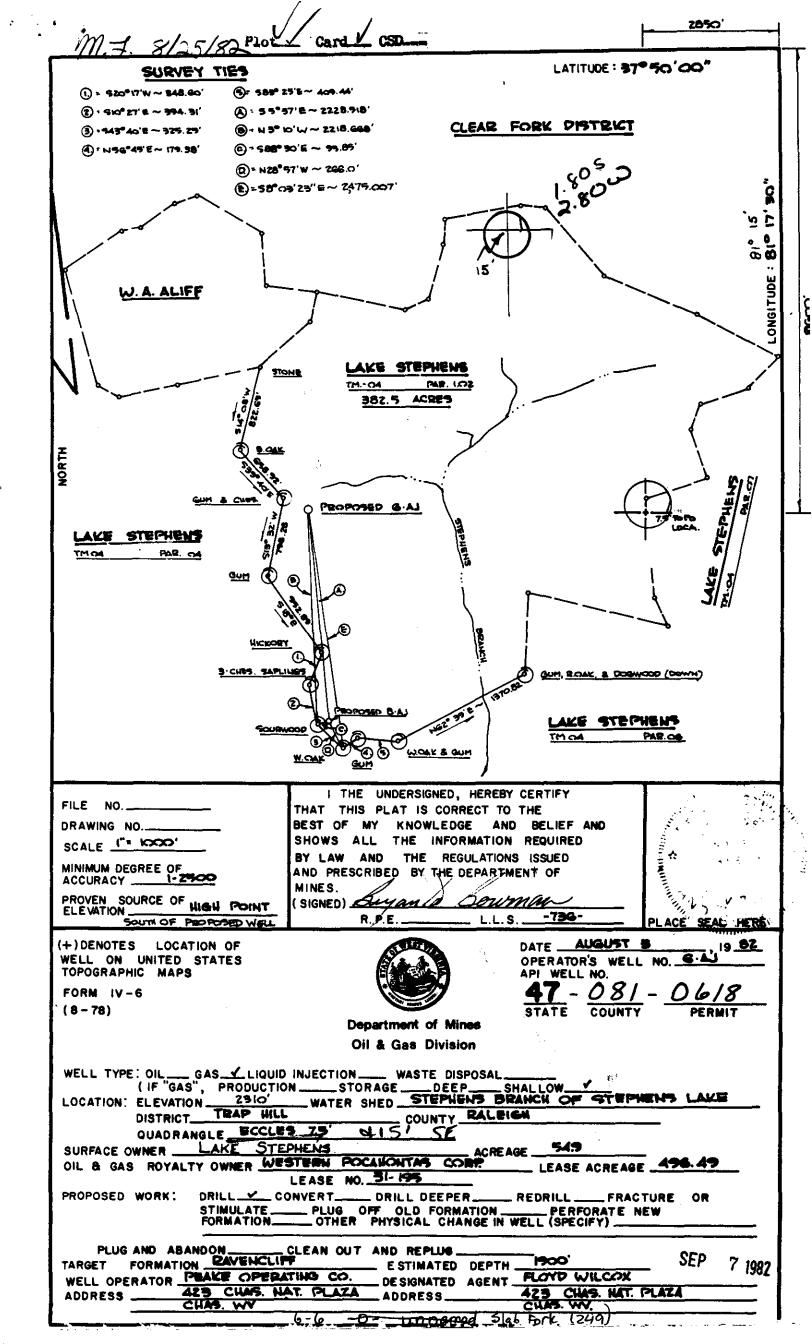


ALLEN BILIEPRINT CO DWWD 6-6 STRANGE (0) Slab Fork (249) Charleston WV







DEPARTMENT OF ENERGY

State of West Virginia **DIVISION OF OIL & GAS**

DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Operator's Well No: JONES & GIBSON 6AJ arm Name:LAKE STEPHENS DEVL.

