



State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm hame: BEAVER COAL CO

Control of the second

Operator Well No.: BEAVER 19 A

LOCATION:

BERTYER COME OF

Elevation: 2176.00 Quadrangle: ECCLES

District: TRAP HILL County: RALEIGH

Latitude: 11600 Feet South of 37 Deg. 47Min. 30 Sec. Longitude 7700 Feet West of 81 Deg. 15 Min. 0 Sec.

Company: PEAKE OPERATING COMPANY

1401 CHARLESTON NAT'L PLATA

CHARLESTON, WV 25301-0000

Agent: THOMAS S. LIBERATORE

Inspector: RODNEY G. DILLON
Permit Issued: 04/24/92
Well work Commenced: 05/27/93
Well work Completed: 06/09/93
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 2785

Salt water depths (ft) none

Fresh water depths (ft) 19, 175

Is coal being mined in area (Y/N) N Coal Depths (ft): see reverse side

Casing	Used in	Left	Cement
& Tubing	Drilling	in Well	Fill Up Cu. Ft.
Size	 	 	
20"	17'	17'	conductor
13 3/8"	100'	100'	100 sks Class A
7" 	 1290'	1290'	440 sks Class A
4 1/2"	 2731'	 2731'	155 sks 50/50 poz
	<u> </u> 	 	

OPEN FLOW DATA

Producing formation Ravencliff, Mid. MaxtonPay zone depth (ft)2140-2150

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 Big Lime Pay zone depth (ft) 2652-2658

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 testsest. 6 Hours

Static rock Pressure 260 psig (surface pressure) after 60 Hours

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 TRY WELLBORE.

For: PEALE OPERATING COMPANY

Reviewed 1998

By: Thomas Liberatore
Date: 08/03/93

AU3 0 2 1993

Rock pressure and open-flow are combined

FORM WR-35 (Reverse)

PERMIT #: 47-081-938 CO. WELL #: 19-B, Beaver ELEVATION: 2176 GL 2186 KB

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

6/25/93: PERFORATED THE BIG LIME FROM 2652-2658. ACIDIZED

WITH 8,000 GAL. ACID & 130,000 SCF OF NITROGEN. 6/29/93: PERFORATED MID. MAXTON FROM 2140-50 WITH 34 HOLES. 6/30/93: FOAM-FRAC'D MAX. USING 63,000# SAND, 750,000 SCF OF NITROGEN, 349 BBL OF WATER. PERFORATED RAVENCLIFF FROM 1438-82 USING 48 HOLES. FOAM-FRAC'D RAVENCLIFF USING 61,900# OF SAND, 570,000 SCF OF NITROGEN, 342 BBL OF WATER.

WELL LOG (all depths taken from KB)

ROCK TYPE OR FORMATION		BOTTOM	REMARKS
SAND	0	21	WTR. @ 19'
COAL	21	23	
SANDY SHALE	23	32	
COAL	32	35	
SHALE	35	125	
COAL	125	129	
SHALE & SAND	129	200	WTR. @ 175'
SAND	200	332	
SHALE	332	417	
COAL	417	422	
SHALE & SAND	422	696	
SAND	696	746	
SHALE	746	1054	
RED ROCK	1054	1075	
SHALE & SAND	1075	1392	
RAVENCLIFF SAND	1392	1500	S/GAS
AVIS LIME	1500	1539	
SHALE	1539	2128	
MIDDLE MAXTON SAND	2128	2156	S/GAS
SHALE & LIME STRINGERS	2156	2272	
LOWER MAXTON SAND	2272	2396	
LITTLE LIME (REYNOLDS)	2396	2490	
PENCIL CAVE	2490	2537	
BIG LIME (GREENBRIER)	2537	2785*	S/GAS
TOTAL DEPTH	2785		

*NOTE: Base of Big Lime not drilled.

