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

WELL TYPE:

Oil

TELEPHONE: (304) 348-3092



Date:	May	17	, 19	82
Operate Well N	or's o			KAS 1
API W	ell No.	47	039	3872
		State	County	Permit

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

Gas X

	(If "Gas", Produ	ction/	Undergroun	d storage	_/ Deep/ Shallow/)
LOCATION:	Elevation: 7	23.99	Watershed	Blue Creek	
	District: E	lk	County:_	Kanawha	Quadrangle: Ouick
WELL OPERATO	OR Blue Creel				GENT Steven Rubin
Address	P.O. Box 6	5357		Address	P.O. Box 6357
	Charleston	a, WV 25302			Charleston, WV 25302
OIL & GAS ROYALTY OWN	NER Union Carl	oide		COAL OPERATO	R Union Carbide
Address	P.O. Box 8	3004		Address	P.O. Box 8004
	South Char	cleston, WV	25303		South Charleston, WV 25303
Acreage	2389		- 3	COAL OWNER(S	WITH DECLARATION ON RECORD:
	ER Union Carbi	lde		Name	
	P.O. Box 80			Address	
Addless		leston, WV 2			MAY 2 4 1982
A				Name	
Acreage	E MADE) TO:			Address	OIL AND GAS DIVISION
FIELD SALE (II				Address	
Address				COAL LESSEE !	WITH DECLARATION ON RECORD:
OW A CAS DIS	TRECTOR TO BE N	OTIFIED			
	SPECTOR TO BE N				
0.4	In Nichols Clendenin, V			71007033	
Address	Ozenaciani,	**			
(IF said deed, le Recorded on	Asse, or other contraction of the contraction and contraction and contraction are contraction as a contraction of the contraction and contraction are contraction as a contraction are contraction are contraction are contraction as a contraction are contraction as a contraction are contraction are contraction as a contraction are	ct has been record 5 , in the office 103 at page Drill deeper	ded:) e of the Clerk 78 . A/ Redr _/ Perforate	of the County Comm permit is requested ill/ Fractu	tre or stimulate X 7 7 M Thasas Elect
	Other physica	al change in well	(specify)	UAFR THURST AL	A STATE OF THE STA
	alasto in Later to Constitution of Constitutio of Constitution of Constitution of Constitution of Constitution		to the same of	Y8 (11)	APPROVIDE CONTRACTOR OF THE PROPERTY OF THE PR
	—planned as	shown on the wo	rk order on t	he reverse side her	eof.
					objection they wish to make or are required to
make by Code \$	22-4-3 must be filed	with the Departme	nt of Mines w	rithin fifteen (15) da	ys after the receipt of this Application by the
Department.					
•		-			ailed by registered mail or delivered by hand to
				fore the day of the n	nailing or delivery of this Permit Application to
the Department	of Mines at Charles	ton, west virginia	1.		02/46/2024
	T COPIES OF ALL LOGS DIRECTLY				02/16/2024
то:				Blue Cr	reek Gas Company
	A OIL AND GAS				Well Operator
CONSERVA	TION COMMIS-			By Ster	w Mr. Kubu
	TON STREET EAST WV 25311	BLANKET	BOND	Its Direct	tor of Operations

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

PROPOSED WORK ORDER

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

DRILLING CO	ONTRAC	TOR (IF	KNOW	N) _		N/A			_	
				Ad	dress				-	
GEOLOGICAI										
					2.5				Cable tools	/
Approxi	mate wat	er strata	depths:	Fres	h,	123 fee	t; salt,	feet.		
Approxi	mate coal	seam d	epths: _			Is coa	l being mined	in the area? Ye	s/ No	/
CASING AND	TUBING	G PROG	RAM L	-					OF A SA	
	+	V in the second					- M		National Control	
CASING OR		CIFICAT		1		FOOTAGE	INTERVALS	CEMENT FILL		
TOBING TYPE	Size	Grade	Weight per ft	New	Used	For drilling	Left in well	OR SACK (Cubic feet)	5	
Conductor	9 5/8	t Ville	Gr. Ch	X		300	300	Cement to Surface	Kinds	
resh Water									U.A.C.	
Coal									Sizes	
ntermediate	79	2.2.	20'	X		1460	1460	40 sks.	31.0	
Production	432"	-	10.5	x		4045	4045	100 sks.	Depths set	
Tubing	: 18									
Liners	i i i i i i i i i i i i i i i i i i i	///			117				Perforations:	
									Тор	Bottom
									100	Bottom
				1-	 					
"Rec previ Code	clamation iously paid \$22-4-8a	Plan', a l on the s a from the form Iv-2	applicable same well he owner shall not	to the formal of an be req	e recla ee requ y wate	amation required by Code or well or dwe	ed by Code \$2 \$22-4-12a, and (Illing within 200 or stimulating a	22-4-12b and Reg (v) if applicable, the prop (v) if where fracture is the prop	2-4-2, (iii) Form IV ulation 23, (iv) unless consent required cosed well.	ess by
				IE WI	ELL SIT	E.				
THIS PERMIT			ACCON	DAIN	44	* *	22.			
ALL PROVI	SIONS BE	ING IN	CODE T	HE LC	CATIO	ON IS HEREBY	1			
ARTICLE 4	OF THE	w. vA. drilli	ng	.TH	IS PER	MIT SHALL E	XPIRE			
APPROVED IF OPERAT	FOR _	VF NO	E COMA	MENCE	D BY	2-9-83	_,			
IF OPERAT	IONS III			1	5		-			
BY										
• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
The	following laration u	waiver n	nust be co de 22-4	mplet -20, if	ed by t	he coal operator ermit is to be	or and by any coa issued within	al owner or coal le fifteen (15) days	ssee who has record of receipt thereof.	led a
						WA	IVER			
The undersig	ned has n	o objecti	on to the	sts wh	propo	ers the area of sed to be done	the well location	n, the well location	nis well locat <mark>டுற்றி</mark> n has been added to well operator has co	the mine me
	CALL.						-			
Date:			, 19				Ву			
Dute.	79505		, 1)	-	_		Part of			