OCATION:

Elevation: 2345.00

Quadrangle: ECCLES 7.5

DATE: 20-MAY-87

API # 47-081-0618-frac

County: RALEIGH District: TRAP HILL Latitude: 9600 Feet South of 37 Deg. 50 Min. 00 Sec. Longitude: 2850 Feet West of 81 Deg. 17 Min. 30 Sec.

ompany: PEAKE OPERATING COMPANY

CHARLESTON, WV 25301	 &	Used in Drilling	in	Fill Up
gent: Thomas S. Liberatore				
aspector: RODNEY G. DILLON	12 3/4"	. ,	25'	Ì
ell work Commenced: 05/14/81 ell work Completed: 05/16/87 erbal Plugging ermission granted on:	9 5/8"	1		
tary X Cable Rig tal Depth (feet) 2530' esh water depths (ft) 180'	 7" 	1307'	1307'	210 Sks
elt water depths (ft) None	 4 1/2" 	2893'	2893'	 120 Sks
coal being mined in area (Y/N)? N al depths (ft): 655' 955'	 	 		

'EN FLOW DATA

Producing formation	Maxton	Pay zone depth (ft)	2463'- 2529'
Gas: Initial open flow	show Mcf/d	Oil: Initial open flow	v 0 bb1/d
Final open flow	100 Mcf/d	Final open flow_	0 bb1/d
Time of open flow	between ini	tial and final tests $\overline{}$	4 Hours
Static rock Pressure 2	05 psig (s	urface pressure) after	24 Hours
Second producing format			
Gas: Initial open flow_			
Final open flow	Mcf/d	Final open flow_	0 bb1/d
Time of open flow	between ini	tial and final tests	Hours
Static rock Pressure	psia (si	urface pressure) after	Hours

TE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL G WHICH IS A SYSTEMATIC DETAILED GEOLOGIC RECORD OF ALL FORMATIONS, CLUDING COAL ENCOUNTERED BY THE WELLBORE.

> Thomas S. Liberatore - Agent PEAKE OPERATING OMPANY MAY 2 2 1989 Somes Schents

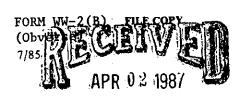
J. Garage

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The Control of the





1) Date:	March 31	_, 12, 87
2) Operator's Well No.	Jones & Gibson	#6-AJ
3) API Well No.	47 - 081 - 618	Frac.
JI KIT WELLION	State County	Permit

STATE OF WEST VIRGINIA

DIMISION OF OIL & GAS DERARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY

APPLICATION FOR A WELL WORK PERMIT

41	WELL TYP	PE A O	oil	./ G	as I	X/				77
٠,	WELL III		f "Gas", J	Production	n	X	_/ Underground s	torage	/ Deep Branch	/ Shallow X/)
5)	LOCATION	N: Ele	vation:	2	310'		_ Watershed: _			
-,		Die	strict:	Trap H	111 ⁽	197	_ County: <u>Ra</u>	leigh D		
6)	WELL OPE	RATOR	Peake	Opera	ting	_C _O COD	E: <u>37100</u>	7) DESIGNATE	DAGENT Timothy	K. Wilcox
	Address	<u>423</u>	Char1	eston	<u>Natio</u>	<u>onal P</u>	<u>laza</u>	Address	423 Charlesto	n National Flaza
		<u>Cha</u>	<u>rlesto</u>	n, WV	<u> 2530</u>	<u>1</u>			Charleston, N	NV 25301
8)	OIL & GAS	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C	ONTRACTOR:	
	Name							Name	Unknown	
	Address		Box					Address		
		Soph	ia. We	st_Vir	gini	a 2592	1			
10)	PROPOSE	D WELL	WORK:	Drill		_/ Drill	deeper	/ Redrill	/ Stimulate	<u>X</u> /
				Plug of	ff old !	formation	/ Perfor	ate new formation	nX/	
				Other p	hysical	change in	well (specify)			
11)	GEOLOGI	CAL TAR	GET FOR	MATION	,	-Big_L		SON -	· · · · · · · · · · · · · · · · · · ·	
	12) Estima	ted depth (of complet	ed weil,	.29	<u>60 8 7 (</u>	100feet			
	13) Approx							,500	feet, *	
	14) Approx	ximate coa	l seam dep	ths: <u>65</u>	5, 9	55	Is co	al being mined in th	ne area? Yes	/ NoX/
15)	CASING A	ND TUBI	NG PRO	GRAM						
	SING OR	l	SPEC	IFICATION	s	11	FOOTAGE I	NTERVALS	CEMENT FILL-UP	PACKERS
TU	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conc	luctor	13-3/	8 H-40	48#	X		30	30	CTS	Kinds
Frest	water									
Coal										Sizes
Inter	mediate	7	J-55	17#	Х		1373	1373	150 sks. Rul	15.01
Prod	uction	4-1/	2 J-55	9.5#	X			2950	300 sks.	Depths set
Tubi	ng									
Line.	.,									Perforations:
			1					1		Top Bottom
•					1					
										
