



1)	Date:	May 30	, 19 84
2)	Operator's Well No.	Richman	#1(8)5-VE 1/310-

Well No. Richman #1

3) API Well No. 47 - 001 - 2072
State County Permit

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

EPT. D	S DIVIS	IVIA		APPLICATIO	N FOR A WE	LL WORK PERM	T	
4) WELL TY	E MI	NEE	Gas 1	Curr ov Ni	NA EN SIMO	rriakon av	DIFICATIONS	OM THATEO
4) WELL II		(If "Gas"	Production	(	Underground	storage	/ Deep	/ Shallow X
5) LOCATIO	ON: E	levation:	1549	) !	Watershed:	Tygart	Valley Riv	er (M-27)
		istrict:	Cove	3	County:			Nestorville
6) WELL OF	PERATOR		wift Ene	ergy Co.			ED AGENTT	im Bennett
Addres	s		. 0. Box		<del></del>	Address		0. BOx 2201
			larksbur	CONTROL OF THE LOCAL PROPERTY OF THE PARTY O	6301			arksburg, WV 263
			BE NOTIFIED			9) DRILLING		
			y stival <i>A</i>			Name	Unk	nown
Addres			WV 26451			Address		
10) PROPOSE							- <del> </del>	V
10) TROTOSI	SD WELL	WORK.			deeper	rate new formation	/ Stimulate	<b>X</b> /
				al change in w		rate new formatio	n/	
11) GEOLOGI	ICAL TAI	RGET FOR						
12) Estima	ated depth	of comple	ted well,	595	O feet			
13) Appro	ximate tra	ta depths:	Fresh, 50	-675	feet; sal	, 1075	feet.	
14) Appro	oximate co	al seam de	pths: 215	;365;47	5Is co	al being mined in th	ie area? Yes	/ No X /
15) CASING A	AND TUB	ING PRO	GRAM					
CASING OR TUBING TYPE		SPEC	CIFICATIONS   Weight		FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
	Size	Grade	per ft. Ne	w Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	11	3/4	X		30		Circulate	Kinds
Fresh water Coal						P. 14 (40) (3)		
Intermediate	8 5	18	77			2		Sizes
Production	41/2	0	X		1000	1000	To Surface	
Tubing	12		1	V	5450	5450	As Req. by	Rigotheset 15.01
Liners			1000		2 P (\$ /2 G) G (2)	V K A 3A 2		
		entime	hatil entroped	of week bles	e steatume :	Sales and Sales		Perforations:
				<b>电影电影</b>		101111111111111111111111111111111111111	287 010031-07 51 44	Top Bottom
(2)	Date:					Solet		
- P			(8)00	<del>ilogondian.</del>	Latter I			· berthon consti
				A STATE OF THE PARTY OF THE PAR	FICE USE C			A STATE OF THE BEAUTY
				DRI	ILLING PE	RMIT		Well-worldstarted
ermit number_	47-	001-20	72				May 31,	10 0/
						184 S	D-4	e fluth edit to containing
his permit cover	ing the we	ell operato	r and well locat	ion shown belo	w is evidence o	f permission grante	ed to drill in accordance	ce with the pertinent legal re-
o. 8) Prior to the	e construc	tion of roa	ds. locations on	d nite for any n	anneitted	meation must be gi	ven to the District Oil	and Gas Inspector, (Refer to tractor shall notify the proper
istrict oil and ga	s inspecto	r 24 hours	before actual p	ermitted work l	has commenced	.)	ell operator or his cont	ractor shall notify the proper
he permitted wo	rk is as de	scribed in	the Notice and	Application, pla	at, and reclama	tion plan subject to		d conditions specified on the
	M	21 10	100	Transition, pri	er, und reciama	non plan, subject to	any modifications an	d conditions specified on the
ermit expires	May	31, 19	986		unless well v	work is commenced	prior to that date and r	prosecuted with due diligence.
			-					OTHER INSPECTIONS
	The same of the sa	. / P	lat: Casi	ng Fee				
Bond:	Agent		Cusi	0 1 00	CONTRACTOR OF THE PARTY OF THE			
Bond:	Agent	V	nu m	11 142				Reasont
Bond: Blanket	MA	r	nu m	# 1022	2	-	11	Reason:

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

<b>FORM</b>	IV-2(B)
Reverse	

Reason: \_

Administrator, Office of Oil and Gas

Permit

FILE COPY





		OFFI	CE USE ONLY	PADLITE		200	tyé	naliva.	262 3 13
PERMIT M	ODIFICATIONS	AND CONDIT	TIONS (IF ANY	) TO TI	HE PR	OPOSE	D WEI	LL WOR	K Liaw (s
Shallow X /		torage se	_/ Underground's						
(LO-61)	ISATAL AS MISA	Jusavi							S) LOCATIO
0 TTEA 300 80 /	Quadrangle;								6) WELLOPI
4066 AUR 1	) CO INDUCTION	<ol> <li>DESIGNATED</li> <li>Address</li> </ol>		1088		.0.			Address
EOS AVW. Databas	is 0			VW .					
	NTRACTOR:	DRILLING CO			GHIP	BE NOT	TOR TO	S INSPEC	8) OH & CAS
0.00									Name
		Address		183					Address
						V2		and Control	
	X/ Stimulate_X		deeper				DIMEN	/ LILL W. KI	
		te new tormanon.	well (specify)						
			Y Charles India	dysy.s			SETFOR	ALTAR	
									12) Estimat
	feet,			ETO					
		being mined in the	12Is con	#1C00					14), Approx
						DKAM		naurun	S) CASING A CASING OR
PACKERS	CEMENT PHILUP OR SACKS	TERVALS				Weight	Grade		TUBING FYFE
	(Cubic feet)	flyw tit 1753	gottlib to i		work	1) asq		2 11	
	eds.uori0		30-		-				
Neat									
Beninsser 1 = (10	S 477 6 6 8 2 3	08182	- 545 On					10. 美華	noisebo
		OFFI	CE USE ONLY						thing
Perforations:			1	1,	C-11	ince	antions		
This part of Form IV-2	2(b) is to record th	e dates of certa	in occurrences	and any	Tollow	-up mst	bections		
		Date						Dat	e(s)
	II	Date							
Application received			Follow-u	ip inspec	ction(s)	)			
Application received			FIRE USE OF	0					
		TIM	HIIILING PER	ti.	,,				
Well work started									rmit auraber
A8 Old	ling		,,,,,	J. married	,,	Hour hare		lew aft on	is permit coveri
Completion of the dril	to drill in accordance.	Permission granted	elow is evidence of	shown be	location	llow bris bonistno	operator ditions co	ig the well to the don	is permit coverin tements subject
Completion of the dril	to drill in accordance.				San Seri			di applemba	
Completion of the dril process Well Record received	to drill in accordance to the district tell as operator or his contra-	n addition, the well	k has countened to	in to me	tual pern		on of rost 24 hours	e <mark>on</mark> strat di Inspector	From to the rict oil and gas
Completion of the dril process Well Record received	to drill in accordance to the district tell as operator or his contra-	n addition, the well	k has countened to	in to me	tual pern	is, lociviti before ac he Notice	m di tug 24 hours ribed in t	e <mark>on</mark> strat di Inspector	From to the rict oil and gas
Well Record received  Reclamation completes	to drill in accordance on the District 128 an operator or his contractions and any modifications and	n addition, the well in plan, subject to	k has commenced.)  plat, and reclamatic	in to me	tual pern	is, lociviti before ac he Notice	on of rost 24 hours	e <mark>on</mark> strat di Inspector	From to the rict oil and gas
Completion of the dril process Well Record received Reclamation completes	to drill in accordance of the drill in accordance or the contractor or his contractor or his contractor modifications and brought to that date and pro-	n addition, the well in plan, subject to	k has commenced.)  plat, and reclamatic	in to me	tual pern	is, lociviti before ac he Notice	m di tug 24 hours ribed in t	e <mark>on</mark> strat di Inspector	rict oil and gas: perthitted world rise hereof.
Completion of the dril process Well Record received Reclamation completes	to drill in accordance of the district of an order to the contractor or his contractor modifications and protection to that date and pro-	n addition, the well in plan, subject to	k has commenced.)  plat, and reclamatic	nisted wor	tual pern	is, lociviti before ac he Notice	on all tags 24 hours wibed in t	e <mark>on</mark> strat di Inspector	rict oil and gas: perthitted world rise hereof.

