

RECEIVED

MAY 31 1984



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, OIL AND GAS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1549' Watershed: Tygart Valley River (M-27)
 District: Cove County: Barbour Quadrangle: Nestorville
 6) WELL OPERATOR Swift Energy Co. 7) DESIGNATED AGENT Tim Bennett
 Address P. O. Box 2201 Address P. O. Box 2201
Clarksburg, WV 26301 Clarksburg, WV 26301
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phil Tracey Name Unknown
 Address Forest Festival Apts. Address _____
Elkins, WV 26451
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Haverty
 12) Estimated depth of completed well, 5950 feet
 13) Approximate trata depths: Fresh, 50-675 feet; salt, 1075 feet.
 14) Approximate coal seam depths: 215; 365; 475 Is coal being mined in the area? Yes / No /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4			X		30		Circulate	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8			X		1000	1000	To Surface	<u>Neat</u>
Production	4 1/2			X		5450	5450	As Req. by	Replaces <u>15.01</u>
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-001-2072

May 31, 19 84
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires May 31, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat:	Casing	Fee
<u>Blanket</u>	<u>MW</u>	<u>MW</u>	<u>MH</u>	<u>1022</u>

[Signature]
Administrator, Office of Oil and Gas

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

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

File

1) Date: May 30, 1981
 2) Operator's Well No. 47 - 001 - 207
 3) API Well No. 47 - 001 - 207
 State: West Virginia
 County: Boone
 Permit: Reverse



FILE COPY
 FORM IV-2(B)
 (Reverse)

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: District: Boone County: West Virginia
 Elevation: 1540
 Well: 47-001-207
 2) WELL OPERATOR: Swift Energy Co.
 Address: P.O. Box 2201, Clarksville, WV 26031
 3) DESIGNATED AGENT: [Name], Address: [Address]
 4) DRILLING CONTRACTOR: [Name], Address: [Address]
 5) PROPOSED WELL WORK: Drill & [] Plug off old formation / Perform new formation / Other physical change in well (specify): []
 6) GEOLOGICAL TARGET FORMATION: []
 7) Estimated depth of completed well: [] feet
 8) Approximate true depth: [] feet
 9) Approximate coal seam depths: [] feet
 10) CASING AND TUBING PROGRAM: []

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: _____
 Reason: _____

Boone	Agent	Plate	Casing	Fee
Blank	John			

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

I N S T R U C T I O N S T O A P P L I C A N T

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 § 22-4-1k 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 § 22-4-1k(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 § 22-4-1a(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 owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 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 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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
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

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

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

(i) Name Charles Richman
Address Box 10
Moatsville, WV 26451

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR N/A
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____

Name N/A
Address _____

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which
- I hold the right to extract oil or gas.
- The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by

Tim Bennett
this 30 day of May, 1984.
My commission expires 6-15, 1989.

Notary Public,
State of W. Va.

WELL
OPERATOR SWIFT ENERGY COMPANY

By Tim Bennett
Its Designated Agent
Address P. O. Box 2201
Clarksburg, WV 26301
Telephone 622-7701

RECEIVED
MAY 31 1984
OIL & GAS DIVISION
DEPT. OF MINES



1) Date: May 30, 19 84
 2) Operator's Well No. Richman #1
 3) API Well No. 47 001
 State _____ County _____ Permit _____

**OIL & GAS DIVISION
DEPT. OF MINES**

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

- 4) WELL TYPE: A Oil _____ / Gas X _____
 B (If "Gas", Production X _____ / Underground storage _____ / Deep _____ / Shallow X _____)
- 5) LOCATION: Elevation: 1549' Watershed: Iygart Valley River (M-27)
 District: Cove County: Barbour Quadrangle: Nestorville
- 6) WELL OPERATOR Swift Energy Co. 7) DESIGNATED AGENT Tim Bennett
 Address P. O. Box 2201 Address P. O. Box 2201
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phil Tracey Name Unknown
 Address Forest Festival Apts. Address _____
Elkins, WV 26451
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Haverty
- 12) Estimated depth of completed well, 5950 feet
- 13) Approximate trata depths: Fresh, 50-675 feet; salt, 1075 feet.
- 14) Approximate coal seam depths: 215;365;475 Is coal being mined in the area? Yes _____ / No X
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	<u>11 3/4</u>			<u>X</u>		<u>30</u>		<u>Circulate</u>		
Fresh water										
Coal										
Intermediate	<u>8 5/8</u>			<u>X</u>		<u>1000</u>	<u>1000</u>	<u>To Surface</u>		
Production	<u>4 1/2</u>			<u>X</u>		<u>5450</u>	<u>5450</u>	<u>As Req. by</u>	<u>15.01</u>	
Tubing										
Liners										
									Perforations:	
									Top	Bottom

The law requires a comment period for surface owners. However, the permit can be issued in less than 15 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 materials.