						(OFFICE USE	ONLY		
						1	DRILLING PE	RMIT		
_		4	7-081-	0618~1	FRAC				April 23	19 87
Pern	nit number							 	Date	
rh:-			all amanas		II loontii	an ahauun	halow is avidance	of marmiralan aran		-
ı nıs guire	permit cover ements subject	ct to the c	onditions	contained	herein a	and on the	reverse hereof Nati	oi permission gran	iven to the District Oil o	re with the pertinent legal re-
o. 8) Prior to the	construct	ion of roa	ds, locatio	ns and	pits for a	ny permitted work.	In addition, the	well operator or his cont	and Gas Inspector, (Refer to tractor shall notify the proper
distr	ict oil and ga	as inspecto	or 24 hours	before a	ctual pe	rmitted w	ork has commence	d.)	•	
	•	ork is as de	escribed in	the Notic	e and A	Application	ı, plat, and reclam	ation plan, subject	to any modifications ar	id conditions specified on the
	rse hereof.	Αn	ril 23	1989	9			/		
Pern	nit expires _	~P		, 1,0	/	- /	unless well	work is commence	d prior to that date and p	prosecuted with due diligence.
_				\		- √/-				
E	Bond:	Agent	: P	lat:	Casi	ng l	Fee WPCP	SAP	Other	·
1			-	ļ.		145	1.55		1	
L_							191 	<u> </u>		
							\mathcal{C}	Al. 11	- March	ľ
יחע	E: Keep or	ne conv of	thic nee-	it norted	at the d	rilling loc	ation /	Jun 1	yundro 10	
	L. Reep of		mis perm	n posted	tile Q	THINK IOC		rector, Div	y 131 on 19 Dil	and fast have
									- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

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

5-06-87 Set model T plug at 25301

5-06-87 Perforated the Maxton from 2473'to 2483' (20 Holes) Fraced the Maxton with 75Q foam. Broke down with 500 gal 15% HCl, pumped 60,000# 20/40 sand, 271,000 SCFN2, total bbl fluid. BDP 2200#, ATP 2100#, ISIP 800#, 15 Min SIP 800#.

WELL LOG

FORMATION TYPE	TOP FEET	BASE FEET	REMARKS (water, coal, oil, gas)
Sand & Shale Shale	0	1184	Fresh Water @655' 5 gpm
Sand Sand & Shale	1282	1344	@955' 2 gpm <u>Salt Water</u> None
Sand	1512	1588	None
*Ravencliff Sand	1588	1708	Gas Checks 1708 - N/S
*Red Shale Sand & Shale	1759 1830	1830 2458	1700 - N/S 1787 - 298 Mcf 2630 - 239 Mcf 2764 - 231 Mcf
Shaly sand Sandy shale	2458 2458 2536	2536 2565	2814 - 267 Mcf 2914 - 239 Mcf
*Little Lime	2565	2644	DECEIVED
*Big Lime	2688 DTD LTD	TD 2920 2919	MAY 1 6 1989 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
		!	

