

DECENTE.

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

OUT 1 9 92

Well Operator's Report of Well Work

Environmental Protection

Farm name:

GEORGIA PACIFIC CORP

Operator Well No.: D 28 S 133771

LOCATION:

Elevation: 1386.60 Quadrangle: CHAPMANVILLE

District:

GUYAN

County: LOGAN

Latitude: Longitude

12450 Feet South of 37 Deg. 55Min. 0 Sec. 2450 Feet West of 82 Deg. 2 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.

P.O. BOX 391, A1-6

ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: TIM BENNETT

Permit Issued:

Well work Commenced:

02/04/91 04/19/91

Well work Completed:

06/10/91

Verbal Plugging

Permission granted on:

Rotary X Cable Total Depth (feet)

4570'

Fresh water depths (ft) 1/2" stream @66'

<u>approximately 576'</u>

Salt water depths (ft) Approx

Is coal being mined in area (Y/N)? N

Coal Depths (ft):64-72, 154-156,216-219

Casing &	Used in		Cement Fill U
Tubing	Drilling	in Well	
Size			
16"	37'	37°	11.8
8 5/8"	1868'	1868	845
5 1/2"	4541	4541'	662
1.9" @ 44	22' KB w/Pkr	e 2788'	
1.9" @ 27	29' KB		AND STATE ST

OPEN FLOW DATA

144

mcf

Producing formation

Devonian Shale

Pay zone depth (ft) 2822-44
Bbl Gas: Initial open flow 50 MCF/d Oil: Initial open flow

Final open flow 712 MCF/d Final open flow Time of open flow between initial and final tests 3

Static rock Pressure 350

_psig (surface pressure) after

Berea

Second producing formation Weir

Pay zone depth (ft) 2202-22

Gas: Initial open flow 0 MCF/d Oil: Initial open flow____ Final open flow 1032 MCF/d Final open flow

Time of open flow between initial and final tests 3

Static rock Pressure 320 psig (surface pressure) after

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORAT INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WE LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Bbl Hou

Hou

Hou

2703-27

For: ASHLAND EXPLORATION, INC.

James D' 🗢 J. L. Stephens, Engr. Te

Date: 6/26/91

Reviewed Recurred

FORMATION OR ROCK TYPE	TOP	BASE
Breathitt Formation	0	911
Lee Formation	911	1488
Pennington Formation	1488	1886
L. Maxton 1850-1864		
Little Lime	1886	1937
Big Lime	1937	2134
Borden Formation Weir 2193-2226	2134	2670
Sunbury Shale	2670	2699
Berea	2669	2713
Devonian Shale	2713	4552
Onondaga LS	4552	(a) TD 456

DTD 4570 LTD 4564

WELL TREATMENT

Perf L. Dev. Shale 18H/4341-4479 - N2 frac using 500 gal 7 1/2% inh Fe acid, 800,000 SCF N2 3 96,500 SCF/min. BD @ 2600#, ATP 3750#, MTP 4150#, ISIP 2900#, 15 min 1490#

Perf M. Dev. Shale 23H/3733-4045. N2 frac using 500 gal 7 1/2% Inh Fe acid, 805,000 SCF N2 3 98,000 SCF/min. BD @ 2990#, ATP 3050#, MTP 3170#, ISIP 1300# & 15 min. 102

Perf U. Dev. Shale 16H/2822-2998. N2 frac using 500 gal 7 1/2% Inh Fe acid, 810,000 SCF N2 @ 100,000 SCF/min. BD @ 3090#, ATP 3300#, MTP 3310#, ISIP 1400#, 15 min 630#

Perf Berea 15H/2703-2710. 75 quality foam frac the Berea using 300 gal 16% Inh Fe acid, 50,000# 20/40 sand & 300,000 SCF N2 @ 7000 SCF/min. BD @ 1150#, ATP 1175# @ 20 bpm foam rate, MTP 1390#, ISIP 770#, 15 min 610# & TF 230 bbls.

Perf Weir 12H/2202-2226. 75 Quality foam frac U. Weir using 1000 gal 15% HCl Fe acid & 30 Lo dense perf balls for breakdown. BD @ 1170# @ 11-12 BPM. Foam frac using 81,000# 20/40 sand, 330,000 SCF N2 @ 9600 SCF/min, ATP 1060# @ 30 BPM foam rate, MTP 1100#, ISIP 800#, 15 min 710# & TF 350 bbl.