(01-80)	Da	ce may 4	1982 10
	Mell	No. KAS # 1	and the same
	API I	No. 47 - 039 Scace Councy	- 3872 S
	STATE OF WEST VERGINIA		
Company Name Pitter Co. 1 Co.	OFFICE OF OIL AND GAS		
Company Name Blue Creek Gas	Commission Designated	Agent Steven	Rubin
Address P.O. Box 6357 Telephone 342-0141	Addre	ss P.O. Box 6	357
Indowner UNION CARBI	DE SCIL COM	none 342-0141	
Revegetation to be carried	one River C 1.0	Copite Copite	ol SCD
This plan has been remained	Dive Creek 6 GS	C. Charles and a second	(Agent)
This plan has been reveiwed and additions become a part	of this plan.	P not	
Date: MAY 19, 1982	Address: 1422 Fed	(Sep Agent) a leral Bldg., 500	
	Chas., W	V25301 PH 343	
Access Road	Ci	Location	
Tucture	Structure	Diversion Dite	h (1)
pacing	Material	Earthern	
	Page Ref.	Manual 2-12 :	5.0
Tructure	(B) Structure	Rip Rap	(2)
Pacing Pacing Page Ref. Manual	Material Material	Rock	The state of the s
Structure	Page Ref.	Manual N/A	200 N N N N N N N N N N N N N N N N N N
Structure	(C) Structure	A CONTRACTOR OF THE PROPERTY O	(3)
dage Ref. Manual	Material .	The state of the s	received.
	Page Ref.	Sanua L	SOCRIARD)
All structures should be inst	sected regularly and repa	tired if necessary	MAY 24 1982
	Revegetation		OIL AND GAS DIVISION
Treatment Area I			WV DEPARTMENT OF MINES
Lime 3		reatment Area II	
or correct to ph 6.5	Tons/acre Lime	3 co pa 6.5	ons/Acre
Fertilizer 500 -600	the sere Familia		
(10-20-20 or equivale		0-20-20 or equival	bs/acre enc)
Mulch Hay (2) Seed* Ex 2/ 22	Tons/Acre Mulch Hay	1-1	ons/Acre
Flatpon 30	lbs/acre Seed* Ky 3	1 3620 1	bs/acre
The state of the s	lbs/acre Flori	POA 20	bs/acre
Inoculate all legumes such as a seterium. Inoculate with 3X re	retain the fact that		53/4616
seterium. Inoculate with 3X re	commended amount.	s with the proper	
January .			
Attach or photocopy section of	involved Topographic map	. Quadrangle (Vick
Mar Hall Vol V			The state of the s
egend:	A CONTRACTOR OF THE PERSON OF		
Right		3800	Ceme
800-17	\$ 100 - \$ 1. 60 PM		Greek.
11/1/1200			
			灵德
	The state of the s		
	OWN	Co Co Co	
00	WKAS-1	200	02/16/2024
OO Mina	KAS-1	100	02/16/2024
Mine Mine	* KAS-1	100	02/16/2024
Mine	# KAS-1	200	02/16/2024
Mine	** **A\$=}	200	02/16/2024
Mine	1300 1300	208	02/16/2024

Form IV-9 (01-80)

Legend: Property Boundry -

Road = = = =

Existing Fence -Planned Fence

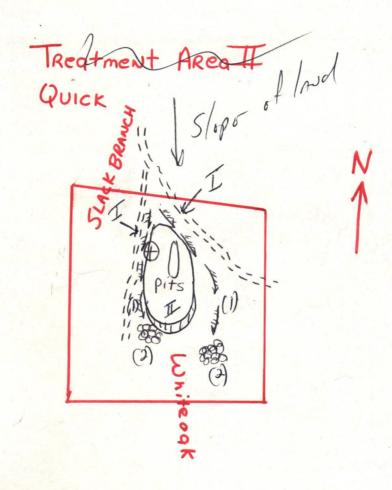
Stream Open Ditch _____

Diversion > Spring O-Wet Spot

Building 5

Orain Pipe-Waterway C

Sketch to include well location, existing access road, roads to be construct: wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



comments: Existing Road will serve of	as access road Ditches
will catch any possible location	on fluid and divert to
rip rap.	
Entire grea will be seed	ded ofter and 02/16/2024
filling have occured.	3,44,1104,4104
PLAN PREPARED BY: Stener Rubin	
P.O. Box 6357 Chas WVA	342-0141
ADDRESS Please request landowners company	PHONE NO.

landowners cooperation to protect new seeding for one growing season.



