Hills



1)	Date: N	lay	3		Mary .	, 19	84
2)	Operator's Well No.	F	Fel	ton	#1		PORN
3)	API Well No	-	7 -			2050	We held
		Sta	te	-08	unty		Permit

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

APPLICATION FOR A WELL WORK PERMIT

					/ Underground	storage	Deep	_/ Shallow X/)
5) LOCATION		vation: _			_ Watershed: _	Barbour	Mey Kiver	
		trict:	Cov		_ County:		Quadrangle:	Ponnott
6) WELL OPE				nergy Co			DAGENT Tim	Box 2201
Address	-			Box 2201 burg, WV		Address		ksburg, WV 263
					20301		to the second second second second	ksburg, wv 205
8) OIL & GAS				TED		9) DRILLING C	ONTRACTOR:	
				Terrane	Apt. 24	Name	_	
Address			V 26		, Apo. 24	Address	U	THE FIRM
			Part of the later					M Baan A
10) PROPOSEI) WELL V	VORK:					/ Stimulate_X	
					Perfor			MAY 7 - 1984
U) CEOLOGI	CAL TAR	CET EOD			n well (specify) rty			
				595				OIL & GAS DIVISI
					feet; salt		feet T	DEPT. OF MIN
							e area? Yes	
(5) CASING A						ar being inned in th	carca: 1cs	/ 110
CASING OR	l logi.		CIFICATIONS	,	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor 1	1 3/4	Grade	per it.	X	30'	Left in wen	Circulate	Kinds
Fresh water	1 37				50		- OII CUIUC	Kilius
Coal								Sizes
Intermediate	8 5/8			X	1400	1400	To Surface	10
Production	43			X	5950	5950	As Require	
Tubing	12				R USE ONLY	brito	by rule	15:01
Liners							1	Perforations:
		igaltas	tani ana	enting vec is	re aggregation is	dates of certain	odt krasen ist grae	Top Bottom
	4.5							
(2)	nief]					ote		
			- 6	Miniman in a	as wallad			2 havinger no confere
					OFFICE USE			
					DRILLING PE	RMIT		
Permit number	47-0	01-205	50				May 8,	19 84
erinit number							Dat	MARKET STATE OF THE STATE OF TH
his permit cover	ing the we	ell operato	or and well	location shown	below is evidence	of permission grant		ce with the pertinent legal re-
								and Gas Inspector, (Refer to
					any permitted work work has commence		vell operator or his con	tractor shall notify the prope
he permitted wo	rk is as de	scribed in	the Notice	and Application	on, plat, and reclam	ation plan, subject	to any modifications a	nd conditions specified on the
	May	8, 198	36		unless well	work is commence	d prior to that date and	prosecuted with due diligence
everse hereof.					anness won	WOLK IS COMMISSION	a prior to that date and	THER THIS PECTIONS
everse hereof.				And the second s				
everse hereof. Permit expires		V.		6 .	_			
Permit expires	Agent	F	Plat:	Casing	Fee			
reverse hereof. Permit expires	Agent	1 h	plat:	Casing 4	795	\sim	1	thomas and the same of the sam
Permit expires	Agent	1 h	nh)	Casing 4	795	Narga	eret 1 x	besse.





OFFICE		

DEDICATION OF THE PROPERTY OF	DIFICATIONS	AND CONDITION	G (IE ANIX	V TO T		ODOGED		
PERMIT MO	DIFICATIONS	AND CONDITION	Undergro) 10 1	HE PK	OPOSED	WELL WO	ORK ALIW (
	14/31 /3/D		Watershe Countyes		9.7	00) LOCATION:
, Betinett	AGENT ALL	DESIGNATED						WELL OPERA
Lighting, WV 2030	.0.2	Address	rnsas			.00.22		Address
4044 4 10 20 20 4	NTRACTUR	9) DRILLING CO			geral Geral		gor Dayay	OR & GAS D
						VOSTE		Name _v2
'EWALLE OF THE			S.J.J.B.		101 6			0 7 8851 55 A A
3 VUENUM	1 Simulate	linhest \						
WHI - T VALL COL		erforate new formation						
Stemma ava								
OIL & CAS DIVISIO) GEOLOGICAL 12) Estimated
DEPT. OF MINI			(cat					13). Approxim
	NO COME DE LA PROPERTIE DE					REPORTED TO		OASHVO AND
	CU NACKN CLuffic feet)	allow of the T		Hell	wels			FUBRIC TYPE
	edituon 10		(301					
					1000			
NEAT			1400		X		leve	
esabled (1	OFFICE I	OGE ONLY		X.		- 4	3 4 annoubb
Perturations:	217.5 60	OFFICE U	SE UNLY					gcirk ersn
This part of Form IV-2(b) is to record the	e dates of certain oc	currences a	nd any	follow-	up inspecti	ons.	
		Data					D	-4-(-)
		Date			1		D	ate(s)
Application received			Follow-up	inspec	ction(s)			
W-11		SE OMBY	JALL,, INC		,,			
Well work started								
Completion of the drilling	g							
process neluting off division		nce of permission grane						
		work. In addition, the wo	tention,, you		,,			
								thict oil and gas it
Reclamation completed			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,			
I prosecuted with the difference.								renigze tinit
OTHER INSPECTIONS						Blatte	Agent	Bonde
Reason:					1	(Kerl		T3MMAIR
Barrer MAN	to the	Physian		1	411	THILL	2 1 2 2 2	7700
Reason:	historical Office of (lants.		Sec. 1				

see the reverse side of the APPEICANT'S COPY for instructions to the well aperator.

State of

WV

May	3

2) Operator's Well No. F. Felton #1

3) API Well No. 47 - 001-2050 State County Permit

84

STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

	NOTICE OF APPLICATION F	OR A WELL WORK PERMIT
4) SUI	RFACE OWNER(S) OF RECORD TO BE SERVED	5(i) COAL OPERATOR N/A
(i)	Name Hubert Nestor	Address
(-/	Address Rt. 1	
	Moatsville, W.V 26405	5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
(ii)	Name	NameN/A
	Address	Address
		Name
(iii)	NameAddress	Address
	Address	
		5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
		NameN/A
		Address
	TO THE PERSON(S) NAMED ABOVE: You should ha	we received this Form and the following documents:
		mit on Form IV-2(B) (or Form IV-4 if the well is
		parties involved in the drilling or other work, ation and, if applicable, the proposed casing an analysis (PITT)
	cementing program; (2) The plat (surveyor's map) showing t	the well location on Form IV-6; and
	(3) The Construction and Reclamation Pl	an on Form IV-9)unless the well work is only to
	reclamation for the site and access	an for erosion and sediment control and for MAY 7 - 1934
		IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION
	(FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU.	N THE REVERSE SIDE OF THE COPY OF THE APPLICATION OIL & GAS DIVISION HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY
	ACTION AT ALL.	DEPT. OF MINES
		e West Virginia Code, the undersigned well op- tice and Application and accompanying documents
	for a Well Work Permit with the Administrato	r of the Office of Oil and Gas, West Virginia
		at the location described on attached Application of this Notice, the Application, the plat, and the
	Construction and Reclamation Plan have been by hand to the person(s) named above (or by	mailed by registered or certified mail or delivered
	before the day of mailing or delivery to the	
	6) EXTRACTION RIGHTS	
	Check and provide one of the following:	
	I hold the right to extract oil or o	er continuing contract or contracts by which
	XIX The requirement of Code 22-4-1-(c)(1)	through (4). (See reverse side for specifics.)
	7) ROYALTY PROVISIONS	
	or other contract or contracts providing f	t the oil or gas based upon a lease or leases for flat well royalty or any similar provision
	for compensation to the owner of the oil or to the volume of oil or gas so extracted,	gas in place which is not inherently related
	you may use Affidavit Form IV-60.	y additional is needed. If the answer is Yes,
	See the rewerse side for line item in	permetions and for insuranian according
	the required copies of the Notice and	structions, and for instructions concerning Application, plat, and Construction and
	Reclamation Plan.	
	truth of the information on the	WELL
	ce and Application is verified	OPERATOR SWIFT ENERGY COMPANY
	sworn to and the Notice is and on behalf of the Well Operator	By Tin Benery
-	County and State by	Its Designated Agent
	Tim Bennett	Address P. O. Box 2201
	3 day of May , 19 84.	Clarksburg, WV 26301
My	commission expires $6-15$, 1989 .	Telephone 622-7701
	Diane & Sugar	
No	etary Public, Harrisgh County,	
The state of the s		

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-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests
 - 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
 - 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 (1) 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 § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-12a, 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 cwner(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-

- (1) 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
- (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

Grantor, 1	essor, etc.	Grantee, less	See eta	
F. Felton,	et alr	CGSC	ecc, ecc.	$\frac{\text{Royalty}}{1/8} \frac{\text{Book Page}}{49/310}$
CGSÇ		Swift Energy	Co.	Farmout Agreement dated 3/1/84
				copy to be sent?