See the reverse side of the APPLICANT'S COPY to constructions to the well operator.

NOTE: Keep one copy of this permit posted at the drilling focation.

#### INSTRUCTIONS TO APPLICANT

#### CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
  - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
  - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
  - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
  - 7) See Code § § 22-4-11(d, e).

#### CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-lk(d) and the reclamation required by Code § 22-4-l2b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-l2a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

### INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc. Grantee, lessee, etc. Royalty Book Page

Lillie Richman, et vir HOpe Nat. Gas Co. 1/8th 49/411

Hope Gas Swift Energy Co. 1/8th Farmout Agt.

dated 3//1/84

FORM	IV-2	(A)	
Obver	se		,
[8-83]	]		

1) Date: May 30 ,19 84

2) Operator's

Well No. Richman #1

3) API Well No. 47 - 001 - 2072.
State County Permit

### STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR	A	WELL	WORK	PERMIT
---------------------------	---	------	------	--------

		NOTICE OF APPLICATION	FOR A WELL	WORK PERMIT		
4) SU	RFACE OWN	ER(S) OF RECORD TO BE SERVED				
			5(1)	COAL OPERATOR	N/A	
$(\bot)$	Name	Charles Richman		Address		-
	Address_	Box 10	5(ii)	COAT CANED (C) III	FIFTI DECEMBER 1	
(ii)	Name -	Moatsville, WV 26451	3 (11)	Name	ITH DECLARATION ON	RECO
()	Address			Address	N/A	
				11441 (55	No. 1 to 1 to 1	
(iii)	Name			Name	N/A	
	Address			Address	N/A	
			5(iii)	COAL LESSEE WITH	DECLARATION ON REX	CORD
				Name	N / A	00.0
				Address	int in the second	
		TO THE PERSON(S) NAMED ABOVE: You should	have received th	is Form and the following	1	
		(1) The Application for a Well Work to	Permit on Form TI	2/01 /		
		and describes the well and its lo	parties involved exation and, if an	d in the drilling or othe	e well is r work,	
		cementing program;  (2) The plat (surveyor's map) showing  (3) The Construction and Real matical	t the rmll l	- uz proposed c	asing and	
					s only to	
		plug a well), which sets out the reclamation for the site and acce		and sediment control and	for	
		THE REASON YOU RECEIVED THESE DOCUMENT	TO TO THE TOTAL TOTAL	AVE RICHTS DECADITAC TELE	ADDE COMPANY	
		WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU ACTION AT ALL.	ON THE REVERSE S	SIDE OF THE COPY OF THE ANARE NOT REQUIRED TO TAKE	PPLICATION ANY	
		Take notice that under Chapter 22 of erator proposes to file or has filed this				
		erator proposes to file or has filed this for a Well Work Permit with the Administra Department of Mines, with respect to a wel and depicted on attached Form IV-6. Copie Construction and Reclamation Plan have been by hand to the person(s) named above (or before the day of mailing or delivery to the	l at the location s of this Notice, n mailed by regis	of Oll and Gas, West Vir described on attached Ap the Application, the pla tered or certified mail of	ginia plication t, and the	
		6) EXTRACTION RIGHTS			THE ENDIN	
		Check and provide one of the following.			- E (2)	
		Included is the lease or leases or of	ther continuing or	ontract or contracts by w	nich o mil	
		I hold the right to extract oil or The requirement of Code 22-4-1-(c)(1)	through (4) (5)	e reverse side for mani-	T G	
		7) ROYALTY PROVISIONS		se reverse side for specif	Z & &	
		Is the right to extract, produce or mark	et the oil or gas	based upon a lease or 1	promes (P) De	
		for compensation to the owner of the oil	TOT TIAL WELL IN	yaity or any similar prov	vision	
		to the volume of oil or gas so extracted	l, produced or mar	much is not inherently recketed? Yes (No)	lated	
		If the answer above is No moth;				
		you may use Affidavit Form IV-60.	desired last is	needed. If the answer is	Yes,	
		See the reverse side for line item the required copies of the Notice a Reclamation Plan.	instructions, and	for instructions concern	ing	
The d	handh of					
Notic	TO IDDIE	the information on the	WELL			
and s	te and Apr	plication is verified and the Notice is	OPERA	FOR SWIFT EN	ERGY COMPANY	
signe	ed on beh	alf of the Well Operator	_	Ti. N.		
in m	County :	and State by	By	1/m Ha	ry	
		m Bennett	Its	Design	ated Agent	
this	30day of	May , 1984.	AGG	ressP. 0. BOx 2		
		ion expires 6-15, 1989.	Tel	<u>Clarksburg</u> , ephone 62	2-7701	
	/	in the terms of th	1616	02	2-1101	
No	tary Pub	lice Viewer				
	ate of	W. Va.				