IV-35 (Rev 8-81)

State of Mest Virginia

Department of Mines Gil und Gas Division

Date	Aug	ust :	24,	1983
Operat Well N	or's	KAS	#1	A series
Farm				
API No	47	_ 0:	39	_ 3872

(Continue on reverse side) ,

WELL OPERATOR'S REPORT

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

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Undergro	n/ Wast und Storag	te Disposa ge/ Deep	l/ p/ Sha	llow/)
LOCATION: Elevation: 723.99' Watershed H	Blue Cree	k		
District: Elk County Kana			e Quick	
COMPANY Blue Creek Gas Company			05 , 12	
ADDRESS P. O. Box 6357, Charleston, WV	Casing	Used in	Teft	Cement
DESIGNATED AGENT Stanley Rubin	Tubing	Drilling		fill up Cu. ft.
ADDRESS P. O. Box 6357, Charleston, WV	Size	Dilling	TII WELL	Cu. It.
SURFACE OWNER Union Carbide	20-16	20	30	To Surfac
ADDRESS Sanderson, WV	Cond.	30.	30	To Surfac
MINERAL RIGHTS OWNER Union Carbide	13-10"	200	200	150 sks.
ADDRESS Sanderson, WV	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Homer	8 5/8			
	7	1335	1335	75 sks.
Dougherty ADDRESS 1082	5 1/2			
PERMIT ISSUED May 24, 1982	4 1/2	4150	4150	115 sks.
DRILLING COMMENCED January 18, 1983	3			
DRILLING COMPLETED January 25, 1983	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON				
GEOLOGICAL TARGET FORMATION Shale		Dep	th 1876-4	150 feet
Depth of completed well 4150 feet	Rotary Y	Cable	e Tools_	
Water strata depth: Freshfeet;	Salt	feet		
Coal seam depths:				area?No
OPEN FLOW DATA	Doc	. zene den	-h 1876-	-4150 ====
Producing formation Shale				
Gas: Initial open flow Mcf/d				
Final open flow 300,000 Mcf/d			Company of the last of the las	
Time of open flow between init				
Static rock pressure 720 psig(surface			-	
(If applicable due to multiple completion				
Second producing formation				
Gas: Initial open flowMcf/d			-	
Final open flow Mcf/d	Oil: Fir	nal open f	low	Bbl/d
Time of open flow between init	ial and f	inal tests	ho	urs
Static rock pressurepsig(surface	measurem	ent) after	hou	rs shut in

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

				We	H No	
COMPANY		-	ADDRESS	6 1846 . 102		1 2 2
FARM		DISTRICT		COUNTY		
Cilling Material Used						
iner L	ention	Amount	Packer	Location	2000	
PLUGS USED	AND DEPTH PLACED		BRIDGES	CASIN	G AND TUB	ING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LO
						Name and Address of
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ners Names				7		
marks:			· · · · · · · · · · · · · · · · · · ·		- 4	
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- ·						
I	hereby certify I vi	sited the above				
DATE		order the above	wen on this date.			
					nearly & state	
1.30				DISTR	CT WELL ING	PECTO
		-	perator			
		By: St	nes M. Rubis	02/	16/2024	1
			gust 24, 1983			

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 coal, encountered in the drilling of a well."

