



IV-	35			
(Rev	8-	8	1	de la constantina della consta

State of Mest Birginia

Bepartment of Mines Gil und Gas Division

Date_	***************************************	1/2	4/85			
Opera	itor's	3				-
Well	No		21			
Farm	Bedf	ord				
APT N	in. 1	7 =	001	42111	0627	

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil___/ Gas_x / Liquid Injection__/ Waste Disposal_ /

	District: Clear Fork County Ra	lei	.gh	Quadrangl	e Doroth	ıy

	PANY Ashland Exploration, Inc.	•				
	RESS P. O. Box 391, Ashland, Kv. 41114		Caşing	Used in	Left	Cement fill u
DESI	IGNATED AGENT Forrest Burkett		Tubing	Drilling	in Well	Cu. f
ADDF	RESS Box 156, Brenton, WV 24818		Size			
	FACE OWNER Carbon Fuel Co.		20-16 Cond.	50	50	25 sks
	RESS Suite 1300, One Valley Square-Charles		13-10"	623	623	200 sks
MINE	TRAL RIGHTS OWNER Carbon Suel Co	WV	9 5/8		023	200 585
ADDR	RESS Suite 1300, One Valley Sq Charlesto	on	8 5/8	2263	2263	410 sk
OIL	AND GAS INSPECTOR FOR THIS WORK Rodney	٧V			2203	410 SK
Dil	lon ADDRESS Box 30, Scarbro, WV		7		- Committee of the Comm	
	ATT ISSUED 11/1/84		5 1/2			
REC DESIX	OMPLETION XXXXX COMMENCED 1/3/85		4 1/2	5564	5564	450 sks
DEST	COMPLETED 1/17/85		3			
	APPLICABLE: PLUGGING OF DRY HOLE ON		2		5900	
	TINUOUS PROGRESSION FROM DRILLING OR DRKING. VERBAL PERMISSION OBTAINED		Liners used			
GEOL	OGICAL TARGET FORMATION Gordon, Weir			Dept	h 7027	fe
	Depth of completed well 7027 feet	Ro	otary <u>x</u>	/ Cable	Tools_	
	Water strata depth: Fresh 38 feet;		Salt_ 129	3 feet		
	Coal seam depths: Open mine 568-571		Is coal	being mine	d in the	area?_n
OPEN	FLOW DATA					
•	Producing formation Gordon (W/Dev. Shal	CO	mpleted o	rignially zone dept	h	nas fe
	discourses a supplied and other			tial open	•	
	Final open flow (189) Mcf/d					Bbl
	Time of open flow between ini					Bbl
	Static rock pressure 457 psig(surfa			-		
	parte row bressme is bard latte			ent, after		rs snut
			- /			
	(If applicable due to multiple completion				1_	_
•	(If applicable due to multiple completion Second producing formation Weir	- Angleson	Pay	zone dept		
	(If applicable due to multiple completion Second producing formation Weir Gas: Initial open flow show Mcf/d	<u> </u>	Pay	tial open	flow	Bbl
-	(If applicable due to multiple completion Second producing formation Weir Gas: Initial open flow show Mcf/d	C	Pay Oil: Ini Oil: Fin	tial open al open fl	flow	Bbl Bbl

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

Perf Gordon 20H/ $\frac{4076-4093}{4076-4093}$ - dump 500 gal 15% HCl & 75 Q foam frac using 30,000# 20/40 sand, 300,000 SCF N₂, 173 bbl. TL&FW. BD @ 1390#, ATP 1400# @ 20 B/M foam. ISIP 760#

Perf L. Weir 25H/3501-3535 & perf M. Weir 10H/3465-3475. Dump 500 gal 15% HCl. 75 Q foam frac M. & U. Weir together using 50,000# 20/50 sand, 360,000 SCF N2, 227 bbl TL&FW. BD @ 1800#, ATP 2000# @ 45 B/M foam. ISIP 1200#.

Producing from Dev. Shale & Gordon commingled & from the M. & U. Weir - separated by a pkr @ 3700'.

WELL LOG

FORMATION COL	OR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas				
Reported on	original form							

(Attach separate sheets as necessary)

	ASHLAND EXPLORATION, INC.	
Wel	1 Operator	
By:	Slenk & Clina	
Date:	January 24, 1985	200 - 200 -

(Rev 8-81)

State of Mest Birginia Well No. 21

Popurinent of Mines Oil and Cas Pivision Date 2/6/84 Operator's Farm Bedford Land Co.

