6 2-4	Page Ref. Manual
Structure DRAINAGE DITCH	(C) Structure To
Spacing EARTHEN	Material 70 7
Page Ref. Manual 2-12	Page Ref. Manual
cut and removed from the site before	regularly and repaired if necessary. At tacked and all brush and small timber to be dirt work begins.
	ZVIZIAI IQY
Lime 3 Treatment Area I	Treatment Area II
or correct to pH 6.5	or correct to pH 6.5
Fertilizer 500 lbs/acre (10-20-20 or equivalent)	Fertilizer 500 lbs/acre
Mulch HAY 2.0 Tons/acre	(10-20-20 or equivalent) Mulch HAY Z.O. Tops (agree
Seed* KY. 31 TALL FESCUE 30bs/acre	2.0 Tons/acre
ANNUAL RYEGRASS 10 lbs/acre	Seed* KY.31 TAUFESCUE 30 lbs/acre
WHITE CLOVER 3 lbs/acre	ANNUAL RYEGRASS 10 lbs/acre
	Trefoil and clovers with the proper bacterium.
anount.	PLAN PREPARED BY MICHAEL E. UH11/10/2023
NOTES: Please request landouners'	ADDRESS P. O. Box 8372
seedling for one growing season.	
Attach separate sheets as necessary for comments.	SOUTH CHAS., WV 25303
J . J . Comme	PHONE NO. (304) 744-5413

FHONE NO. (304) 744-5413

MYDIVED TOPOGRAPHIC MAP.

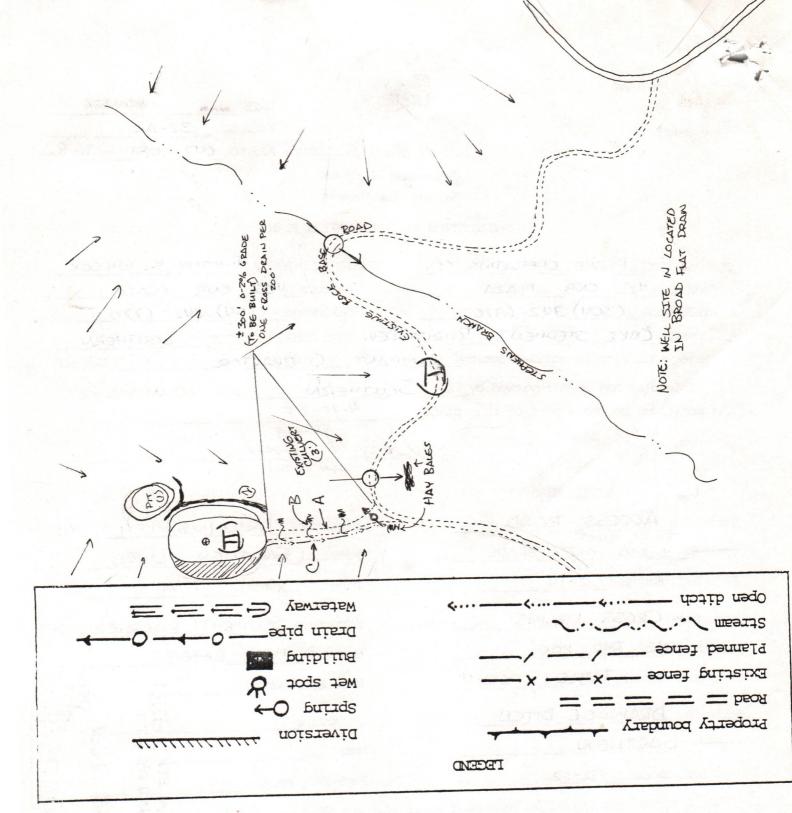
INVOLVED TOPOGRAPHIC MAP.

INTERNATION OF SECURES 71/2.

11/10/2023

MEIT SILLE BLAN

ketch to include well location, existing access road, roads to be constructed, wellsite frilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



1) Date: 2) Operator Well No. (3) API Well No.

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County

STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

	NOTICE OF APPLICATION FOR A WELL WORK PERMIT	
	NER(S) OF RECORD TO BE SERVED 5(i) COAL OPERATOR (DESTINARE LAN) COAL CO	angua
(i) Name Ak	P.O. DRAWER AN	
(ii) Name A-	HAD: ARTHUR P. SANJER NAME CRANCE Address P.D. Rox 443	SIMPAN
(iii) Name Address	Name After: Richard Gregg Address	22
	5(iii) COAL LESSEE WITH DECLARATION ON REC Name Westwork Load Complian Address Talks, WV. 259.33/	
	Atta's RANDY HANSTORD	
	TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents: (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and comenting program; (2) The plat (surveyor's map) showing the well location on Form IV-6; and (3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.	
	THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICE ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.	
NIA ::	Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or	

6) EXTRACTION RIGHTS

Seck and provide one of the following: ON File with State Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

MARCH empission expires Nos 2/57

Notary Public, KANAWHA County, State of WEST VIRGINIA

WELL Its Address 42 Telephone

M

OF MINE



INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii; iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the cath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor,	lessor, etc.	Grantee, lessee, etc.		
CRAB ORCHARD	Coxlo	PEARE Operating Co.	1/0	46/772
HAND CO.		, ,	10	- Lunion

Crab Orchard #32-P 450 Sent to Mr. Randy Hansford PS Form 3800, Feb. 1982 Street and No. Tams, WV 25933 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL Westmoreland Coal Co-Winding Gulf Division Certified Fee Return Receipt Showing to whom and Date Delivered Special Delivery Fee Postage Restricted Delivery Fee Return Receipt Showing to whom, TOTAL POSTER BOTTES A Date, and Address of Delivery Postmark of (See Reverse) Bright No 25 424 150 86 6

or stocked that the said

Lake Stephens Dev. Auth.