OIL & GAS DIVISION DEPT. OF MINES



1)	Date:	lay 3	0	<u>, 19 84</u>
2)	Operator's Well No.	Ric	hman #1	4 (4.1)
3)	API Well No.	47	001	
,	- 100 x 100 x 100 x 100	State	County	Permit

STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL III			/ Gas _						. Y
	B (If	"Gas", P	roduction	0.1		Underground	storage	Valley River	_/ Shallow/)
5) LOCATION	N: Eleva	ation:	124	3		Watershed: _	Tygart		Nestorville
	Distr		Cov	THE PROPERTY AND ADDRESS OF		County:	Barbour	Quadrangle:	
6) WELL OPE	RATOR_		lft En	STATE OF THE PARTY NAMED IN	CONTRACTOR OF THE PERSON NAMED IN		7) DESIGNATE	D MOLITI	Bennett
Address			O. Bo		1201	004	Address		), BOx 2201
		Cli	arksbu	rg,	WV 26	301		Ciai	ksburg, WV 2630
8) OIL & GAS			E NOTIFIE	ED			9) DRILLING C		
Name	hil Tr	acey					Name	Unkno	own
Address	Forest Elkin	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NAME OF TAXABLE PARTY.	S.	_	Address		
10) PROPOSEI	The same of		THE RESERVE OF THE PARTY OF THE	NAME OF TAXABLE PARTY.	/ Drill			/ Stimulate	
							rate new formation		
						ell (specify)			
11) GEOLOGIC	CAL TARG	ET FORM	MATION,	Ha	iverty				
12) Estima	ted depth of	complete	ed well,		5950	feet			
13) Approx	cimate trata	depths:	Fresh,	1 U - 0	77	feet; salt	1075	feet.	
14) Approx			The second second	5:3	365; 475	Is co	oal being mined in th	ne area? Yes	/ No/
15) CASING A									
DI CASINO A									
	1	SPECI	FICATIONS		-	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
CASING OR TUBING TYPE			Weight	New	Used		INTERVALS Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
CASING OR TUBING TYPE	Size	SPECI Grade		New X	Used	FOOTAGE For drilling	1	OR SACKS	PACKERS  Kinds
CASING OR TUBING TYPE			Weight		Used	For drilling	1	OR SACKS (Cubic feet)	en com de l'agre a killing
CASING OR TUBING TYPE  Conductor  Fresh water			Weight		Used	For drilling	1	OR SACKS (Cubic feet)	en com de l'agre a killing
CASING OR TUBING TYPE  Conductor  Fresh water  Coal			Weight		Used	For drilling	1	OR SACKS (Cubic feet)	Kinds
CASING OR TUBING TYPE  Conductor  Fresh water  Coal  Intermediate	Size 11 3 4		Weight	Х	Used	For drilling	Left in well	OR SACKS (Cubic feet)	Kinds
CASING OR TUBING TYPE  Conductor  Fresh water  Coal  Intermediate  Production	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Kinds Sizes
CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Kinds Sizes
CASING OR TUBING TYPE  Conductor  Fresh water  Coal  Intermediate  Production  Tubing	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Kinds Sizes Depths set
CASING OR TUBING TYPE  Conductor  Fresh water  Coal  Intermediate  Production	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Sizes  Depths set  Perforations:
CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Sizes  Depths set  Perforations:
CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Sizes  Depths set  Perforations:
CASING OR TUBING TYPE  Conductor Fresh water  Coal Intermediate Production Tubing	Size 11 3 4		Weight	X	Used	For drilling 30	Left in well	OR SACKS (Cubic feet)  Circulate  To Surface	Sizes  Depths set  Perforations:

The law requires a comment period for surface owners. However, the permit can be issued in less than 13 days from the filing of the Application if the surface owner(s) of record sign(s) the following "Voluntary Statement of No Objection" on a facsimile of this surface owner's copy of the Application.

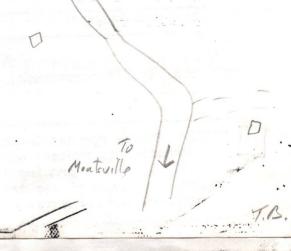
### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have received copies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survey plat on Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on those

(For execution by corporation, partnership, etc.)	(For execution by natural persons)
NAME:	— Charles Rickman Date: 5-30-84 (Signature)
By Date	(Signature) Date:
Its	

Surface Owner



0	
7	
1	
1	-
C	
~	V
13	٩

(Continue on reverse side)

IV-35 (Rev 8-81)

Dina	
RECEIVED	
OCT 2 - 1984	tate of West Wirginia
DEPT. OF MINES	Department of Mines Gil und Gas Bivision

Date	Septembe	r 19, 1984
Operator's Well No.	Richman	
Farm	188285-18	<u> 293 - mvo</u>
API No. 47	_ 001	_ 2072

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

LOCATION: Elevation: 1549' Watershed_	Tygart Va	lley River	TO CON	
District: Cove County	Barbour	Quadrangle	Nestor	ville, 7.5
THE PERSON AND THE PE	3			Land h
COMPANY Swift Energy Company	1 200			Cement
ADDRESS P.O. Box 2201, Clarksburg, WV 26301	Casing	Used in	Left	fill up
DESIGNATED AGENT Tim Bennett	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 2201, Clarksburg, WV 26301	Size 20-16		3 33	1
SURFACE OWNER Charles H. Richman	Cond.	br.		
ADDRESS Box 10, Moatsville, WV 26451	13-10"	128	518	als bas one
MINERAL RIGHTS OWNER Same	9 5/8			10012 0100
ADDRESS	8 5/8		917'	260 sx
OIL AND GAS INSPECTOR FOR THIS WORKPhillip	racy 7	I AL		pace onec
Forest Fest.#24ADDRESS Elkins. EV 26451	5 1/2	order Nice		apajd glac
PERMIT ISSUED 05-30-84	4 1/2	01150	5389'	600 sx
DRILLING COMMENCED 06-05-84	3	008		Valle base
DRILLING COMPLETED 06-10-84	23/8"	400	5241'	alp type
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Haverty	-	Der	oth 59	50 fee
Tid Ver cy	h Dohawa			
	ROTATV	//// CCD2	10015_	
Depth of completed well 5999 fee Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417 Coal seam depths: 422-423'	t; Salt	feet being mir		e area:No
Depth of completed well 5999 fee Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417	t; Salt			e area?No
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417  Coal seam depths: 422-423'	t; Salt Is coal	being mir	ned in th	
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417 Coal seam depths: 422-423'  OPEN FLOW DATA	t; SaltIs coal	being mir y zone dep	ed in the	fee
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417 Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th E1k/Bens Gas: Initial open flow Mcf/	Is coal son Pa d Oil: In	being mir y zone dep	ned in tho oth 4662 n flow	fee
Depth of completed well 5999 fee  Water strata depth: Fresh 25'; 53'fee 22-25'; 193-199'; 413-417 Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formation Haverty/4th Elk/Bens	Is coal  son Pa d Oil: In d Fi	being mir y zone der itial oper nal open f	ned in thoth 4662 in flow	fee Bbl/
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199; 413-417  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formation Haverty/4th Elk/Bens Gas: Initial open flow Mcf/  Final open flow 381* Mcf/	Is coal  Son Pa  d Oil: In  d Finitial and f	being mir y zone der itial oper nal open f inal tests	oth 4662  oflow  flow  s 4 h	fee Bbl/ Bbl/ ours
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/  Final open flow 381* Mcf/  Time of open flow between i	Is coal  Son Pa  d Oil: In  d Fi  nitial and f	being mir y zone der itial oper nal open f inal tests	oth 4662  oflow  flow  s 4 h	fee Bbl/ Bbl/ ours
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417 Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/ Final open flow 381* Mcf/ Time of open flow between i Static rock pressure 890 psig(sur	Is coal  Son Pa  d Oil: In  d Fi  nitial and f  face measure  ion)	being mir y zone der itial oper nal open f inal tests ment) afte	oth 4662  flow  flow  s 4 h	fee Bbl/ Bbl/ ours
Depth of completed well 5999 fee  Water strata depth; Fresh 25'; 53'fee 22-25'; 193-199'; 413-417 Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/ Final open flow 381* Mcf/ Time of open flow between i Static rock pressure 890 psig(sur (If applicable due to multiple complete	Is coal  Son Pa  d Oil: In  d Fi  nitial and f  face measure  ion)  n Sand Pa	being mir y zone der itial oper nal open f inal tests ment) afte y zone der	oth 4662  flow  s 4 h  er 12 ho	fee Bbl/ours urs shut i

\*Gas comingled from formations.