API No. 41 - 081 - 0627

Bbl/d

hours shut in

Oil: Final open flow_

Final open flow

OF WELL OPERATOR'S REPORT OF OF OF OF OF ORILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE									
OF BRILLING, FRACTURING AND/OR STIM	ulating, (OR PHYSICA	L CHANGE						
WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergro	n_/ Wast	ce Disposa pe/ Dee	1/ pX/ Sha	llov_/)					
LOCATION: Elevation: 2260.1' Watershed Co	lear Fork	of Big Coa	l River						
District: Clear Fork County Ralei	gh	Quadrangl	e Doroti	ny					
COMPANY Ashland Exploration, Inc.									
ADDRESS P. O. Box 391, Ashland, Ky. 41114				Cement					
DESIGNATED AGENT Forrest Burkett	Casing	Used in		fill up					
ADDRESS P. O. Box 156, Brenton, WV 24818	Tubing	Drilling	in Well	Qı. ft.					
SURFACE QUNER Carbon Fuel Co.	Size 20-16 Cond.	50¹	50'	25 sks					
ADDRESS 1300 - One Valley Square, Charleston, WV	13-10"								
MINERAL RIGHIS OWNER Carbon Fuel Co.	9 5/8	623	6231	200 sks					
ADDRESS 1300 - One Valley Square, Charleston, WV	8 5/8	2263'	2263*	410 sks					
OIL AND GAS INSPECTOR FOR THIS WORK Craig	7								
Duckworth ADDRESS Box 454, Mt. Lookout, WV	5 1/2								
PERMIT ISSUED 12/22/82	4 1/2	55641	5564"	200 sks					
DRILLING COMMENCED 12/1/83	3	پ 4 0رر	2204	200 SKS					
DRILLING COMPLETED 12/19/83	2		59021						
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR				•					
REVORKING. VERBAL PERMISSION OBTAINED	Liners used								
ON			į.						
GEOLOGICAL TARGET FORMATION Marcellus Sha	le	Depti	h 6905	feet					
Depth of completed well 7027 feet Ro	otary X		design of the second						
Water strata depth: Fresh 38 feet; S	Salt 1293	feet							
Coal seam depths: None	Is coal b	eing mined	in the	area? No					
OPEN FLOW DATA Phinantneet									
Producing formation Devonian Shale	Pay :	zone depti	5564	027 feet					
Gas: Initial open flow 70 Mcf/d o	il: Init	ial open f	low	Bbl/d					
Final open flow 492 Mcf/d	Fina	l open flo	w						
Time of open flow between initia									
Static rock pressure 820 psig(surface	measurence	nt) after	96 hours	shut in					
(If applicable due to multiple completion)								
Second producing formation	Pay :	zone depth		feet					
Gas: Initial open flowNcf/d O	il: Initi	ial open f	low	Ibl/d					

Fcf/d

Static rock pressure _____psig(surface measurement) after____

Time of open flow between initial and final tests hours

DEIVLLS OF PERFORMED INTERVALS, FINCTURING OR STITULATING, PHYSICAL CHANCE, ETC.

Devonian Shale 5564 - TD - Open hole foam frac Dev. Shale w/90 Quality foam using 75,000# 20/40 sd, 1642 MSCF N2 & 206 bbl TL&FW.

Broke down @ 3000#, ATP 3900# @ 50 Bbl/min (foam rate)
MTP 4150#, ISIP 2200#, 15 min SI 1700#.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	DOMESTIC DESCRIPTION OF THE PROPERTY OF THE PR	Including i	REMARKS	of -11 6-
TORVILLE COLOR SERVICE COLORS	IOP FEEL	DOLLON FEEL	and salt wa	iter, coal	or all fre
Sand & Shale	0.	428			
Shale	428	450			
Sand & Shale	450	842			•
Shale	842	897	•	•	***
Sand & Shale	897	1228	can C	· Alexand	
Shale	1228	1265	28	and the fifty and and	
. Sand & Shale	1265	1450	Salah di di		•
Shale	1450	1494	- Beaver	3865	
Sand & Shale	1494	1595		[경우 하나#	•
Lower Salt. Sand	1595	2270			
Shale	2270	2305	Sarv Dar	G-572	2
Ravencliff	2305	2348	James Belder green	in the second second of	
Shale	2348	2364			
Avis Ls	2364	2395	1,000 Deed	\$ 8 85°	•
Sand & Shale	2395	2865	Assumation :	60 40	
Lower Maxton	2865	2945			
Shale	2945	2951	Rigging to a fi	는 유럽·오토(+	
Little Lime	2951	3035	and the second second	i marine	
Pencil Cave	3035	3048	Cousins april	. 67728	
Big Lime	3048	3366	W. Colour	5 % 5 tu	
Shale	3366	3395			
Injun 😂 🌼 💮	3395	3424	Cyclotharia		e e
Shale	3424	3459	秦基岛大西部大西部	64 84	
Middle Weir	3459	3481			•
Shale	3481	3499	Opposition of the con-		•
Lower Weir	3499	3613			•
Shale	3613	3838			
Coffee Shale	3838	3864			
Berea	3864	3905		•	
Devonian Shale	3905	TD .			
DTD 7027 Proportiest LTD 7026	的功务				
			5564 3905		· 2 2 - 7
			3405 4659	· · · · · · · · · · · · · · · · · · ·	122
				and the second	1 mo of
•					•

