



IV-35 (Rev 8-81)

	Date	3/26/84		
	Operator			
Z	Well No.			
	Fare Chi	ristian Col	lliery	
	API NO.	47 - 019	- 0511	-REN

State of Mest Wirginia

Bepartment of Mines Oil and Cas Zdvision

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil __/ Gas X / Liquid Injection __/ Waste Disposal __/ (If "Gas," Production X / Underground Storage __/ Deep X / Shallow __/)

LOCATION:	Elevation:	1008.5	Watershed	Lost	Branch o	f Paint	Creek
	District:		County Fa	yette	Q	uadrangl	e Powellton

COMPANY Ashland Exploration, Inc.				
ADDRESS P. O. Box 391, Ashland, Ky. 41114	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Forrest Burkett	Tubing	Drilling	in Well	Qi. ft.
ADDRESS P. O. Box 156, Brenton, WV 24818	Size		•	
SURFACE OWNER Christian Colliery Co.	20-16 Cond.	30°	30"	20 sks
ADDRESS 214 Orchard Way, Wayne, PA 10987	13-10"	325'	325 '	180 sks
MINERAL RIGHIS OWNER Christian Colliery Co.	9 5/8			
ADDRESS 214 Orchard Way, Wayne, PA 10987	8 5/8	1021'	1021'	200 sks
OIL AND GAS INSPECTOR FOR THIS WORK Rue	7			
Schoolcraft ADDRESS Box 706, Pineville, WV / 24874	5 1/2	÷		
PERMIT ISSUED 11/23/83	4 1/2	4233°	423 3 °	150 sks
DRILLING COMMENCED 1/18/84	3			
DRILLING COMPLETED 2/1/84	2		4426'	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used			
ON		<u>.</u>		
GEULOGICAL TARGET FORMATION Onondaga Lime		Dept	th 5728	fcet
Depth of completed well 5819 feet F	otary I	_/ Cable	e Tools	
Water strata depth: Fresh 30' & 260feet;	Salt 40	<u>)7'</u> fæt		
Coal seam depths: None	Is coal	being min	ed in the	area? <u>No</u>
OPEN FLOW DATA				
Producing formation Devonian Shale	Pay	zone dept	th <u>5592-42</u>	133feet
Gas: Initial open flow 16 Mcf/d		tial open	flow	Bbl/d
Final open flow 133 Mcf/d	Fir	al open f	low	Bbl/d
139 Time of open flow between initi	al and fi	nal tests	<u>3</u> ho	urs
133_Static rock pressure 630 psig(surface	neasuron	rent) after	r 144 hou	rs shut in
(8 12 (If applicable due to multiple completion-			210 8 -	-2124
MCF Second producing formation Gordon & Weir	Pay	zone dep	th 2697-	-2712 feet
FOrGas: Initial open flowYcf/d				
Final open flow 1739 Mcf/d				
Time of open flow between initi				
Static rock pressure 650 psig(surface	measurem	ent) after	144 hour	rs shut in
	1	Pro L.º.		

FURM IV-35 (PEVAPSE)

served an or service requirements where the

DETAILS OF PERFORATED INTERVALS, FRACTURING OF STHEALATING, PHYSICAL CHANGE, ETC. 75 Q open hole foam frac Devonian Shale 5592-4233 using 90,000# 20/40 sand, 1,050,000 SCF N₂, 412 bbl TL&FW, 380 bbl TSLF. BD @ 2800#, ATP 3000# @ 16 B/M. MTP 3100#, ISIP 1600#, 15 min 1500#.

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Rhynostreet

> Hunon

75 Q foam frac Gordon thru 20H/2696-2712 using 500 gal 15% HCl, 50,000# 20/40 sand, 297,000 SCF N2 @ 9000 SCF/min. BD @ 1100#, ATP 1150#, MTP 1150#, ISIP 600#, 15 min 600#, TL&FW 212 bbl, TSLF 172 bbl.

75 Q foam frac Weir thru 24H/2108-2124 using 12,000# 20/40 sand, 130,000 SCF N₂₅ 134 bbl TL&FW, 84 bbl TSLF (screened lout - soap pump failure.)

		lastration .	RÉMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fre
	Į	Į	and salt water, coal, oil and g
Sand	·0·	196	Fresh wtr @ 30'
Shale	196	307	Fresh wtr @ 260'
Salt Sand	307	858	Salt water @ 407'
Shale	858	982	•
Sand & Shale	982	1030	:
Avis Limestone	1030	1060	
. Shale & Sand	1060	1540	
Lower Maxton	1540	1568	
Shale	1568	1606	÷
Little Lime	1606	1675	· · · · · · · · · · · · · · · · · · ·
Pencil Cave	1675	1702	
Big Lime	1702	2002	
Shale	2002	2019	
Injun	2019	2053	
Shale	2053	2094	
Upper Weir	2094	2125	•
Shale	2125	2170	
Middle Weir	2170	2184	
Shale	2184	2202	
Lower Weir	2202	2235	Show of gas
Shale	2235	2468	
Coffee Shale	2468	2490	•
Berea	. 2490	2524	
Devonian Shale	2524	2692	
Gordon	2692	2713	Show of gas
Devonian Shale	2713	5735	Show of gas 5735
Onondaga LS	5735	TD	5592
DTD 5815			143
LTD 5786			
35			125
s l'			4732 51,64
-			2524 25%
			E to Q i a la
			1107 3
		- "	
	(Attach sepa	rate sheets d	as necessary)
	A CUT AN	D EXPLORATION	I. INC.
		and the second	
	Mett (perator	101
	Daa-	Aller B	1 Wi
	By:	acrick	1. I Ung
	Date:	March 26, 1	984
			•