COAL OWNER'S COPY



1)	Date:	iay	3	_, 194
2)	Operator's Well No.	F	Felton 41	
3)	API Well No	47	001	Superior to
		State	County	Permit

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

4) WELL T	YPE: A	Oil	/ Gas	<u> </u>				
			, Production		_/ Underground	storage	/ Deep	_/ Shallow/)
5) LOCATION	ON: El	evation:	1641	SECTION OF THE PARTY OF THE PAR	_ Watershed: _	1 ygart Y	ally Sper	
	D	istrict:	COV		County:	Barbour	Quadrangle:	
6) WELL O	PERATOR	S		nergy Co		7) DESIGNATE	D'AUENI	Bennett
Addres	ss		P. O.	Box 2201		Address	P.O.	Box 2201
			Clarks	burg, WY	26301		Clar	ksburg, WV 203
8) OIL & G				IED		9) DRILLING C	ONTRACTOR:	
Name	STATE OF THE PARTY	lip T	CONTRACTOR OF THE PARTY OF THE	100	1 - 6 OH	Name		
Addres	The state of the s	ins.		241	Apt. 24	Address		Inknown
10) PROPOS	ED WELL	WORK:	Drill_X	/ Drill	deeper	/ Redrill	/ Stimulate	1 1
						ate new formation		
			Other ph	ysical change in	well (specify)			
11) GEOLOG	ICAL TAR	GET FOI		Have				
12) Estim	ated depth	of comple	ted well, _	505	feet			
						1950	feet	
							e area? Yes	/ No Y /
15) CASING							105	
CASING OR		SPE	CIFICATIONS	- 11	FOOTAGE II	NTERVALS	CEMENT FILL-UP	DACVEDS
TUBING TYPE	Size	Grade	Weight per ft.	New Used	For drilling	Left in well	OR SACKS	PACKERS
Conductor	1 3/	- Crauc	per it.	X	301	Left in weil	(Cubic feet)	
Fresh water	1 31				30		NTI GRIBAGO	Kinds
Coal								
Intermediate	8 5 /	0		v	1400	1400	m - 0 0	Sizes
	0 3/			A V	5950		To Surface	NEAL
Production	무술			X	2770	5950	As Require	Depths set
Tubing							Dy rule	13.01
Liners								Perforations:
								Top Bottom
			INST	RUCTIONS TO	COAL OPERATO	OR, OWNER, OR	LESSEE	
	Th							
	I ne i	named coa	o by Code 82	coal owner(s), an	d coal lessee are he	ereby notified that a	any objection they wish	to make or
	of this Ar	polication	by the Depa	rtment	ed with the Depart	ment of Mines with	in fifteen (15) days afte	r the receipt
			o, me Bepa					
		The follo	wing waiver	must be complet	ted by the coal ope	erator and by any c	oal owner or coal lesse	ee
		who has i	recorded a de	eclaration under	Code §22-4-20, if	the permit is to be is	ssued within fifteen (15	5)
		days of th	ne filing of the	he Application.				
					WAIVER			
T1 1 1								
The undersign			If a mina ma	/ owner		_/ lessee	of the co	al under this well location has
undersigned has	no objectio	n to the v	vork propose	ap exists which c	his location provi	he well location, the	e well location has been	added to the mine map. The
the West Virgini	a Code and	the gove	rning regulat	tions.	ms location, provi	ued, the well operat	for has complied with a	all applicable requirements of
	1 /		~					
			m/ 1	15477	-			
			加山一	144		W/	1	110000000000000000000000000000000000000
Date:			, 19		By	, there is	netwy	Markey
								The state of the s

INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

My rute:

Well No. P. PELLON #	
2) Operator's Well No. F. Felton #1	

County

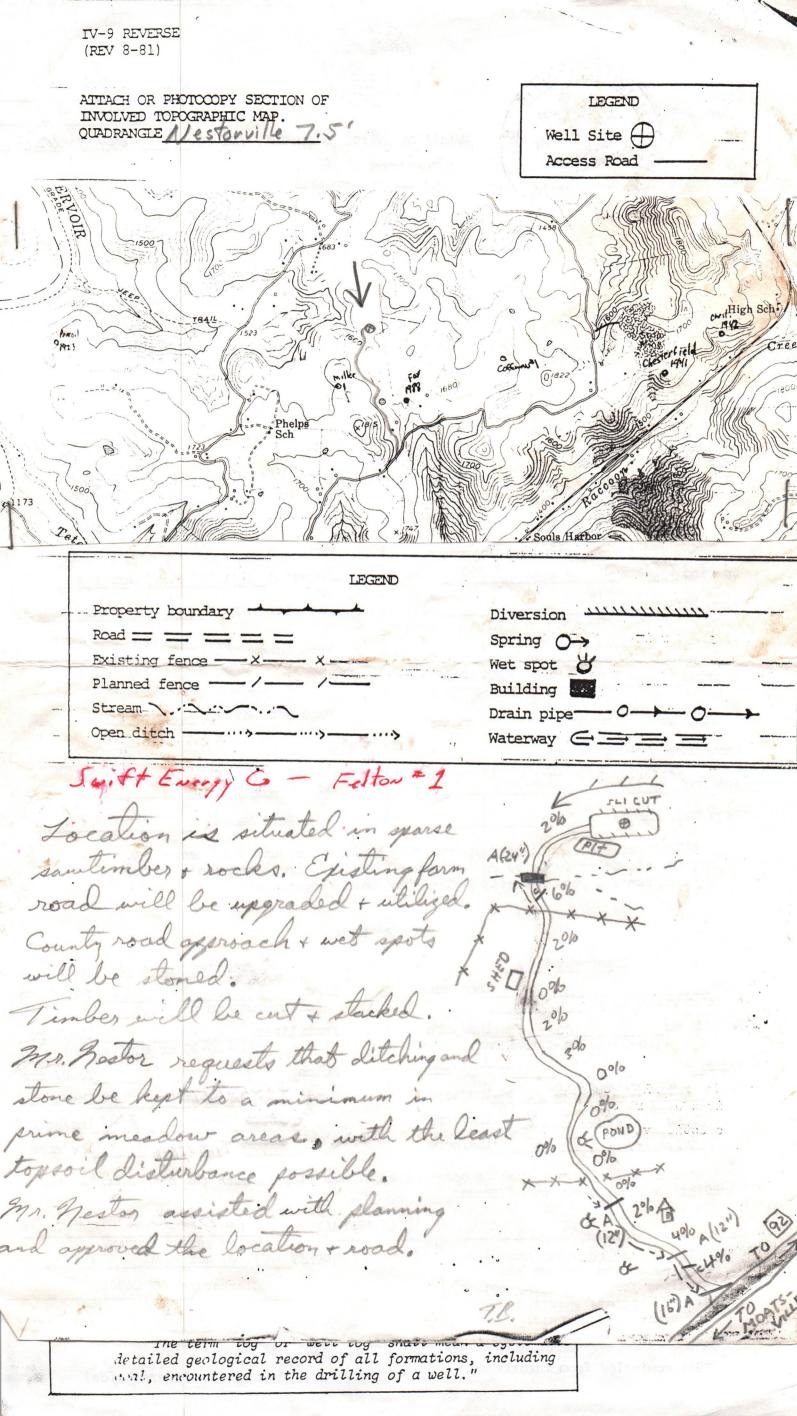
Permit

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

	PE: A Oi B (If	"Gas",	Production	n	χ΄	_/ Undergroun	d storage	/ Deep	_/ Shallow/)
5) LOCATION		ation: _	Cov	n		_ Watershed:	Barbour		
		rict:			ду Со.	County:		Quadrangle:	Bennett
6) WELL OPE			. 0.			•	7) DESIGNATE		OX 2201
Address			larks			26301	Address		sburg, WV 2630
					51 77	20301			modifi, at room
8) OIL & GAS	hilli	p Tra	асу			<u> </u>	9) DRILLING (Name	CONTRACTOR:	a de la companya de l
Address	orest Elkin		V 26	241	rrace	Apt. 24	Address	Ur	known
0) PROPOSEI	D WELL W	ORK:	Drill_X		_/ Drill	deeper	/ Redrill	/ Stimulate	/
							orate new formatio	n/	
						well (specify)			
1) GEOLOGIC	CAL TARC	ET FOR	MATION	,	Haver	ty			
12) Estima	ted depth of	complet	ed well,		5450	fe			
13) Approx	ximate trata	depths:	Fresh, _	2	0	feet; sa	alt, 1950	feet.	
14) Approx	ximate coal	seam dep	ths:	51	4	Is	coal being mined in th	ne area? Yes	/ No/
5) CASING A	ND TUBIN	G PROC	GRAM						
CASING OR	l .	SPEC	IFICATIONS	6	1	FOOTAG	E INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor 1	3/4			X		30'		Circulate	Kinds
resh water									
Coal					18. 15				Sizes
ntermediate	5/8			X		1400	1400	o Surface	
Production	4			X		5950	5950	s Required	Depths set
Tubing									
Liners									Perforations:
	,								Top Bottom
			7						
	per y								
	the filing of	the Appl	lication if t	he sur	face owner s copy of t	(s) of record sign(he Application.	wever, the permit can (s) the following "Vol	be issued in less than 1 luntary Statement of No	5 days from Objection''
on Form IV-6, and I further state	tice of App nd (4) a Con	lication for instruction	or a Well V	Work Pamatio	Permit on Fon Plan on	orm IV-2(A), (2) Form IV-9, all f	an Application for a or proposed well wo	Well Work Permit on F	rmit, and that I have received orm IV-2(B), (3) a survey plat as described therein. It being issued based on those
naterials.		n. partne	ership, etc.)		(Fo	or execution by natur	ral persons)	
	corporatio	, ,						1 0	
For execution by	1.						Hubet	Neston	Date: 5/8/8
For execution by	1.					<u>x</u>	Hubert	Mestor Signature)	Date: 5/9/8

Surface Owner

OIL & SAS SIVISION DEPT. OF MINES





IV-35 (Rev 8-81)



DEPT. OF MINES



State of Mest Wirginia

Department of Mines Gil und Gas Division

Date	August 31, 1984							
Operator Well No.		elton	No.	- vjn				
Farm	1374	-7108		nair				
API No.	47 _	001	-	2050				

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	Tygart Va	lley River		
District: Cove County Ba				lle 7.5 m
COMPANY Swift Energy Company	(A) (S)			
ADDRESS P.O. Box 2201, Clarksburg, WV 26301 DESIGNATED AGENT Tim Bennett	Casing	Used in		Cement fill up
ADDRESS P.O. Box 2201, Clarksburg, WV 26301 SURFACE OWNER Hubert B. Nestor	Tubing Size 20-16	Drilling	In well	Cu. ft.
ADDRESS Rt. 1, Moatsville, WV 26405	Cond.			art A em
MINERAL RIGHTS OWNER Same	9 5/8	in the first		
ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Phillip	8 5/8		970'	260 sx
rest. Fest #24 ADDRESS Elkins, WV 26241 PERMIT ISSUED 05-05-84	5 1/2			
DRILLING COMMENCED 05-25-84	4 1/2		5468'	560 sx
DRILLING COMPLETED 05-31-84	23/8"		5333'	2000
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			i
		Dep	th 5950) fee
				and the state of the state
Depth of completed well 5999' feet		The second secon	e Tools_	
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63' feet;	Salt	feet		
Depth of completed well 5999' feet	Salt	The second secon		
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA	Salt_ Is coal	feet being min	ed in the	
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA Producing formation Haverty/4th Elk	SaltIs coal	feet being min	ed in the	area?No
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d	SaltIs coalPay_Oil: Ini	feet being min zone dep	ed in the	area?No
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d	Salt Is coal Pay Oil: Ini Fir	feet being min zone dep tial open	ed in the th 5200 flow low	area?No fee Bbl/Bbl/
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init	Salt Is coal Pay Oil: Ini Fir	feet being min zone dep tial open hal open f	ed in the th 5200 flow low 4 ho	e area?No fee Bbl/Bbl/
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between initial static rock pressure 1225 psig(surfate)	Salt Is coal Oil: Ini Fir tial and fire measurements	feet being min zone dep tial open hal open f	ed in the th 5200 flow low 4 ho	e area?No fee Bbl/ Bbl/
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' DPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between initiation of the strategy of t	Salt Is coal Pay Oil: Ini Fir tial and fir ce measurem	feet being min zone dep tial open hal open f hal tests ment) afte	th 5200 flow low 4 hor	fee Bbl/ Bbl/ urs
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' OPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between initial static rock pressure 1225 psig(surfate)	Salt Is coal Pay Oil: Ini Fir tial and fir ce measurem	feet being min zone dep tial open hal open f hal tests ment) afte	th 5200 flow low 4 hor	fee Bbl/ Bbl/ urs
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' DPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between initiation of the strategy of t	Salt Is coal Is coal Oil: Ini Fir tial and fir ce measurem n) Itown Pay	feet being min zone dep tial open hal open f hal tests ment) afte	th 5200 flow low 4 hours 12 hours th 3720	fee Bbl/Bbl/ surs urs shut i
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' DPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between initiation of the strate of t	Salt Is coal Is coal Oil: Ini Fir tial and fir ce measurem n) Itown Pay	feet being min zone dep tial open hal open f hal tests ment) afte zone dep	th 5200 flow low 4 hour 12 hour th 3720 flow	fee Bbl/Bbl/
Depth of completed well 5999' feet Water strata depth: Fresh 16'; 63'feet; Coal seam depths: 60'-63' DPEN FLOW DATA Producing formation Haverty/4th Elk Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between initiation of the strate of t	SaltIs coal Is coal Oil: Ini Fir tial and fir ce measurem n) Itown Pay Oil: Ini Oil: Fir	feet being min zone dep tial open al open f nal tests ment) afte zone dep tial open dal open	th 5200 flow low 4 hour 12 hour th 3720 flow low	geraea?No fee Bbl/ Bbl/ surs shut i fee Bbl/ Bbl/