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, IN	C.		
Well Operator			•
By: Clerch S. Une	gailte and	:	
Date: 2/6/84			\$ 1

Note: Regulation 2.02(i) provides as follows:

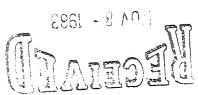
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including only encountered in the drilling of a well."



)	Date:_	November	1
---	--------	----------	---

2) Operator's Serial No. 096481 Well No. Bedford Land No. 21

3) API Well No. 47 -081 - 0627-Ren County Permit



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

	-								
4) WELL TY									
	B ()	If "Gas",	Productio	n	X	_/ Underground	storage	Deep X	_/ Shallow/)
5) LOCATIO								of Big Coal R	
	Di	strict:	lear .	rork.				Quadrangle:	
6) WELL OF			30x 39		cion,	Inc.		DAGENT Forre	
Addres	s <u></u>				117	·····	.Address	Box 1	
			nd, KY		114				on, WV 24818
8) OIL & GA	as inspec Rue Sch			FIED			9) DRILLING C		D
	70	\times 706	1 <u> </u>						Drilling Company
Addres		nevil]	lo LIV	2/19	27/	Michigan Company	Address		gton St., East
						-		Charleston,	
10) PROPOSE	ED WELL	WORK:						/ Stimulate	<u>X</u> /
						/ Perfor			
======			-		-				
11) GEOLOG									
12) Estim	ated depth	of complet	ed well,		6903	feet	top of		
							<u>, salt sand</u>		**
14) Appro	oximate coa	i seam dep	oths: $\underline{}$	<u>0 (0)</u> 20	ben mi	$\frac{\text{ne}}{1}$, $\frac{3}{10}$ is con	al being mined in th	e area? Yes	/ NoX/
	AND IODI				41				K
CASING OR TUBING TYPE		l	IFICATION: Weight	8	.	FOOTAGE I	NTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	16	H-40	54	X	1	30	30	30 sks.	Kinds
Fresh water	77.0//	/ 0	l		1				
Coal .	f !	H-40		X		590	590	Circulate	Sizes
Intermediate		K-55	3	X	1	2265	2265	Circulate	by rule 1505
Production	4 1/2	K-55	11.6	X	-	6905	6905	As Required	Depths set
Tubing			-		1				
Liners			 						Perforations:
	 								Top Bottom
	-		l						
	И		l		<u> </u>			1	
						OFFICE USE O	NII V		
						DRILLING PE			
		, -7	004 06	O = D		JERNALINO E EL	ESTABLE B		
Permit number_		4/-	081-06	<u> </u>	en		***************************************	No	vember 28, 19 83
								Date	
This permit cove	ering the we	ell operato	r and well	location	on shown	below is evidence of	of permission grant	ed to drill in accordan	ce with the pertinent legal re-
No. 8) Prior to	the construc	ction of ro	ads. locat	ions an	ma on me d pits for	reverse nereor. No anv permitted work	ourication must be	given to the District Oi	il and Gas Inspector, (Refer to tractor shall notify the proper
district oil and g	as inspecto	r 24 hours	before ac	tual pe	rmitted w	ork has commenced	d.)	on operator of his com	ractor shall notify the proper
The permitted w	ork is as de	scribed in	the Notic	e and A	pplication	i, plat, and reclama	ition plan, subject i	to any modifications ar	nd conditions specified on the
everse hereof.						,,	The prairies of the control of the c	io any mounteditons at	ia conditions specified on the
Permit expires _	TAOA	ember :	20, 19	ره		unless well	work is commenced	prior to that date and	prosecuted with due diligence.
						-			Ç
Bond:	Agent	: V F	Plat:	Casin	Q	Fee			
	_	12	21/5	0 - 1					
E de	MN	IN	121 1	NX	1 00	0700	The state of the s	and the second of the second o	
						***************************************	•		
	_						Adm	inistrator, Office of O	il and Gas
NOTE: Keep o	ne copy of	this permi	it posted a	t the d	rilling loca	ition.	•		
									File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.