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including

WELL LOG

									500	
					WEST	•	1) Date: NO	ovember	7	, <u>19</u> 83
FORM IV-2(B) (Obverse)	FILE COPY				50 x 5	È	2) Operator	, Seria	1 #096561	
7-83							Well No.	Christi	an Collier	y #5
)+/	3) API Well	No	<u>- 019 - (</u>	0511-Ren
					Plan starts list	The second s		State	County	Permit
				STA	TE OF WEST	VIRGINIA				
			DEPA	RTMENT (OF MINES, OI	L AND GAS I	DIVISION			
			Al	PLICATIO	N FOR A WE	LL WORK PE	RMIT			•
	*		7							
4) WELL TYP	E: A Oil					_		77		
	B (If "Gas			<u> </u>	Underground	i storage	/	Deep <u>A</u>	/ Shallow	/)
5) LOCATIO		1008.				Lost Br				
		Valley							Powellton	-
	ERATOR <u>Ash</u>			1011, 11	<u>.C.</u>				est Burket	E
Address		Box 39 and, KY		1 /.		Addre	ess	Box		(010
				14	-			Bren	ton, WV 24	4818
	SINSPECTOR T		IFIED			9) DRILLII			D • 1 1 •	ä
	Rue Schoo					Name			s Drilling	
Address		<u>0x 706</u> 11e, WV	7 248	7/1		Addre			ington St.	
									n, WV 253	
U) PROPOSE	D WELL WORK			/ Drill		/ Redrill			/	
						orate new form	nation	/		
					ell (specify)				ca/arane	man
	CAL TARGET F		-	<u>nondaga</u> 728'			د		HS(CBIL)	¥ Þ
-	ted depth of comp				feet	- •		18	L'	
	timate trata depth			~		lt <u>, salt s</u>		eet.		1002
	cimate coal seam of		NOI	e	Is co	oal being mined	I in the area?	Yes	NOV-NS-	1983
	ND TUBING PR								OU & CAS F	IVISION
CASING OR TUBING TYPE	SI SI	ECIFICATION	is	1	FOOTAGE	INTERVALS	CE	MENT FILL-UP OR SACKS	QIL & GAS D	RS
	Size Grad	per ft.	New	Used	For drilling	Left in w	ell	(Cubic feeD)	PT. OF	MINES
Conductor	<u>11 3/4 H-4</u>	0 43	X		40	4	0 20	sks	Kinds	
resh water										
Coal									Sizes	
ntermediate	<u>8 5/8 K-5</u>	1	X		994	994	4 Cir	<u>c to sur</u>	ace by 1	-ule 1.5
roduction	4 1/2 K-5	5 10.5	X	·	5728	572	8 As	needed	Hoppity still	15.01
ubing										
iners									Perforations:	
									Тор	Bottom
			+						·	
							1			
								*		
				~~~	TIOP ITOP		····			
					FICE USE					
				UK	ILLING PE	TRIAN I				
ermit number	47-0	19-0511	-Ren					No	vember 23,	19 83
								Da		
his permit cover	ing the well oper	ator and we	ll locatio	n shown bel	ow is evidence	of permission	granted to dr	ill in accorda	nce with the perti	nent legal re-
iirements subjec	t to the condition	s contained	herein a	id on the re-	verse hereof. N	otification mus	t be given to	the District O	il and Gas Inspec	tor (Refer to
o. 8) Prior to the strict oil and ga	e construction of s inspector 24 ho	roads, local	tual ner	pits for any mitted work	permitted work	k. In addition,	the well oper	ator or his co	ntractor shall noti	fy the proper
ne permittea wo verse hereof.				oplication, p	iat, and reclam	iation plan, sub	oject to any n	nodifications	and conditions spe	ecified on the
ermit expires	November	23, 19	85		unless wel	work is comm	enced prior to	that date and	prosecuted with	tue diligo
							encea prior it	, mui uait alle	» prosecuted with (	aue unigence.
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Dand	Agent:	Plat:	Casin	; Fee		P				
Bond: RIM	11 / IN		<b>`</b>	117/	61	4.0		$\Delta$	1	
^{Bond:} BUN	" Vnl	MA	mI		2	n/1		· / /	/	
Bond: KLT BUN	la	MA	m!.			Man	allist	1. LI	and a	
Bond BUN		m.k	m /.		<u> </u>	Mari	Administrate	J. A	ass.	
	e copy of this pe	mit posted	<u>M</u> . at the dr	lling locatio		Mari	Administrate	Dr, Office of (	Cil and Gas	