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

RECEIVED

JAN 2 5 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

Permit No. 039-3	872				Gas Well Gas
Company Blue	Creek Gas	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address Charle	ston, W.VA	Size			
	Carbide may	16	6.5.	19'	Kind of Packer
Well No. Kas #	SANTES ENGLAND CONTRACTOR SERVICE SERVICES CONTRACTOR C	13	11343	198	13 83 DJR
A MARKO OF THE RESIDENCE OF THE PROPERTY OF TH	County Aanacha	81/4	题。	AND THE PARTY OF T	Size of
Drilling commenced		6%		egan enternal e or of year latter o	Depth set
•		5 3/16	er er ste variant partier en vere en steller en vere	en per menten en e	
Drilling completed		3			Perf. top
Date shot	Depth of shot	2	element of the section of the sectio	Maria Maria Como de Servicio de Companyo d	Perf. bottom
Initial open flow	/10ths Water inInch	Liners Used	ganganini na kitang pikata sa jam Potanto	and the second s	Perf. top
Open flow after tubing	/10ths Merc. inInch		enter materiale en en enter en en enter en en en enter en		Perf. bottom
Volume	Cu. Ft.	CASING CEMEN	NTED 103	_SIZE / 98	No. FT. 1/20/8-Bat
Rock pressure	lbshrs.	NAME OF SER	AREA STORT OF STREET WE SERVED THE STREET STREET STREET STREET	, ,	liburton
Oil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh water	feetfeet	FEET_	INCH	ES	FEETINCHES
Salt water	feetfeet	FEET_	INCH	ES	FEETINCHES
Drillers' Names Bob	Golden	Pushe	en Pau	/ Webb	· 3 A B C S A D
Clint Hort	RigHD				
Remarks: 1/19/83 With 150 Hole wa	Selt 19 ft, of 16's sacks of Regular	Conductor Plug Dow	for Pipe P 5100 l Per Sub k	e +ce em by the	mented Halliburton beginning.
1/26/83 1	(an 1989 to Kibi of 10	y" Surface	bibe & c	ement	Led with
1/21/83 9.	50 ft. Deep Duilling	on Air + S	oap Ron	ninas	3" Bit,
1/21/83	50 ft. Deep Duilling a ling to 1332 for 9	Casing po	int.	911	001161000
A DADRARY TIME A SELECTION	CONTRACTOR STATE OF THE CONTRACTOR STATE OF THE CONTRACTOR OF THE		Nom	es Style	DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

OMPANY				We	II No	
			ADDRESS			ra, own garles s
ARM		DISTRICT.	C	OUNTY		
illing Material Used						
iner Loca	ation	Amount	Packer	Location	1	Tuesday 12.18
PLUGS USED AN	DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
					XXX	
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	-					
			Martin			
					H 17	e questos.
					y year	
			Page 1 de l'Americani	10 /00 to 10 11		
illers' Names			· · · · · · · · · · · · · · · · · · ·			
	Carried Control	and the second of the second	and the second of the second o			

DISTRICT WELL INSPECTOR

Permit No. 039-3872

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



VS 151233

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Oil or Gas Well_ Company Blue CREEK GAS CASING AND LEFT IN PACKERS DRILLING WELL barleston wu Size LUION CARBINE Kind of Packer 10 Size of County Kansawha Drilling commenced. Depth set_ 5 3/16 Drilling completed_ _Total depth_ Perf. top___ Date shot Depth of shot Perf. bottom Initial open flow_ Liners Used __/10ths Water in_ Perf. top____ Perf. bottom_ Open flow after tubing___ ____/10ths Merc. in____Inch Volume_ Cu. Ft. CASING CEMENTED____ No. FT. NAME OF SERVICE COMPANY Rock pressure_ lbs. bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT_ FEET Fresh water. feet FEET INCHES FEET Salt water_ feet FEET INCHES FEET _INCHES. Drillers' Names_ Remarks: Meet With Steve Ruben Check Reclaration Leclaration Tycomplete Med Seed, Line Mulch

4-4-84 DATE Lockey District WELL INSPECTOR

STATE OF WEST VIRGIMIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY			ADDRESS		- 10	· · · · · ·	
		and the second second second				-	
FARM		DISTRICT.		COUNTY	1	A	
Filling Material Used			2/4/2		lack'	1	
Liner Loc	eation	Amount	Packer	77 000	7431176	1	
PLUGS USED A	ND DEPTH PLACED			Location		2000	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	BRIDGES		G AND TU	BING	
		LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
			18 4 Millitel D. H.		AN		
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State of West Virginia Department of Mines (Dil and Gas Division

il and Gas Division Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT



OIL & GAS DIVISION
DEPT. OF MINES

COMPANY	Blue CREEK GAS	PERMIT NO	039-3	3872
	Blue CREEK GAS	FARM & WEL	L NO Wion	BARBUL / KAS #
		DIST. & CO	UNTY ELK	1 Mar
			IN COMPLIA	NCF
RULE	DESCRIPTION		YES	NO
23.06	Notification Prior to Starting Work			
25.04	Prepared before Drilling to Prevent Wa	aste		
25.03	High-Pressure Drilling			
16.01	Required Permits at Wellsite			
15.03	Adequate Fresh Water Casing		*	
15.02	Adequate Coal Casing			
15.01	Adequate Production Casing			
15.04	Adequate Cement Strenght			
15.05	Cement Type			
23.02	Maintained Access Roads			
25.01	Necessary Equipment to Prevent Waste		i	
23.04	Reclaimed Drilling Pits			
23.05	No Surface or Underground Pollution		<u>-</u>	
23.07	Requirements for Production & Gatherin	ng Pipelines	4	The same of the sa
16.01	Well Records on Site			
16.02	Well Records Filed			
7.05	Identification Markings			
I HAVE I	NSPECTED THE ABOVE CAPTIONED WELL AND R	ECOMMEND TH	AT IT BE RELI	EASED:
		SIGNED 7	Pod Wie	low
			- 1	
		DATE	131/84	
with Cha	l record was received and reclamation reter 22, Article 4, Section 2, the above for the life of the well.	requirements re well will	approved. In remain under	accordance bond