^{* -} INDICATES ELECTRIC LOG TOPS

		3
1		

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

Perforated the Big Lime from 2766-2770 (8 holes), 2780-2782 (4 holes), 2801-2806 (15 holes). Acidized with 1000 gal. 28% HCl; 8000 gal. 15% HCl; 42 gal. F-78; 500# of J-360. Breakdown pressure 675, average treating pressure 350#, average rate 5 BPM.

Perforated Ravencliff 1715-1712 (4 holes); 1719-1721 (4 holes); 1734-1742 (26 holes); 1747-1750 (6 holes). Fraced Ravencliff with 15,000# 80/100; 45,000# 20/50; 256 bbls. fluid; 1000 gal. acid. Breakdown pressure at 2000#, average treating pressure 1900#, instant shut in pressure 1600#; after 15 minutes 1400#. Used 561,000 SCF N_2 .

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all freshand salt water, coal, oil and gas
Shale and sand Sand Sand shale Sand Sand and shale Shale Princeton sand Shale Ravencliff Red shale Sand and shale Shale Little Lime Pencil Cave Big Lime TD	0 264 520 618 1125 1348 1505 1572 1708 1759 1830 2536 2565 2644 2688 2914	264 520 618 1125 1348 1505 1572 1708 1759 1830 2536 2565 2644 2688 2914	Gas checks: 1708' - no gas 1787' - 298 MCF 2630' - 239 MCF 2764' - 231 MCF 2814' - 267 MCF 2914' - 239 MCF

(Attach separate sheets as necessary)

	ting Company
By: Cay D	B Welin
Date: December	28, 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 that, encountered in the drilling of a well."

TELEPHONE: (304) 348-3092



Well No. Othes & dibson no No	Operator's	Jones	&	Gibson	#6-AJ-	
ani Wall No. 47		£.				

081 County Permit State

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

			*				
WELL TYPE:	Oil/	Gas X /				/ Ch-llow	ΥΛ
	(If "Gas", Prod	luction X/	Underground	l storage	/ Dcep	Snallow	<u> </u>
LOCATION:	Elevation:	2310	Watershed:	Ste	ephens Branch		
	District:	Trap Hill	County:	Raleigh	Quadrangle: [ccles 73	
WELL OPERATO	OR <u>Peake Oper</u>	ating Company		DESIGNATED	AGENT Floyd	3. Wilcox	
•		arleston Nation		· Address_	Suite 423 Charl	leston Nati	onal Plaz
	<u>Charlesto</u> n,	West Virginia	25301		Charleston, Wes	st Virginia	25301
OIL & GAS	_{NER} Western	Pocahontas Corp	poration	COAL OPERA	TOR Beckley Coa	al Mining (ompany
Address	P. 0. Bo				Box 145		
,144100	Huntinat	on, W. Va. 257	 727_	_	Glen Daniel	s, W. Va.	25844
Астеаде	-			COAL OWNER	R(S) WITH DECLAR	ation on Ri	ECORD:
_		Lake		Name	Western Poo	rahontae Co	rnoratio
		Box 174			P. O. Box 2		
Address		W. Va.		-			
	54.9				Huntington,		
Астеаде			·		. Mr. Jose Boll		
FIELD SALE (I				Address_			
Address	Unknown						
					E WITH DECLARATI		
	SPECTOR TO BE 1			NameB	Seckley Coal Min	ing Compan	y
Name	Rue Schor	olcraft	· · · · · · · · · · · · · · · · · · ·	Address_	Box 145		
Address	Box 706		·	<u> </u>	Glen Daniels, Attn. Mr. Do		
	Pinevilla Pinevilla	e. W. Va. 2487	4			J J	
Corporation (IF said deed, lea	ase, or other contra	act has been recorded	d:) /		well operator from	•	ocahontas unty, West
Va., in	Book	31at page_1	95 . A. B	ermit is request	ed as follows:		
					ture or stimulate X	,	
TROTOGED W							
		formation/					
	Other physica	al change in well (sp	ecify)				
	—planned as	shown on the work	order on the	reverse side he	reof.		
The shove name	•				ny objection they wish t	·	
					lays after the receipt o		•
Department.	2 to must be med	with the Department	or mines with	in fifteen (15) u	ays and the receipt o	n this Applicati	on by the
•	ermit Application an	d the enclosed plat and	d reclamation	plan have been π	nailed by registered ma	il or delivered	t hand to
					mailing or delivery of t		•
	of Mines at Charles						
	COPIES OF ALL LOGS DIRECTLY	mecelli	Man William				
10:			- C	Peak Peak	ke Operating Coπ		
WEST VIRGINIA CONSERVAT	OIL AND GAS	AUGZ3	1982	By ()	Mell Operation	ior UNF	
SION 615 WASHINGTO	ON STREET EAST			Its	Attorney-in-Fac	- 	-
CHARLESTON, V	i	OIL & GAS	DIVISION			· × _	
TELEPHONE: (30	14) 348-3092	DEPT. 0	E MILLA	. —·			

