

(Revised 3-81)



Well No. One(1)	
Farm Richard W. Harbert	
API #47 -091 - 0204	
Date June 12, 1981	_

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

OFFICE OF OTE AND GAS - DEPARTMENT OF MINES

WELL TYPE: 011 / Gas xxx/	
A PA A A A A	
(If "Gas", Production xxx Unc	erground storage / Deep / Shallow /
LOCATION: Elevation: 1480° Watersh	ned: Jack Rin
	Taylor Quadrangle: GRFTON 7.5
WELL OPERATOR Fox Drilling Co., Inc.	DESIGNATED AGENT Robert F. Fox
Address P.O. Box 129.	Address P.O. Box 129
Address P.O. Box 129, Glenville, WV 26351	Glenville, WV 26351
OIL AND GAS	
ROYALTY OWNER Richard W. Harbert, et ux	
Address Rt. 4, Box 104	Address
Acreage 275.676	
210,010	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Richard W. Harbert, et ux	
Address Rt. 4, Box 104	Address Grant Bldg.
Grafton, WV 26354	Pittsburgh, PA
Acreage 275.676	NAME
FIELD SALE (IF MADE) TO:	Address
NAMEunknown	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
	NAME DECERTORED
COLL AND CAR INCREATED TO BE MOTIFIED	Address
OIL AND GAS INSPECTOR TO BE NOTIFIED:	
NAME William Blosser	JUL 21 1981
Address P.O. Box 1028	· · · · · · · · · · · · · · · · · · ·
Coalfax, WV 26566	OIL & GAS DIVISION
Telephone 304-363-9105	DEPT. OF MINES
	2 1 3 2 mm - 1
The undersigned well operator is entit	led to operate for oil or gas purposes at the
above location under a deed / lease xxx	led to operate for oil or gas purposes at the dated May 22, 1980,
The undersigned well operator is entit above location under a deed / lease xxx to the undersigned well operator from Richard R	led to operate for oil or gas purposes at the dated May 22, 1980,
above location under a deed / lease xxx	led to operate for oil or gas purposes at the k/ other contract / dated May 22 , 19 80, chard W. Harbert
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(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN)	Fox Dril	ling Co.,	Inc.		
Address_	P.O. Box	129		PRESIDENTIAL AND AND THE STATE OF THE STATE	
	Glenville	e, WV 263	351		
GEOLOGICAL TARGET FORMATION	Oriskanv				
Estimated depth of completed	well 8100				e tools/
Approximate water strata dept Approximate coal seam depths:	ths: Fresh 350/450	, 80	feet; s	salt,	tect。
Is coal being mined in this a	rea: Yes		<u>xx /</u>		
CASING AND TUBING PROGRAM	0.110	IECOTACE.			2
CASING OR SPECIFICATI TUBING TYPE, Weight	UNS			CEMENT FILL- UP OR SACKS	
Size Grade per ft	New Used	ling 20	Well 20°	Cubic ft,	Kinds
Fresh water		20	20		
Coal Intermed. 8:5/8	1	1500'	1500'	350 sks.	Sizes
Production :4 1/2			8100'		Depths set
Tubing Liners					Perforations:
					Top Bottom
NOTE: Regulation 7.02 of the Dep copies of Form IV-2 must be the form prescribed by Reg Regulation 12, or in lieu Form IV-9, "Reclamation Pl 822-4-12b and Regulation 2 required by Code 822-4-12a 852-4-8a from the owner of posed well. A separate Form IV-2 shall where fracturing or stimul sought and is noted as suc IMIS PERMIT MUST BE POSTED AT THE All provisions being in accordance with Cof the W. Va. Code, the location is hereby for drilling. This permit she operations have not commenced by 3-2 Deputy Director-Oil & Gas Division. The following waiver must	thereof the an" application of the and (v) and (v) and water not be reating is the on the F WELL SITE Comproved all expire if 7-82	th the Da , (ii) a e other s able to t less prev if applia well or quired fa o be part orm IV-2	partment, bond in on ecurity al he reclama iously pai able, the dwelling was fracturing filed in contact of the word filed in contact oper ecoal oper ecoa	accompanied of the for lowed by Cod tion required on the same consent required on stimulary for which connection the connection of the con	by (i) a plat in me prescribed ly le \$33-4-1, (iii) led by Code ne well, the fee wired by Code net of the pro- lating a well a permit is nerewith.
or coal lessee who has recisive is to be issued within fif The undersigned coal operator location has examined this proposerea of the well location, the we signed has no objection to the wowell operator has complied with a the governing regularions. Date:	teen (15) WAL owner ed well location propose	days of r $ \begin{array}{c c} V & E & R \\ \hline I & lessee \\ \hline cation. \\ en & has been \\ d & to be consisted to be consisted to be consisted. $	eceipt the yellow / of the life a mine and a to the life at the life rements of	reof: The coal under map exists we the mine man is location,	er this well which covers the ap. The under-provided the irginia Code and
	Е	By:	Villiam.	R. Kohl	7
			Goologic		