Permit No. 001-2072

#### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



### INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Oil or Gas Well\_

Company Swift	+ Energy	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PAC	KERS
	00	Size				
Address	ichman	16			Kind of Pa	cker
Farm	CAMILIA -	13			A Patricia is	
Well No.	. 1	10			Size of	
District Core	Count Larbour	81/4				
Drilling commenced		6%			Depth set_	
		5 3/16				
Drilling completed	Total depth	3			Perf. top_	
Date shot	Depth of shot	2			Perf. botto	m
Initial open flow	/10ths Water inInch	Liners Used			Perf. top_	
Open flow after tubing	/10ths Merc. inInch				Perf. botto	m
				2100	). TM	D-4
Volume	Cu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressure	lbshrs.	NAME OF SEI	RVICE COMP	ANY		
Oil	bbls., 1st 24 hrs.	COAL WAS EN	NCOUNTERE	) AT	FEET	INCHES
Fresh water	feetfeet	FEET	INC	HES	FEET	INCHES
Salt water	feetfeet	FEET	INC	HES	_FEET	INCHES
						in direction
Drillers' Names						
Remarks: a Regions						

6-4-84 BATE Ally Lovey DISTRICT WELL INSPECTOR

Form 26 2/16/82

### STATE OF WEST VIRGINIA

### **DEPARTMENT OF MINES**

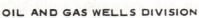
### OIL AND GAS WELLS DIVISION

### **INSPECTOR'S PLUGGING REPORT**

ermit No.		6	_ ADDRESS			
ARM		DISTRICT	C	OUNTY		
illing Material Used	1224				1,113	
iner Loc	ation	Amount	Packer	Loc	cation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
						V.
State of the control	A STATE OF THE STA					
			<u> </u>	1		
alamban ka menandiga, pama 1,580 km ka mid dan memili san ka menangan sa 1,500 km ka menangan sa 1,500 km ka m	Annual Constitution of the					
70 2 97						and a supply
				1984		
				101		
The second of the second	L RUE	Many Many		Company (six was		
	THANK		MAN STATE OF THE S			
			The second secon	and the second s		
792	A 92.58	TO THE PARTY OF	177 . 386. 18. 18. 1.2164.			
rillers' Names						
rillers' Names		and the second	THE RESERVE TO THE PARTY OF THE			
						The False
Remarks:						
]	hereby certify I vis	sited the above well	on this date.			
DATE						

#### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES





OIL & GAS DIVISION

### INSPECTOR'S WELL REPOBERT. OF MINES

Permit No. <u>CO/- 2072</u>			Oil or	Gas Well	
Company Swift anergy	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKE	IRS
Address	Size				
Farm Riching Ans	16			Kind of Pack	er
Well No.	10	ASS TILES	Manual Wing	Size of	W. (350)
District COUE County BARB	8-3/8	917	917	- 260 -	
Drilling commenced 6/4/84	6%			Depth set	
Drilling completedTotal depth	3			Perf. top	
Date shotDepth of shot	2			Perf. bottom	
Initial open flow/10ths Water inInch	Liners Used			Perf. top Perf. bottom	
Open flow after tubing/10ths Merc. inInch					
VolumeCu. Ft.	CASING CEME	NTED	SIZE	No. FT	Date
Rock pressurelbs,hrs.	NAME OF SE	RVICE COMPA	ANY		
Oilbbls., 1st 24 hrs.	COAL WAS EN	NCOUNTEREI	) AT	FEET	_INCHES
Fresh waterfeetfeet	FEET	INC	HES	_FEET	_INCHES
Salt waterfeetfeet	FEET	INC	HES	_FEET	INCHES
Drillers' Names Contuny Ru	9 4/				al intel
Remarks:					

6/8/84 DATE Lusell h Bell 50/

Form 26 2/16/82

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

#### OIL AND GAS WELLS DIVISION

### **INSPECTOR'S PLUGGING REPORT**

COMPANY			ADDD	FSS		4.70	0
FARM		DISTRIC	ADDR Т	.Eoo	OUNTY	negation confe	
TARW	1409	DISTRIC	- Market Co		111100		
Filling Material Used					1		
Liner Loc	cation	Am	iount	Packer	Loc	eation	
PLUGS USED A	ND DEPTH PLACE	)		BRIDGES	CASING	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTR	RUCTION-LOCATION	RECOVERED	SIZE	LOST
- 260-	4115	16.	Re Jan	8008		au.	
aleman and the second				/	1 1/3		
					( ***(ra) )		and the
				deal			t was fare
A CONTRACTOR OF THE CONTRACTOR							
		THE STATE OF THE S			18 17 The section of	, galder 19	ilk wish ers
					Marine series and an artist		
	777					er men er en	AUGUSTA A
ALORAL PATE							
Drillers' Names		10,733					
	1.25700	- 78		Jack S.	300		- 157 - R. A. 150 - 173.
Remarks:							
DATE	hereby certify I vi	sited the above	well on this da	te.			
DATE							
139 118				DIST	RICT WELL INSF	PECTOR	1

#### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

### DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit N <i>OO/- 2071</i>	2	Oil or Gas Well				
Company Red	> Swift	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKE	RS
Address		Size			and the second	
71	LAMAN	16			Kind of Pack	er
	#/	13	The state of the s	and the T	Size of	
District	County 00	81/4			Size oi	
		65/8			Depth set	
Drilling commenced		5 3/16				
	Total depth	3			Perf. top Perf. bottom_	
	Depth of shot	Liners Used			Perf. top	
	/10ths Water inInch				Perf. bottom.	
	/10ths Merc. inInch	CASING CEME		CIZE	No ET	Date
Volume	Cu. Ft.	NAME OF SE				
Rock pressure					p.p.p.m	INCHES
Oil	bbls., 1st 24 hrs.				FEET	
Fresh water	feetfeet				FEET	
	feetfeet	FEE?	rINC	HES	FEET	INCHES
Cowt _	Kugn	5				
Remarks:	Parla - of Sand	ed a	10002 14	STA	ntinig -	
æ	eclained, Seed. Should be o	R- lu	111/ W	AIT.		