Street and No.
P. O. Drawer AN
P.O. State and ZIP Code
Reckley MV 25801
Attn: Arthur P. Sanda
Postage

Certified Fee

Special Delivery Fee
Return Receipt Showing to whom and Date Delivery
Date, and Address of Delivery
Feb. 1988
TOTAL Postage and Fees
Feb. 1988
TOTAL Postage and Fees
Special Delivery
Feb. 1988

RECEIPT FOR CERTIFIED MAIL

P 450 424 161
Crab Orchard #32-AC
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

(See Reverse)

No insurance coverage provided—
Not for international mail

(See Reverse)
Sent to Mr. Rick Gregg
Crab Orchard Coal & Land
Street and No.
Rm. 615, 240 Capitol St.
Rm. 615, 240 Capitol St.
Charleston, WV 25301
Postage
Certified Fee
Restricted Delivery Fee
Restricted Delivery Fee
Return Receipt Showing
To whom and Date Delivered
Return Receipt Showing
Total Postage and Fees
From Address of Delivery
Postmerk or Date

Restricted Date
Return Receipt Showing Fee
Return Retur

PS Form 3800, Feb. 1982



OIL & GAS DIVISION
DEPT. OF MINES



DEPT. OF ENERGY



State of Mest Airginia department of energy Gil und Gas Division

Date Sep	tembe	r 18.	198	35
Operator	's		1	
Well No.	Crab	Orcha	ard	#32-AC
Farm				
API No.	47_	081	_	0682

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 2100 Watershed	Stephens	Branch		
District: Trap Hill County Ralei	gh	Quadrangle	Eccles 7	.5
COMPANY Peake Operating Company				
ADDRESS Suite 423, Charleston National Plaza	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Timothy K. Wilcox	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Suite 423 Charleston National Plaza	Size			
SURFACE OWNER Lake Stephens Tourist Auth.	20-16 Cond		150409	That is
ADDRESS P. O. Drawer AN, Beckley, WV 25801	Cond. 13-10"	10	10 .	2 sacks
MINERAL RIGHIS OWNER Crab Orhcard Coal & Land	9 5/8	629	629 ≈	205 sacks
ADDRESS P. O. Box 443, Charleston, WV		025	029.2	200 Sacks
OIL AND GAS INSPECTOR FOR THIS WORK Rodney	8 5/8	1138	1138	180 sacks
Dillon ADDRESS Scarbro, W	5 1/2	1130	1130	100 Backs
PERMIT ISSUED 4/30/85			2725	150 sacks
DRILLING COMMENCED 8/12/85	4 1/2		-7-3	130 bderte
DRILLING COMPLETED 8/18/35	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			F-101 301
		Dep	th 25	02 feet
Depth of completed well 2753 feet F				
Water strata depth: Fresh 400 feet;				
Coal seam depths:		Aller IV		area?
	IS COLL	being man	ca III an	
OPEN FLOW DATA				
Producing formation Maxton				
Gas: Initial open flow 58 Mcf/d	Oil: In	itial open	flow	Bb1/c
Final open flow commingled Mcf/d	Fi	nal open f	low	Bb1/c
Time of open flow between init:	ial and f	inal tests	h	ours
Static rock pressurepsig(surface	e measure	ment) afte	rho	urs shut i
(If applicable due to multiple completion)			
Second producing formation Big Lime	Pa	y zone dep	oth1	1/10/2 년2 9
Gas: Initial open flow 13 Mcf/d	Oil: In	itial oper	flow	Bb1/
Final open flow 440 Mcf/d	Oil: Fi	nal open f	low	Bb1/
		inal tests		

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

- 9/13/85 perforated the Big Lime 2619 2633 with 26 holes Dowell acidized used 1000 gallons 28% HCL, 8000 gallons DG gelled 15% BDP 1100# ATP 400# ISIP 350# after 15 minutes 250# flushed with 100 bbl's water.
- 9/16/85 perforated Lower Maxton 2268 2320 with 56 holes set W-1 plug at 2350' Dowell used 75Q foam used 1000 gallons 15% HCL 15,000 80/100 45,000# 20/50 423,000 SCFN2, total fluid 313 bbl's BDP 1550# ATP 1350# ISIP 1125# after 15 minutes 950#.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
Sand & Shale	0	1170	Water 400' - 25gpm
Shale	1170	1275	
Sand	1275	1338	
Shale	1338	1416	
Sand & Shale	1416	1472	
*Ravencliff Sand	1472	1520	1 To
*Avis Lime	1520	1547	Gas Checks:
Shale (red)	1547	1600	1426 - n/s 1527 - n/s
Shale & Sand Streaks	1600	2200	2253 - n/s
Shale & Lime Streaks	2200	2270	2353 - 58,000 cf 2503 - 26,000 cf (32,000decr.)
Shaly Sand	2270	2338	2628 - 36,500 cf (10,500 incr.)
Shale	2338	2380	TD - 39,500 (3,000 incr)
*Little Lime	2380	2450	
Shale	2450	2502	Age to the second secon
*Big Lime	2502	TD	
*E-log Tops	an ru		
DID - 2752 LTD - 2751			
to all the	1 Fee Fe		na sili sa da et a la casa dade la casa da esta da est
	1000 61		
	V.	Marie Marie	

(Attach separate sheets as necessary)

Well operator

Date: Sent. 181955

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 wal, encountered in the drilling of a well."