(For execution by corporation, partnership, etc.)

(For execution by natural persons)

NAME: _____
 By Blanket MHA MHA MHA 1022
 Its _____ Date _____

Charles Richman Date: 5-30-84
 (Signature)
 _____ Date: _____
 (Signature)

Surface Owner

To
Moatsville

T.B.



RECEIVED

OCT 2 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

WELL TYPE: Oil ___ / Gas XX / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production XX / Underground Storage ___ / Deep ___ / Shallow XX)

LOCATION: Elevation: 1549' Watershed Tygart Valley River
District: Cove County Barbour Quadrangle Nestorville, 7.5 min.

COMPANY Swift Energy Company
ADDRESS P.O. Box 2201, Clarksburg, WV 26301
DESIGNATED AGENT Tim Bennett
ADDRESS P.O. Box 2201, Clarksburg, WV 26301
SURFACE OWNER Charles H. Richman
ADDRESS Box 10, Moatsville, WV 26451
MINERAL RIGHTS OWNER Same
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
Forest Fest. # 24 ADDRESS Elkins, EV 26451
PERMIT ISSUED 05-30-84
DRILLING COMMENCED 06-05-84
DRILLING COMPLETED 06-10-84

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8"			
8 5/8"		917'	260 sx
7"			
5 1/2"			
4 1/2"		5389'	600 sx
3"			
2 3/8"		5241'	
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5950 feet
Depth of completed well 5999 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 25'; 53' feet; Salt _____ feet
22-25'; 193-199'; 413-417'
Coal seam depths: 422-423' Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Haverty/4th Elk/Benson Pay zone depth 4662 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 381* Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 890 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation Balltown/5th Sand Pay zone depth 2635 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

*Gas comingled from formations. (Continue on reverse side)

BAR 2072

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

RECEIVED
JUN 12 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-2072

Oil or Gas Well _____
(KIND)

Company <u>Swift Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Chs. Richman</u>	16			Kind of Packer _____
Well No. <u>1</u>	13			Size of _____
District <u>Cove</u> County <u>Barbour</u>	10			Depth set _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Perf. top _____
Date shot _____ Depth of shot _____	5 3/16			Perf. bottom _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: rigging up

6-4-84
DATE

Philip Lacey & Ross Bell
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST	

Drillers' Names _____

Remarks: _____

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

DATE

DISTRICT WELL INSPECTOR

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

RECEIVED
JUN 12 1984

INSPECTOR'S WELL REPORT
DEPT. OF MINES

Permit No. 001-2072

Oil or Gas Well _____
(KIND)

Company Swift Energy
 Address _____
 Farm Richmans
 Well No. #1
 District COVE County BARB
 Drilling commenced 6/4/84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 <u>8-5/8</u>	<u>917</u>	<u>917</u>	<u>260</u>
6%			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Century Rig #1

Remarks:

6/8/84

DATE

James H. Powell 501

DISTRICT WELL INSPECTOR

RECEIVED

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST	

Drillers' Names _____

Remarks:

_____, I hereby certify I visited the above well on this date.
DATE

DISTRICT WELL INSPECTOR

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

RECEIVED
AUG 24 1984

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-2072

Oil or Gas Well _____
(KIND)

Company <u>Swift</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>RICHMAN</u>	16			Kind of Packer _____
Well No. <u>#1</u>	13			
District _____ County <u>001</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Count - 2 Kegs
Drillers' Names _____

Remarks: Reclaimed, Seeded - growth starting - should be OK - will wait.

