



IV-35 (Rev 8-81)

### Sinte of Mest Pirginia Pepartment of Mines

Oil und Cas Pivision

Date	Octob	er l	2, 1	982	
Opera	ator's	;			
Well	No.	$\mathcal{L}_b$			
Farm	Chris	stian	Col	lier	У
API I	No. 47	- 0	19		0482

#### WELL OPERATOR'S REPORT

OF

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

WELL	TYPE:	Oil_ (If "G	/ Gas_ as," Pro	X / Li	quid In	jection dergrou	1/ Was and Store	ste Disposa nge/ Dee	l_/ p_x/Sha	allow_/)
LOCA	rion:	Elevation	on: 1726	.31	_Waters	hed Rig	ght Fork	of Spring H	Branch of	Paint Creek
		District	t: Vall	еу	_County	Fayet	tte	Quadrangl	e Powell	ton
		•								
december of the second										
COMP.	ANY_As	shland Exp	oloration	, Inc.				,		
ADDRI	ESS <u>p</u> .	0. Box 3	391, Ashl	and, Ky	. 41114	~~~	Casing	Used in	Left	Cenent
DESI	GNATED	AGENT_EC	rrest Bu	rket <b>t</b>	•		Tubing	Drilling	in Well	fill up Cu. ft.
ADDRI	ESS <u>P</u> .	0. Box 1	56, Bren	ton, WV	24818		Size			÷.
SURF	ACE ON	NER_Chris	stian Col	liery C	0.		20-16			
ADDRI	ESS <u>21</u>	4 Orchard	i Way, Wa	yne, PA		-	Cond-			
MINE	RAL RI	GHIS OWNE	ER_Chris	tian Co	lliery (	Co.	13-10-3	/8 25	25	18 sks
ADDRI	ESS 21	4 Orchard	l Way, Wa	yne, PA		_	9 5/8			
OIL I	AND GA	S INSPECT	OR FOR !	THIS WO	RK D. C	raig	8 5/8	1497	1497	100 sk <b>s</b>
Ducky	worth	ADDRE	ESS Rt. 2	, Box 2	-D, Sand	 iyville	7			
		UED 4/			WV		2 1/2			
		OMMENCED		2		market and the second s	4 1/2	6483	6483	272 sks
		OMPLETED					3			
		BLE: PL			OLE ON		2 3/8	3	6009'	Pkr @ 2813
TROOF	INVOUS	PROGRESS	SION FROM	M DRILL	ING OR		Liners			
		VERBAL	PERMISS:	ION OBT	AINED		used			
0.1	N,	/A				Provider and trades (Constitution of the Constitution of the Const	1			
GENT	DGICAL	TARGET H	FORMATION	Mar Mar	cellus			Dep	th 6421	feet
	Depth	of exampl	leted we	L <b>1</b> 650	)2	feet F	Rotary_X	/ Cabl	e Tools_	
	Water	strata õ	depth: 1	Fresh		feet;	Salt_8	63 feet		
	Coal:	seam dept	hs: 1	None			Is coal	being min		e area? No
OPEN	FLOW I	DAT <b>A</b>	-				LI.	von +Phinas	treat (See )	og Cle
		cing form	nation	Devon: Gordon	ian Shal	e		y zone dep	**************************************	6162
	Gas:		***************************************	ACCEPTANCE OF THE PROPERTY OF	terotons-	cf/d		itial open	William Committee	The second secon
	· ·		en flow	Trans.		of/d		inal open f	***************************************	Bbl/d
			•	The state of the s		-		inal tests		Bbl/d
	©#\\\$\\\$	c rock pr						•		ours
The same		_	*****					sient, arte	r 120 hou	urs shut in
G		pplicable			A125-07-220-00-00-00-00-00-00-00-00-00-00-00-00	Attenta to succession of the Parket			2742-27	2.0.0
.V		d produci		•		Maxtor		y zone dep	The state of the s	203 feet
4.	CLID.	mutidi.	<del></del>	A CONTRACTOR OF THE PARTY OF TH				nitial open	(Moreon	Rbl/d
		_	en flow	and the second second	<i></i>			inal open f	May por house	Bbl/d
							*	inal tests		ours
	Stati	c rock pi	ressure	<u>600</u>	_psi.g (s	urface	nsosura	ent) after	120 hou	urs shut in

FORM IV-35
(PEVERSE)
Completed as dual gas producer w/initial (total potential 1467 MCF/D) Gordon & Devonian Shale @ 619 MCF/D & Upper Weir & L. Maxton @ 848 MCF/D.