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

INSPECTOR'S WELL REPORT

Permit No. 081-0682 Oil or Gas Well_ CASING AND USED IN LEFT IN PACKERS Peake Charleston Size Kind of Packer___ Ake Stephens Deu Size of___ ____County BAleigh 81/4_ 65%__ Depth set___ Drilling commenced_ 5 3/16__ Drilling completed_____Total depth_ Perf. top____ _____Depth of shot Date shot_ Perf. bottom____ Liners Used Perf. top____ Initial open flow_____ _/10ths Water in___Inch Perf. bottom_ Open flow after tubing /10ths Merc, in Inch CASING CEMENTED 998 SIZE 630'No. FT. Volume_ Cu. Ft. NAME OF SERVICE COMPANY Rock pressure__ lbs. Dowell hrs. _bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT_ FEET_ _INCHES feet feet FEET INCHES FEET INCHES Salt water_ feet FEET INCHES_ INCHES Keen Rig # 2 Remarks: BUN 630' 95/8 CASING CEMENT TO SURFACE With 2055Ks. West

8/15/85 DATE B. Dillon 11/10/2023

DISTRICT WELL INSPECTOR

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

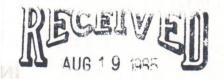
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY	2 10		ADDRESS			42 19
ARM		DISTRICT .	C	OUNTY	1.00	Sec. Spirite
	The second secon				r (C)	
lling Material Used						
Loc	nation	Amou	int Packer	Loc	ation	
ner Loc	ND DEPTH PLACED	Alliou	BRIDGES	_	of the second section	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	CASING AND TUBING RECOVERED SIZE LO		
CEMENT-THICKNESS	WOOD-312E	LLAD	CONCINCOTION 2001			
			UNHING			
	1					
					9 - 13	
			Carlo S			
		100 100 100	The second secon			
			100000000000000000000000000000000000000			
merco Inst	The second secon					gaz podrej
	P. 32.8 - 27. K.	L ZTELVO	William of the land of the			
	A YZATOS		TO BE SEED TO SEED THE SEE		and the Control of th	231911
The second secon	and the property of the second			4 .		
Marie Commence Control	The Carrier	TOWN A	or Jackson of the page.			
Orillers' Names				1000		1-2
Orillers' Names						
			And the second s			
Remarks:						
	I hereby certify I v	isited the above	well on this date.			
DATE						

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT DEPARTMENT OF ENERGY

Permit No. 081-0652		*	Oil or Gas Well			
Company Peake	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACK	ERS	
Address_ Charleston	Size				u Wamilia	
Farm Lake Stenheus Deu.	16		THE I	Kind of Pacl	cer	
Well No. 32 AC	13	2	PHILIPEDIA PAGEOW	Size of	in Ma	
District Trap Hill County Baleigh	81/4			Size oi		
Drilling commenced 8-12-45	65/8			Depth set_		
Drilling completedTotal depth	5 3/16			Perf. top		
Date shotDepth of shot	2			Perf. bottom		
Initial open flow/10ths Water inInch	Liners Used			Perf. top		
Open flow after tubing/10ths Merc. inInch				Perf. bottom		
VolumeCu. Ft.	CASING CEMEN	TED	SIZE	No. FT	Date	
Rock pressurelbs,hrs.	NAME OF SERV	VICE COMPA	NY			
Oilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	_INCHES	
Fresh waterfeetfeet	FEET_	INCH	ES	FEET	_INCHES	
Salt waterfeetfeet	FEET_	INCH	ES	FEET	_INCHES	
Drillers' Names Keen Rig #2					advane8	
Remarks: Drilling on Air	SCAP 1	Hole A	9+ J	10' (/.	7 1/4 hol	

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY	6 183		ADDRESS	23016	176		
ARM	et e cente e recente e reconstruir de la construir de la const	DISTRICT		COUNTY	apir-re-ress		
	Let State 1	E		31		400	
lling Material Used							
ner Loc	ration	Amoun	t Packer	Loc	ation		
Marie Carlo Ca	ND DEPTH PLACED		BRIDGES	7	G AND TUI	BING	
CEMENT-THICKNESS WOOD-SIZE		LEAD	CONSTRUCTION-LOCATION	RECOVERED			
3/4-9816							
	A service of the serv						
See Migolie							
					us st.	-3	
Control Erest	and the state of t						
			for a war nersy	-d 111		erre tiga.	
and the second second second second	The second secon			24 37			
Alexander TS 68	SXE	_ NSTREET D	DMITA C. NOLLEY -				
	YMAST		TAS ATO		Company of the second	ART PAGE	
HOVETEXT	77A 0 117	10000000	1 AO 1 - 12 2 Med				
Orillers' Names	237010						
HOWLTEET.	23H017	30,00	1 4.33			A constant	
Remarks:							
	I hereby certify I v	isited the above w	rell on this date.				
	I HOLOUT COLUMN I						

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS WELLS DIVISION



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

INSPECTOR'S WELL REPORT

Permit No. 081-0682			Oil or Gas Well						
Company Deake	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACK	ERS				
Address Charleston	Size								
Farm LAKE Stephens Des.	16			Kind of Paci	cer				
Well No 32 AC	10			Size of					
District Trop Hill County Raleigh	81/4								
Drilling commenced	5 3/16			Depth set					
Drilling completed 8-17-85 Total depth 2753	3			Perf. top					
Date shotDepth of shot	2			Perf. botton					
Initial open flow/10ths Water inInch	Liners Used			Perf. top Perf. botton					
Open flow after tubing/10ths Merc. inInch VolumeCu. Ft.	CASING CEME	ENTED 47		OWELL	Date				
Rock pressure lbs. hrs.									
Oilbbls., 1st 24 hrs.				_FEET					
Fresh waterfeetfeet	FEET	INC	HES	_FEET	INCHES				
Salt water feet feet	FEET	INC	HES	FEET	INCHES				
Drillers' Names Keen Big # 5									
Remarks: TD Hole 275. Run 41/2	3 '								

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY

OIL AND GAS WELLS DIVISION

DIVISION OF OIL & GAS REPARTMENT OF ENERGY INSPECTOR'S PLUGGING REPORT

		ADDRESS										
ARM		DISTRICT COUNTY										
ling Material Used			4.000	2	168 15							
ner Loc	cation	Amou	nt Packer	Location								
PLUGS USED A	ND DEPTH PLACE		BRIDGES	CASIN	G AND TUI	BING						
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST						
			Maliender Jane									
		- V										
			2723									
2												
rillers' Names												
emarks:			* + :	1.								