8/22/84
DATE

RG Beall - 501 -
DISTRICT WELL INSPECTOR

2/16/82

**STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT**

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Amount			Packer			Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING					
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST			

Drillers' Names _____

Remarks: _____

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

DISTRICT WELL INSPECTOR



RECEIVED
APR 30 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 1, 1984

COMPANY Swift Energy Company

PERMIT NO 001-2072

P. O. Box 2201

FARM & WELL NO Charles Richman #1

Clarksburg, West Virginia 26301

DIST. & COUNTY Cove/Barbour

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

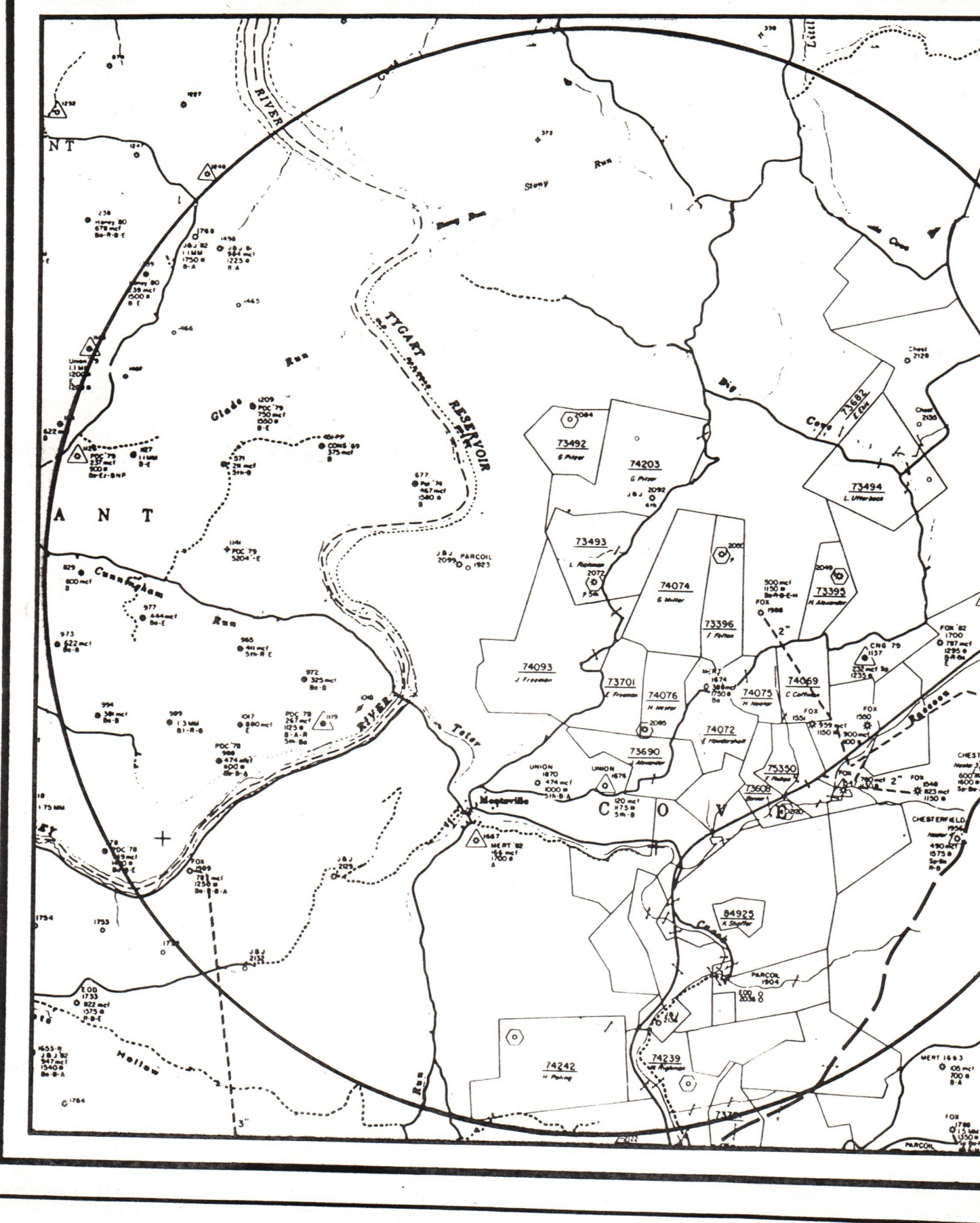
SIGNED Donald R. Ellis

DATE 4-24-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division

May 2, 1985
DATE



NT

A N T

Cannington

Hollow

Glade Run

TIGHEAT RESERVOIR

Toler

Moorville

C O V

84925

74242

74239

73882

73494

73492

74203

74074

73396

74069

75350

73603

74093

73701

74076

74072

73590

CHESTERFIELD

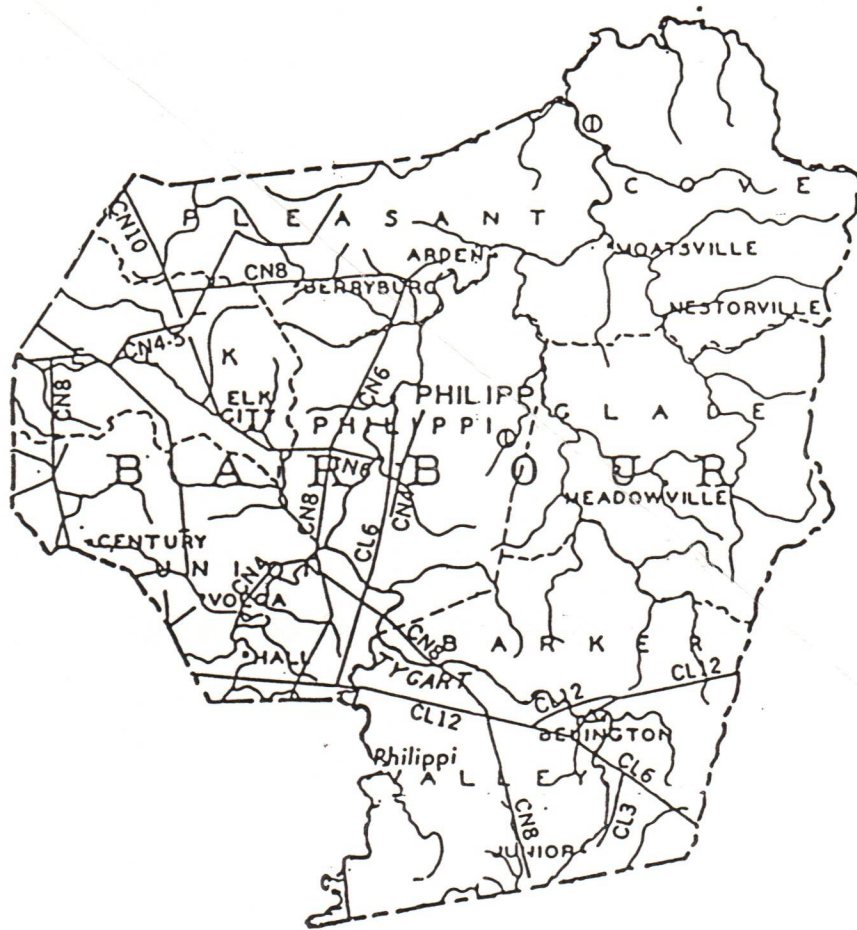
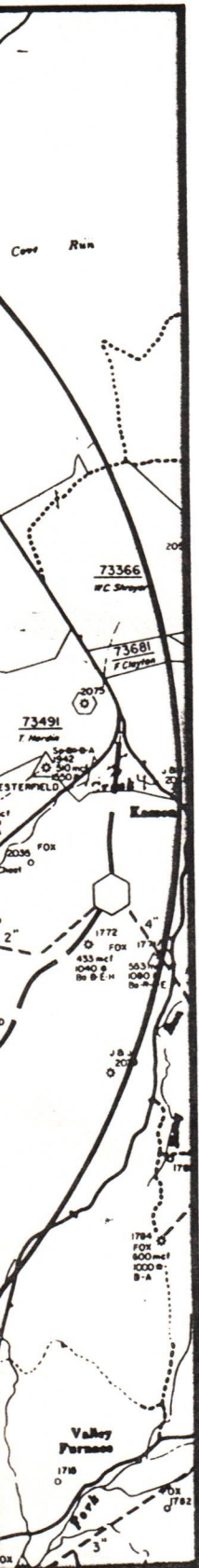
MERT 1663

PARCOL

FOX

FOX

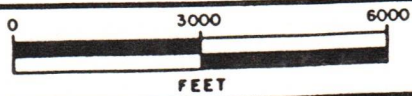
PARCOL



SWIFT ENERGY COMPANY

SECTION 102 FILING
 COVE & PLEASANT DIST., BARBOUR CO., W.VA.