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION INSPECTOR'S WELL REPOREPT. OF MINES

ompany wef	& Energy	CASING AND TUBING	DRILLING	LEFT IN	PACKERS
ldress		Size			100000000000000000000000000000000000000
rm J. Fel	ton	16			Kind of Packer_
Il No.	CARREST CONTRACTOR CON	13	39.7	The State of the	e to the second
rict Corre	County Barbary	10		tion of the	Size of
ing commenced	County Servery	65%	Control of State Control	,	
ing completed		5 3/16	- (- 1, - 1, - 1, - 1, - 1, - 1, - 1, -	alank in the second of	Depth set
	Total depth	3		and the same that	Perf. top
	/10ths Water inInch	Liners Used		MINISTER MANAGEMENT	Perf. bottom
flow after tubing					Perf. bottom
ne	Cu. Ft.				7
pressure		NAME OF SERV	ICE COMPANS	SIZE	No. FT.
	bbls., 1st 24 hrs.				The second
vater	feetfeet	COAL WAS ENCO	UNTERED AT	FF	EETINCI
ter		FEET_	INCHES	F	EETINCH
	feetfeet	FEET_			EETINCH
Names					INCH

Laily Sough WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

3.1		5			3.5	II No	
OMPANY	1.8			ADDRESS			- Market Colored
ARM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DISTRICT_		COUNTY		
lling Material U	sed						
ner	Loca	tion	Amount	Packer	Location	The same	The state of the s
PLUG	S USED AN	D DEPTH PLACED		BRIDGES	CASIN	G AND T	UBING
CEMENT-THICKN	ESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
					ga sa	en river (C. 1)	10. 10.
	Appendix a						· · · · · · · · · · · · · · · · · · ·
					H 1832		rajeres ya
	See .						American Company
				and proceed to proceed the Residence		and the second	ent pati
			to the second of the second of		33		
the contract of the contract of	en programme de la programme d	es and the same of the same					
	* *						
		Y 17.55 % 8 %		Any investments and			1
enn W.							
llers' Names							
		- 1 8 4/1 / 20			The second secon	reduce complete	Laboratory of the
marks:		Marine of the contract of					
	an experience						
		hereby certify I					

Permit No. 601-2050

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

16_ 13_ 10_	ASING AND TUBING	USED IN DRILLING	LEFT IN WELL	Kind of Pac	kers cker
16_ 13_ 10_					lker
13_					:ker
10_					
ALL THE RESERVE THE PROPERTY OF THE PARTY OF				4-4-1	
nty Dashau 81				Size of	**************************************
The second of the second of	1/4	and the matrix of the said			A SECTION OF THE SECT
65	/8		next of the state of the state of	Depth set_	
	3/16				
3_			a se a sejera e a e 8° c e a sejera e e e e	Perf. top	
f shot 2_		pro 100 100 100 100 100 100 100 100 100 10		Perf. botton	n
Water inInch Lin	ers Used			Pert. top	p s v. w _ e
Merc in Inch				Perf. botton	n
hrs. NA	ME OF SERV	VICE COMPAI	NY	FEET	INCHES
feet	FEET_	INCHI	ES	FEET	
feet	FEET_	INCH	ES	FEET	INCHES
	# shot Lin	S water inInch Liners Used Water inInch CASING CEMEN NAME OF SERV Liners Used COAL WAS ENCORED FEET feet FEET feet FEET	Shot	Swater inInch Swater inInch Cu. Ft. CASING CEMENTEDSIZE hrs. NAME OF SERVICE COMPANY bbls., 1st 24 hrs. COAL WAS ENCOUNTERED AT feetFEETINCHES feetFEETINCHES	Shot

5-18-84 DATE Philip Diage
DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

PANIM TO INSPECTOR'S PLUGGING REPORT

COMPANY			-		ell No	
COMPANY						
FARM		DISTRICT		COUNTY		and the second
enadori.			No. 24	JOUNT!		1
Filling Material Used						
Liner Loc	Al -		and the second of the second	er and the second second	er order of the	was some st
	ation	Amount	Packer	Location		7
PLUGS USED AN	DEPTH PLACED		BRIDGES		NG AND T	
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	and the second second	1
				RECOVERED	SIZE	LOS
	A Company of the Comp			33 State of Booksell	the promise	Seal Come said of
	and on the specific			The same of the sa	4. 102.00	7715 414 9
			1	The state of the s		
	Bit gas to see sees to		The second participal			elections
and the second section of the sectio					-	
The second test of the second test of the				And the Control of th	ed the regulation	
			notice the second and the second	A STATE OF BRIDE		water did s
- Company Start						
Mill to a read to the series of the series o	of the state of th			, , , , , , , , , , , , ,		was in the second
Representation of Constant					A	A Section of the State of
	A 9 00 A25		Commence of the Commence of th	3.4		
EMAY KANDALIS THAT	. in the second					
	-					
llers' Names			and the second s			
71.00	2 1 1 1 V		EC	and the second	and the state of the	******
marks:		gland and Mark Fra	The state of the s		in the second section of	23 1000000000000000000000000000000000000
Manda State . Tes	ereby certify I visi					

DISTRICT WELL INSPECTOR





OIL & GAS DIVISION
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

COLL ANT	Switt Energy Company	PERMIT NO	001-2030
P. O.	Box 2201	FARM & WELL NO	Hubert Nestor
01 1		D.T.O.T.	Felton #1
Clarks	sburg, West Virginia 26301	DIST. & COUNTY	Cove/Barbour
RULE	DECORTOR	IN	COMPLIANCE
	DESCRIPTION	YES	NO
23.06	Notification Prior to Starting Work	.	
25.04	Prepared before Drilling to Prevent	Waste	
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	C	
25.01	Necessary Equipment to Prevent Wast	e v	- Control of the Cont
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution	•	
23.07	Requirements for Production & Gathe	ring Pipelines	
16.01	Well Records on Site	Lang repetitives	
16.02	Well Records Filed		
7.05	Identification Markings		
2			
I HAVE IN	NSPECTED THE ABOVE CAPTIONED WELL AN	D RECOMMEND THAT IT	BE RELEASED:
*		SIGNED Dans	IR Elle
1. 		,	
		DATE 4-1	- 82
Your well	record was received and reclamation	requirements anno	wed In accordance
with Char	oter 22, Article 4, Section 2, the al	Toyo wall will mamed	- under bend
coverage	for the life of the well.	Nove well will remai	in under bond
0	and the time well.		
		1-2-	1
		Administrator-Of	1 & Gas Division
		Administrator-O1	I d Gas Division
		Apri	1 17, 1985
		DATE	
		DHIL	

TMs/nw

Date 12-07	198
	100

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. 1

API Well No. 47 - 001 - 2050
State County Fermit

WELL CLASSIFICATION FORM

WELLS DRILLED MORE THAN 2.5 MILES FROM A MARKER WELL NGPA Section 102(c)(1)(B)(i) Category 2

	teritary 2
	DESIGNATED AGENT Tim Bennett
1	ADDRESS P.O. Box 2201
WELL OPERATOR Swift Energy Co.	Clarksburg, WV 26301
ADDRESS 652 E. North Belt, #200	LOCATION: Elevation 1644
Houston, TX 77060	Watershed Tygart Valley River
CAS PURCHASER Tennessee Gas Pipeline	Dist. Cove county Barbour and Nestonville
Steel Bldg 600 Grand	Gas Purchase Contract No. 1540
Pittsburgh, PA 15219	Chart Code
* * *	Date of Contract 09-06-84
* * * * *	* * *

List all records reasonably available to you which contain information relevant to a determination indicate the location of such records; B&O Tax Records and royalty payment records) and

Inquiry made to pipeline company to determine no pipeline was 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 $No_{-}XX$. If yes, identify such records and indicate their location, if known:

DEPARTMENT OF MINES, OIL AND GAS DIVISION

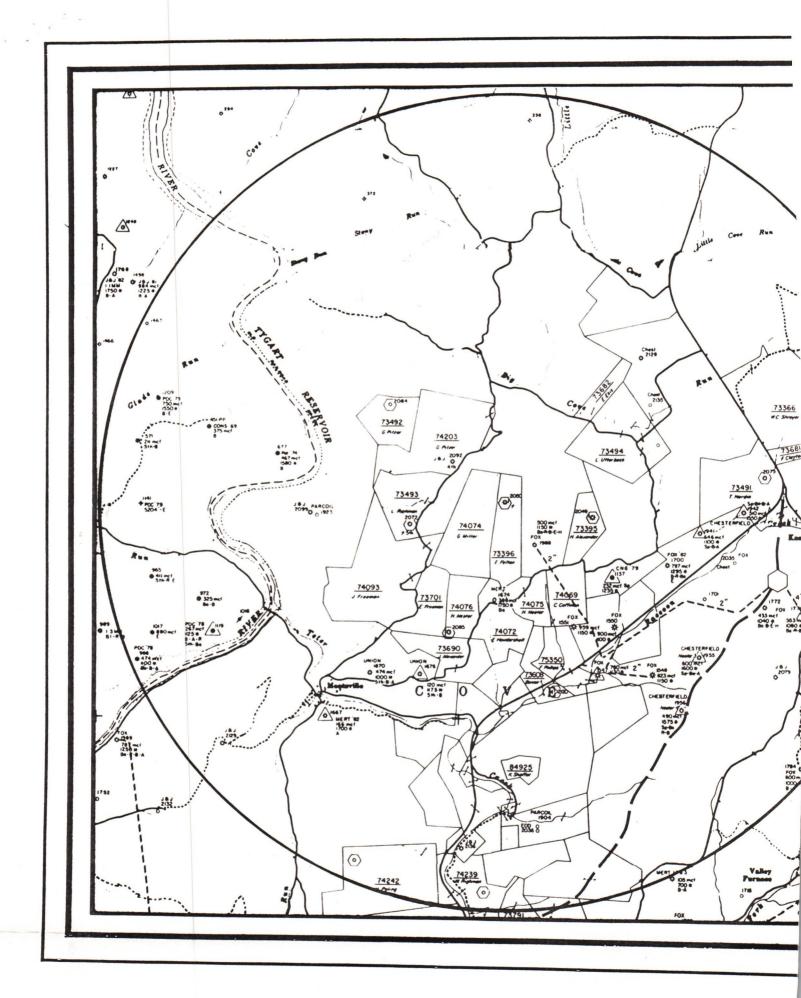
JAN 14 1985

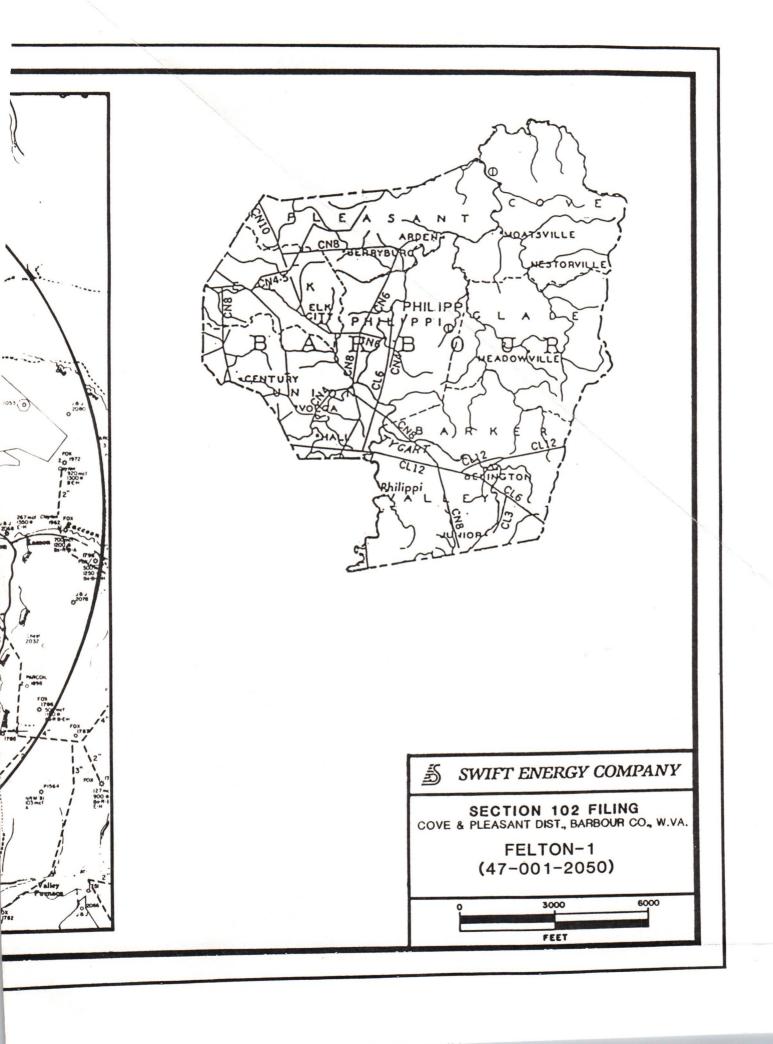
COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

12.07	AGENCY USE ONLY
Date: 12-07 ,19 84	WELL DETERMINATION FILE NUMBER
Applicant's Name: Swift Energy Co.	REEL DEFEIGHTON 1222 NOVE
Address: 652 E. North Belt, #200	841214 -102-001-2050
Houston, TX 77060	Use Above File Number on all
Gas Purchaser Contract No. <u>1540</u>	Communications Relating to This Well
Date of Contract 09 - 06 - 84 (Month, day and year)	
	Designated Agent: Tim Bennett
First Purchaser: Tennessee Gas Pipeline Co.	Address: P.O. Box 2201
Address: 5646 U.S. Steel Bldg., 600 Grant Street (Street or P.O. Box) Pittsburgh PA 15219	Clarksburg, WV 26301
Pittsburgh PA 15219 (City) (State) (Zip Code) FERC Seller Code 037373	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCER	NING THIS APPLICATION SHALL
BE ADDRESSED: Name: Virgil N. Swift	Executive V.P.
Signature: (Print)	(Title)
Address: 652 E. North Belt, #200	
(Street or P.O. Box)	77060
(City) (State)	(Zip Code)
Telephone: (713) 445-0844 (Area Code) (Phone	
(Certificate of Proof of Service to Purc	haser)
NGPA Catagory A	pplied For
NGPA SECTION/SUBSECTION	
102 New Natural Gas	108 Stripper Well Natural Gas
XX 102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test	108- Stripper Well 108-1 Seasonally Affected
102-4 New Onshore Reservoir	108-2 Enhanced Recovery 108-3 Temporary Pressure Build
103 New Onshore Production Well 103 New Onshore Production Well	
107 High Cost Natural Gas	AGENCY USE ONLY
107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine	
107-2 Coal Seams 107-3 Devonian Shale	
107-5 Production enhancement	
107-6 New Tight Formation 107-7 Recompletion Tight Formation	
DECEIVEN	QUALIFIED
MP PM	
DEC 1 4 1984	
OIL & GAS DIV. DEPT. OF MINES	

Date Received

Determination Date





U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

Form Approved OMB No. 1902-0038 (Expires 12-31-84.

