

DEEPWELL

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FORM IV-35 (Obverse)

[08-78]

WELL OPERATOR'S REPORT OF Operator's Well No.

KAN 8103

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE	

API Wel No. 47 - 039 - 3720
CHANGE State County Permit

hours shut in

	Elevation	on: <u>10</u>	40'		Watershed:	P:	igeon Roos	t		
	District	: <u>El</u>	k		County: _ F	Kanav	<u>wha</u> ฉูบ	adrangle: Q	uick	
WELL OPERAT	or Blue	e Creek	Gas	Compa	anv	D:	ESIGNATED AGE	NT Stanlev	M. Rubin	
•				•	7e				lvania Ave.	
•	Cha	rleston	WV	2530	02			Charleston.	WV 25302	
			•							
PERMITTED W		<u> </u>							cture or stimula	ate
							e new format:			
	O.t.	her physi	cal cha	ange i	n well (spe	cify)		· · · · · · · · · · · · · · · · · · ·		
		\ 								
PERMIT ISSU	ED ON _	Februar	y 20,	, 1	9 <u>81</u>	C	OIL & GAS INS	PECTOR FOR THIS	WORK:	
(IF APPLICA		UGGING OF				1	lame	<u>Martin Ni</u>	chols	
REWOR	ING. VE	RBAL PERM	MISSION	OBTAI	NED		Address	P. O. Box	554	-
		,]	19	-				<u>Clendenin</u>	, WV 25045	
GEOLOGICAL	TARGET F	FORMATION:	•		Shale			Depth5	5415 Feet	:
Depth	of compl	leted well	1,5	415	feet	Rota	ary_X/ C	able Tools		
Water	strata d	lepth: Fr	resh,_	f	eet; s	alt,_	feet.			
Coal s	seam dept	hs:			Is coa	al be	ing mined in	the area?	_	
Work w	as comme	enced	Marc	ch 19	, 19	<u>81</u> , a	and completed	March 2	, 19 <mark>.81</mark>	
CACTNO AND	TUBING 1	MAGDAGO								
CASING AND		rnugham .								
CASING OR	li .	SPECIFI	CATTONS	S ew lus	FOOT	TAGE I	NTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKER	25
CASING OR TUBING TYP	li .	SPECIFI	CATIONS ight r ft Ne	S ew Us	FOOT	TAGE I	Left in well	OR SACKS (Cubic feet)		RS.
CASING OR TUBING TYPE	Size 13"	SPECIFI We Grade pe	CATIONS ight r ft Ne	ew Us	FOOT	PAGE I	Left in well 20'	CEMENT FILL-UP OR SACKS (Cubic feet) To Surface 125 Sks.		28
CASING OR TUBING TYPE Conductor Fresh water	Size 13"	SPECIFI We Grade pe	CATIONS ight r ft Ne	ew Us	FOOT	TAGE I	Left in well 20'	OR SACKS (Cubic feet) To Surface	Kinds	₹ S
CASING OR TUBING TYPE Conductor Fresh water	13" - 9 5/8	SPECIFI We Grade pe	CATIONS ight r ft Ne	ew Us	FOOT	CAGE I	20' 290'	OR SACKS (Cubic feet) To Surface		RS .
CASING OR TUBING TYPE Conductor Fresh water Coal	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Us	FOOT	TAGE I	20' 290'	OR SACKS (Cubic feet) To Surface 125 Sks.	Kinds Sizes	88
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	CAGE I	20' 290'	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks.	Kinds	28
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedian Production Tubing	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	rage I	20' 290' 1610' 4360'	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks.	Kinds Sizes Depths set	
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedian Production Tubing	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	TAGE I	20' 290' 1610' 4360'	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks.	Kinds Sizes Depths set Perforations:	
CASING OR	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	TAGE I	20' 290' 1610' 4360' APR 2 9	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks.	Kinds Sizes Depths set Perforations:	
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedian Production Tubing	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	ling	20' 290' 1610' 4360' APR 2 9	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks.	Kinds Sizes Depths set Perforations:	ant:
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedian Production Tubing	Size 13" - 95/8	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	ling	20' 290' 1610' 4360' APR 2 9	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks.	Kinds Sizes Depths set Perforations:	3ot*
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedian Production Tubing	Size 13" 9 5/8 14 1/2	SPECIFIC We Grade pe	CATIONS ight r ft Ne 2 L36	ew Use K K	FOOT	ling	20' 290' 1610' 4360' APR 2 9	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks.	Kinds Sizes Depths set Perforations:	e de la companya de l
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW	Size 13" - 95/8 - 91/2 - 41/2	SPECIFIC We Grade pe	CATIONS ight No	ew Use	ed For dril	ling	20' 290' 1610' 4360' APR 2 9	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 1981	Kinds Sizes Depths set Perforations:	∂ot: 41
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW Produ	Size 13" - 95/8 - 91/2 - 41/2 - ATA - Sing form	SPECIFIC We Grade pe	CATIONS ight No	ew Use	ed For dril	ling	20' 290' 1610' 4360' APR 2 9	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 1981	Rinds Sizes Depths set Perforations: Top 1 2900	∂ot: 41
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW Produ	Size 13" 9 5/8 2e 7" 4 1/2 DATA sing form Gas: In:	SPECIFIC We Grade pe	CATIONS ight r ft Ne 236 2 3.5 2 3.7 2 SI n flow	ew Use	Mcf/d	ling	Left in well 20' 290' 1610' 4360' APR 2 9 OIL & GAS DEFT. OF	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 1981 NVISION Pay zone depth	Rinds Sizes Depths set Perforations: Top 1 2900 - 415	∂ot: 41
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW Produ	Size 13" 9 5/8 2e 7" 4 1/2 DATA sing form Gas: In:	SPECIFIC We Grade pe	CATIONS ight r ft Ne 236 2 3.5 2 n flow,	ew Use	Mcf/d O Mcf/d	ling	Deft in well 20' 290' 1610' 4360' APR 2 9 Oil & GAS DEFT. OF	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 1981 IVISION Pay zone depth open flow,	Rinds Sizes Depths set Perforations: Top 1 2900 h 2900 - 415 Bbl/d Bbl/d	∂ot: 41
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW Produ	Size 13" - 95/8 - 95/8 - 41/2 - Aling form Gas: In:	SPECIFIC We Grade per serion grade per s	CATIONS ight No	w Use	Mcf/d O Mcf/d Detween ini	tial	20' 290' 1610' 4360' APR 2 9 Oil & GAS DEFT. OF	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 125 Sks. Pay zone depth open flow,	Exinds Sizes Depths set Perforations: Top 1 2900 - 415 Bbl/d Bbl/d	∂ot: 41
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW Produ	Size 13" - 95/8 - 95/8 - 41/2 - Al/2	mation tital open time o	CATIONS ight No	hale flow t	Mcf/d O Mcf/d Detween ini psig (sur	tial	20' 290' 1610' 4360' APR 2 9 Oil & GAS DEFT. OF	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 125 Sks. Pay zone depth open flow, pen flow,	Exinds Sizes Depths set Perforations: Top 1 2900 - 415 Bbl/d Bbl/d	∂ot: 41
CASING OR TUBING TYPE Conductor Fresh water Coal Intermedia Production Tubing Liners OPEN FLOW Produ	Size 13" 95/8 2e 7" 41/2 DATA cing form Fin	mation	CATIONS ight r ft Ne r ft Ne	hale flow to 940	Mef/d O Mef/d Detween ini psig (sur	tial	Dil: Initial Final cand final tesmeasurement)	OR SACKS (Cubic feet) To Surface 125 Sks. 45 Sks. 125 Sks. 125 Sks. Pay zone depth open flow, pen flow, after 24 hours	Exinds Sizes Depths set Perforations: Top 1 2900 - 415 Bbl/d Bbl/d	30t1 41