DISTRICT WELL INSPECTOR

API# 47 081 - 0681

LIST ALL VISITS FOR THIS PERMIT

	2	Seen Drille	ny Rug I
DATE	TIME	PURPOSE	COMMENTS
	Ta -		
7-18	Buld	nig location	
and the same	1900000	y war	
0 -		1	
8-13	Doan	hole at	510.
	10		
8-15	2	(.5.1. 6.11	
8 12	Kun	(130 95/8 C	75 205 sks.
	4		
1-1-26	location	i Dielemi	Scs liming site
1	- Co Curry	· ransumur	SCD Summy Bile
11			
4-25	1 OCATION	Seeded	
5	0	. 0	
3-14	Not Ken	dy for Rela	+5C
to the property of			

Notes

INSPECTOR'S PERMIT SUMMARY FORM

4-30-85

WILL TUDE 6.4		ADI# 47-	081 - 06	087
WELL TYPE GOS			rake	
ELEVATION 3/00			ape	
DISTRICT Jrap Pla	TELE	PHONE 6	Stephens 1	. ()
QUADRANGLE Eccles				Ju.
COUNTY Raleigh	WELI	. #	2-AC	
SURFACE OWNER Lake	Stephens COMMENTS	8	TELEPHON	E
TARGET FORMATION			ECEIVED	
DATE STARTED LOCATION 7/85	NOTIFIED 970	DRI	LLING COMMEN	CED 8-12-8
WATER DEPTHS	77 30	115		
COAL DEPTHS		,		
				11.10
	CASING			
Ran 630 feet			with C75	fill up
	of <u>4'/2</u> "pipe			
Ranfeet				
Ranfeet				
Rail1eet	JI PIPC	J11		- GY
TD 2753' feet	on_8/17/85		DETA-	IND GAS
	PLUGGIN	IG.	JUN	2 1986
Typo	From	То	Pipe	Removed
Type	FIOII	10	1100	, itemoved
,				
Pit Discharge date:_	Tyne		****	
			c1	
Well Record received		74.		
Well Record Tecerved				
Date Released 5	TC - K1			
Date Released	T 1 0 50		0.	
		4/	Illand	11/10/2023
		Inspecto	r's signatur	e

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

THE	1				
 API well number: (If not assigned, leave blank. 14 digits.) 	1	4	7 - 081	- 0682	
2.0 Type of determination being sought:					
(Use the codes found on the front	1		07	6	
of this form.)	1	Sectio	n of NGPA Cat	egory Code	
3.0 Depth of the deepest completion					
location: (Only needed if sections 103	1		2753	feet	
or 107 in 2.0 above.)	1				
4.0 Name, address and code number of					
applicant: (35 letters per line	I PEAK	E OPERATING CO	MPANY		
maximum. If code number not	Name				Seller Code
available, leave blank.)	1 423 (CHARLESTON NAT	IONAL PLAZA		
available, leave blanking	Street				
	CHARI	LESTON	W. VA	25301	
	City		State	Zip Code	
5.0 Location of this well: [Complete (a)					
or (b).]	TRAP	HILL DISTRIC	Τ		
(a) For onshore wells	Field Nar				
(35 letters maximum for field	RNEX	L L	w	_	
name.)	County		State		
(b) For OCS wells:					
(b) For OC3 Wells.	. 1				
	Area Nam	ne		Block Numb	er
	!				
•	1	Date	of Lease:		
		1 1 1	1 1 1 1		
	1	Mo.	Day Yr.	OCS Lease Number	
(c) Name and identification number	1	,			
of this well: (35 letters and digits	COAR	ORCHARD #	32.AC		
maximum.)	1	UNCHAND			
(d) If code 4 or 5 in 2.0 above, name	-				
of the reservoir: (35 letters	MAXT	2 47			
maximum.)	1 21221	<i>D</i> 10			
6.0 (a) Name and code number of the					
purchaser: (35 letters and digits	1				
maximum. If code number not	N.	/A			
	Name				Buyer Code
available, leave blank.) (b) Date of the contract:	1 110				
(b) Date of the contract.	!		11111	1.1	
			The state of the s	Yr.	
(c) Estimated total annual production	i				
from the weil:	1		20	Million Cubi	c Feet
Trom the vien.	!	_			
				(c) All Other	(d) Total of (a),
		(a) Base Price	(b) Tax	Prices [Indicate	(b) and (c)
				(+) or (-).]	
7.0 Contract price:		1		1 × 1 = 1	
(As of filing date. Complete to 3	I S/MMBTU	N/A			
	1				
decimal places.)					
8.0 Maximum lawful rate:	S/MMBTU	6048	0.756		6.804
(As of filing date. Complete to 3	1 S/MINIB I O	6.048	0.70		
decimal places.)	<u> </u>				
9.0 Person responsible for this application:		mothy K. Wilco	Y	Land Ma	anager
Agency the Orby	Name	///	•	Title	
Agency Use Only	1	MIK MI	4	·	
Date Received by Juris. Agency OCT - 3 1985	Signatur	00 //			
		MBER 24,1985		(304) 34	2-6970
Date Received by FERC		plication is Completed		Phone Norther	
	I Date Ap	Pircation is completed			