RG-Beace - S

#### STATE OF WEST VIRGINIA

### **DEPARTMENT OF MINES**

### OIL AND GAS WELLS DIVISION

### **INSPECTOR'S PLUGGING REPORT**

OMPANY			ADDRESS		3	T1 2 1 4
			C			er -20 er e
	2 1 7 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2					i i i i i i i i i i i i i i i i i i i
illing Material Used						
iner Loc	ation	Amour	nt Packer	Loc	ation	
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASINO	AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
				1		
			1,853	1100		
			to the state of th	1077	- FR	Barron
			The state of the s			3
The second secon		To the same of	5049 Turk 2			
	THE RESERVE	20131-012				W-12
			and the second s		Market of the Control	THE PARTY
D7714 23 (L)	THE CAME	йосэх зас.	Colors de le color de la color			
illers' Names		nesting.				
emarks:						
Ih	ereby certify I visi	ted the above we	ll on this date			
1.11						

COMPANY Swift Energy Company





OIL & GAS DIVISION

PERMIT NO 001-2072

### DEPT. OF MINES

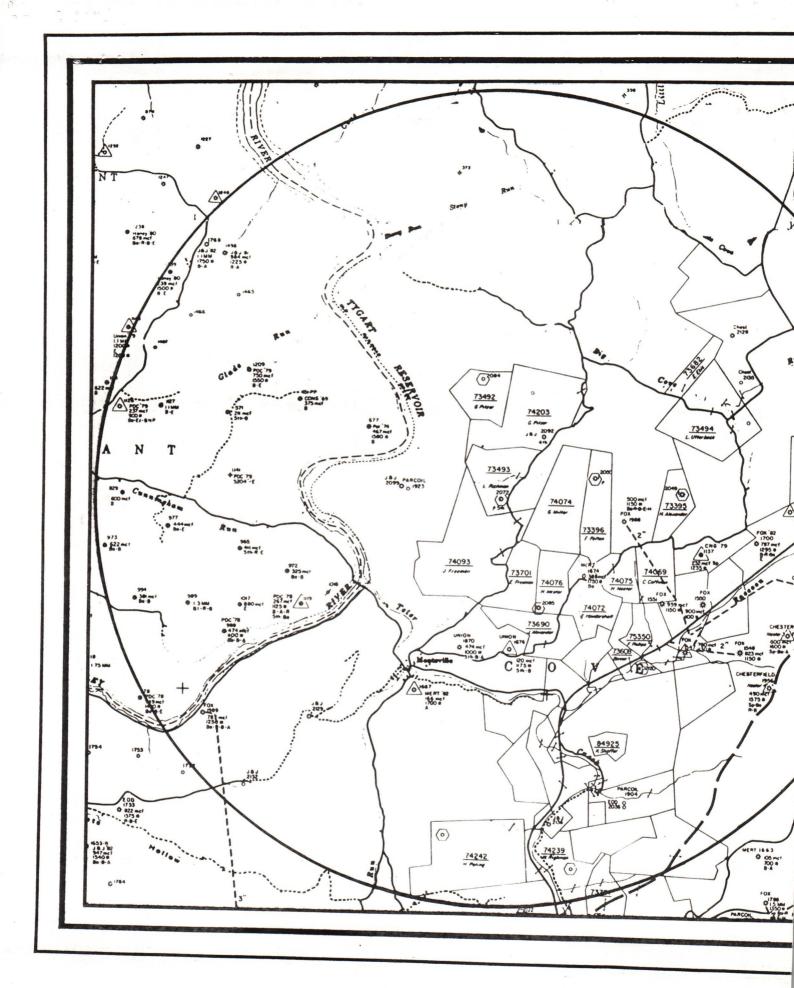
### State of West Birginia Bepartment of Mines

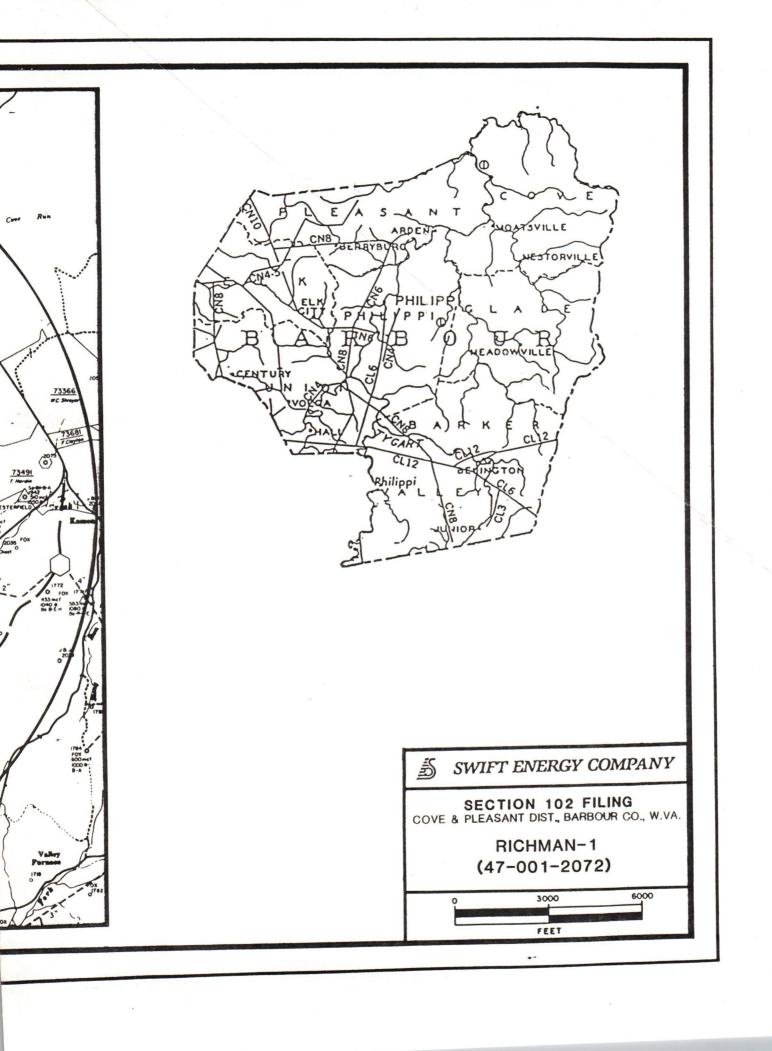
Gil and Gas Bivision

Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT November 1, 1984

P. O.	Box 2201	FARM & WELL	NO.	Charles Richman #1
Clarks	sburg, West Virginia 26301	DIST. & COU	NTY	Cove/Barbour
RULE	DESCRIPTION			COMPLIANCE
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting Work Prepared before Drilling to Prevent Migh-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Waste Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gatheri Well Records on Site Well Records Filed Identification Markings		YES  L  L  L  L  L  L  L  L  L  L  L  L  L	
Your well	NSPECTED THE ABOVE CAPTIONED WELL AND  record was received and reclamation pter 22, Article 4, Section 2, the abo for the life of the well.	DATE 4-	2 appro	4-85  ved. In accordance
				1 & Gas Division 2, 1985





### STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE 12-13-84

OPERATOR'S WELL NO. Richman No

> API WELL NO. 47 \_ 001 \_ 20 STATE COUNTY PE

### WELL CLASSIFICATION FORM

### HIGH COST GAS WELL - DEVONIAN SHALE

NGPA SECTION 107

WELL OPERATOR Swift Energy Company	DESIGNATED AGENT Tim Bennett
ADDRESS 652 E. North Belt, #200	ADDRESS P.O. Box 2201
Houston, TX 77060	Clarksburg, WV 26301
GAS PURCHASER Tennessee Gas Pipeline Company	LOCATION Elevation 1549'
ADDRESS 5646 U.S. Steel Bldg., 600 Grant Street	Watershed Tygart Valley River
Pittsburgh, PA 15219	Dist. Cove County Barbour Quad.
Date of Contract 09-06-84	Contract No. 1540
Date Surface Drilling Began: 06-05-84	Meter Chart Code
* * * *	* * *
Indicate the bottom hole pressure of the well	and explain how this was calculated:
$BHP = P_1 + P_1 (e^{(GL/5)})$	53.34T) -1)
G = .7	
L = 5296' $T = 584^{\circ}R$	BHP = 1019 psia
P <sub>1</sub> = 904.7 psia	
AFFIDAVI	<u>T</u>
calculated the percentage of footage of the proshale as indicated by a Gamma Ray index of less in subparagraph (3)(i) of (3)(ii)(A) has been paragraph (3)(ii)(B); I have demonstrated that qualifying non-shale footage is equal to or less Devonian age interval; and I have no knowledge application which is constistant with a conclust cast natural gas well.	filed, or as indicated by report in sub- the percentage of potentially dis- ss than five(5) percent of the gross
	noul / ( )
STATE OF WEST TIRGINIA TEXAS	
COUNTY OF HARRIS, TO-WIT:	
I, J. F. SMITH a Notany Duble	in in and so the
do certify that $\frac{V(G)(N,Sw,f,r)}{N,Sw,f,r}$ , who date the $\frac{13}{12}$ day of $\frac{ROOMBO}{N,Sw,f,r}$ , 19, in my county aforesaid	or in and for the state and county afore
date the 13th day of ROCOMBOC 19	has acknowledged the account of
Given under my hand and official seal this 13/4	day of Docombos 1082
Given under my hand and official seal this 13/2 My term of office expires on the 14th day of	Adamsk 10 88
	- J - Onus
	NOTARY PUBLIC
(Notarial Seal)	

CLARKS DUNG, WY 2000

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

 $\frac{\text{Havery \& 4th Elk}}{20\text{-}40\text{ SD, 500 GA, 539BGW.}} - \frac{4922'\text{-}4927', 5264'\text{-}5296'}{20\text{-}40\text{ SD, 500 GA, 539BGW.}} + \frac{30\text{-}40\text{ SD, 500 GA, 539BGW.}}{20\text{-}40\text{ SD, 500 GA, 539BGW.}} + \frac{30\text{-}938'\text{-}4034', 40\text{-}000 SCF N_2, 5\text{-}000\#80\text{-}100 SD, 30\text{-}000\#20\text{-}40\text{-}SD, 500 GA, 519BGW.}}{20\text{-}40\text{-}50\text{-}2333'\text{-}2398', 40\text{-}000 SCF N_2, 5\text{-}000\#80\text{-}10 SD, 35\text{-}000\#20\text{-}40\text{-}SD, 500 GA, 473BGW.}} + \frac{30\text{-}93\text{-}10\text{-}1$ 

#### WELL LOG

Clay Coal Shale and Sand Coal Shale and Sand Coal Coal Sand Coal	0 22 25 193 199 413	22 25 193 199 413	and salt water, coal, oil and gas  Water at 25' - 1 1/2"  Water at 53' - 3/4"
Shale & Sand & Red Rock Shale and Sand Little Lime and Shale Big Lime Sand w/Shale Stages Shale w/Sand Stages Shale w/Sand Stages Shale w/Sand Stages Shale w/Sand Stages And w/Shale Stages hale w/Sand Stages and w/Shale Stages and w/Shale Stages hale w/Sand Stages	417 422 423 1079 1235 1247 1349 1500 1590 1810 2180 2400 2900 3000 4020 4090	417 422 423 1079 1235 1247 1349 1500 1590 1810 2180 2400 2900 3000 4020 4090 5995' T.D.	
		y freque	

(Attach separate sheets as necessary)

ENERGY COMPANY

Kitterman - V.P.-Drlg. & Prod.

September 19, 1984

Regulation 2.02(i) provides as follows: Note: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including countries in the drilling of a well." IV-35 (Rev 8-81)

De	OT WEST VIEW
MEGENVEN	
OU UCT 2 - 100	
DEPT. OF MINES	tete of Mest Mirginia Department of Mines
MINES	Gil und Gas Bivision

Date	September 19, 1984					
Operator's Well No.	Richman		No. 1			
Farm			SE			
API No. 47	-	001		2072		