Static rock pressure, 180 psig (surface measurement) after 24

FORM IV-35 (Reverse)

[08-78]

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

Perforations 2900 - 4170

Foam Fract

300 Bbls. Water 600,000 CCF Nitrogen 50,000 Lbs. Sand

WELL LOG

	·		_		
FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, cil and gas
Rock Rock & Shale Sand & Shale Shale Shale & Sand Salt Sand Shale Red Rock Shale Little Lime Shale Big Lime Lime Injun Shale Shale Shale Shale Shale Shale Shale Shale Lime Lime Lime Lime Lime Lime Lime Lim			0 20 80 315 523 1000 1298 1323 1475 1560 1585 1640 1745 1780 21765 3115 3730 4250 4632 5280	20 80 315 523 1000 1298 1323 1475 1525 1560 1585 1640 1745 1780 2175 2565 3115 3730 4250 4632 5215 5280 5415	Gas 1740 - 1770 Gas 1820 - 1840 Well plugged back to 4400 T.D.

(Attach separate sheets to complete as necessary).

We	ell Operator	
Ву	At Language	M R.C
Trs		

NOTE: Regulation 2.02(i) provides as follows:

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

FORM 1.V-2 (Obverse)

(Revised 3-81)



WELL NO. 8103

FARM Union Carbide

API: #47 - 039 - 3720-REV.

° DATE: March 18, 1981

STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL	PERMIT APPLICATION
WELL TYPE: 011/ GasXX_/	
(If "Gas", Production/ Underg	round storage/ Deep $rac{XX}{}$ / Shallow/
LOCATION: Elevation: 1040' Watersho	ed: Pigeon Roost
District: Elk County:	Kanawha Quadrangle: Quick-7½' Clendenin-15'
WELL OPERATOR Blue Creek Gas Company	DESIGNATED AGENT Steven M. Rubin
Address 1700 Pennsylvania Avenu	e Address Same
Charleston, W.Va. 25302	
OIL & GAS ROYALTY OWNER Union Carbide	COAL OPERATOR <u>Union Carbide</u>
Address P.O. Box 8004	Address P.O. Box 8004
So. Charleston, W.Va.	So. Charleston, W.Va.
Acreage 2389	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER Same	NAME
Address	Address
Acreage	NAME
FIELD SALE (IF MADE) TO:	Address
Name	
Address	COAL LESSEE WITH DECLARATION ON RECORD:
	NAME
OIL AND GAS INSPECTOR TO BE NOTIFIED:	Address
Name Martin Nichols	
Address P.O. Box 554	
Clendenin, W. Va. Telephone 548	<u>-6993</u>
The undersigned well operator is entitled	to operate for oil or gas purposes at the above
	contract / dated July 3 , 194.44, to the
undersigned well operator from United Fue	
(If said deed, lease, or other contract has be	
	ce of the Clerk of County Commission of <u>Kanawha</u>
County, West Virginia, in 103 Book at p	
	/ Redrill/ Fracture or stimulate/ / Perforate new formation/
Other physical change in	well (specify) Chance casing program
	h to Oriskany Sand
·	work order on the reverse side hereof.
objection they wish to make or are required to ment of Mines within fifteen (15) days after t Copies of this Permit Application and the by registered mail or delivered by hand to the	(s), and coal lessee are hereby notified that any make by Code s22-4-3 must be filed with the Departher receipt of this Application by the Department. enclosed plat and reclamation plan have been mailed above named coal operator, coal owner(s), and coal delivery of this Permit Application to the Depart-
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Blue Creek Gas Company
WEST VIRGINIA OIL AND GAS	By: Mell Operator
CONSERVATION COMMISSION 1613 WASHINGTON ST., E.	Owner
CHARLESTON, WV 25311 Phone - 304/348-3092	Its: Owner