te Received

STATE OF WEST VIRGINIA 4887-48 DEPARTMENT OF MINES, OIL AND GAS DIVISION

OCT 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

te: SEPTEMBER ZY, 1985	AGENCY USE ONLY
plicant's Name: PEAKE OPERATING COMPANY	WELL DETERMINATION FILE NUMBER
dress: 423 CHARLESTON NATIONAL PLAZA	851003 -1076-081-0682
CHARLESTON, WEST VIRGINIA 25301	
s Purchaser Contract No	Use Above File Number on all Communications Relating to This Well
te of Contract /// (Month, day and year)	
rst Purchaser: N/A	Designated Agent: Timothy K. Wilcox
	Address: 423 Charleston National Plaza
(Street or P.O. Box)	Charleston, West Virginia 25301
(City) (State) (Zip Code) RC Seller Code	FERC Buyer Code
ME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNI ADDRESSED:	NG THIS APPLICATION SHALL
Name: Timothy K. Witcox Signature: Willow Mulos	Land Manager (Title)
Address: 423 Charleston National F (Street or P.O. Box) Charleston, West Virginia (City) (State) Telephone: 304 342-6970 (Area Code) (Phone N	25301 (Zip Code)
(Certificate of Proof of Service to Purcha	
. NGPA Catagory App	
PA SECTION/SUBSECTION	
2 New Natural Gas 102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir 3 New Onshore Production Well 103 New Onshore Production Well Thigh Cost Natural Gas	108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Buildup
107-0 Deep (more than 15,000 feet)	AGENCY USE ONLY
107-1 Geopressured Brine 107-2 Coal Seams	
107-3 Devonian Shale 107-5 Production enhancement	
107-6 New Tight Formation 107-7 Recompletion Tight Formation	QUALIFIED
DECINICIEM	11/10/2023
OCT - 3 1985	
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY	

Determination Date

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date SEPTEMBER 24 . 1985

Operator's
Well No. CRAB ORCHARD #32-AC

API Well No. 47 - 081 State County

WELL CLASSIFICATION FORM HIGH COST GAS WELL-NEW TIGHT FORMATION MGPA Section 107

	DESIGNATED AGENT _ Timothy K. Wilcox
	ADDRESS Suite 423 Charleston National Plaza
	Charleston, WV 25301
WELL OPERATOR <u>Peake Operating Co.</u>	LOCATION: Elevation 2/06'
ADDRESS <u>Suite 423 Charleston Nati</u>	onal Plaza Watershed STEPNEWS BRANCH
Charleston, WV 25301	Dist TRAP NIL County LOLETGH Quad GCL63 7.5
GAS PURCHASER N/A	Contract No. N/A
ADDRESS	
	Meter Chart Code Date of Contract N/A
w w w w w	**** * * * * * * * * * * * * *
Date surface drilling began: AUGUS	12,1985
Indicate the bottom hole pressure of the	e well and explain how this was calculated.
BHP = Pe (GD/53.34 T)	P = Wellhead Pressure= 350
	G = Specific Gravity= ,58
	D = Depth to Midpoint of Perforations= 2294
BHP = 366.5	T = Average Temperature (K°) = 54,
	AFFIDAVIT
produced from a designated tight formation	, having been first sworn according to law, state that, surface ination is sought was begun on or after July 16, 1979, the gas is being and I have no knowledge of any information not described in the application that the well qualifies as a high cost natural gas well.
	경험에 되고 있다. 그렇게 되었다니 그는 그리고 있는 그 그리
STATE OF WEST VIRGINIA.	
COUNTY OF KANAWHA TO WIT:	
I. ROGER PRITT	, a Notary Public in and for the state and county aforesaid.
do certify that TIMOTHY K. WILLOX	whose name is signed to the writing above, bearing date
	∑
aforesaid.	
	ficial seal this 247 day of SEPTEMBER. 1985.
My term of office expires of	on the 17Th day of OCTOBER . 1985.
	Roge Putt
[NOTARIAL SEAL]	