1) Date: September 25 , 19 84
2) Operator's Bedford Land Company Well No. 21, Serial No. 096481
3) API Well No. 47 - 081 - 0627 - FRAC

	SEP & O 1007	State	County	Permit	
	OIL & GAS DIVISION STATE OF WEST VIRGINIA				
materia.	OIL & GAS DIVISION OF MINES, OIL AND GAS DIVISION		CVPROVING THE TOTAL PROVINCE OF THE PROVINCE O		

and the second section of the second	D	_ .	UF I	Al	PLICA	TION FOR A WEL	L WORK PERMIT	And the second sec	CONTROLLER CONTROL TO CONTROL TO CONTROL CONTR
4) WELL TY	PE: A O	il <u> </u>	/ Ga	s2	<u> </u>	ovak se sezes			Taga - Para Alba - S
· ·	В (І	f "Gas", l	Production	1 <u></u>	X	_/ Underground s	torage	/ DeepX	_/ Shallow/)
5) LOCATIO	N: Ele	vation:	2260	0.1		Watershed:	Clear Fork o	of Big Coal R	iver
	Dis	strict:	Clea	ar Fo	rk	•		Quadrangle: _	
) WELL OP	ERATOR_				ition,	Inc.	7) DESIGNATEI	AGENT Forres	
Address	·	······································	Box .				Address	Box 15	
		Ashla	and, K	Y 4]	114				n, WV 24818
OIL & GA				FIED			9) DRILLING C		a
Name R	D			T.TS.7	2501	•••9		i-State Well	
Address		30, S		B WY	2391	- 1	Address		Berea Plaza
	_304	4/469-2						Bridgeport,	
) PROPOSE	D WELL	WORK:						/ Stimulate	<u>X</u> /
						Perfora			
						n well (specify)			
						in Shale, Go	rdon, werr		· · · · · · · · · · · · · · · · · · ·
						feet; salt	. 1293	Saat	•
							,		/ NoX/
) CASING			-	I ALLI	16 700	7-7/118 CO	ai being mineu m m	e area! Tes	/ 140/
Casing or	and iodi		JRAIVI IFICATIONS	,	6	FOOTAGE I	NTEDVATE	I CEMENT FILL-UP	PACKERS
TUBING TYPE		1	Weight	1			1	OR SACKS	i nomino
onductor	Size 16	Grade H-40	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	Kinds
esh water	110	10-40	ره ا	_		50	50	25 sks.	Anto
oal	11 3/4	H-40	42	Х		623	623	200 sks.	Sizes
termediate	- 11	K-55	24	X		2263	2263	410 sks.	
oduction	11	K-55	11.6	X		5564	5564	450 sks.	Depths set
ibing		J-55	4.7	X		5902	5902	and the Contract of the Contra	The second section of the second section secti
ners		1							Perforations:
									Top Bottom
				7			Example 1		
1.50		1 1 4 m/m 2 m 2 m m					and the second	Control principals	· ·
			· · · · · · · · · · · · · · · · · · ·	**************************************		OFFICE USE			
						DRILLING PE	RMIT		· in the second of the second
ermit number_		47-081	-0627-	FRAC				November	1 84
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							***************************************	Da	ite garan garan sa ayan da ayan k
his permit cov	ering the w	ell operate	or and wel	l locati	on shows	below is evidence	of permission grant	ed to drill in accorda	nce with the pertinent legal re-
airements subj	ect to the c	onditions	contained	herein a	and on th	ie reverse hereof. No	tification must be	given to the District O	il and Gas Inspector, (Refer to ntractor shall notify the proper
o. 8) Prior to testrict oil and a	he constructas inspecto	ction of ro or 24 hour	ads, locati s before a	ons and	l pits for rmitted v	any permitted work work has commence	d.)	ven operator or his cor	house a control of the proper
									and conditions specified on the
verse hereof.			_		xppnca	on, piet, and reciant	ation plan, sacject	to diff incuminations	
ermit expires	Nov	ember	1, 198	6	·	unless well	work is commence	d prior to that date and	d prosecuted with due diligence.
·									assesses on a contract
Bond:	Ager	11:	Plat:	Casin	18	Fee			
	200	11	r <			166			J. Same
10	<u> </u>		7	1 -	/ د	47	MI		
							<u> 1 1479</u>	jurit I	Mass
CONT. TY		r Alltonio	.ta	- 44 - 1			Xan	inistrator, Office of C	Oil and Gas
OTE: Keep	one copy o	tnis perm	iit posted.	at the d	irining 10	cation.			File
46		See	the revers	e side c	of the AF	FLICANT'S COPY	for instructions to	the well operator.	
								•	