RICHMAN-1
(47-001-2072)



FEET

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
ADDRESS 652 E. North Belt, #200
Houston, TX 77060

DESIGNATED AGENT Tim Bennett
ADDRESS P.O. Box 2201
Clarksburg, WV 26301

GAS PURCHASER Tennessee Gas Pipeline Company
ADDRESS 5646 U.S. Steel Bldg., 600 Grant Street
Pittsburgh, PA 15219

LOCATION Elevation 1549'
Watershed Tygart Valley River
Dist. Cove County Barbour Quad. N
ville 7.5

Date of Contract 09-06-84

Gas Purchase 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:

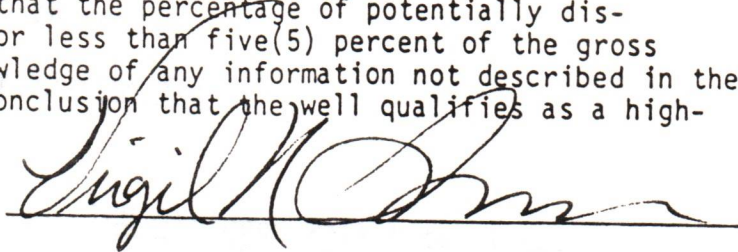
$$BHP = P_1 + P_1 (e^{(GL/53.34T)} - 1)$$

G = .7
L = 5296'
T = 584°R
P₁ = 904.7 psia

BHP = 1019 psia

AFFIDAVIT

I, Virgil N. Swift, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if Gamma Ray log described in subparagraph (3)(i) of (3)(ii)(A) has been filed, or as indicated by report in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is consistent with a conclusion that the well qualifies as a high-cast natural gas well.



STATE OF ~~WEST VIRGINIA~~ TEXAS

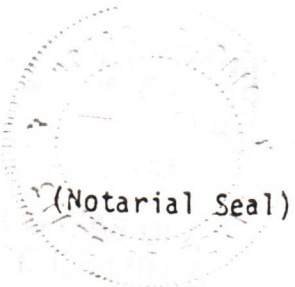
COUNTY OF HARRIS, TO-WIT:

I, J. E. SMITH, a Notary Public in and for the state and county aforesaid do certify that Virgil N. Swift, whose name is signed to writing above, bears date the 13th day of December, 1984, has acknowledged the same before me in my county aforesaid.

Given under my hand and official seal this 13th day of December, 1984.

My term of office expires on the 14th day of August, 1988.

JESmith
NOTARY PUBLIC



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

Havery & 4th Elk - 4922'-4927', 5264'-5296' 40,000 SCF N₂, 5,000# 80-100 SD, 40,000# 20-40 SD, 500 GA, 539BGW.

Benson - 4028'-4034', 40,000 SCF N₂, 5,000# 80-100 SD, 30,000# 20-40 SD, 500 GA, 519BGW.

Balltown - 2933'-2938', 40,000 SCF N₂, 5,000# 80-10 SD, 35,000# 20-40-SD, 500 GA, 473BGW.

5th Sand - 2333'-2395', 40,000 SCF N₂, 50,000# 20-40 SD, 500 GA, 418BGW.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	22	
Coal			22	25	Water at 25' - 1 1/2"
Shale and Sand			25	193	
Coal			193	199	Water at 53' - 3/4"
Shale and Sand			199	413	
Coal			413	417	
Sand			417	422	
Coal			422	423	
Shale & Sand & Red Rock			423	1079	
Shale and Sand			1079	1235	
Little Lime and Shale			1235	1247	
Big Lime			1247	1349	
Sand w/Shale Stages			1349	1500	
Shale w/Sand Stages			1500	1590	
Sand w/Shale Stages			1590	1810	
Shale w/Sand Stages			1810	2180	
Sand w/Shale Stages			2180	2400	
Shale w/Sand Stages			2400	2900	
Sand w/Shale Stages			2900	3000	
Shale w/Sand Stages			3000	4020	
Sand w/Shale Stages			4020	4090	
Shale w/Sand Stages			4090	5995'	
				T.D.	

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY

Well Operator

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

By: *James M. Kitterman*

Date: September 19, 1984

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

IV-35
(Rev 8-81)

RECEIVED
OCT 2 - 1984
OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

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

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

WELL TYPE: Oil ___ / Gas XX / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production XX / Underground Storage ___ / Deep ___ / Shallow XX)

LOCATION: Elevation: 1549' Watershed Tygart Valley River
District: Cove County Barbour Quadrangle Nestorville, 7.5 min.