Administrator-Oil & Gas Division

6/1/84

DATE

FERC-121

	1 7 8 1 2 0 1 West L. 1	1 1 .
.@ API well number: (If not available, leave blank. 14 digits.)	7-039-3872	
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA Z Category Code JAN 2 7 10	983
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	OIL & GAS DIV	
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Blue Creek Gas Company Seller Code	-
5.0 Location of this well: [Complete (a) or (b).] I (a) For onshore wells (35 letters maximum for field name.)	Elk District Field Name Kanawha County State	
(b) For OCS wells:	Area Name Block Number Date of Lease: Mo. Day Yr. OCS Lease Number	
(c) Name and identification number of this well: (35 letters and digits maximum.)	KAS #1	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)		
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corporation 004030 Name Buyer Coc	-
(b) Date of the contract:	Mo. Day Yr.	
(c) Estimated annual production:	MMcf.	
	(a) Base Price (\$/MMBTU) (b) Tax (c) All Other Prices [Indicate (+) or (-).]	
7.0 Contract price:(As of filing date. Complete to 3 decimal places.)		
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.4.44	4 4
9.0 Person responsible for this application: Agency Use Only Date Received by Juris. Agency JAN 2.7 1983 Date Received by FERC	Stanley Rubin Name Vice President Title January 24, 1983 January 24, 1983 Phone Number	

RTICIPANTS: RI C. V. C. C.
VEIL OPERATOR: Blue Creek Gas Company Col Viv Gas Toogsmissian 004030
FIRST PURCHASER: Columbia Gas Transmission 004030
OTHER:
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER WORKER
83 D127-107-039=3872
Usa Above File Number on all Communications Relating to Determination of this Well QUALIFIED
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING
TEM NO. /
1. FERC -121 Items not completed - Line No. 1711 7.0 8.0 bc
2. IV-1 Agent Steven M. Rubin
3. IV-2 Well Permit
4. IV-6 Well Plat
5. IV-35 Well Record Drilling Deepening
6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced? Ratio
7. IV-39 Annual Production years
8. IV-40 90 day Production Days off line:
9. IV-48 Application for certification. Complete?
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? Affidavit Signed
18-28. Other: Survey Logs Geological Charts
Structure Map1: 4000 Map Well Tabulations
(5) Date commenced: 1 - 18 - 83 Date completed 1-25-83 Deepened
(5) Production Depth: 1876-4150
(5) Production Formation: Shale
(5) Final Open Flow:
(5) After Frac. R. P
(6) Other Gas Test:
(7) Avg. Daily Gas from Annual Production:
(8) Avg. Daily Gas from 90-day ending w/1-120 days
(8) Line Pressure: PSIG from Daily Repo
(5) Oil Production: From Completion Report
10-17. Does lease inventory indicate enhanced recovery being done
10-17. Is affidavit signed? Notarized?
Does official well record with the Department confirm the submitted information?
Additional information Does computer program confirm?
Was Determination Objected to By Whom? 7 7 3
773

DATE: APR 281983

BUYER-SELLER CODE

STATE OF WEST VIRGINIA

Date January 24, 1983

DEPARTMENT OF MINES OIL AND GAS DIVISION Operator's

Operator's Well No. KAS #1

API Well No.