TERCFILE (Fev 8-81)



Date	5/20/	82 ·	
Opera	itor's		
Well		One	

Stode of Mest Birginia

Bepartment of Mines Oil und Cas Bivision: __ API No. 47-091-0204 -_

Farm R. Harbert

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas _{xxx} / Liquid Injection (If "Gas," Production Undergrou	/ Wastu ind Storage	e Disposal e/ Deep	Sha	ارينيز)
District: Booth Creek County Taylor	c	Quadrangle	Grafton	
Discrice. Booth Cress.				
MARKET Fox Drilling Co. Inc.				Cenent
Pox brilling co. The. Pox Box 129 Glenville, WV	Casing	Used in		fill up .
DESIGNATIO AGENT Robert E. Fox	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 129 Glenville, WV	Size		Parking and a second a second and a second a	
	20-16		and the state of t	6
SURFACE (KINER_Richard W. Harbert	Cond			
ADDRESS Rt. 4 Box 104 Grafton, WV-	13-10"			
MINERAL RIGHTS OWNER Same	9 5/8		4.4.5.	to surface
ADDRISS Same	8 5/8	1446'	1446'	TW SHIT GOL
OIL ALD COS INSPECTOR FOR THIS WORK William	7			
Blosser ADDRESS Coalfax, WV	5 1/2			50001
11PMT 15 SUED 7-21-81 3.26-82	4 1/2		7604	to 5900'
DENTILING OPPMENCED 4-2-82	3			
DRILLING O SPIETED 4-15-82	2			
DIVICEDE OF DRY HOLE ON	Liners			-
THE PERSON FROM DRIVING ON	used			
DWITHOUS PROGRESSION OBTAINED NOTE: THE PERMISSION OBTAINED	L			
		Dej	oth 8100	<u> </u>
DEDICATION Oriskany Light of campleted well 7824' feet	Rotalyxxx	/ Cab	le Tools_	
Water strata depth: Fresh 80' feet; Cral serm depths: None	Ts coal	being min	ned in th	e area? No.
Cral sexu depths: None				
OFEN FILM LETA		- .	1. lm	feet
	Fa	ry zone de	7480	<u>'-7560'-</u> P'31/d
Ges: Initial open flow Months / M	Oil: Ir	nitial opa	u 110%	1:51, G
	+121 6:14			
Time of open flow between the state rock pressure 3,400 psig(surfa	ce hesent	zient): aft	er 48 h	ours shut in
(if introducing formation world		ay zone ôs	epth	feet
Comparing formation Comparing formation Mef/d	Oil: I	nitial of	en flow_	Pb1/d
C.f: Initial open flow Mcf/d	Oil: F	inal open	flow	Ebl/c
Final open flowPit/u	itial and	final tes	ts	hours.
Time of open flow between in	o measure	ment) aft	er h	ours sinut in
Time of open flow batween in syntic rock pressure psig(surface	or meesure		NA >	
•		(Con	tirue on	Reverseside