BLANKET BOND

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

DRILLING CO	ONTRAC	TOR (IF	KNOW	N) _		Unknow	<u>n</u>			
			-						•	
GEOLOGICAI	TARGE	ET FOR	MATION	,		Big Lime	2			
								X/ Cab	le tools	/
Approxi	mate wat	er strata	depths:	Fres	h,	50 feet	; salt,5	00 feet.		
Approxi	mate coa	l seam d	epths:	65!	5, 9	55 Is coal	being mined i	in the area? Yes	/ No	X/
CASING AND	TUBING	G PROG	RAM							•
	<u>,</u>									· · · · · · · · · · · · · · · · · · ·
CASING OR	ł SPE	, CIFICAT	IONS	1	I 1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS	
TUBING TYPE		Grade	Weight per ft	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	13-3/8	H40	48#	χ		30'	30'	To surface	Kinds	
fresh Water										
Coal									Sizes	
Intermediate	7"	J-55	17#	χ		1373'	1373'	150 sacks as	rea. rule	15.01
Production	4-1"	J-55	9.5#	χ		2950	2950'	300 sacks	Depths set	
Tubing								340.53	•	
Liners									Perforations:	* - /- 7#
									Тор	Bottom
		 -								
the Depresci "Recl previo Code A se be par	epartmentified by amation I susly paid \$22-4-8a eparate For the way MUST BENONS	t, accomp Regulation Plan", a on the sa from the orm Iv-2 s work for w E POSTE ING IN	on 12, or opplicable ame well, e owner shall not by thich a per content of the ACCORD	(i) a p in lie to the to the fer of any remit is	lat in the reclaime reclaime requirements water ired for sough	the form prescreef the other mation required by Code § 2 well or dwell or fracturing or and is noted. CHAPTER 22 N IS HEREBY	ribed by Regula security allowed by Code \$ 22 22-4-12a, and (ving within 200 stimulating a was such on the F	r copies of Form IV-2 ation 11, (ii) a bond in ed by Code § 22-4-2 and Regulation if applicable, the coffect of the proposed ell where fracturing of Form IV-2 filed in con-	n one of the form, (iii) Form IV- on 23, (iv) unler nsent required to well.	ns 9, ss sy
84	A STATE OF THE PERSON NAMED IN COLUMN	The state of the s								
			• • • • • • • • • • • • • • • • • • • •	••••	•••••		• • • • • • • • • • • • • • • • • • • •			•••••
The fe declar	ollowing v ration un	vaiver mu der Code	est be con 22-4-2	ipleted	l by the	e coal operator : rmit is to be is	and by any coal o	owner or coal lessee viteen (15) days of re-	who has recorded ceipt thereof.	la
						WAIV	ER			
The undersigne	ocation. I d has no	objection	mapexist n to the v	s which vork p	ropose	rs the area of the	se well location	ne coal under this we the well location has provided, the well o	heen added to at	L
						•	P.			
Date:			_, 19_		1	R	By			
					di	K	lts			