DESIGNATED AGENT Stanley Rubin

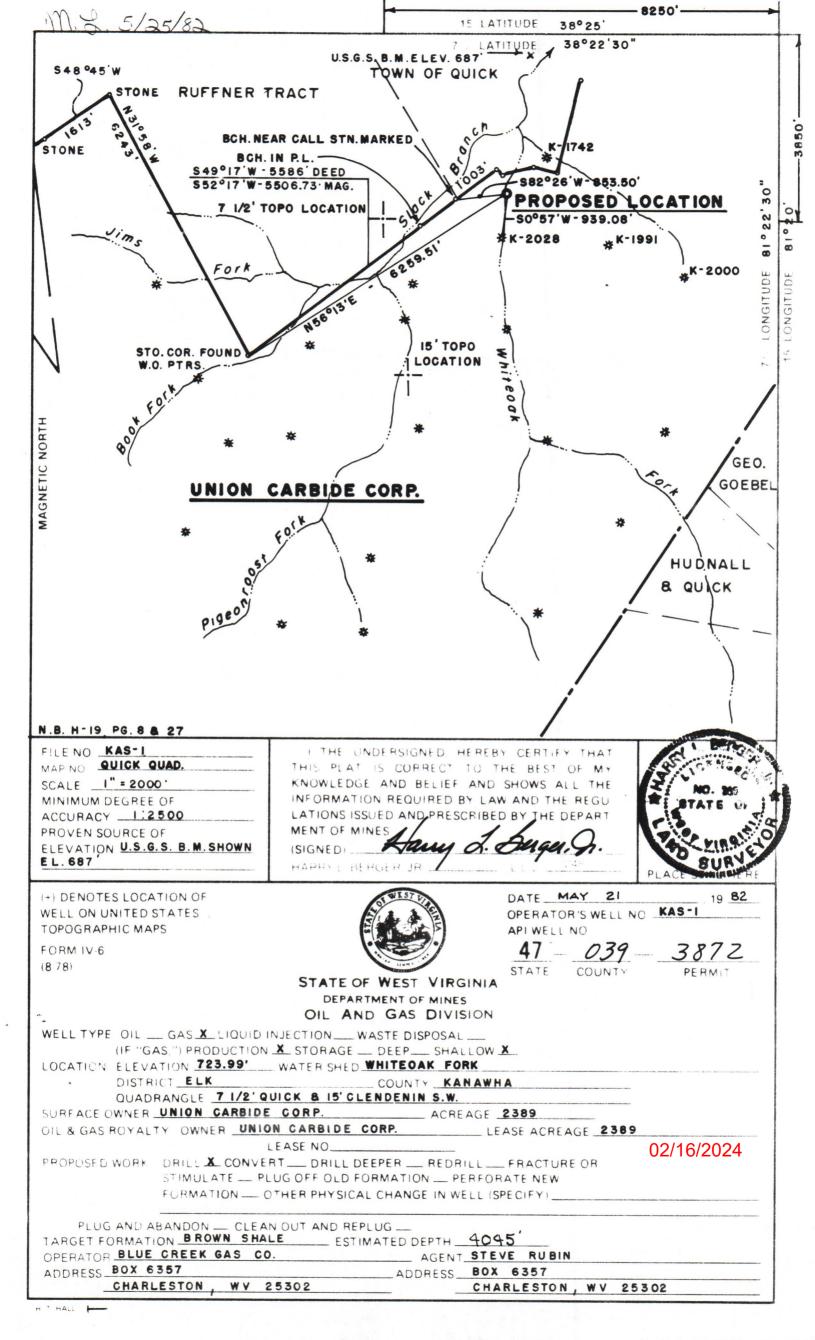
47 - 039 - 3872 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE NGPA Section 107

	ADDRESS P.O. Box 6357
	Charleston, WV 25302
	LOCATION Elevation 723.99'
WELL OPERATOR Blue Creek Gas Company	Watershed Blue Creek
ADDRESS P.O. Box 6357	Dist. Elk County Kanawha Quad. Quick
Charleston, WV 25302	Gas Purchase Contract No
.GAS PURCHASER Columbia Gas Transmission	Meter Chart Code
ADDRESS 1700 MacCorkle Avenue	
Charleston, WV 25304	Date of Contract
* * * *	* * * *
Date surface drilling began: January	18, 1983
Indicate the bottom hole pressure of the	well and explain how this was calculated.
$BHP = P_1 + \frac{.25 \times P_1}{100} \times \frac{X}{100}$	$P_1 = 825 \text{ est.}$ $D = 4150$
$BHP = \frac{1}{900} \# \text{ est.}$	
AF	FIDAVIT
Devonian Shale as indicated by a Gamma Ra described in subparagraph (3)(i) or (3)(i report described in subparagraph (3)(ii)(of potentially disqualifying non-shale for paragraph of the gross Devonian age interval	inconsistent with a conclusion that the wel
STATE OF WEST VIRGINIA	·
TO-WIT:	
COUNTY OF KANAWHA, TO-WIT:	ry Public in and for the state and county
I, VANIEL KUBIN, a Notar	Regard and to the state and to
aforesaid, do certify that STANIEY A	M. RUBIN, whose name is signed to
the writing above, bearing date the 24 m acknowledged the same before me, in my conficient under my hand and official seal the	ounty aforesaid. $02/16/2024$ is 2770 day of 983 .
My term of office expires on the 771 d	ay of NoV , 1983 .
	Notary Public
(NOTARIAL SEAL)	Notary Public