Huntersville Chert--7476 7558--(60,000#--80-100) (40,000#--20-40) 700 Gal 28% HCL

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FLET	BOITOM FEET	REARKS Including indication of all fresh and salt water, coal, oil and gas
Shale	0	35	Fresh water at 80'
Sand, Shale, Red Rock	35	1150	_
Little Lime	1150	1160	Gas 2408 1 small flare
Shale	1-160	1180	
Big Lime	1180	1310	
Big Injun	1310	1360	Gas 2900 Neg.
Sand & Shale	1360	1780	
50' Sand	1780	1810	Gas 4411
Sand & Shale:	1810	1840	6/10-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
30' Sand -	1840	1850	6/10-1-water Gas 5617 No show
Sand & Shale	1850	2180	Gas 5617 No show
4th Sand	2180	2240	21
Shale	2240	2280	Gas 6500 1 small flare
5th Sand	2280	2320	Gas 7013 No show
Sand & Shale	2320	2790	_
Upper Speechly	2790	2800	Gas 7574
Shale	2800	2970	26/1½" water
Lower Speechly	2970	2980	
Sand & Shale	2980	3980	Gas at TD 4/10-2" water
2nd Riley	3980	4010	
Shale	4010	4260	d- (d- (d- (d- (d- (d- (d- (d- (d- (d- (
Benson	4260	4300	Per de la constanta de la cons
Shale	4300	4460	
1st Elk	4460	4490	73/4
Shale	4490	4660	5982
2nd Elk	4660	4690	6242
Sand & Shale	4690	6470	1020
Sycamore Grit	6470	6560	was going
Sand & Shale	6560	7110	To house the
Tulley Lime	7110	7180	1624 2 1419
Sand & shale	7180	7360	S O MAN OF THE STATE OF THE STA
Marcellus	7360	7460	5982 2242 2242 5810 - expl ftg
Onondaga Lime	7460	7470	720
Huntersville Chert	7470	7660	
Oriskany Sand Stone	7660	7790	14.50
Helderberg Lime	7740	7824 TD	34 % 0
Name (all Articles and Articles	566		1

(Attach separate shedts as necessary)

Fox	Drilling Co.	Inc.	
—————————————————————————————————————	Crerator	,	
P:	•		
Date:	5/20/82	The same of the sa	

lete: Regulation 2.02(i) provides as for "The term 'ler" ell log' istailed geological resort of all!, encountered in the drilling

.ean a ::siematic tions, including well."

FORM IV-2 (Obverse) (12-81)



Date:_	22	Mar		, 19	82
Operate Well N		#	1	(one)	

