

DEEP WELL 6-6 ungand (0)

DEPT. OF ENERGY Take.

DEC 17 1991 Division of Environmental Protection Section of Oil and Gas

Reviewed_TM6

Well Operator's Report of Well Work

Farm name: GEORGIA-PACIFIC CORP Operator Well No.: ICCC D 37

LOCATION: Elevation: 1126.71 Quadrangle: HOLDEN

District: ISLAND CREEK

County: LOGAN

Latitude: 7600 Feet South of 37 Des. 47Min. 30 Sec. Longitude 4450 Feet West of 82 Deg. 2 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC. P.O. BOX 391, A1-6 ASHLAND, KY 41114-0391

| Casina | Used in | Left | | Cement | Tubins | Drillins | in Well|Cu. Ft.

Asent: B E. WIDENER

Inspector: OFIE HELMICK Permit Issued: 09/04/91 Well work Commenced: 10/04/91Well work Completed: 11/27/91 Verbal Flussins Permission sranted ont Roterw X Cable Ris | 8 5/8" | 2250' | 682
Total Depth (feet) 4980 | 8 5/8" | 2250' | 682

550' | 550' | 317 262' (Map WV-12)
Salt water deaths (ft) 612' (Map WV-12) 5 1/2" 4973' 4973' 785

Is coal being mined in area (Y/N)? N | 1.9" w/ ADL-1 @ 2629 & SN @ 4791 Coal Derths (ft): 205-208, 244-247, 1.9" @ 2595' KB Open mine 445-450

OPEN FLOW DATA

Producing formation Devonian Shale

Pag zone derth (ft) 3286-4875

Gas: Initial oren flow -0- Bbl/ Final open flow _____ 901/257CF/d Final open flow _____ Bb1/3 Time of oren flow between initial and final tests 3 Hour Static rock Pressure___750#__psis (surface pressure) after _ 72__Hours

Second producing formation Big Lime Pay zone depth (ft) 2522-2601 Asst Initial open flow <u>84 MCF/d Oil: Initial open flow <u>-0-</u> Bbl/ Final open flow <u>-0-</u> Bbl/ Bbl/</u> Time of open flow between initial and final tests _____3 __Hour-

NOTE: OH 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 PROTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS. INCLUSING COAL ENCOUNTERED BY THE WELLBORE.

For: ASHLAND EXPLORATION, INC.

James L. Stephens, Eng. Tech Date: 12-16-91

Formation on Rock Type	TOP	BASE
Sand and Shale (Base Lee fm.) Pennington formation U. Maxton 2095-2173 L. Maxton 2260-2280	0 1800	1800 2303
Little Lime Big Lime Borden formation Sunbury Shale Devonian Shale Onondaga Ls.	2303 2356 2626 3122 3152 4971	2356 2626 3122 3152 4971 TD

DTD 4980' KB LTD 4978' KB

11 3/4" csg was cmt'd to surface on the primary job. 8 5/8" csg was cmt'd to surface on the primary job.

Well Treatment

Perf Rhinestreet 20H/4682-4875. N_2 frac using 500 gal 7 1/2% inh. fe acid, 806,000 scf N_2 @ 98,137 scf/min. BD @ 3227#, ATP 3898#, MTP 3997#, ISIP 2796#.

Perf Huron 20H/4142-4436. N_2 frac using 500 gal 7 1/2% inh fe acid, 806,000 scf N_2 @ 102,087 scf/min. BD @ 4272#, ATP 3399#, MTP 4646, ISIP 1848.

Perf U. Dev. Shale 20H/3286-3679. N_2 frac using 500 gal 7 1/2% fe inh acid, 806,000 scf N_2 @ 102,117 scf/min. BD @ 3570#, ATP 3263#, MTP 3570#, ISIP 1588#.

Perf Big Lime 13H/2522-2601. BD and Ballout and 75 quality ramp frac using 1000 gal 15% inh. fe acid, 41,600# 20/40 sand, 310,000 scf $\rm N_2$ @ 12,400 scf/min. BD @ 2010, ATP 2000# @ 30 bpm foam rate, MTP 2700#, ISIP 1300# and TF 235 bbls.



