

State of West Virginia

Wi 2 | 03 Division of Environmental Protection
Section of Oil and Gas

ww Division of Well Operator's Report of Well Work

Farm name: WESTERN POCAHONTAS PROP. Operator Well No.: 28-BDS

LOCATION: Elevation: 2,294.00 Quadrangle: DOROTHY

District: MARSH FORK County: RALEIGH

Latitude: 12800 Feet South of 37 Deg. 57Min. 30 Sec. Longitude 3300 Feet West of 81 Deg. 27 Min. 30 Sec.

Company: PEAKE OPERATING COMPANY

P.O. BOX 8

RAVENSWOOD, WV 26164-0008

Agent: THOMAS S. LIBERATORE

Inspector: RODNEY DILLON

Permit Issued: 08/11/93
Well work Commenced: 08/19/93
Well work Completed: 08/28/93

Verbal Plugging

Permission granted on:

Rotary X Cable Rig
Total Depth (feet) 5989'
Fresh water depths (ft) 128', 530'

Salt water depths (ft) 2036'

Is coal being mined in area (Y/N)? N Coal Depths (ft): 150'

Casing   &   Tubing	Used in Drilling	Left in Well	Cement  Fill Up  Cu. Ft.		
Size					
13 3/8"	30 <b>'</b>	30 <b>'</b>	 		
9 5/8"	759'	759'	265 sks Class A		
7"		   <u>2457'</u>	370 sks Class A		
4 1/2"	5925 <b>'</b>	   5925 <b>'</b>	200 sks   Pozmix		
2 3/8"	5775 <b>'</b>	5775'			

OPEN FLOW DATA

Producing formation Gordon Siltstone Pay zone depth (ft) 4203-15

Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d

Final open flow \* MCF/d Final open flow - Bbl/d

Time of open flow between initial and final tests - Hours

Static rock Pressure \* psig (surface pressure) after - Hours

Second producing formation Dev. Brown Shal Pay zone depth (ft) 5070-5805 Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d Final open flow 984 MCF/d Final open flow 0 Bbl/d Time of open flow between initial and final tests 4 Hours Static rock Pressure 890 psig (surface pressure) after 72 Hours

\* Rock pressures and open-flows are combined.

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: PEAKE OPERATING COMPANY

By: Thomas S. Liberatore

Date: 10/19/93

Box and IM6

FORM WR-35 (Reverse)

PERMIT #: 47-081-00961

CO. WELL #: #28-BDS

ELEVATION: 2294 GL 2304 KB

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC. 

09/13/93: PERFORATED THE SHALE FROM 5070-5805 USING 50 HOLES.

09/14/93: NITROGEN-FRAC'D THE SHALE USING 2.5 MMSCF OF NITROGEN,

AT AN AVG. INJECTION RATE OF 90,000 SCF/MIN.

09/20/93: PERFORATED THE GORDON FROM 4203-4215 USING 35 HOLES.

FOAM-FRAC'D THE GORDON USING 46,000 LBS. OF SAND,

521,000 SCF OF NITROGEN AND 240 BBL WATER.

## WELL LOG (all depths taken from KB)

ROCK TYPE OR FORMATION	TOP	BOTTOM	REMARKS
SAND & SHALE	0	103	
SAND			WTR.@ 128'
COAL	149		
SAND	151	402	
SHALE & SAND	402		
SAND	600		
SHALE	710	930	
SAND	930	970	
SAND & SHALE	970		
SAND .	1398		
SHALE	1513		
SALT SANDS	1642		WTR.@ 2036'
SHALE	2074		
AVIS LIME	2452		
SHALE	2485		
LOWER MAXTON SAND	2950		
LITTLE LIME (REYNOLDS)	3034		
BIG LIME (GREENBRIER)	3123		S/GAS: 3240'
SHALE	3443		
WEIR SAND	3543	3724	S/GAS: 3650'
SHALE	3724		
COFFEE SHALE (SUNBURY)	3920		
BEREA HORIZON	3936	3944	
SHALE	3944	4202	
GORDON	4202		
SHALE	4221		
BROWN SHALE (LOWER HURON)	5083	5814	S/GAS: 5112'
SHALE (JAVA)	5814		
TOTAL DEPTH (LOGGERS)	5989		

DF-822 OFT-813

60(1)