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT INGPAI (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR. part 274.501 If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the crister in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New anshare well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	Now anshare reservoir
102	5	New reservoir on old OCS lease
103		New unshare production well
10;	0	Deep (more than 15,000 feet) high cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well — seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well temporary pressure buildug
108	4	Stripper well - protest procedure

tine	Contract Date (Mo. Da. Yr) (a)	Purchaser	Buyer Code
1	09-06-84	161	(c;
-	05-00-84	Tennessee Gas Pipeline Co.	
2	and the second	5646 U.S. Steel Bldg.	
3		600 Grant Street	
1		Pittsburgh, PA 15219	Landa Company
5		TICCSDUIGH, PA 13219	96.36 96.46 9.360
6		And the property of the second	Application of the second second

Remarks:

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

1.0 API will number	ī				
(If not assigned, leave blank, 14 digits.)	i	_47 -	001 - 2050	-	
2.0 Type of chiermination being sought:			Fath Bank to Make	MEGE	
(Use the codes found on the front	1		107	D) 5(C(2))	WED
of this form i	1	Sect	ion of NGPA	alegory Cont	H LE IIII
3.0 Depth of the deepest completion	1			B	3/01
location. (Only needed if sections 103	1		5392	feet DEC 1 41	08/
o: 107 in 20 above.1		and the second second	the second second		
4.0 Name, address and code number of				OIL & GAS	DIV.037373
anolicant 135 iziters per line		Ift Energy Co.		DEPT. OF N	101V.03/3/3
maximum. If code number not	Name			- III. OF N	IINESetter Code
available lea in blank)		2 E. North Bel	t, Suite 200		
	Street		See Liser 1 Proc	77060	
		uston	<u>TX</u>		
50 Location of this neil (Complete (a)	City		State	Zip Code	1.30
or (b)	CO	ve District			
(a) For onshore wells	Field N				
(35 letters maximum for field	1	rbour	W	N	
no ne i	County		State		
(b) For OCS wells	1		314(6	Janes and the state of	
Language and the second	1				
	Arga Ni	rme		Block Numb	er .
	1				
	i	Dete	of Lease		
	i	LLL			
	1	Mo.	Day Yr.	OCS Lease Number	
Ici Name and identification number					
of this well. (35 letters and :figits	Fe.	lton No. 1			
(d) If corke 4 or 5 in 2.0 above, name					
of the reservoir. (35 letters					
maximum)	i —				
6.0 (a) Name and code number of the	1				
Purchaser (35 letters and digits	1				
maximum. If code number not	Te	nnessee Gas Pi	peline Co.		
availabin, leave blank.)	Name		_		0
(5) Date of the contract:					Buyer Cod-
	1		1019101618	3 , 4,	
the state of the s	i		Mo. Day	Yr.	
(c) Estimated total annual production		and the second s			5,1
from the well		A STATE OF	25	Million Cubic	. Feet
	<u> </u>		The company of the contract of	A CONTRACTOR OF THE PARTY OF TH	
	!	ato esta		(c) All Other	(d) Total of (a)
me to the second of the second of		(a) Base Price	(h) Tax	Prices (Indicate	(b) and (c)
.0 Contrar: price:	-			(+) or (-).	
(As of filing date. Complete to 3	i	- 000	0 47 0	10 4 7 2	5 9 0 2
decimal places.)	I S/MMBTU	5 9 0 2	-0.472	+ 0 4 7 2	5 9 0 2
.0 Maximum fawfut rate:					
(As of filing date Complete to 3	S/MMBTU	-/0 0 0	0 47 0	1 0 4 7 2	E 0 0 2
decimal places.)	I	5/.9 .0 2	<u>-0.472</u>	+ 0 .4 7 2	5 9 0 2
O Person responsible for this application:	1	1/ 1	1		
- Population.	Viro	N. Swift	\times /	Executiv	ve V.P.
Amincy Use Only	Name	1.1/1/	/ \/	Title	
ein Received by Juris, Agency	! /	way N	m	~ "	
DEC 1 4 1984	Signature				
ite Received by FERC		7-84		713/445-08	344
	Date Ap	olication is Completed		Phone Number	
ERC-121 (8.82)	4				

DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE 12-07-84

OPERATOR'S

WELL NO. Felton No. 1

API WELL NO.
47 - 001 - 2050
STATE COUNTY PERMIT

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, Suite 200	ADDRESS P.O. Box 2201
Houston, TX 77060	Clarksburg, WV 26301
GAS PURCHASER Tennessee Gas Pipeline Co.	LOCATION Elevation 1644'
ADDRESS 5646 U.S. Steel Bldg., 600 Grant St.	Watershed_Tygart Valley River Dist Cove County Barbour Quad Nest
Pittsburgh, PA 15219	Dist.Cove County Barbour Quad Nest Gas Purchase ville 7.5
Date of Contract 09-06-84	Contract No. 1540
Date Surface Drilling Began: 5-25-84	Meter Chart Code
* * * *	* * *
Indicate the bottom hole pressure of the well	
$BHP = P_1 + P_1 (e^{t})$	(GL/53.34T) -1)
G = .7 L = 5392' $T = 585^{\circ}R$ $P_{1} = 1240 \text{ psia}$	BHP = 1399 psia
AFFIDAY	VIT
I, Virgil N. Swift , having been first swe calculated the percentage of footage of the percentage as indicated by a Gamma Ray index of le 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 Devonian age interval; and I have no knowled application which is constistant with a concast natural gas well.	producing interval which is not Devonian ess than 0.7 if Gamma Ray log described in filed, or as indicated by report in subtite the percentage of potentially disless than five(5) percent of the gross dge of any information not described in the lusion that the well qualifies as a high-
STATE OF WEST VIRGINIA TEXAS	
COUNTY OF HARRIS, TO-WIT:	
	blic in and for the state and county aforesa
	whose name is signed to writing above, beari
date the 7th day of 2000 mbos,	19, 34, has acknowledged the same before me
in my county aforesaid.	
Given under my hand and official seal this $\frac{\ell}{2}$	th day of <u>Recomber</u> , 19,84.
Given under my hand and official seal this My term of office expires on the My day of	August , 19,88.
	JES NUTA
	NOTARY PUBLIC

(Notarial Seal)

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

Derator: Sw	rift Energy Co.	Agent:Tim_Bennett	
	nation being sought - 107	(Devonian Shale)	
	: 47-001-2050	Well Name: Felton N	Vo. 1
	a Office of Oil and Gas	County: Barbour	
References:	SJA File No.		
Vol	Page Line		
I. NOTE:	A Gamma Ray Log has been Line, (b) a line represe (c) intervals with Gamma Base Line) and that log	a Ray units less the	an $0.7 \times (Shale)$
II. Gamma	Ray elevation indices:		
	A. Shale Base Line (AP		
	 GR Value at Bas Remarks: 	e Line = <u>155</u> * A	PI Units
	B. Gamma Ray Log Value		Base Line
	1. GR Value = 15 2. Calculation:	5 * API Units 0.7 (GR Value at Bas 0.7 (<u>155</u> *) = <u>108.</u>	se Line) 5 API Units
III. Inter	vals with GR index less	than 0.7 x (Value a	t Base Line):
	Interval of	Foot	of less than* Shale Base Line Feet
From		4186	190
1792	5978	1100	
	Total Devonian Interval _	4186	
	s Than 0.7 (Shale Base)		190
Total Les	an 0.7 (Shale Base Line)	= 190 x 100 = 4	.5 %
Less in	an 0.7 (o	4186	
			•

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this Column

**Lesser of TD or Bottom of Devonian Section Recorded as last Inter
in this Column.

FORM IV-48WC (02-84)