API Well No. 47

State - County

STATE OF WEST VIRGINIA DEPARTMENT OF MINES. OIL AND GAS DIVISION

OIL AND GAS WELL PER	MIT APPLICATION
WELL TYPE: Oil/ Gas/	생활성, 현재 이 보고, 보고 하다. 1500년 - 프린터 보고 배경당하다 크림티모스 모든 이 그림 - 1500년 1500년 - 1
(If "Gas", Production XXX / Undergrou	and storage/ Deep/ Shallow/)
1/00r Watershe	d:Jack Run
	Taylor Quadrangle: Grafton 7.5
	DESIGNATED AGENT Robert E. Fox
WELL OPERATOR TOX DITITING CO. THE.	Address P.O. Box 129
Address P.O. Box 129	Glenville, WV 26351
Glenville, WV. 26351	
OIL & GAS ROYALTY OWNER Richard W. Harbert	COAL OPERATOR
Address Rt. Box 104,	Address
Grafton WV, 26354	
	COAL OWNER(S) WITH DECLARATION ON RECORD:
Acreage 275.676	Name Hillman Coal & Coke Co.
SURFACE OWNER Richard W. Harbert	
Address Rt. 4 Box 104	Address Grant Bldg.
Grafton, WV. 26354	Pittsburgh, Pa.
Acreage 275.676	Name
FIELD SALE (IF MADE) TO:	Address
Address Unknown	TOTAL ADVITION ON DECORD.
-	COAL LESSEE WITH DECLARATION ON RECORD:
OIL & GAS INSPECTOR TO BE NOTIFIED	Name
Name William Blosser	Address
Address P.O. Box 1028	OIL AND GAS DIVISION
Coalfax , WV. 26566	The state of the s
304-363-9105 The undersigned well operator is entitled to operate for oil or gas pu	rposes at the above location under a deed/ lease XXXX
other contract/ dated 22 May , 1980 , t	o the undersigned well operator from Richard W. Harbert
	and the
(IF said deed, lease, or other contract has been recorded:)	County, West
Recorded on 5 June , 19 80 , in the office of the Cleri	k of the County Commission of county,
Va., in 0 & G Book 34 at page 528	
PROPOSED WORK: Drill XXX / Drill deeper/ Rec	drill/ Fracture or stimulate/
Plug off old formation/ Perforat	e new formation/
Other physical change in well (specify)	
—planned as shown on the work order on	
The above named coal operator, coal owner(s), and coal lessee are h	ereby notified that any objection they wish to make or are required to
The state of Mines	within fifteen (15) days after the receipt of this Application by the

make by Code \$22-4-3 must be filed with the Dep Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMIS-
SION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

PROPOSED WORK ORDER

(12-81)

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

DIMILLING CO) 1 V 2 1 \ \					rilling Co	129			
	4	•					e, WV.2635			
EOLOGICAL	TARGE	ET FORI	MATION	•		any			_	
								· xxxxx/	Cable tools	
•				,			; salt,			
							And the second s		/ No	_XXXX/
ASING AND	•		/							
ASING AND	TODII							•		
					-					4
ASING OR UBING TYPE		CIFICAT Grade	ONS Weight per ft	New	Used	FOOTAGE For drilling	Left in well	CEMENT FILL-U OR SACKS (Cubic feet)		
onductor	113/4'					20'	201	_	Kinds	
resh Water								•		
oal						-			Sizes	
ntermediate	85/8''					1500'	1500'	to surface	_	
roduction	4½11						8100	1000 sks	Depths set	
ublng				·						Star - S
Iners									Perforations:	\$
									Тор	Bottom
								La plus Deligione con la constanta de la const		
prescr "Recl previo Code A se be par IS PERMIT M L PROVISION	Tibed by amation busly paid \$22-4-8a parate For the volume BEING THE W. You are the controlled t	Regulati Plan", a on the s from th orm Iv-2 vork for v OSTED / OSTED / VA. COB ing re	on 12, o pplicable ame well ne owner shall not which a p AT THE V CORDAN DE, THE L newed To	r in list to the to the formal	eu the recla ee recla ee reque y water uired for sough	reof the other mation require ired by Code § real or dwel or fracturing or and is noted. APTER 22, HEREBY	ed by Code § 2 22-4-12a, and (valing within 200 stimulating a value	ved by Code § 22- 2-4-12b and Regul v) if applicable, the feet of the propo well where fracturing	d in one of the form 4-2, (iii) Form IV action 23, (iv) unlessed well. ag or stimulating is connection therewi	by to
		136			and the second s	manus et et apparent grane et apparent				
The f	ollowing v	waiver m	ust be co	mplete	ed by th	e coal operator	and by any coa	lowner or coal less lifteen (15) days o	see who has record f receipt thereof.	ed a
						WAIN				
The undersia	ened coal	operator	r	_/ ow:	ner	/ lessee	/ of	the coal under thi	s well location has	examined t
proposed well I The undersign	ocation. l	If a mine o objection	map exison to the	sts whi work	ch cove	ers the area of	the well location at this location	n, the well location a, provided, the we	has been added to ell operator has co	the mine m

By_ Its