FORM WW-2B

STATE OF WEST VIRGINIA

Page 1 of 1

CYPUS 02/04/93

AND GAS

DEPARTMENT OF ENERGY, DIVISION OF OIL AND G

		WELL WO	RK PERMIT	APPLICATION	<u>N</u>	
1) Well Ope	erator: A	shland Explo	oration, Inc	. 2750 ((4) Z88	
2) Operator	's Well		sland Creek -28, Serial		3) El	levation: <u>1386.</u> 6
4) Well typ	e: (a)	Oil_/	or Gas	5 <u>X</u> /		
	(b)	If Gas:			round Storag	-
			Dee	1720	Shallo	WX/
			(s): <u>Devon</u>		2071 101 /	
	Proposed Total Depth: 4622'KB feet 23% 91 (
				hs: 576'KB(25-180
				786 KB (Map WV		205
9) Approxim	nate coal	. seam dep	ths: Not C	perated - Sol	id Coal 177:	-179
10) Does lan	ıd contai	n coal se	ams tribut	<u>-</u>		es/ No_X/
11) Proposed	Well Wo	rk:	DRIELS	Stimula	te Newla	Soll
12)		CASIN	G AND TUB	NG PROGRAM	, 55	
TYPE		PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
	Constitution in a constit		Weight	For	Left in	Fill-up
	Size	Grade	per ft.	drilling	well	(cu. ft.)
Conductor	16	LS	42.0	30	30	CTS
Fresh Water			Potando e 1907 se hi 4 Amerika compressona de accominado e considerações de accidente de 1800 de 1800 de 1800		5	- DECSK1811, D
Coal						CTS Wilead Cl'A
<u>Intermediate</u>	8 5/8	J55	24.0	1897	1897	(2%Gel,3% CaCl) Tail W/100 sx(3
Production	5 1/2	J55	15.5	4622	4622	38CSR18-11 As Needed
Tubing	1.9	J55	2.76		4572	Siphon
Liners			···			
<u>PACKERS</u> : Kin	d					
	es ths set					
06012			n of Oil a	ind Gas Use	Only	
3 1 1 1 1 1 Pele (s) p	aid:	Z	ork Permit		amation Fun	d WPCP
Plat	# WW-9	73 /1		and Sur	to Blacke	Agent
7	· · · · · · · · · · · · · · · · · · ·	7	/	(Type)	_ /

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	/ RE	The state of the s		
Page	1 of 1 /	1)	Date: January	16, 1991
	WW2-A 1/1/4	2)	Operator's we	ll number
(09/8	7\	18 1991	Toland Crook Co	-1 C- #D 20 C 1 #12277
(02/0	1 2	109/	ISTAND Creek Co.	<u>al Co. #D-28. Serial #13377</u> 47 - <u>045</u> - <u>1155</u>
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	* 8 1997 3)	API Well No:	47 - 045 - 1155
		THENGY	Sta	te - County - Permit
	*			
		STATE OF WES	T VIRGINIA	
	DEPARTI	MENT OF ENERGY, D		AND CAS
	THE SHALL GET AN AD ADAPT AND AD			
	NO CONTRACTOR	225 2000 000 000 000		
	NOTICE	AND APPLICATION	FOR A WELL WORK	PERMIT
4)	Surface Owner(s)	to be served:	5) (a) Coal O	perator:
	Address Jorge C	rouse	Address	
			Address	
		. WV 24898		
	(b) Name		(b) Coal Owne:	r(s) with Declaration
	Address		Name <u>Island C</u>	reek Corp.
			Address P.O. I	Box 840
	(c) Name			
	Address		<u>norder</u>	n, WV 25625
	Address		Name	
			Address	
6)	Inspector Tim Be	nnett	(c) Coal Less	ee with Declaration
	Address Rt. 2 Box	61-B		
			Address	
	Tolophone (204)	11e, wv 25500	Address	
	Telephone (304)-	855-7705		
	(III) all, attents to a comp.			
	TO THE	<u>PERSON(S) NAMED A</u>	BOVE TAKE NOTIC	E THAT:
		•		
	Included is the	lease or leases o	r other continu	ing contract or
CONTY	acte by which I	hold the right to		ing concract or
- U & & L L	Tables of willers	ioid the right to	extract our and	i gas <u>uk</u>
	included is the	information requi	red by Chapter	22B, Article 1,
Secti	on 8(d) of the Co	ode of West Virgi	nia (see page 2) , et a
	I certify that as	s required under	Chapter 22B of	the <u>West Virginia Code</u>
I hav	e served copies (of this notice an	d application. a	a location plat, and
accon	nanving documents	e pages 1 through	on the sheet	ve named parties, by:
ar C C O II	panying documents	s pages I unrough	on the abov	ve named parties, by:
		rvice (Affidavit		
		ail (Postmarked p		
	Publication	(Notice of Publi	cation attached)
				·
	I have read and a	understand Chante	r 228 and 38 CG	R 11-18, and I agree
to th	e terme and condi	itians of any nor	mit icana	x ii-io, and i agree
CO C1.	e cerms and cond.	icious or any ber	mit issued under	r this application.
	r certify under I	penaity of law th	at I have persor	nally examined and am
famil	lar with the info	ormation submitte	d on this applic	cation form and all
attac	hments, and that	based on my inqu	iry of those ind	díviduals immediately
respo	nsible for obtain	ning the informat	ion. I helieve t	that the information
ie tr	ue, accurate, and	d complete	Ton, I Delleve	that the information
شت ل				
	I am aware that t	cnere are signifi	cant penalties i	for submitting false
intor	mation, including	g the possibility	of fine and imp	orisonment.
		Well Operator	Ashland Explorati	ion Ing///
		By: J. T. Mell	inger	TIUN - 1 D'KC
		Its: Vice Pre		
		Address P.O.		<i>/ / / / / / / / / /</i>
				<u>, </u>
			nd, KY 41114 /	
		Telephone <u>606</u>	-329-5450	
Subsc	ribed and sworn h	before me this 16	th day of Janua	ary , 1991
	1/. 6. 1.1			7
	Wille III.	Nonla.		Notary Public
My co	mmission expires	November 23, 1994		wocary rantic
		1		-