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

OCATION: Elevation: 1549' Watershed_	Tygart va	Tey Kiver	7757 KEWS	7
District: Cove County Ba	arbour (	Quadrangle	Nestor	rville, /.
What is the second of the seco				
COMPANY Swift Energy Company				bins) b
ADDRESS P.O. Box 2201, Clarksburg, WV 26301	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Tim Bennett	Tubing	Drilling	Service and the Service	
ADDRESS P.O. Box 2201, Clarksburg, WV 26301	Size			1
SURFACE OWNER Charles H. Richman	20-16		8.0%	to a title Ruad t
ADDRESS Box 10, Moatsville, WV 26451	Cond.		- of	2 and 5
MINERAL RIGHTS OWNER Same	13-10"			no 12 for
	9 5/8		917'	260 sx
ADDRESSOIL AND GAS INSPECTOR FOR THIS WORKPhillip_Tr	8 5/8 ac/		32.	2 1/16
Forest Fest.#24ADDRESS Elkins. EV 26451				z metd eta
PERMIT ISSUED 05-30-84	5 1/2	15	5389'	600 sx
DRILLING COMMENCED 06-05-84	3			1 2 13 has
DRILLING COMPLETED 06-10-84		ong.	5241'	alig bits
DRILLING COMPLETED	23/8"		-	
DELICABLE DILICATING OF DRY HOLE ON				
IF APPLICABLE: PLUGGING OF DRY HOLE ON	Liners			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners			. In
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON		De	oth 59	950 fe
TF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	used	De	pth 59	950 <b>f</b> e
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON GEOLOGICAL TARGET FORMATION Haverty  The second control of the second control	used	XX/ Cab	le Tools	950 <b>f</b> e
TF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON GEOLOGICAL TARGET FORMATION Haverty  The second control of the second control	used	XX/ Cab	le Tools	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	used	XX/ Cab	le Tools	950 fe
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	used Rotary :; Salt Is coal	XX/ Cab fee being mi	le Tools t ned in t	he area?No
OPEN FLOW DATA	Rotary; SaltIs coal	XX/ Cab fee being mi	le Tools t ned in t	he area?No
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON  GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet Water strata depth: Fresh 25'; 53'feet 22-25'; 193-199'; 413-417'  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens	Rotary	XX/ Cab fee being mi ay zone denitial ope	le Tools t ned in t epth 466 en flow_	he area No
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet Water strata depth: Fresh 25'; 53'feet 22-25'; 193-199'; 413-417'  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/6	Rotary	XX/ Cab fee being mi ay zone de nitial open	te Tools  t  ned in the  epth 466  en flow  flow	he area <sup>NO</sup> 2 fe
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet Water strata depth; Fresh 25'; 53'feet 22-25'; 193-199'; 413-417' Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/G	Rotary; Salt Is coal	XX/ Cab fee being mi ay zone de nitial open inal open final tes	tened in the pth 466 en flow the 4	he area?No  2 fe  Bbi  Bbi
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON  GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet  Water strata depth; Fresh 25'; 53'feet  22-25'; 193-199'; 413-417  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/G  Final open flow 381* Mcf/G	Rotary; Salt Is coal	XX/ Cab fee being mi ay zone de nitial open inal open final tes	tened in the pth 466 en flow the 4	he area?No  2 fe  Bbi  Bbi
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON  GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet  Water strata depth: Fresh 25'; 53'feet 22-25'; 193-199'; 413-417' Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/o  Final open flow 381* Mcf/o  Time of open flow between in Static rock pressure 890 psig(sur	Rotary	XX/ Cab fee being mi ay zone de nitial open inal open final tes rement) af	tepth 466 en flow flow ts 4 ter 12	he area No 2 fe Bbi  Bbi  hours  nours shut
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON  GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet  Water strata depth: Fresh 25'; 53'feet 22-25'; 193-199 413-417  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/G  Final open flow 381* Mcf/G  Time of open flow between in  Static rock pressure 890 psig(sur (If applicable due to multiple completed)	Rotary; Salt Is coal  sonp  d Oil: I  d F  nitial and face measur  cion)  h Sand	XX/ Cab fee being mi ay zone de nitial open inal open final tes ement) af	tepth 466 en flow ts 4 ter 12	he area No 2 fe Bbl  Bbl  hours  nours shut
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON  GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet  Water strata depth: Fresh 25'; 53'feet  22-25'; 193-199'; 413-417  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens  Gas: Initial open flow Mcf/o  Time of open flow between i  Static rock pressure 890 psig(sur  (If applicable due to multiple complet  Second producing formation Balltown/5t	Rotary  Salt  Is coal  on P  d Oil: I  d F  nitial and  face measur  ion)  h Sand  /d Oil:	XX/ Cab fee fee being mi ay zone de nitial open inal open final tes ement) af eay zone de Tay zone de Initial open	tepth 466 en flow ts 4 ter 12	he area No  2 fe  Bbi  Bbi  hours  hours shut
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON  GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet  Water strata depth: Fresh 25'; 53'feet  22-25'; 193-199'; 413-417'  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens  Gas: Initial open flow Mcf/of  Time of open flow between in  Static rock pressure 890 psig(sur  (If applicable due to multiple complete  Second producing formation Balltown/5t  Gas: Initial open flow Mcf/of  Gas: Initial open flow Mcf/of  Mcf/of  Firel open flow Mcf/of  Mcf/o	Rotary  ; Salt  Is coal  do Oil: If d Finitial and face measur  ion) h Sand /d Oil: /d Oil:	XX/ Cab fee fee being mi ay zone de nitial open final tes rement) af Pay zone of Initial open Final open	tepth 466 en flow ts 4 ter 12 lepth cen flow flow transfer flow the flow	he area No  2 fe  Bbi  Bbi  hours  nours shut
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON GEOLOGICAL TARGET FORMATION Haverty  Depth of completed well 5999 feet Water strata depth: Fresh 25'; 53'feet 22-25'; 193-199'; 413-417'  Coal seam depths: 422-423'  OPEN FLOW DATA  Producing formationHaverty/4th Elk/Bens Gas: Initial open flow Mcf/G  Final open flow 381* Mcf/G  Time of open flow between in Static rock pressure 890 psig(sur (If applicable due to multiple completed)	Rotary  ; Salt  Is coal  do Oil: If d Finitial and face measur  ;ion) h Sand /d Oil: /d Oil: initial and	fee being mind ay zone denitial open final testement) after a construction open final testement.	tepth 466 en flow ts 4 ter 12 depth en flow ts flow ter 12	he area No  2 fe  Bbi  Bbi  hours  hours shut  2635 f  Br  Bbi  hours

### APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)

	UNDER	THE NATURAL	GAS POLICY ACT	(NGPA)	
1.0 API will number III not assigned, leave blank. 14 digits.1	!	47 - 001 - 2072 -			
2.0 Type of chiermination being sought	<del></del>				
(Use the cones found on the front	1		102	2	
of this form !	i		CININ OF NGPA	CHOOLE	MAN
30 Depin of the deciest completion	<del>- i</del>		Ciam of the	DIFICE	
location (Only needed it sections 103	1		5296	lik b	Ul
0: 107 in 20 above 1	ı			-10	
4.0 Name andress and code number of	<del></del>			DEC 2	8 1984
acolicant 135 inters per line	Curi	ft Energy Com	anu		037373
maximum. If inde number not	I Name	it mergy will	Jaily	OIL & G	AS DIV
aveilable lear blank !		. D. Marrilla D. 11		O TOTA	F MINES "
The state of the s		E. North Belt	C, #200	DEP1. O	1 14111160
1	Street			77060	
		ston		77060	
50 Location of this neil (Complete fall	City		Stat	e Zip Code	!
or (b)	COX	e District			
lat for onino e wells					
1	Field	_	T.W.7		
135 letters maximum for field	-	bour	<u>WV</u>		
1015-005	1 Count	<b>v</b>	SIAL	•	:
Ibl For DCS wells					
	;				
1	Arga N	inme		Black North	٠٠٠
*	1				
	1	Det	e of Lease		
	1			8	
	1	Mo.	Day Yr.	OCS Less Number	
Ir I Name and identification number	! -:				
of this well 135 letters and straits	Ric	chman No. 1			
CASIMUM I					
ldl If cocke 4 or 5 in 2.0 above, name	1				
of the reservoir (35 letters	ı				
Gastinian )					
5.0 fall Name and code number of the	1				
Dirichaser 1.35 letters and digits	i				
maximum. If code number not	Ter	nessee Gas Pir	peline Company		
availation leave blank.)	1 Name				Buyer Con-
151 Date of the contract	1		-		0070.001
			101910161	8 14 1	
	i		Mo. Day	Y1.	
fel Estimated total annual production	!				
from the well	!		2	5 Milion Cute	Feet
	1			The state of the s	
	1		T	Icl All Other	
*	1	(a) Base Price	(N) To-	Aices Undicate	(d) Total of fai
	1		1	(+) or (-1.)	ibl and Ici
O Contrat: Drice	;			-	
(As of filling date Complete to ]	SAMMBTU	3 8 4 5	-0307	+ 0 3 0 7	3 8 4 5
decimal places.)	1				
O Maximum fawful rate:	+				
(As of filing date Considere to 3	S/MMBTU	3 8 4 5	-0307	+ 0 307	3 8 4 5
decimal places !	1	3.0/123	0.507		
Person responsible for this application.	1		l	L	L
application;	!	1/12 20	1.	)	17 D
Anney Use Only		rgil N. Swift			ive V.P.
in Received by Jung Agency	1 Name	1110-111	1/ XX	Title	
DEC 28 1091	1	(mgc)	~ 0	7	
14 Received to FERC	1 Signatur	//			
THE THE	12.	-13-84		713/445-	0844