DS - 0961 Issued 8/11/93 Page 3 of 7 Expuse 8/11/95 ND GAS

1)	Well Operator: Peake Operating Co. (37100) (2) 325
2)	Operator's Well Number: #28-BDS 3) Elevation: 2294
4)	Well type: (a) Oil_/ or $Gas X$ /
	(b) If Gas: Production $X$ / Underground Storage/ Deep/ Shallow $X$ /
5)	Proposed Target Formation(s): Gordon & Devonian Shale
6)	Proposed Total Depth: 5950 feet
7)	Approximate fresh water strata depths: 600' (+)
8)	Approximate salt water depths: 1700'
9)	Approximate coal seam depths: well on old Dorothy seam Strip Bench Winifred @ 35';Lo. Hernshaw @ 240'
10)	Does land contain coal seams tributary to active mine? Yes/ No $\frac{X}{X}$ /
11)	Proposed Well Work: to drill a new well; stimulate by fracturing
12)	CASING AND TUBING PROGRAM

TYPE	SF	ECIFICAT	IONS	FOOTAGE IN	CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	12 3/4"	H-40	42#	30'	30 '	ſ.
Fresh Water	9 5/8"	H-40	32#	750 <b>'</b>	750'	C.T.S.
Coal						38CSR18-11.3 38CSR18-11-2-
Intermediate	7"	J-55	17#	2350'	2350'	C.T.S.
Production	4 1/2"	J-55	10.5#	5950'	5950 1	200 sx <u>+</u>
Tubing					Ċ,	38CR18-11.
Liners						

PACKERS	:	Kind		 			 	<u>-</u> -
		Sizes_					 	
-1-		Depths	set					
<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>					 	 	 	

	STATE OF WEST DEPARTMENT OF ENERGY, DIV	VIRGINIA VISION OF OIL AND GAS
	NOTICE AND APPLICATION FO	OR A WELL WORK PERMIT
)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name Western Pocahontas Prop.	Name Elk Run Coal Co. ATT: Gary Stover
	Address P.O. Box 2827	Address P.O. Box 49/
	Huntington, WV 25727	Sylvester, WV
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name Western Pocahontas Properties
		Address P.O. Box 2827
	(c) Name	Huntington, WV 25727
	Address	Name
	Address	Address
5)	Inspector Rodney Dillon	(c) Coal Lessee with Declaration
,,	Address P.O. Box 131	Name Black King Mine Development
	Bradley, WV 25818	Address P.O. Box 750
	Telephone (304) - 877-2912	
	Telephone (304) - 077-2512	ATT: T.E. Comer
	TO THE PERSON(S) NAMED AB	
	TO THE PERSON(S) NAMED AD	OVE TARE ROTTON THAT!
	Included is the lease or leases or	other continuing contract or
	included is the lease of leases of	other continuing contract of
cont	racts by which I hold the right to	extract off and yes on
X	Included is the information requir	ed by Chapter 228, Article 1,
Sect	ion 8(d) of the Code of West Virgin	la (see page 2)
	I certify that as required under C	hapter 22B of the West Virginia Code
I ha	ve served copies of this notice and	application, a location plat, and
acco	mpanying documents pages 1 through	on the above named parties, by:
	Personal Service (Affidavit a	ttached)
	X Certified Mail (Postmarked po	stal receipt attached)
	Publication (Notice of Public	ation attached)
	I have read and understand Chanter	22B and 38 CSR 11-18, and I agree
<b>-</b> -	he terms and conditions of any perm	sit issued under this application.
נט נ	ne terms and conditions of any perm	t I have personally examined and am
	r certify under penalty of law the	l on this poplication form and all
iamı	liar with the information submitted	on this application form and dir
atta	chments, and that based on my inqui	ry of those individuals immediately
resp	onsible for obtaining the informati	on, I believe that the information
is t	rue, accurate, and complete.	
	I am aware that there are signific	ant penalties for submitting false
info	rmation, including the possibility	of fine and imprisonment.
	Well Operator	reade Operating Company
	By: Stemas	J. Scherolots
	Its: General	Manager
	Address P.O. P	
	Ravens	swood, WV 26164
		304) 273-5371
Subs	scribed and sworn before me this $\frac{20}{100}$	) day of <u>July</u> , 19 <u>93</u>
,	toback Keller	Notary Public
Mv 2	commission expires October 28	<del></del>
11 Y	October 20	

1)

2)

3)

' Permitting

office of Oil & Cas

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Form WW2-A

(09/87)

Date: July 20, 1993
Operator's well number 28-BDS

API Well No: 47 - 081 - 0961 State - County - Permit