FGRM (Obve	A IV-2 rrse)	N				SUL WEST VIE	A State State State			16,	
(6-82)								Well No	, ), Seria	1 No. 09650	51
DDI	LUNC CONT	BACTOD.				A SALINA STATES	3)	) API W	ell No. <u>47</u> State	019 0511 County	Permit
	LLING CONTI Resource			DEP		TE OF WEST VI		IVISION		County	rennu
	1 Washing	ton St	., Eas	at:		S WELL PERMI					
Cha	rleston,	WV 25	311								
4)	WELL TYPE:	A Oil	ef isana	_/ Gas	/						
5)	LOCATION:		Gas", Pro	oduction		/ Underground s Watershed:	orage	ich of	Palit Cre	/ Shallow _	/)
5)	LOCATION.	Distrie		lley	itton -	County:	yette		Quadrangle:		
6)	WELL OPER	ATOR	. Q. 1	1 11.9101 ( 30X 391	ttion, .	1	) DESIGN.		JENI	Box 156	
	Address	A	shland	i. XY 41	1224	ald sa usib as	Addre	ess		son, wy 24	818
7)	OIL & GAS ROYALTY O Address	WNER _	14 ore	hard Way	( Indiana)		2) COAL O		R	- Location mineable c	
	Traditobb		051.78	PA 1900	7			100 - 100 			
8)	Acreage SURFACE OV			an Colli	tery Con	apany 1	3) COAL O Name	WNER(S)	) WITH DECLA	ARATION ON RE	ECORD:
0)	Address	4		PA 1900	1000		Addre	222	14 Orchard ayne, PA		
			051.78						ay 110 9 1 15	+2001	
9)	Acreage FIELD SALE	(IF MAD	E) TO:				Name Addre		The second se	A CONTRACT	
10)	Address		D TO DE	NOTIFIED	<u>Ann Serre</u>	1			TTH DECLARA	ATION ON RECO	DRD:
10)	OIL & GAS I	NSPECIC	OR TO BE	NOTIFIED			Name Addre				
	Address	Ht. D	ookout	, WY 26	678	Calls Level 2007					<u>-84</u>
15)	PROPOSED	WORK:				/ Redril / Perforate 1			e or stimulate_	/	
				ysical change				/II			
16)	GEOLOGICA				5728		and the second second				
	<ul><li>17) Estimated</li><li>18) Approxim</li></ul>	TR. C. S. S. S. S. S.	and the second	ths: Fresh,	Mana	feet;	salt, of	salt	feet.		
	19) Approxin	nate coal se	am depths		none	Is coa	l being mined	l in the are	a? Yes	/ No	/
20)	CASING ANI	D TUBINO	B PROGR	AM							
	CASING OR TUBING TYPE			ECIFICATIONS			E INTERVALS		CEMENT FILL-UF OR SACKS	PACKE	RS
-	Conductor	Size	Grade	per ft.	New Used	For drilling	Left in v	weii	(Cubic feet)	Kinds	
	Fresh water				stur,				. An All Angel		
-	Coal Intermediate	8 5/8	x-55	24 2	1	994	994	C	ire to su	Sizes	
-	Production	4 1/2	K-55	10.5 / X		5728	5728	A	a needed	Depths set	
	Tubing								an a		
-	Liners				and stars	and the states	and we have a		noistrosta:	Perforations:	<u></u>
										Тор	Bottom
-	and the owned it					TER STRATE	and Messel		set of the SR.		(12
11	The req	ovide one of d is the lea juirement of ROVISION	of the follouse or leas of Code 22	es or other co 2-4-1-(c) (1) th	arough (4).	ntract or contracts (See reverse side fo	or specifics.)				
						upon a lease or oth or gas in place wh					
	produced or m	narketed?	Yes 🗌	No 🗌							
If the 23)	Required Copi	ies (See rev	verse side.	)		nswer is Yes, you					
24)	Copies of this	Permit A	pplication	and the enclo	sed plat and	l reclamation plan before the day of the	have been mailing or	ailed by re	egistered mail or	delivered by hand polication to the I	to the above Department of
	Mines at Chan	leston, Wo	est Virgini	a	ssee on or o	croit the day of th	ic maning of	derivery c		pplication to the 1	
2	Notary:	W. A	aeau	voelt	if base	manari incernit	Signed:	h- 166	Mar Maker?	Angelia	1
2	My Commission	n Expires	Hely	21, 192	86	- Antipolis - Anti-	Its:	legion	1 Civil H	ngineer	
					C	OFFICE USE (	ONLY				
		- Ca	47-0	19-0511		DRILLING PE		Jan	uary 1		19
	mit number									Date	
qui (Re	rements subject fer to No. 10) P	to the con rior to the	ditions co constructi	ntained herein on of roads, lo	n and on the ocations and	below is evidence of reverse hereof. N pits for any permit itted work has con	ted work. In a menced.)	addition,	en to the Distric the well operator	or his contractor s	shall notify the
1 6	mit expires		44	Diati			illing is comm	nenced pr	ior to that date a	nd prosecuted with	due diligence.
	Bond:	Agen	.:	Plat:	Casing	Fee		Admi	nistrator Office	of Oil and Gas	