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

,		12	1 D 1	
Operator: Blue	CTERK COAS CO		paky Rubin	
Type Determination	being sought -	107 (Devonian	shale)	
API Well No. 47.03	9-3872	- Well Name:	. KAS#1	
West Virginia Offi References: SJA F	ce of Oil and G	as County:	. KAWAWha	
	Line			
Line	(D) a line rel	Teschezing of	h the (a) Shale B (Shale Base Line less than 0.7 x (with this analys	Shale
II. Gamma Ray e	levation indice	S: `		
Α.	Shale Base Line	(API Units)		
	 GR Value at Remarks: 	Base Line = _/	50 * API Units	
		and the state of t	and the second of the second s	
	Gamma Ray Log V	INA + ADT Hote	alue at Base Line	
III. Intervals v	2. Calculation	0.7 (GR Valu	API Unit	e):
Inter	2. Calculation with GR index le	0.7 (GR Value of Interval	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
	2. Calculation with GR index le	0.7 (GR Value of Interval Feet	Value at Base Lin	e): han*
Inter	2. Calculation with GR index le	0.7 (GR value) 0.7 (JS6 *) ess than 0.7 x (Thickness of Interval Feet 200	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter	2. Calculation with GR index le rval To*** 2100 2650	0.7 (GR Value of Interval Feet	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter	2. Calculation with GR index 16 rval	0.7 (ISB *) ess than 0.7 x (Thickness of Interval Feet 200 550	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter // From** 1900 2-100	2. Calculation with GR index le rval To*** 2100 2650	0.7 (JS6 *) ess than 0.7 x (Thickness of Interval Feet 200	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter 1900 2400 3650	2. Calculation with GR index 16 rval	0.7 (ISB *) ess than 0.7 x (Thickness of Interval Feet 200 550	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter 1900 2400 3650	2. Calculation with GR index 16 rval	0.7 (ISB *) 1.5 than 0.7 x (Thickness of Interval Feet 200 550 650	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
1900 2400 3660	2. Calculation with GR index 16 real	0.7 (ISO *) ess than 0.7 x (Thickness of Interval Feet 200 550 650	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Promise	2. Calculation with GR index le rval To*** 2100 2650 3500 4150	0.7 (156 *) ss than 0.7 x (Thickness of Interval Feet 200 550 650	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter 1900 2400 3600 Total Less Than	2. Calculation with GR index 16 rval To*** 2100 2650 3500 4150	0.7 (156 *) 0.7 (156 *) 1	Value at Base Lin Feet of less t 0.7 (Shale Base	e): han*
Inter 1900 2400 3600 Total Less Than	2. Calculation with GR index le rval To*** 2100 2650 3500 4150	0.7 (156 *) 0.7 (156 *) 1	API Unit Value at Base Lin Feet of less t 0.7 (Shale Base Feet	e): han*
Inter 1900 2400 3600 Total Less Than	2. Calculation with GR index 16 rval To*** 2100 2650 3500 4150	0.7 (156 *) 0.7 (156 *) 1	API Unit Value at Base Lin Feet of less t 0.7 (Shale Base Feet	e): han* Line
From** 1900 2400 3600 Total Less Than 7 Less Than 0.7	2. Calculation with GR index le rval To*** 2100 2650 3500 4150 Chale Base Line	0.7 (156 *) 1.5 than 0.7 x (Thickness of Interval Feet 200 550.** \$50 2250 1 2250 2250 x 1	Value at Base Lin Feet of less to 0.7 (Shale Base Feet	e): han* Line





IV-35 (Rev 8-81)

State of Mest Airginia Bepartment of Mines

Gil and Gas Bivision

Date	Augu	st	24,	1983
Operator Well No	or's	KAS	#1	
Farm				
API No	. 47 .	0	39	_ 3872

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

COCATION: Elevation: 723.99' Watershed E	stue cree	K	0 1 1	
District: Elk County Kana	wha	Quadrangle	Quick	
COMPANY Blue Creek Gas Company			0.5 1.5 2.2	
ADDRESS P. O. Box 6357, Charleston, WV	Casing	Used in	Left	Cement
DESIGNATED AGENT Stanley Rubin	Tubing	Drilling		fill up Cu. ft.
ADDRESS P. O. Box 6357, Charleston, WV	Size			
SURFACE OWNER Union Carbide	20-16	30	30	To Surfac
ADDRESS Sanderson, WV	Cond.			150 sks.
MINERAL RIGHTS OWNER Union Carbide	9 5/8	200	200	JU SKS,
ADDRESS Sanderson, WV				
OIL AND GAS INSPECTOR FOR THIS WORK Homer	8 5/8	1225	1335	75 sks.
Dougherty ADDRESS	5 1/2	1335	1333	75 BRB.
PERMIT ISSUED May 24, 1982	-	4150	4150	115 sks.
DRILLING COMMENCED January 18, 1983	4 1/2	4130	4130	
DRILLING COMPLETED January 25, 1983	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2	1		-
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	abea			
GEOLOGICAL TARGET FORMATION Shale		Dep	oth 1876-	4150 feet
Depth of completed well 4150 feet	Rotary	X / Cabl	e Tools_	
Water strata depth: Fresh feet;	Salt	feet	:	
Coal seam depths:	Is coal	being mir	ned in th	e area? No
OPEN FLOW DATA Producing formation Shale	Pa	av zone dei	oth 1876	-4150 fee
Gas: Initial open flow Mcf/d	Oil: Tr	nitial oper	n flow	Bbl/c
Final open flow 300,000 Mcf/d	F:	inal open	flow	Bb1/
Time of open flow between ini	tial and	final test	s h	ours
Static rock pressure 720 psig(surfa	ce measure	ement) aft	er 48 ho	ours shut i
(If applicable due to multiple completion				
Second producing formation	P	ay zone de	pth	16/2024 fee
Gas: Initial open flowMcf/d	Oil: I	nitial ope	n flow	Bb1/
Final open flow Mcf/d	Oil: F	inal open	flow	Bbl/
Time of open flow between in	tial and	final test	s h	nours
Time of open flow between in	LLLat aik	The state of the s		

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

Sand 20/40 60,000# 800 Gals 15% HCL Nitrogen 1,014,000

Perforations 3010-3868 39 Shots

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale, Rock Big Lime Injun Shale Upper Weir Shale Lower Weir Shale Berea Shale	0 1286 1437 1462 1510 1568 1606 1653 1864 1876	1286 1437 1462 1510 1568 1606 1653 1864 1876 4150 T.D.	

