



1) Date: May 3, 19 84  
 2) Operator's Well No. F. Felton #1  
 3) API Well No. 47 - 001 - 2050  
 State County Permit

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: 1644' Watershed: Tygart Valley River  
 District: Cove County: Barbour Quadrangle:
- 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 Phillip Tracy Name       
 Address Forest Festival Terrace Apt. 24 Address       
Elkins, WV 26241
- 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 strata depths: Fresh, 20 feet; salt, 1950 feet.
- 14) Approximate coal seam depths: 514 Is coal being mined in the area? Yes      / No X /

**RECEIVED**  
 MAY 7 - 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		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		1400	1400	To Surface	<u>NGAT</u>
Production	4 1/2			X		5950	5950	As Required	Depths set
Tubing								<u>by rule 15.01</u>	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-001-2050 Date May 8, 19 84

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 8, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <u>LS</u>	Plat: <u>MA</u>	Casing <u>MH</u>	Fee <u>995</u>
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Margaret J. Husse  
 Administrator, Office of Oil and Gas

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

File



1) Date: May 3 1984  
 2) Operator's  
 Well No. F. Felton #1  
 3) API Well No. 47-001-2050  
 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 Hubert Nestor  
 Address Rt. 1  
Moatsville, WV 26405

(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 \_\_\_\_\_  
 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.

**RECEIVED**  
 MAY 7 - 1984

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.

OIL & GAS DIVISION  
 DEPT. OF MINES

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

WELL  
 OPERATOR SWIFT ENERGY COMPANY

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

this 3 day of May, 1984.  
 My commission expires 6-15, 1989.

Diane G. Swiger  
 Notary Public, Harrison County,  
 State of WV

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>
F. Felton, et al	CGSC	1/8	49/310
CGSC	Swift Energy Co.		

Farmout Agreement  
dated 3/1/84  
*Copy to be sent?*



1) Date: May 3, 19 84  
 2) Operator's Well No. F. Felton #1  
 3) API Well No. 47 State 001 County Barbour Permit 001

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: 1644' Watershed: Tygart Valley River  
 District: Cove County: Barbour Quadrangle: \_\_\_\_\_
- 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 Phillip Tracy Name \_\_\_\_\_  
 Address Forest Festival Terrace Apt. 24 Address Unknown  
Elkins, WV 26241
- 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 strata depths: Fresh, 20 feet; salt, 1950 feet.  
 14) Approximate coal seam depths: 514 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		
Conductor	<u>1 3/4</u>			<u>X</u>		<u>30'</u>		<u>Circulate</u>	Kinds
Fresh water									
Coal									Sizes
Intermediate	<u>8 5/8</u>			<u>X</u>		<u>1400</u>	<u>1400</u>	<u>To Surface</u>	<u>NEAT</u>
Production	<u>4 1/2</u>			<u>X</u>		<u>5950</u>	<u>5950</u>	<u>As Required</u>	Depths set
Tubing								<u>by rule 15.01</u>	
Liners									Perforations:
									Top Bottom

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

The named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of the filing of the Application.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19 \_\_\_\_\_

By Margaret J. Hesse

Its \_\_\_\_\_

**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.



1) Date: May  
 2) Operator's Well No. F. Felton #1  
 3) API Well No. 47 001  
 State            County            Permit           

**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:            Watershed:             
 District: Cove County: Barbour Quadrangle:
- 6) WELL OPERATOR Swift Energy Co. 7) DESIGNATED AGENT Jim Bennett  
 Address P. O. Box 2201 Address P.O.Box 2201  
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 Plug off old formation            / Perforate new formation             
 Other physical change in well (specify)
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15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used		
Conductor	1 3/4			X		30'	Circulate Kinds
Fresh water							
Coal							Sizes
Intermediate	5/8			X		1400	To Surface
Production	4 1/2			X		5950	is Required
Tubing							Depths set
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.)  
 NAME: \_\_\_\_\_  
 By \_\_\_\_\_  
 Its \_\_\_\_\_ Date \_\_\_\_\_