DRILLING CONTRACTOR:

2101 Washington St., East

1)	Date:	December 17	1982
01			

2) Operator's Well No. 21, Serial No. 09648
 3) API Well No. 47 081 062

County

Permit

State

How Besninges Defiling Co.	STATE OF WEST VIRGINIA
may manage and present one	DEPARTMENT OF MINES, OIL AND GAS DIVISION
	The state of the s

OIL AND GAS WELL PERMIT APPLICATION

5) LOCATION:	Eleva		oduction .			Underground st Watershed:	orage	Deep	_/ Shallow/)
	Distri	TOIL.	lear P	ork		County:	Raleigh	Ouadrangle:	Dorothy
6) WELL OPER	RATOR	shland	Explo	rati	on, I	nc.) DESIGNATED	AGENT FORTES	t Burkett
Address			OR 391		HEARTS IN	(c) or a control of	Address	Box 15	494 41040
	100	53 L L LL C & C & C & C &	1 1 1 A	"Fals distle				Brento	n, WV 24818
OIL & GAS ROYALTY O	WNER _	Carbon	Fuel	Comp	any	12	COAL OPERA	TOR None	
Address				alle	y Squ		Address	Mari St. Mari Monta	CHARLES TO
		Charle 8406	ston,	MA	25301			(Marine Could have	r krandylgan
Acreage		Carbon	Fuel	Comp	anv	13		R(S) WITH DECLAR	ATION ON RECORD:
Address	WNER	1300 -			y Squ	are ball	Name		Valley Square
71441055	1		ston,	WV	25301		Addiess	Charleston,	WV 25301
Acreage		8300					Name		
FIELD SALE	E (IF MAD	E) TO:					Address		
Address							\ COALLEGEE	WIELL DEGLADAT	VOLLON DESCORE
OIL & GAS I	NSPECTO	R TO BE	NOTIFIE	'D		14	Name	WITH DECLARAT	ION ON RECORD:
Name	D. C	raig D	uekwor	The second second			Address	13905 MacCor	kle Ave., 8.5.
Address		Box		-	78	ad L-VI and	A Statitude Wood	Chesapeake,	W 25315
			X X			21.30 (08) 3(1) 3 (0			
PROPOSED	WORK:	Drill		Drill d			/ Frac		
			old form ysical char				ew formation		
GEOLOGICA	AL TARGE				cellu	Shale			Jacobs Trees 1980
17) Estimated				0	905	feet	top of	Walles it hestoor	Carlo Septiment
18) Approxim			Control of the Contro	ı,	I now how		alt, sait sand	feet.	
19) Approxim	nate coal se	am depths	720	pen	mine)	Is coal	being mined in the	area? Yes	/ No
CASING AN	D TUBINO	PROGR	AM						
CASING OR		SPI	ECIFICATIO	NS	1	FOOTAGE	E INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	10"	H-40	54	X		30	30	30 sks	Kinds
Fresh water	27 271	w los	hes			EAR			
Coal	R 5/8	8-55	24	A		2265	2265	Circulate	Sizes
Intermediate	4 1/2	K-55	11.6	X		6905	6905	As Required	Depths set
Production									Depths set
Production Tubing									
									Perforations:
Tubing									Perforations: Top Bottom
Tubing Liners	N RIGHTS								
DEXTRACTIO Check and pro Include The rec ROYALTY P Is the right to e similar provisi produced or m the answer above Required Copies of this named coal o Mines at Cha	ovide one of distribution of the least quirement of ROVISION extract, profon for commarketed? e is No, no ies (See reves Permit Apperator, correston, Western, Western, Western, Western, Western, Western, Western, Service of the least of t	f the follows or lease or lease of Code 22 (S) duce or mapensation Yes thing additional owner(set Virginia	arket the control to the own No in the control is not the error, and the error, and the error, and coata.	oil or gaver of eeded.	s based up the oil o If the ans plat and on or be	oon a lease or other gas in place whitewer is Yes, you meclamation plant fore the day of the	r specifics.) r continuing contrach is not inherently may use Affidavit F have been mailed b e mailing or deliver	y related to the volum orm IV-60. y registered mail or de	Top Bottom
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NOTE: Keep one copy of this permit posted at the drilling location.

Geological Survey