COMPANY Swift Energy Company
ADDRESS P.O. Box 2201, Clarksburg, WV 26301
DESIGNATED AGENT Tim Bennett
ADDRESS P.O. Box 2201, Clarksburg, WV 26301
SURFACE OWNER Charles H. Richman
ADDRESS Box 10, Moatsville, WV 26451
MINERAL RIGHTS OWNER Same
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy
Forest Fest. #24 ADDRESS Elkins, EV 26451
PERMIT ISSUED 05-30-84
DRILLING COMMENCED 06-05-84
DRILLING COMPLETED 06-10-84
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8			
8 5/8		917'	260 sx
7			
5 1/2			
4 1/2		5389'	600 sx
3			
2 3/8"		5241'	
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5950 feet
Depth of completed well 5999 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 25'; 53' feet; Salt _____ feet
22-25'; 193-199'; 413-417'
Coal seam depths: 422-423' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty/4th Elk/Benson Pay zone depth 4662 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 381* Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 890 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation Balltown/5th Sand Pay zone depth 2635 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

*Gas comingled from formations.

(Continue on reverse side)

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

1.0 API well number (If not assigned, leave blank. 14 digits.)	47 - 001 - 2072 -						
2.0 Type of determination being sought (Use the codes found on the front of this form.)	102 <small>Section of NGPA</small>	2 <small>Category</small>	<div style="font-size: 2em; font-weight: bold; transform: rotate(-5deg); display: inline-block;">RECEIVED</div> DEC 28 1984 OIL & GAS DIV. 037373 DEPT. OF MINES <small>State Court</small>				
3.0 Depth of the deepest completion location. (Only needed if sections 103 or 107 in 2.0 above.)	5296						
4.0 Name, address and code number of applicant. (35 letters per line maximum. If code number not available, leave blank.)	Swift Energy Company <small>Name</small> 652 E. North Belt, #200 <small>Street</small> Houston TX 77060 <small>City State Zip Code</small>						
5.0 Location of this well. (Complete (a) or (b).) (a) For oil and gas wells. (35 letters maximum for field name.) (b) For OCS wells.	Cove District <small>Field Name</small> Barbour WV <small>County State</small> _____ <small>Area Name Block Number</small> _____ <small>Date of Lease</small> _____ <small>Mo. Day Yr. OCS Lease Number</small>						
(a) Name and identification number of this well. (35 letters and digits maximum.)	Richman No. 1						
(b) If code 4 or 5 in 2.0 above, name of the reservoir. (35 letters maximum.)	_____						
6.0 (a) Name and code number of the purchaser. (35 letters and digits maximum. If code number not available, leave blank.) (b) Date of the contract.	Tennessee Gas Pipeline Company <small>Name Buyer Cont-</small> _____ 09 10 6 8 4 <small>Mo. Day Yr.</small>						
(c) Estimated total annual production from the well.	25 Million Cubic Feet						
	(a) Base Price	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total of (a), (b) and (c)			
7.0 Contract price (As of filing date. Complete to 3 decimal places.)	S/MMBTU 3 8 4 5	- 0 3 0 7	+ 0 3 0 7	3 8 4 5			
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU 3 8 4 5	- 0 3 0 7	+ 0 3 0 7	3 8 4 5			
9.0 Person responsible for this application:	_____ <small>Name Title</small> Virgil N. Swift Executive V.P. _____ <small>Signature</small> 12-13-84 <small>Date Application is Completed</small>						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: center;"><small>Agency Use Only</small></td></tr> <tr><td style="text-align: center;">Date Received by Juris Agency DEC 28 1984</td></tr> <tr><td style="text-align: center;">Date Received by FERC</td></tr> </table>	<small>Agency Use Only</small>	Date Received by Juris Agency DEC 28 1984	Date Received by FERC	_____ <small>Phone Number</small> 713/445-0844			
<small>Agency Use Only</small>							
Date Received by Juris Agency DEC 28 1984							
Date Received by FERC							

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

DESIGNATED AGENT Tim Bennett

ADDRESS P.O. Box 2201
Clarksburg, WV 26301

WELL OPERATOR Swift Energy Company
ADDRESS 652 E. North Belt, #200
Houston, TX 77060

LOCATION: Elevation 1549'
Watershed Tygart Valley River

GAS PURCHASER Tennessee Gas Pipeline Co.
ADDRESS 5646 U.S. Steel Bldg., 600 Grant Street
Pittsburgh, PA 15219