(Attach separate sheets as necessary)

Blue Creek Gas Company	
Well Operator	
By: Stenes M. Rubin	02/16/2024
Date: August 24, 1983	

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 coal, encountered in the drilling of a well." Permit No. 039-3872

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION

RECEIVED

JAN 2 4 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

Oil or Gas Well OAS

CASING AND USED IN LEFT IN Company Blue Creek Gas Co PACKERS Size Kind of Packer_ Kas # Size of Depth set_ Drilling commenced_ 5 3/16_ Drilling completed_____Total depth_ Perf. top__ Date shot____ Depth of shot Perf. bottom Liners Used Initial open flow____ __/10ths Water in___ Perf. top_ Perf. bottom_ Open flow after tubing /10ths Merc. in______ Volume_ Cu. Ft. CASING CEMENTED_ SIZE _No. FT.____Date NAME OF SERVICE COMPANY Rock pressure_ hrs. bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT____ _FEET_ Fresh water_ INCHES INCHES Salt water_ FEET INCHES INCHES RigHT
Moving Rig on Location
going to Start Drilling Late tonight,

1/17/83

Homes H, 02/16/2024,

DATE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY		as the second	ADDRESS				
FARM	po production of the	DISTRIC	- 21 1				
'illing Material Used							
iner I	ocation	Amount	Packer	Location	wi na na na		
PLUGS USEE	AND DEPTH PLACED		BRIDGES	CASIN	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
				A CONTRACTOR	P 2 2 1	72.0	
			entati		- 1	77	
Land the state of				7		4.4 7 7 7 7	
						_ NAME	
				55 D. 12	No. of the last of		
			management of the transfer of the second of			Angles and	
			S AND SO				
		301	N. Washing Bulk and the second			angeron a	
and the second	La company	witanea L	ave the man as made and all the second			7	
				14,24		* 190 PLV 9	
rillers' Names							
mers mannes				7	Y- 27		
emarks:					,		

I hereby certify I visited the above well on this date.

02/16/2024

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



JAN 2 7 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

Permit No. 039-38	322			Oil or	Gas Well Gas
Company Blue C	neek Gas	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address Charles	ton, W.V.A.	Size	Designers consistent and account of the con-		Mary State Committee of the Committee of
Farm Union	Carbide mand	16			Kind of Packer
Well No. Kas #	6200180	13		B. April 4 c.	
District E/A	County Kanawha	81/4	ed nerve	15 - 15 - 15 - 15 - 15 - 15 - 15 - 15 -	Size of
Drilling commenced	1/17/83	7"		1323	Depth set
Drilling completed	Total depth	5 3/16	3		Porf to
Date shot	Depth of shot	2		BURKETE TOPROTEIN A. F. HUNGEL VIEW STORES	Perf. top
Initial open flow	/10ths Water inInch	Liners Used	an and a second of the second	the management of the com-	Perf. top
Open flow after tubing	/10ths Merc. inInch		g, mayor ay parago, g g ming go gar mandagani maga ya go gaga atau	especies and compression of the property of the compression of the com	Perf. bottom
Volume	Cu. Ft.	CASING CEMEN	ITED 7	_SIZE/32	3 No. FT//22/83Date
Rock pressure	lbshrs.				liburton
Dil	bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh water	feetfeet	FEET_	to a Montrol of the		FEETINCHES
Salt water	feetfeet	FEET_	INCH	ES	FEETINCHES
Orillers' Names Bob	Golden	Pusher	Paul	Wehh	er in commence and commence and an experimental and the second and
Clint Hurt	Rig#7				
lemarks: 1/22/83	Rig#7 Ran 1323 F61 08	"pipe 4	cemen	ted wi	th
13 Saci	Ks of Regular 3%	GC. Plug D	20 wn 12:	45 p.M.	by Halliburton
1/24/83	3670 ft. Deep A Will t.D. Late i	Drilling on	Air Ros	nning	65" Bit.
	this date.	no liew eveds sit	noon badiary I willow	es generali s	The second secon

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No		Well No.					
COMPANY	ADDRESS						
FARM	COUNTY						
Filling Material Used	-				43		
Liner Lo	eation	Amount	Packer	Location	2000000		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST	
				9 4 V 4			
			TERRITOR DELLEGIO			T.	
With the same	- CATALL						
	· ·						
rillers' Names					10 P 10 10 10 10 10 10 10 10 10 10 10 10 10	- 7 0	
emarks:	A Comment		and the second s	7 .			

DATE	nereby certify I v	risited the abov	ve well on this date.				

02/16/2024