4

PROPOSED WORK ORDER

		7412		AN ESTE	MATE	CNLY	? :			
ACTUAL	INFORMATION:	MUST BE	\$ 5	CITTIKET	ON	FORM	IV-35	UPON	COMPLETION	

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Seclogical '	TARGET FO	ORMATICH, _	01	riskanv			
					6	XX	Cable tools/
						le, feet.	
	**************************************	ar seem res	ins:	***************************************	s coal being	mined in the are	ea? Yes XX / No
SING AND	TUEING PR	Rogram		٠,			
SING OR BING TYPE	18	SPECIFICAT:		FOCTAG	E INTERVALS	CEMENT FILL-U	
	Size G	rade per f	New Use	d For drilli	ng Left in we	OR SACKS	
nductor	9 5/8	136	X	300'	300'	To Surface	Kinds
esh water							
al							Sizes
termediate	THE PERSON NAMED IN COLUMN 2 I			1500'	1500'	To Surface	
cduction	4월"	9.5	Х	5200'	5200'	500 Sks.	Depths set
bing						or as read.	
cers					-	by Rule 15.0	Perforations:
							14
							Top Botto:
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Operator's 8103 [08-78] OIL AND GAS WELL PERMIT APPLICATION API Well No.  $\frac{47}{\text{State}} - \frac{039}{\text{County}} - \frac{3720}{\text{Permit}}$ WELL TYPE: Oil ___/ Gas __ X/ (If "Gas", Production___/ Underground storage___/ Deep___X/ Shallow___/) LOCATION: Elevation: 1040 Watershed: Pigeonroost District: Elk __ County: ___ **Kanawha** Quadrangle: Quick WELL OPERATOR Blue Creek Gas Company DESIGNATED AGENT Steven M. Rubin Address 1700 Pennsylvania Ave. 1700 Pennsylvania Ave. Charleston, WV 25302 Charleston, WV 25302 OIL & GAS ROYALTY OWNER Union Carbide Union Carbide COAL OPERATOR Address P. O. Box 8004 Address P. O. Box 8004 So. Charleston, WV So. Charleston, WV Acreage 2389 COAL OWNER(S) WITH DECLARATION ON RECORD: SURFACE OWNER SAME Address ___ TOTAL SECTION OF THE Address Acreage ____ FIELD SALE (IF MADE) TO: Address __ Name OIL & GAS DIVISION Address COAL LESSEE WITH DECLAPATION ON RECORD TO OIL & GAS INSPECTOR TO BE NOTIFIED Address Name Martin Nichols Address **Clendenin**, W The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___/ lease  $ilde{ t X}$  / other contract ___/ dated ___ $ilde{ t July 3}$  , 19  $ilde{ t 4}$ , to the United Fuel Gas Company undersigned well operator from If said deed, lease, or other contract has been recorded:] Recorded on ______, 19____, in the office of the Clerk of the County Commission of ______ County, West Virginia, in Charleston Book 103 at page 78. A permit is requested as follows: PROPOSED WORK: Drill ____ Drill deeper___/ Redrill___/ Fracture or stimulate_______/ Plug off old formation / Perforate new formation / Other physical change in well (specify) --planned as shown on the work order on the reverse side hereof. The above named coal operator, coal owner(s), and coal lessee are hereby notified that any bjection they wish to make or are required to make by Code \$ 22-4-3 must be filed with the Department f Mines within fifteen (15) days after the receipt of this Application by the Department. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed y registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee  $^{
m h}$  or before the day of the mailing or delivery of this Permit Application to the Department of Mines at harleston, West Virginia. Blue Creek Gas Company LEASE SUBMIT COPIES OF ALL EOPHYSICAL LOGS DIRECTLY TO: Well Operator EST VIRGINIASOIL AND GAS By Steven M. Rockin CONSERVATION COMMISSION 615 WASHINGTON STREET EAST HARLESTON, WV 25311 FLEPHONF: (304) 348-3092

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

FORM IV-2

Pebruary 6, , 19 81

## PROPOSED WORK ORDER

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

DRILLING CO.	NTRACTO	R (IF	KNOWN)	*************				
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GEOLOGICAL :	TARGET	FORMA'	TION, _	Sha	1.0			
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