Dist. Cove County Barbour Quad. Nestorville 7.5 min.
Gas Purchase Contract No. 1540
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 XX. If yes, identify such records and indicate their location, if known:

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

Applicant's Name: Swift Energy Company

Address: 652 E. North Belt, #200

Houston, TX 77060

Gas Purchaser Contract No. 1540

Date of Contract 09-06-84
(Month, day and year)

First Purchaser: Tennessee Gas Pipeline Company

Address: 5646 U.S. Steel Bldg., 600 Grant Street
(Street or P.O. Box)
Pittsburgh PA 15219
(City) (State) (Zip Code)

FERC Seller Code 037373

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: Virgil N. Swift Executive V.P.
(Print) (Title)

Signature: *Virgil N. Swift*

Address: 652 E. North Belt, #200
(Street or P.O. Box)
Houston TX 77060
(City) (State) (Zip Code)
Telephone: { 713 } 445-0844
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 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
- 107 High Cost Natural Gas
- 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

- 108 Stripper Well Natural Gas
- 108- Stripper Well
- 108-1 Seasonally Affected
- 108-2 Enhanced Recovery
- 108-3 Temporary Pressure Buildup

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

841228 -102-001-2072

Use Above File Number on all
Communications Relating to This Well

Designated Agent: Tim Bennett

Address: P.O. Box 2201

Clarksburg, WV 26301

FERC Buyer Code _____

RECEIVED

DEC 28 1984

OIL & GAS DIV.
DEPT. OF MINES

AGENCY USE ONLY

QUALIFIED

Date Received _____

Determination Date _____



Richman-1 (2022)

SWIFT ENERGY COMPANY

SECTION 102, WEST VIRGINIA

DEEPEST COMPLETION LOCATION / MARKER WELLS

COUNTY	PERMIT NO.	DRILLING DATE	PRODUCING FORMATION / TD
Barb. Co. / Cove Pleasant D.	372	'68	Dry & Abandoned /
(PL)	451-PP	'69	B /
(PL)	571-R	'77	5 th , B, Sp / 4225'
(PL)	677	'74 ✓	B / 4274'
(PL)	829	'77	B / 4140'
(PL)	965	'78	5 th , R, E, Ba / 4369'
(PL)	972	'78	Ba, B /
(PL)	973	'78 ✓	Ba, B / 4385'
(PL)	977	'78	Ba, E / 5208'
(PL)	988	'78	Ba, B, A / 4862'
(PL)	989	'78	B.I., R, B, Ba / 4606'
(PL)	994		Ba, B /
(PL)	1017	'78	B, R, E / 4815'
(PL)	1018		Plugged & Abandoned /
(PL)	1119	'79	B, A, R / 4802'
(PL)	1126	'79	Ba, Ez / 4304'
(PL)	1127		B, E /
(C)	1137	'79	Sp / 5239'
(PL)	1141	'79	Dry & Abandoned /
(PL)	1209	'79	B, R / 4200'
(PL)	1239	'79	B, E / 5546'
(PL)	1498	'81	B, A / 5301'
(C)	1547	'81	Ba, B, E / 5472'
(C)	1548	'81	Ba, B, E / 5410'
(C)	1550	'81	5 th , By, Sp, Ba, B, R, E / 5511'
(C)	1551	'81	Ba, R, B / 5676'
(C)	1667	'82	A / 5185'
(C)	1674	'82	B, E / 5709'
(C)	1676	'82	5 th , B / 5531'
(C)	1700	'82	B, R, Ba, E / 5751'
(PL)	1768	'82	B, A / 5400'
(C)	1771	'82	Ba, R, B, E / 5724'
(C)	1772	'83	Ba, B, E / 5739'
(C)	1870	'83	5 th , B, E / 5530'
(C)	1941	'83	Sp, B, A / 4505'
(C)	1942	'83	Sp, Ba, A, B / 4400'
(C)	1955	'83	Sp, Ba, A / 4503'
(C)	1956	'83	Sp, Ba, R, B / 4550'
(C)	1988	'83	Ba, R, B, E / 5692
(C)	1989		Ba, R, B, A /
(C)	2092		4 th /

SANDS

- A - Alexander
- B - Benson
- E - Elk
- H - Haverty
- R - Riley
- Ba - Balltown
- By - Bayard
- B.I. - Big Injun
- Sp - Speechley