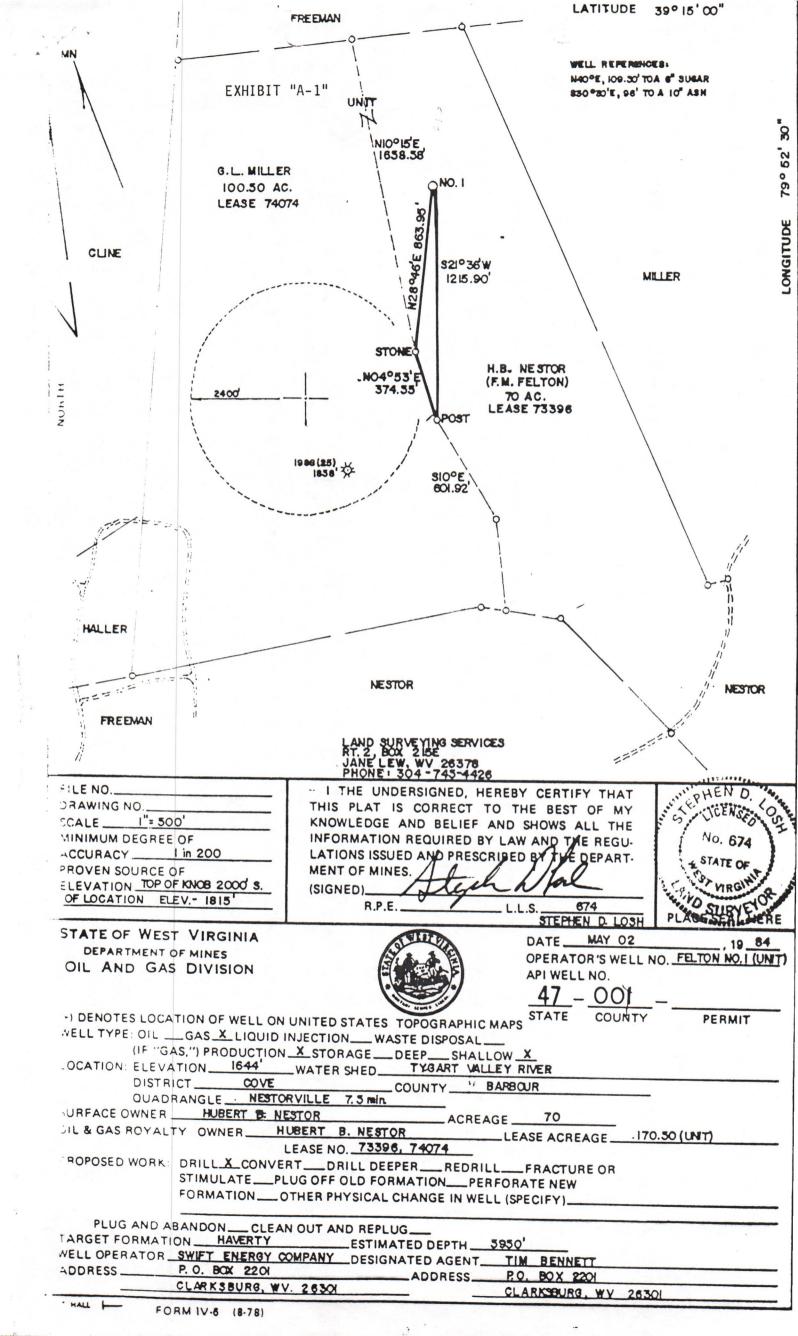
STATE OF WEST VIRGINIA

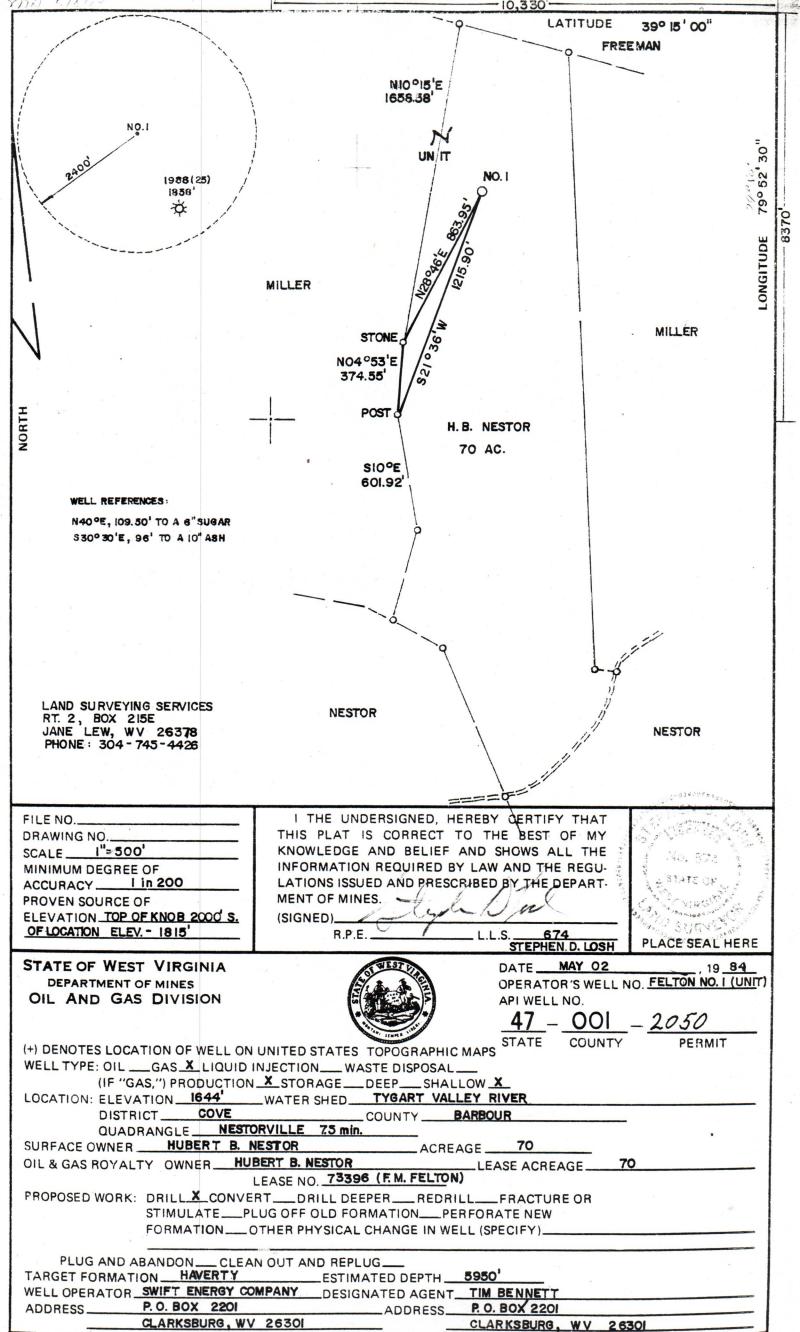
DEPARTMENT OF MINES, OIL AND GAS DIVISION

JAN 14 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: 12-07 ,19 84	AGENCY USE ONLY DEV.
Applicant's Name: Swift Energy Co.	WELL DETERMINATION FILE NUMBER
Address: 652 E. North Belt, #200	
Houston, TX 77060	841214 -107-001 - 2050
Gas Purchaser Contract No. 1540	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 Co.	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 CONCERNING	NG THIS APPLICATION SHALL
Name: Virgil N. Swift /	Executive V.P.
Signature: (Print)	(Title)
Address: 652 E. North Belt, #200	
(Street or P.O. Box) Houston TX (City) (State) Telephone: (713) 445-0844 (Area Code) (Phone Nu	77060 (Zip Code)
(Certificate of Proof of Service to Purchas	ser)
NGPA Catagory Appl	ied For
NGPA SECTION/SUBSECTION	
102 New Natural Gas 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	AGENCY USE ONLY
107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine 107-2 Coal Seams X 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation DEC 1 4 1984 DEC 1 4 1984	QUALIFIED
OIL & GAS DIV.	
DEPT. OF MINES	





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

Haverty - 5361-5391', 20,000 SCF N₂, 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 465 BGW.

4th Elk - 5019-5028', 20,000 SCF N₂, 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 468 BGW.

Alexander - 4350-4374', 20,000 SCF N₂, 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 457 BGW.

Balltown - 3070-3080', 100,000# 20-40 SD.

OIL & GAS DIVISION

DEPT. OF MINES

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale Coal Shale Little Lime Shale Sandstone & Shale Bayard Sandstone & Shale 3rd Elk Sandstone & Shale	0 60 63 1360 1378 1411 2712 2803 4842 4937	60 63 1360 1378 1411 2712 2803 4842 4937 5999 T.D.	Wet at 16' Wet at 63' - 1" stream Gas test at 3076' - 440 MCF Gas test at 3639' - 381 MCF Gas test at 4178' - 270 MCF Gas test at 5999' - 270 MCF
0.00		11740	
	18/6		
	Led Lacon		

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY James M. Kitterman, V.P.-Drlg. & Prod. 1984 August 31

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."