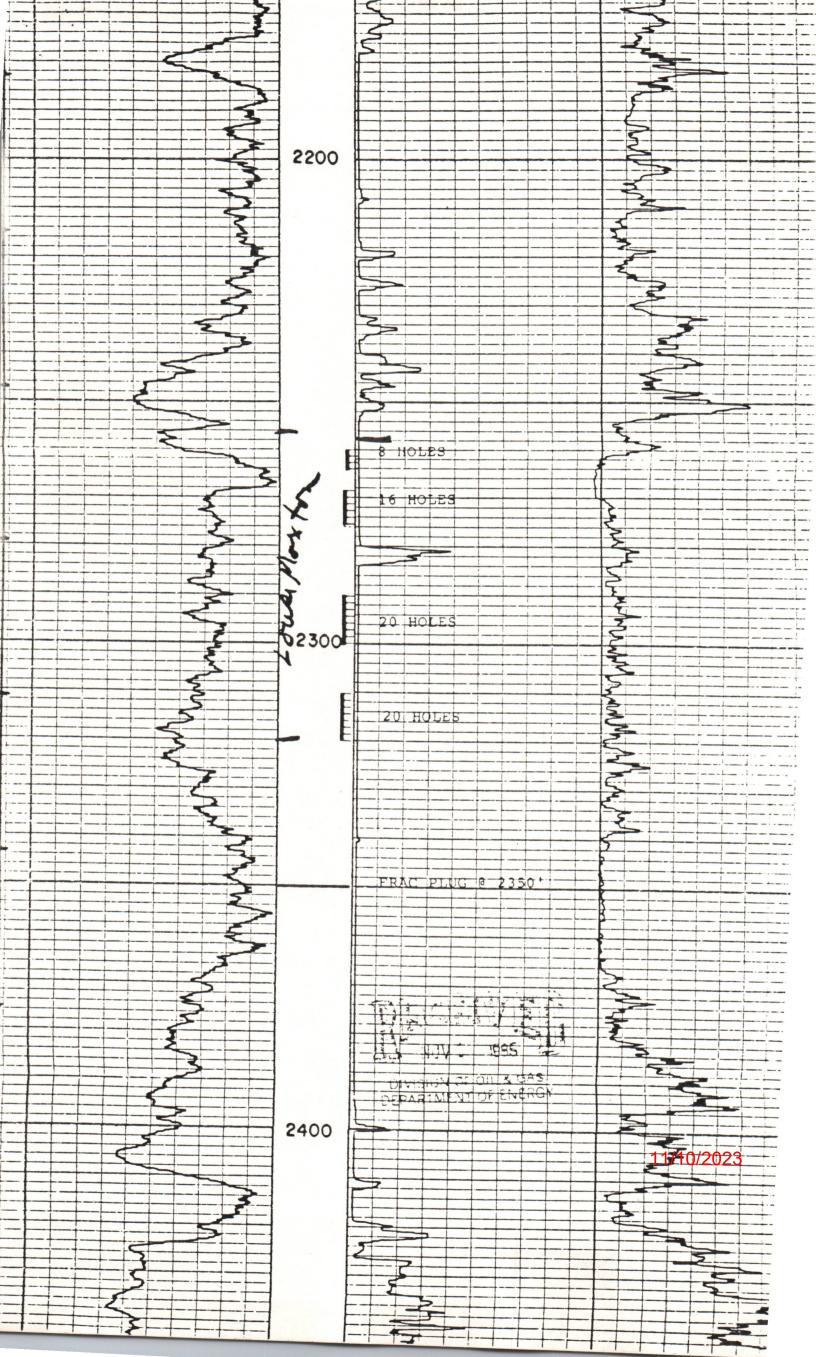
I WicCullough

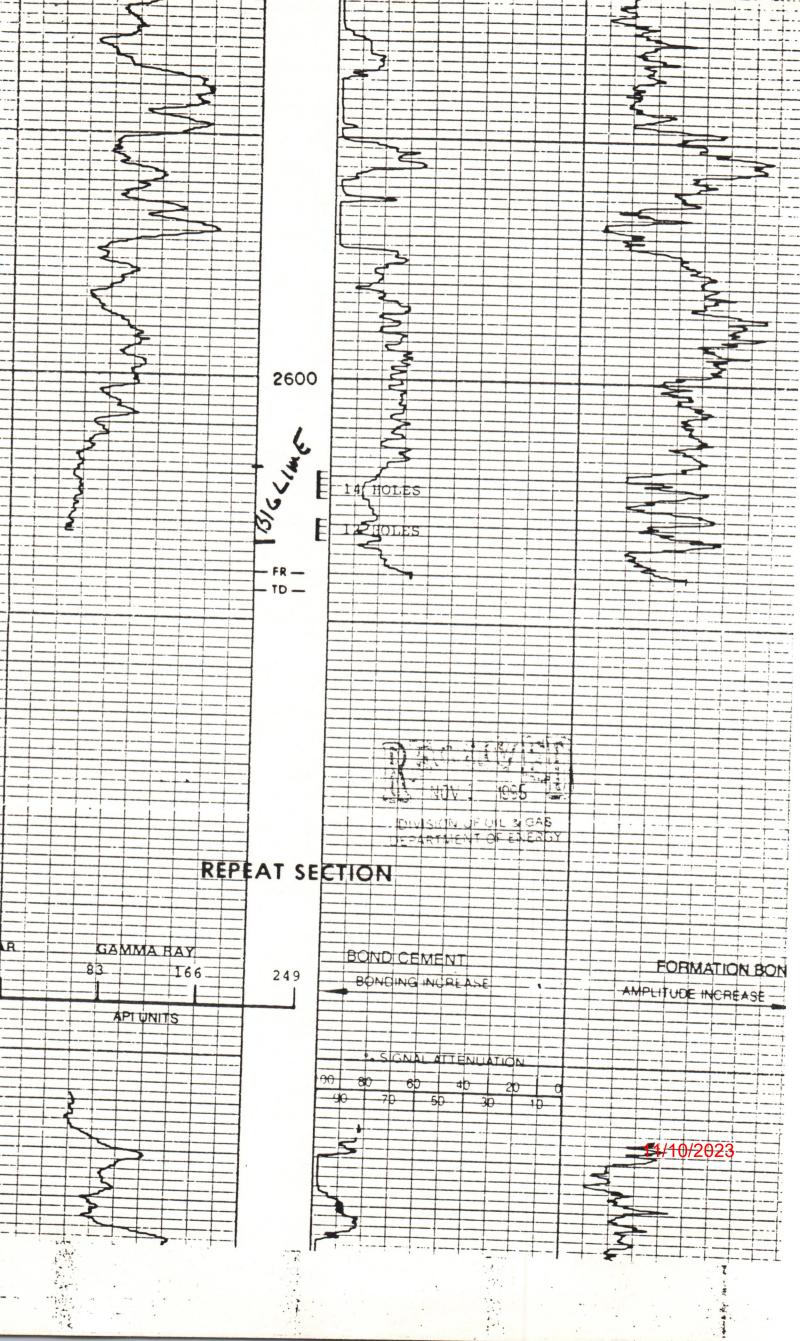
BOND CEMENT AND-OR SONIC SEISMOGRAM LOG

GAMMA RAY

FILING NO.	COMP	PI	EAKE OF	PERATI	NG COMP	ANY							
	WELL	#	# 32-AC										
	FIELD	T											
	COUN	ryRA	wv										
	LOCA	TION	The second secon	to a settle sett		OTHER SERVICES							
		EC	CCLES 7	.5'									
	SEC.	TW	VP.	RGE	Ξ.	ELEVAT	ONS:						
PERMANENT DATUM						кв. 210	3'						
LOG MEASURED FROM	K	.B. 1' A	ABOVE F	.D.									
DRILLING MEASURED	FROM					GL 210	0'						
DATE		9-13-85	5										
RUN NO.		ONE											
YPE LOG		GAMMA F	RAY/BON	ID CEM									
EPTH - DRILLER		2753'											
EPTH-LOGGER		2644'											
OTTOM LOGGED INTE	RVAL	2640'											
OP LOGGED INTERVA	L	900'											
YPE FLUID IN HOLE		WATER											
SALINITY PPM CL.		-											
DENSITY LB /GAL		-											
LEVEL		FULL		. 11 -000-1-12	to note to be a realized by the state of the state of								
AAX. REC. TEMP. DEG.	F.												
PR. RIG TIME		2 HRS.											
ECORDED BY		G. ATKI											
VITNESSED BY		MR. LIE		Œ		I							
DISTRICT:		BUCKHAN	1NON		and the state of t								
UN BORE HO	DLE REC	ORD		1	CASING RE	CORD							
NO BIT FRO		TO	9128	WGT.	FROM	I amount and a second							
ONE 6 1/2" 111	18'	2753'	7"	17#	SUR	F. 111	8'						
			4 1/2	" 10.	5# SUR	F. T.	D.						

DIVISION OF DIL & GAS
DEPARTMENT OF ENERGY





APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

	11402					
	API well number: (If not assigned, leave blank. 14 digits.)		_ 4	7 - 081	- 0682	
	Type of determination being sought:	-				
	(Use the codes found on the front		/	07	6	
	of this form.)	i	Sectio	n of NGPA C	ategory Code	
3.0	Depth of the deepest completion					
	location: (Only needed if sections 103			275 3	feet	
	or 107 in 2.0 above.)	1				
4.0	Name, address and code number of	i				