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STITULATING PHYSICAL CHANGE, EFC.

1st Stage - Perf Devonian Shale 36H/5715-6162, foam frac w/1500gal 28% HCl,

75 Quality foam. BD @ 1800#, ATP 4000# @ 10 B/M (wtr) 25,000# 20/50 sand. BD @ 1800#,

Rhinstrassip @ 2350#, 15 min 1500#, TSLF 125 bb1, TL&FW 232 bb1.

2nd Stage - Perf Devonian Shale 40H/4907-5146 w/1500 gal 15% HCl & ball out. BD @ 900#

60 perf balls, foam frac w/75 Quality foam @ 45 B/M (foam) using 25,000# 20/50 sand,

[Not 0600 MCFN2, ATP 2836#, ISIP 1500#, 15 min 975#, TSLF 164 bb1, TL&FW 230 bb1s.

3rd Stage - Perf Gordon 16H/3409-3422. Foam frac w/75 Quality foam, 500 gal 15% inh HCl acid. ATR @ 20 B/M, 30,000# 20/40 sand, 252 MCFN2, BD @ 1380#, ATP 1300#, ISIP 810 15 min 710#. TSLF 104 bbl, TL&FW 154 bbls.

4Fh Stage- Perf Upper Weir 16H/2742-2755, frac w/75 Quality foam, 500 gal 15% HCl acid

4th Stage- Perf Upper Weir 16H/2742-2755, frac w/75 Quality foam, 500 gai 15% HCl actor 30,000# 20/40 sand, 198 MCFN<sub>2</sub> @ 20 B/M (foam) BD @ 1040#, ATP 1120#, ISIP 750#, 15 mir 690#.

5th Stage - Perf Lower Maxton 14H/2192-2203 - foam frac w/75 Quality foam, 500 gal 157 HCl acid, 30,000# 20/40 sand, 100 MCFN2, ATR @ 20 B/M, BD @ 1400#, ISIP 700#, ATP 1056 15 min 400#, TSLF 134 bbls., TL&FW 184 bbigLL LOG

			RÉMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all:
10% Alion Commit Had on Coll	101 1111		and salt water, coal, oil and
Sand & Shale	0	205	
Shale	205	267	TE CONTROL OF THE CON
Sand	267	340	
Shale	340	448	
Sand & Shale	448	.703	
Shale	703	750	
Sand	750	820	
Shale	820	85 <b>3</b>	
Salt Sand	853	1488	•
Shale	1488	1623	
Avis Ls.	1623	1654	
Shale	1654	1733	
Upper Maxton	1733	1768	
Shale.	1768	1802	
Stray Sand	1802	1828	
Shale	1828	1872	
Middle Maxton	1872	190 <b>0</b>	
Shale	190 <b>0</b>	2172	
Lower Maxton	2172	2216	
Shale	2216	2218	
Little Lime	2218	2279	
Pencil Cave	2279	2312	
Big Lime	2312	2611	
Shale	.2611	2651	
Injun	2651	269 <b>2</b>	- Company
Shale	269 <b>2</b>	2718	
Upper Weir	2718	2759	·
Shale	2759	2847	
Lower Weir	284 <b>7</b>	286 <b>9</b>	
Shale	286 <b>9</b>	3100	
Coffee Shale	3100	3122	
Berea	3122	3155	
Devonian Shale	. 3155	340 <b>0</b>	
Gordon	3400	3424	
Devonian Shale	3424	6460	
Onondaga Ls.	6460	6493	
ensity control and a state of the control and great and a state of the control and a state of the cont	- west best the state of the st	and the second s	
LTD B493	A STATE OF THE PROPERTY OF THE	2	8
DTD(6502)			

(Attach separate sheets as necessary)

ASHLAND	EXPLORATION, INC.	
Well Operat	tor	
By: Dan	il Beldier	
Date:	tober 12,1982	4

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

(Obverse)
(Revised 3-81)



well No	4-Serial No. 094261
Farm	Christian Colliery Co.
API #47 -	019 - 0482
Date	April 2, 1982

## STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

### OIL AND GAS VELL PERMIT APPLICATION

VILANU VAS III.L.	
WELL TYPE: 011 / Gas X /	•
(If "Gas", Production X / U	nderground storage / Deep X / Shallow /
LOCATION: Elevation: 1726.3 Water District: Valley Count	shed: Right Fork of Spring Branch of Paint Creek Y: Fayette Quadrangle: Powellton
WELL OPERATOR Ashland Exploration, Inc.	DESIGNATED AGENT Forrest Burkett
Address P. O. Box 391, Ashland, KY 4;	1114 Address P. O. Box 156, Brenton, WV 24818
OIL AND GAS ROYALTY OWNER Christian Colliery Co.	COAL OPERATOR None
Address 214 Orchard Way Wayne, PA 19087	Address
Acreage 4051.78	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Christian Colliery Co.	NAME Christian Colliery Co.
Address Same	Address Same
Acreage 4051.78	NAMEAddress
FIELD SALE (IF MADE) TO: NAME	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
	Address
OIL AND GAS INSPECTOR TO BE NOTIFIED:	
NAME D. Craig Duckworth Address Rt. 2 Box 2-D	APR 6 - 1982
Sandyville, WV 25275 Telephone 304-273-5853	— OIL AND GAS DIVISION WY DEPARTMENT OF MINES
above location under a deed / lease	itled to operate for oil or gas purposes at the $\chi$ / other contract / dated Máy 21, 1956,
to the xortex-signed xwellx openedox from C United Producing Co. (If said deed, lease, or other contract h	hristian Colliery Co.  eas been recorded: ) when the college is least that the college is the college in the co
	office of the Clerk of County Commission of
Fayette County, West Virginia, i	n Deed Book at page 374 . A permit is
PROPOSED WORK: Drill X / Drill Deep	per / Redrill / Fracture or stimulate X / / Perforate new formation /
Other physical change	in well (specify)
	the work order on the reverse side hereof. (s), and coal lessee are hereby notified that any
Department of Mines within fifteen (15) d	red to make by Code \$22-4-3 must be filed with the lays after receipt of this Application by the Depter enclosed plat and reclamation plan have been
mailed by registered mail or delivered by	hand to the above named coal operator, coal own- day of the mailing or delivery of this Applicatio
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Ashland Exploration, Inc.
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION	By: Jun H Burtuth
1613 WASHINGTON ST., E. CHARLESTON, WV 25311	John H. Burtnett  Its: Regional Civil Engineer
Telephone - 304/348-3092	

(Revised 3-81)

#### PROPOSED WORK ORDER

# THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACT	TOR (IF K	(NOWN)	Ray	Resour	ces Dril	ling Co.		
	Ad	dress	630	Commer	ce Square	9		
		<del></del>	Char	leston	, WV 25	5301		
GEOLOGICAL TARGET Estimated dept Approximate wa Approximate co Is coal being	ch of com eter stra pal seam	pleted ta dept depths:	well_ hs: NON	6421 Fresh E	fee	feet;	y x / Cabl	feet.
	SPEC	IFICATI Weight			For Dril		CEMENT FILL- UP OR SACKS Cubic ft.	
Conductor   13 3/3	8 н40	48.00	X	-	40.	401	15 <b>s</b> ks	Kinds
Coal								Sizes
Interced. 185/ Production 141/ Tubing	8 K55 2 K55	24.00 10.50	X X		1450 6421	1450 6421		surface as neede Depths set
Linera								Perforations: Top Bottom
THIS PERMIT MUST BE ARTICLE 4 OF THE WAPPROVED FOR DEFENDED FOR DEPARTMENT HAVE BY	18, or i "Ecclama "Ecclama "Ecclama "A Regul "Code 82 "On the o  Form IV- "uring or is noted  EPOSTED A NG IN ACCU "I VA. CODE	n lieu tion Pl ation 2 2-4-12a wher of 2 shall stimul as such THE WELL CORDANCE THE LOC THIS	there an" a 3, (i 3, (i 4, and any i not ating h on  SITE WITH	of the pplies of the control of the pplies of the control of the c	cother site to the form of application of the part or mained for the part or the part of t	rearrity all he realisme ionely paintle, the dwelling was fracture of the we filed in a	clowed by Codation required on the same consent required thin 200 feing or stimularly for which connection the	ne well, the fee ired by Code et of the pro- eating a well a permit is merewith.
The undersigned colored for the vertice of the well larged has no objected presented by the governing regularity.	see who sucd wit pal opera ned this ocation, ection to complied	has reconstruction fifty that the view of the wold with a	orded teen  / own ed we 11 lo	a dra (15) a W A L er 11 loc cation opose	claration $\frac{V E R}{I \text{ lesses}}$	under Coc eccipt the e / of If a mine en added to done at th	the coal under map exists we the mine mais location,	which covers the ap. The under- provided the
Date:	, 19_	•			***************************************			
				В	y:			Luney