FERC-121 (8-82)

Date 12-13 . 1984

#### STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. Richman No. 1

API Well
No. 47 - 001 - 2072
State - County - Permit

#### WELL CLASSIFICATION FORM

### WELLS DRILLED MORE THAN 2.5 MILES FROM A MARKER WELL

NGPA Section 102(c)(1)(B)(i) Category 2

	DESIGNATE	D ACENT Tim Bennett	
	ADDRESS_	P.O. Box 2201	
1	70.0	Clarksburg, WV 26301	
WELL OPERATOR Swift Energy Company	LOCATION:	Elevation 1549'	
ADDRESS 652 E. North Belt, #200		Watershed Tygart Valley River	
Houston, TX 77060		Dist. Cove county Barbour Quad. Nestorvi	lle
CAS PURCHASER Tennessee Gas Pipeline Co.		Gas Purchase Contract No. 1540	7.5 min
ADDRESS 5646 U.S. Steel Bldg.,600 Grant Pittsburgh, PA 15219	Street	Meter Chart Code  Date of Contract 09-06-84	
* * * * * * * *	* *	* * * * * *	

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, B&O Tax Records and royalty payment records) and indicate the location of such records:

Inquiry made to pipeline company to determine no pipeline available prior to 4/20/77.

Describe the search made of any records listed above:

Dates wells drilled Depth of wells Location of wells Production or best information

Are there any records not reasonably available to you which may contain information relevant to a determination of eligibility? Yes  $No\frac{XX}{X}$ . If yes, identify such records and indicate their location, if known:

FORM IV-48WC (02-84)

### STATE OF WEST VIRGINIA

### DEPARTMENT OF MINES, OIL AND GAS DIVISION

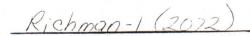
JAN 15 1985

### COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 12-13,19_84	AGENCY USE ONLY
Applicant's Name: Swift Energy Company	WELL DETERMINATION FILE NUMBER
Address: 652 E. North Belt, #200	
Houston, TX 77060	841228 -102-001-2072
Gas Purchaser Contract No1540	Use Above File Number on all Communications Relating to This Well
Date of Contract 09-06-84 (Month, day and year)	
First Purchaser: Tennessee Gas Pipeline Company	Designated Agent:Tim Bennett
Address: 5646 U.S. Steel Bldg., 600 Grant Street	Address: P.O. Box 2201
(Street or P.O. Box) Pittsburgh PA 15219	Clarksburg, WV 26301
(City) (State) (Zip Code) FERC Seller Code 037373	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERN	ING THIS APPLICATION SHALL
Name: Virgil N. Swift (Print)	Executive V.P.
Signature:	Man (Title)
Address:  652 E. North Belt, #200  (Street or P.O. Box)  Houston TX  (City) (State)  (Area Code) (Phone)	77060 (Zip Code)
(Area Code) (Phone ) (Certificate of Proof of Service to Purcha	
NGPA Catagory App	olied For
102 New Natural Gas  XX 102-2 2.5 Mile Test  102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir  103 New Onshore Production Well 103 New Onshore Production Well	108 Stripper Well Natural Gas  108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Buildup
107 High Cost Natural Gas 107-0 Deep (more than 15,000 feet)	AGENCY USE ONLY
107-2 Coal Seams 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation 107-7 Recompletion Tight Formation	QUALIFIED
DEC 2 8 1984	
OIL & GAS DIV. DEPT. OF MINES	

Date Received

Determination Date





## SECTION 102, WEST VIRGINIA DEEPEST COMPLETION LOCATION / MARKER WELLS

COUNTY	PERMIT NO.	DRILLING DATE	PRODUCING FORMATION / TD		
Barb. Co. / Pleasant D	372	68	Dry & Abandone	1/	
(PL		69	B	/	
(PL		177	5th B. Sp	1 4225'	
(pi	677	174 /	B	14274"	
PL	829	177	B	14140'	
Pe	965	178	5th, R, E, Ba	14369'	
(PL)	972	178	Ba, B	/	
(P2	973	17.3 -	Ba, B	14385	
(PL)	977	178	Ba,E	15208	
(PL	988	178	Ba, B, A	1,4862	
(PL	989	178	B.I., R. B. B9	14606	
(PL)	994		BaB	/	
(PL)	1017	'78	B, R, E	/ 4815'	
(PZ)	1018		Plugged & Abandone		
(PL)	1119	179	BAR	14802'	
(PL)	1126	179	Ba, Ez	14304	
(PL)	1127		BE	/	
(c)	11.37	'79	Sp	15239'	
(PL)	1141	179	Dry& Abandoned	/	
(PL)	1209	179	BR	14200'	
(pi		179	BE	15546	
· (PL)	14/98	181	B, A	15301'	
(C)	1547	181	Ba, B, E	15472'	
(c)	1548	181	B9, B, E	15410'	
(c)	15.50	181	5th, By, Sp, Ba, B, R, E		
(c)	1551	181	Ba, R, B	1 5676	
(c)	1667	182	A	51851	
(c)	1674	182	B,E	15709'	
(0)	110710	182	5th, B	15531'	
(C)	1700:	182	B, R, Ba, E	15751	
(PL)	1768	182	B, A	15400'	
(c)	177/	182	BO, R, B, E	157241	
(c)	1772	83	B9, B, E	157391	
(C)	1870	183	5th, B, E	15530'	
(c)	1941	8.3	$S\rho, B, A$	1 4505	
(0)	1942	18.3	Sp, Ba, A, B	14400'	
(c)	1955	183	Sp. Ba, A	14503'	
(c)	1956	183	Sp, Ba, R, B	14550'	
(c)	1988	183	Ba, R, B, E	1 5692	
(c)	1989		Ba, R, B, A	_	
(C)	2092		Z/+h	/	
				SANDS	
			A - Alexande B - Benson	r Ba - Balltown By - Bayard	
			E - Elk	B.I Big Inju	