IV-35 (Rev 8-81)

DI	FC	E	ועון	P	0
17.	EC OCT	2	100	4	

OIL & GAS DIVISION
DEPT. OF MINES

A DE	M TON	STVIA	
STAT	AND THE	9	B
1	E		A STANK
	STATE II	MAIN TO THE PARTY OF THE PARTY	

State of West Virginia

Bepartment of Mines Gil und Gas Bivision

Date	August 31, 1984	
Operator Well No.	's Felton No. 1	1
Farm	'AVCE-TION - Name	
API No.	47 _ 001 _ 20	50

WELL OPERATOR'S REPORT

			01			
DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

이 그 그는 그렇게 되었다면 되었다면 그렇게 취실하다는 물에서 가장하다는 그들은 사람이 그 사람이 되었다면 하는데 가장에 보고 있다면 하는데 되었다면 하고 있다.	. Tygui c va	lley River	TO THE REAL PROPERTY.	i dalah i
District: Cove County B	arbour	Quadrangle	<u>Nestorvi</u>	ille 7.5 mi
MPANY Swift Energy Company				
DDRESS P.O. Box 2201, Clarksburg, WV 26301 ESIGNATED AGENT Tim Bennett	Casing	Used in Drilling		Cement fill up Cu. ft.
DDRESS P.O. Box 2201, Clarksburg, WV 26301	Tubing	Dilling	III WEIT	Cu. It.
RFACE OWNER Hubert B. Nestor	20-16 Cond.	24	. 10	land i suo.
DDRESS Rt. 1, Moatsville, WV 26405	13-10"			IFAIC B SHA
NERAL RIGHTS OWNER Same	9 5/8			
DDRESS	8 5/8		970'	260 sx
L AND GAS INSPECTOR FOR THIS WORK Phillip	Tracy 7			
st. Fest #24 ADDRESS Elkins, WV 26241	5 1/2			
ERMIT ISSUED 05-05-84	4 1/2		5468'	560 sx
RILLING COMMENCED 05-25-84	3			/
RILLING COMPLETED 05-31-84	23/8"		5333'	
F APPLICABLE: PLUGGING OF DRY HOLE ON ONTINUOUS PROGRESSION FROM DRILLING OR EWORKING. VERBAL PERMISSION OBTAINED	Liners used			
EOLOGICAL TARGET FORMATION Haverty		Dep	th 595	0 fee
Depth of completed well 5999' feet	Rotary X	X_/ Cabl	e Tools_	
Water strata depth: Fresh 16'; 63'feet;	Salt	feet		
Coal seam depths: 60'-63'	Is coal	being min	ed in the	e area?No
PEN FLOW DATA				
	k Pas	zone dep	th 520	0 fee
Producing Tornation Haverty/Ath Fi				
Producing formation Haverty/4th El Gas: Initial open flow Mcf/d	Oil: In			
Gas: Initial open flowMcf/d		nal open f	low	BDT/
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d	Fi		. 50	
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init	Finitial and f	inal tests	4 h	ours
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init Static rock pressure 1225 psig(surfate)	Finitial and finance measures	inal tests	4 h	ours
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init Static rock pressure 1225 psig(surface) (If applicable due to multiple completion	Finitial and finace measures	inal tests ment) afte	4 ho	ours urs shut i
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init Static rock pressure 1225 psig(surface) (If applicable due to multiple completion Second producing formation Alexander/Ba	Finitial and finace measurements on) lltown Par	inal tests ment) afte y zone der	2 4 horat 12 horath 3720	ours urs shut i
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init Static rock pressure 1225 psig(surfate) (If applicable due to multiple completion Second producing formation Alexander/Ba Gas: Initial open flow Mcf/d	Finitial and finace measures on) lltown Pay Oil: In	inal tests ment) afte y zone dep itial oper	4 horized 12 horized 12 horized 12 horized 14 horized 15 horized 1	ours urs shut i fee
Gas: Initial open flow Mcf/d Final open flow 1905* Mcf/d Time of open flow between init Static rock pressure 1225 psig(surface) (If applicable due to multiple completion Second producing formation Alexander/Ba	Finitial and finace measures on) lltown Par Oil: In Oil: Fi	ment) after y zone dep itial oper	ath 3720 aflow	ours urs shut i fee



Felton-1 (2050)

SWIFT ENERGY COMPANY

SECTION 102, WEST VIRGINIA DEEPEST COMPLETION LOCATION / MARKER WELLS

0339	DATE /GT V	Dry & Abandoned	/
372	Wel		
451:PP	68'	Bry 1 Abandoned	
571.R	777	5th, B. Sp	1 4225'
677	174.	B	1 4274
	128	5th R.E.Ba	1 4369'
	178	Ba. B	1 <
		BaBA	14862'
	178	BRE	/ 4815'
		Plugged Abando	./
1119	'79	BAR	1 4802'
1137	179	50	1 5239'
) //4/	179	Dry & Abandoped	
1209	179	B.R	14200'
1547	181	Ba, B, E	15472
	181	Ba, B. E	15410'
		5th By Sp. Ba.B	RH 5511'
15.51	181	Bo, R, B	15676'
	182	A	15185'
1674	182	BE	15709'
1676	182	5th, B	15531'
1700	182	B, R, Ba, E	15751
177/	182	Ba, R, B, E	15724"
1772	18.3	B9, B, E	15739'
1784	83	B, R, E	15753'
1786	'84	Bo, R, B, E	15862
	23	Ba, B, E,	15710'
1870	183	5th, B, E	1 5530'
1941	183	5p, B, A	145051
1942	183	5p, Ba, A, B	14400'
1955	23	5p, Ba, A	14503
19.56	18.3	Sp. Ba, R, B	14550'
1962	183	Ba, R, B, A	15625
1972	184	B, E	15995
1988	83	Bo, R, B, E	15692'
2092		4/+1/	
4.7			
			SANDS
		A - Alexa	nder Ba - Balltown
		E - E1k	B.I Big In
	965 972 988 1017 1018 1119 1137 1141 1209 1547 1548 1550 1551 1667 1674 1676 1700 1771 1772 1784 1786 1796 1820 1941 1942 1955 1956 1962 1988	965 '78 972 '78 988 '78 1017 '78 1018 '79 1137 '79 1141 '79 1209 '79 1547 '81 1548 '81 1550 '81 1551 '81 1667 '82 1674 '82 1674 '82 1700 '82 1771 '82 1771 '82 1771 '83 1784 '83 1784 '83 1786 '84 1796 '83 1941 '83 1941 '83 1941 '83 1941 '83 1942 '83 1955 '83 1962 '83 1962 '83 1972 '84	965 178 5th, R, E, Bo 972 178 Ba, B 988 178 Ba, B 1017 178 B, R, E 1018 Plugged 1 Abando 1119 179 B, A, R 1137 179 Sp 1141 179 Dry & Abandoped 1209 179 B, R 1547 181 Ba, B, E 1550 81 5th, By, Sp, Ba, B, 1551 181 Ba, R, B 1667 182 B, E 1607 182 B, R 1607 182 B, R 1700 182 B, R, Ba, E 1711 182 Ba, B, E 1711 182 Ba, B, E 1711 182 Ba, B, E 1716 184 183 B, R, E 1718 184 183 B, R, E 1718 184 183 B, R, E 1718 184 183 B, R, B 1718 184 183 B, R, B 172 183 Ba, B, E 1736 184 183 Sp, Ba, A 1841 183 Sp, Ba, A 1842 183 Sp, Ba, A 1842 183 Sp, Ba, A 1842 183 Sp, Ba, R, B 1942 183 Sp, Ba, R, B 1944 B, E 1988 183 Ba, R, B, E 1988 183 Ba, R, B, E