	applicant: (35 letters per line	PEAK	E OPERATING CO	MPANY		
	maximum. If code number not	Name				Seller Code
	available, leave blank.)	423	CHARLESTON NAT	IONAL PLAZA		
		Street			05001	
			LESTON	<u>W. V</u>		
		City		State	Zip Code	
5.0	Location of this well: [Complete (a)	1 2000	ILILL ALTO	CT		
	or (b).]	Field Na	WILL DISTRI	Ci		
	(a) For onshore wells	ROLET	127	w		
	(35 letters maximum for field		GA	State		
	name.)	County		Otott		
	(b) For OCS wells:	i				
		Area Nan	ne		Block Numb	er
		!				
•	,	1	Date	of Lease:		
		1	111	1111		
		1	Mo.	Day Yr.	OCS Lease Number	
	(c) Name and identification number	1				
	of this well: (35 letters and digits	CRAB	ORCHARA	#32-AC		
	maximum.)					
	(d) If code 4 or 5 in 2.0 above, name					
	of the reservoir: (35 letters	B16	LIME			
	maximum.)					
6.0	(a) Name and code number of the					
	purchaser: (35 letters and digits	1				
	maximum. If code number not	1	V/A			
	available, leave blank.)	Name				Buyer Code
	(b) Date of the contract:	i				
		!		Mo. Day	Yr.	
		-		NO. Day	11.	
	(c) Estimated total annual production	i		20	Million Cubi	c Feet
	from the well:	1	-			
		+			(c) All Other	(d) Total of (a),
		1	(a) Base Price	(b) Tax	Prices [Indicate	(b) and (c)
		!	10, 000 1110		(+) or (-).]	(b) and (e)
7.0	Contract price:					
7.0	(As of filing date. Complete to 3	I S/MMBTU	N/A			
	decimal places.)					
80	Maximum lawful rate:					
0.0	(As of filing date. Complete to 3	S/MMBTU	6.048	0.756		6.804
	decimal places.)	1	<u></u>	£		
9.0	Person responsible for this application:					
		Ti	mothy K.7 Wilco	х ,	Land Ma	nager
	Agency Use Only	Name	1.1/1/10	Wilcon	Title	
Dat	e Received by Juris. Agency	1 = 1	nretty 1.	100 cod		
	OCT - 3 1985	Signatur			(304) 342	2-6970
Date	e Received by FERC		MBER 30,148	5	Phone Nymte/	
1		Date Ap	plication is Completed		Friond Manipel	2020

FERC-121 (8-82)