DF 345

RECEIVED

081-0938

FORM WW-2B

APR 0 8 92

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL

	_			-
A-44 (CA1)	•	C.WELL WORK	PERMIT APPLICATION	J
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011100-0				

	Ottion of the	bich				
1)	Well Operator:_	PEAKE OPERATING	COMPANY	37100 (7	7) 331	
2)	Operator's Well	Number: Beaver	r #19A		_ 3) Elevation:	<u> 2176</u>
4)	Well type: (a)	0i1_/ or	Gas <u>X</u> /	·		
	(p)	If Gas: Produc		Underground	Storage/ Shallow <u>X</u> /	
5)	Proposed Target	Formation(s):		•		
6)	Proposed Total	Depth: 2800)f	eet		
7)	Approximate fres	sh water strata	depths:	<u>85†</u>		
8)	Approximate salt water depths: 470'					
9)	Approximate coal	l seam depths:_	open-mine	(Sewell) at 10	01-105; Beckley @	426
10)	Does land contain	in coal seams t	ributary	to active mi	ne? Yes/ N	10_X_/
11)	Proposed Well Wo	ork: to drill a n	ew well;	stimulate by fr	acturing.	
12}		CASING AND	TUBING	PROGRAM		
TYPE		SPECIFICATIONS	FO	TAGE INTERVA	LS CE	EMENT

	, I I P E	. 3	SPECIFICALIUMS			FOUTAGE INTERVALS		•
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up	
	Conductor	12: 3/4"		42_	30 '	30'	1 _ 1	1
<u>ب</u>	Fresh Water	9 5/8!	J-55	36	200	200'		
7,42	Coal					[7	38CSRIB III	7.
6	Intermediate	7"	J - 55	20	1275	1275	C.T.S.	
	Production	4 1/2"	J-55	10.5	2800*	2800'	100sx	
	Tubing					(381597416	/
	Liners				, <u></u>	,		
	PACKERS : Kin			 	·	 .		
	Siz	es						

Depths set For Divison of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Carpet Sine Regent

(Type)

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Environmental Protection

APR 0 8 92

Date: <u>April 6, 1992</u> Operator's well number

Permitting Office of Oil & Gas

3)

1)

2)

Beaver #19A

API Well No: 47 - 081 - 0938

State - County - Permit

__ STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface O	wner(s) to be served:	5) (a) Coal Operator:
		Reaver Coal Company	
	Address	P.O. Box 1537	Address P.O. Box 2827
	(b) Name	Beckley, WV 25801	(b) Coal Owner(s) with Declaration
	Address		Name Pocahontas Land Corporation
	_		Address Rox 1517
	(c) Name		
	Address		Name
			Address
6)	Inspector	Rodney Dillon	(c) Coal Lessee with Declaration
•	Address	P.O. Box 131	NameShenandoah Minerals Corp./W.P.P
		Prod1on LT7 25010	Address P.O. Box 2827
	Telephone	Bradley, WV 25818 (304) - 877-2912	Huntington, WV 25727-2827
		TO THE PERSON(S) NAMED	ABOVE TARE NOTICE THAT:
	Included	is the lease or leases	or other continuing contract or
cont	racts by w	hich I hold the right t	o extract oil and gas <u>OR</u>
			ired by Chapter 22B, Article 1,
		f the Code of West Virg	
			Chapter 22B of the West Virginia Code
I ha			nd application, a location plat, and
			h on the above named parties, by:
acco.		onal Service (Affidavit	
			postal receipt attached)
		ication (Notice of Publ	
	Pub1	reaction (Notice of Publ	
			er 22B and 38 CSR 11-18, and I agree
to t			rmit issued under this application.
			hat I have personally examined and am
fami.	liar with	the information submitt	ed on this application form and all
atta	chments, a	nd that based on my inq	uiry of those individuals immediately
resp	onsible fo	r obtaining the informa	tion, I believe that the information
	rue, accur	ate, and complete.	
	I am awar	e that there are smonif	cant dehalties for submitting false
info	rmation, i	ncluding the poss wilit	y of fine and imprisonment.
	_	Well Operato	
		By: 1km _	1, 200
		Its:	Designated Agent
····	***************************************	Address	1/01 Charleston National Plaza
LIP	OFFICIAL	SEAL	Charleston WV 25301
-	NOTARY	PUBLIC Telephone	(204) 242-6970
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	1295 Williams	thurs Wey is	as also I Palled
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