FORM WW-2B

STATE OF WEST VIRGINIA CYPNIS 9/6/93

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK DEPMIT ADDITION WELL WORK PERMIT APPLICATION

1) Well Ope	rator:	Ashland Exp	ploration, I	nc. 2750	(5) 401	
2) Operator	's Well !	Number: I	sland Creek .N. 135621	Coal Co. D-37	3) Ele	vation:1126.7
4) Well typ	e: (a)		or Gas	<u>x</u> /		
		If Gas:		/	ound Storage Shallow	
5) Proposed	Proposed Target Formation(s): Devonian Shale					
6) Proposed	Total De	epth: 4,9	90 KB	feet		
7) Approxim	Approximate fresh water strata depths: 262' KB (Map WV-12)					
8) Approxim	Approximate salt water depths: 612' KB (Map WV-12)					
9) Approxim						
10) Does lan	d contain	n coal se	ams tribut	ary to act	ive mine? Ye	s/ No_x_/
11) Proposed	Well Wo	rk:				
12)						
		CASIN	G AND TUBI	NG PROGRAM		
TYPE	SI	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"	LS	AMERICA ASSESSA ASSESS	30	30	CTS
Fresh Water						
Coal	11 3/4"	H40	42.0	495	495	CTS
Intermediate	8 5/8"	J55	24.0	2275	2275	CTS
Production	5 1/2"	J55	15.5	4990	4990	As Needed
Tubing	1.9"	J55	2.76		4940	
Liners						ion of Energy
PACKERS : Kin					AUG	2 1 9
SizesDepths setDepths set						
506304 For Divison of Oil and Gas Use Only						
Fee(s) paid: Well Work Permit Reclamation Fund WPCP						
Plat WW-9 WW-2B Bond levely Agent						Agent

(Type)

Page 1	L of 1	1)	Date: August 20, 1991	
	VW2-A		Operator's well number	
(09/87	7)		Island Creek Coal Co. #D-37, Serial #134621	
		3)	API Well No: 47 - 045 - 1175	
			State - County - Permit	
		STATE OF WES	T VIRGINIA	
			IVISION OF OIL AND GAS	
			ivision of oil and gas Aug 2 1 34	
		NOTICE AND APPLICATION	FOR A WELL WORK PERMIT	
			78.	
		wner(s) to be served:	5) (a) Coar Operator:	
((a) Name	Georgia-Pacific Corp.		
A	λ ddress _	Jerry Crouse	Address	
·	7 1 1 27	Wyoming, WV 24898	(h) Carl Companion with Darlandian	
)	o) Name		(b) Coal Owner(s) with Declaration	
A	adress _		Name Island Creek Coal Company	
7	'C) Name		Address P.O. Box 840	
) &	ddraee		Holden, WV 25625	
r.	ddress _		NameAddress	
			11441455	
6) I	nspector	Ofie Helmick	(c) Coal Lessee with Declaration	
A	Address	525 Tiller Street	Name N/A	
		Logan, WV 25601	Address	
T	relephone	(304) - 792-7075	·	
		TO THE PERSON(S) NAMED A	BOVE TAKE NOTICE THAT:	
			r other continuing contract or	
		hich I hold the right to		
Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)				
			Chapter 22B of the <u>West Virginia Code</u> d application, a location plat, and	
			2 on the above named parties, by:	
<pre>Personal Service (Affidavit attached) x Certified Mail (Postmarked postal receipt attached)</pre>				
Publication (Notice of Publication attached)				
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree				
to the terms and conditions of any permit issued under this application.				
I certify under penalty of law that I have personally examined and am				
familiar with the information submitted on this application form and all				
attachments, and that based on my inquiry of those individuals immediately				
responsible for obtaining the information, I believe that the information				
is true, accurate, and complete.				
I am aware that there are significant penalties for submitting false				
information, including the possibility of fine and imprisonment.				
Well Operator Ashland Exploration, Inc. By: W. Mark Parks W. What face				
Its: <u>Operations Manager</u> Address <u>P.O. Box 391</u>				
Address P.O. Box 391 Ashland, KY 41114				
Telephone 606-329-5989				
Subscribed and sworn before me this 302 day of Queunt, 1991				
		/ l. 1.1 D =1		
Notary Public				
My commission expires There has 23 1994				