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

ediek sheer, sinte hiteration	TON HELE CEASSITICATION								
te: SEPT. 30 ,19 85 37100	AGENCY USE ONLY BL + MAXIO								
plicant's Name: PEAKE OPERATING COMPANY	WELL DETERMINATION FILE NUMBER								
dress: 423 CHARLESTON NATIONAL PLAZA	851003 -1076-081-0682								
CHARLESTON, WEST VIRGINIA 25301									
s Purchaser Contract No. N/A	Use Above File Number on all Communications Relating to This Well								
te of Contract W/A (Month, day and year)									
rst Purchaser: N/A 9629	Designated Agent: Timothy K. Wilcox								
	Address: 423 Charleston National Plaza								
(Street or P.O. Box)	Charleston, West Virginia 25301								
(City) (State) (Zip Code) ERC Seller Code	FERC Buyer Code								
AME AND TITLE OF PERSON TO WHOM QUESTIONS CONC E ADDRESSED:	ERNING THIS APPLICATION SHALL								
Name: Timothy K. Wileax (Print) Signature:	Land Manager (Title)								
Address: 423 Charleston Nation (Street or P.O. Box Charleston, West Virg (City) (State Telephone: 304 342-6 (Area Code) (Pho) inia 25301) (Zip Code)								
(Certificate of Proof of Service to Pu	rchaser)								
. NGPA Catagory	Applied For								
GPA SECTION/SUBSECTION									
102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir 103 New Onshore Production Well 103 New Onshore Production Well	108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Buildup								
07 High Cost Natural Gas	AGENCY USE ONLY								
107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine 107-2 Coal Seams 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation 107-7 Recompletion Tight Formation	QUALIFIED								
DIVISION OF OIL & GAS	11/10/2023								
DEPARTMENT OF ENERGY									

ate Received

Determination Date

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date SEP TEMBER 30 . 1985

Operator's Well No. CRAB ORCHARD #32-AC

API Vell
No. 47 - 081 - 0682
State County Fermit

WELL CLASSIFICATION FORM HIGH COST GAS WELL—NEW TIGHT FORMATION

MGPA Section 107

	DESIGNATED AGENT _ Timothy K. Wilcox
	ADDRESS Suite 423 Charleston National Plaza
	Charleston, WV 25301
WELL OPERATOR Peake Operating Co.	LOCATION: Elevation 2100'
ADDRESS Suite 423 Charleston National Pla	AZA Watershed STEPHEN'S BRONCH
Charleston, WV 25301	Dist TROP NILL County POLETSH Quad les
GAS PURCHASER N/A	Gas Purchase
ADDRESS	Contract No. N/A
246	Date of Contract N/A
and the second of the second o	* * * * * * * *
Date surface drilling began: ADGUST 12,19	185
Indicate the bottom hole pressure of the well and	
	Carlotte and a second control of the
BHP = Pe (GD/53.34 T)	= Wellhead Pressure= 480
G	= Specific Gravity= .58
D	= Depth to Midpoint of Perforations= 2294'
T	= Average Temperature (K°) = 539°
BHP = 502.7	
AFF	IDAVIT
drilling of the well for which this determination is produced from a designated tight formation and I have cation which is inconsistent with a conclusion that the state of th	wing been first sworn according to law, state that, surface sought was begun on or after July 16, 1979, the gas is being no knowledge of any information not described in the applithe well qualifies as a high cost natural gas well.
STATE OF WEST VIRGINIA.	
COUNTY OF KANAWHA TO WIT:	
	ary Public in and for the state and county aforesaid,
do certify that TIMOTHY K. WILLOX hose nam	
the 2ND day of OCTOBER, 1985, has	acknowledged the same before me, in my county
aforesaid.	
	1 this No day of OCTOREA . 1985.
My term of office expires on the 17	May of OCTOBER, 1985.
[NOTARIAL SEAL]	Roger Public

1797	de serie	***		11 788		ONING		(Manageria)				The state of					· ·	sirensi	Indian	Policy									St. Control bearing
	1				OTHER SERVICES	ELEVATIONS	кв. 2103	GL 2100'		80	A NO		∞ .	, a	NA	DNI			\$1 H	1			Andre Mercale de Carte de Cart		0	10	1118'	T.D.	103
VACAMOD COMPANY			ICT	STATE	0				_		L														CASING RECORD	FROM	SURF.	SURF.	
CEDATING			L DISTRICT	. ST	7.5'	RGE	2100'				ND CEMENT	^											RE		CAS	WGT	17#	/2" 10.5#	+
10 22 42	EANE OF	32-AC	TRAP HILL	RALEIGH	ECCLES 7.5'	TWP	ELEV.	1	5		RAY/BGND											INS	MR. LIBERATORE	NONN		SIZE	7"	4 1/	
t c		#					D LEVEL	- Daniel	9-13-85	ONE	GAMMA	2753'	2644	2640'	1006	WATER	1	1	FULL	1	2 HRS.	G. ATKINS	MR. LI	BUCKHANNON	RECORD	TO	2753'		
	COMPANY	WELL	FIELD	COUNTY	LOCATION	SEC.	ROUN	1						INTERVAL	ERVAL	LE	CL.	SAL.		DEG. F.				CT:	BORE HOLE RE	FROM	1118'		
NO.							PERMANENT DATUM G	DRILLING MEASURED FROM		0.	90	DEPTH-DRILLER	DEPTH-LOGGER	BOTTOM LOGGED INTERVAL	TOP LOGGED INTERVAL	TYPE FLUID IN HOLE	SALINITY PPM CL	DENSITY LB./GAL	LEVEL	MAX. REC. TEMP. C	OPR. RIG TIME	RECORDED BY	WITNESSED BY	DISTRICT:	BOR	TIE	6 1/2"		+
FILING NO				Matter Anne contament for the contame			PERMA	DRILLI	DATE	RUN NO	TYPE LOG	DEPTH	DEPTH	ВОТТО	TOP LC	TYPE F	SAL	DE	LE	MAX. R	OPR. R	RECOR	WITNE		NUN	NO	ONE		

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BOND CEMENT AND-OR SONIC SEISMOGRAM LOG

No Culoudh

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11/10/2023

JV : 1985

DIVISION OF DIL & GAS DEPARTMENT OF ENERGY