(For execution by natural persons)  
X Hubert Nestor Date: 5/8/84  
 (Signature)  
X Savannah Nestor Date: 5/8/84  
 (Signature)

Surface Owner

Surface Owner

DEPT. OF MINES  
OIL & GAS DIVISION  
MAY 3 - 1931  
RECEIVED



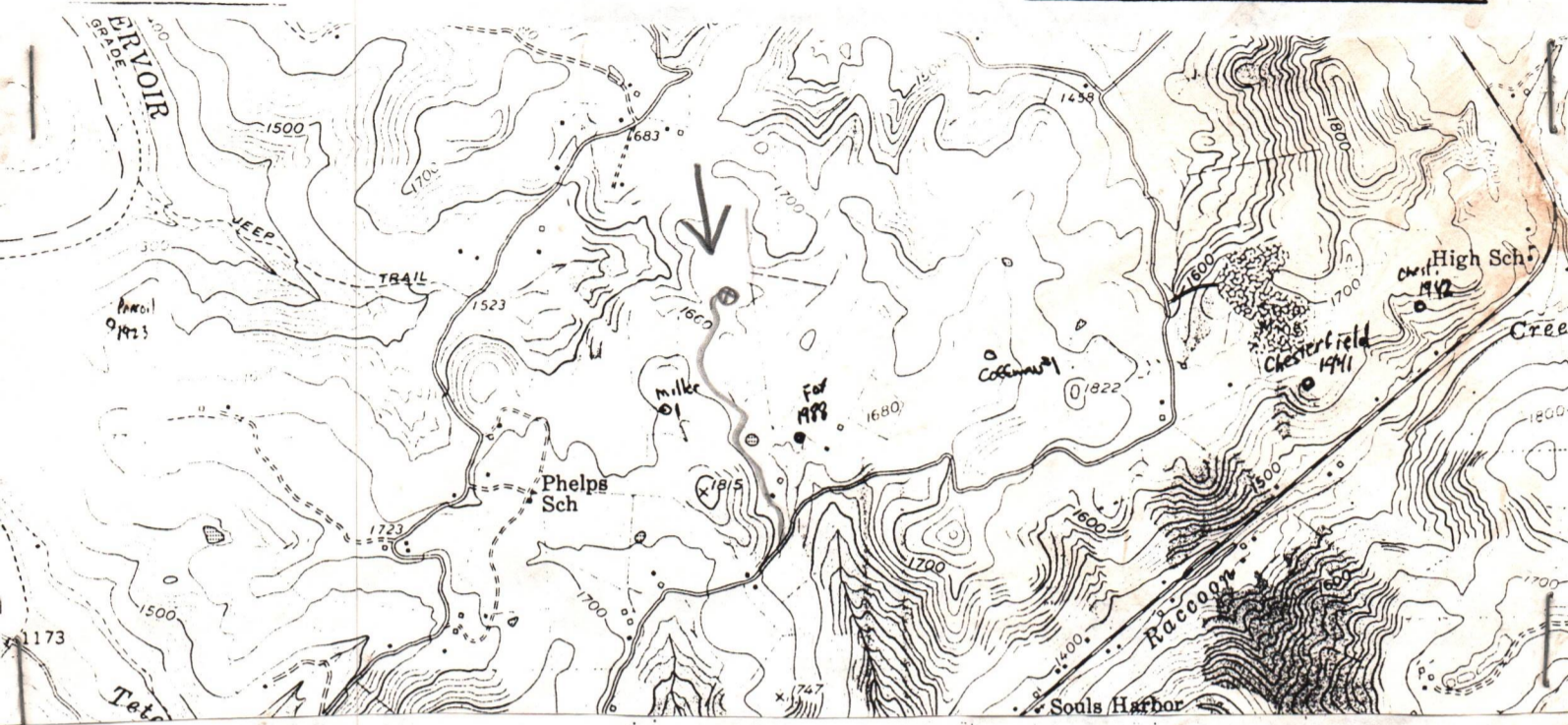


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Nestorville 7.5'

**LEGEND**

Well Site ⊕

Access Road ———



**LEGEND**

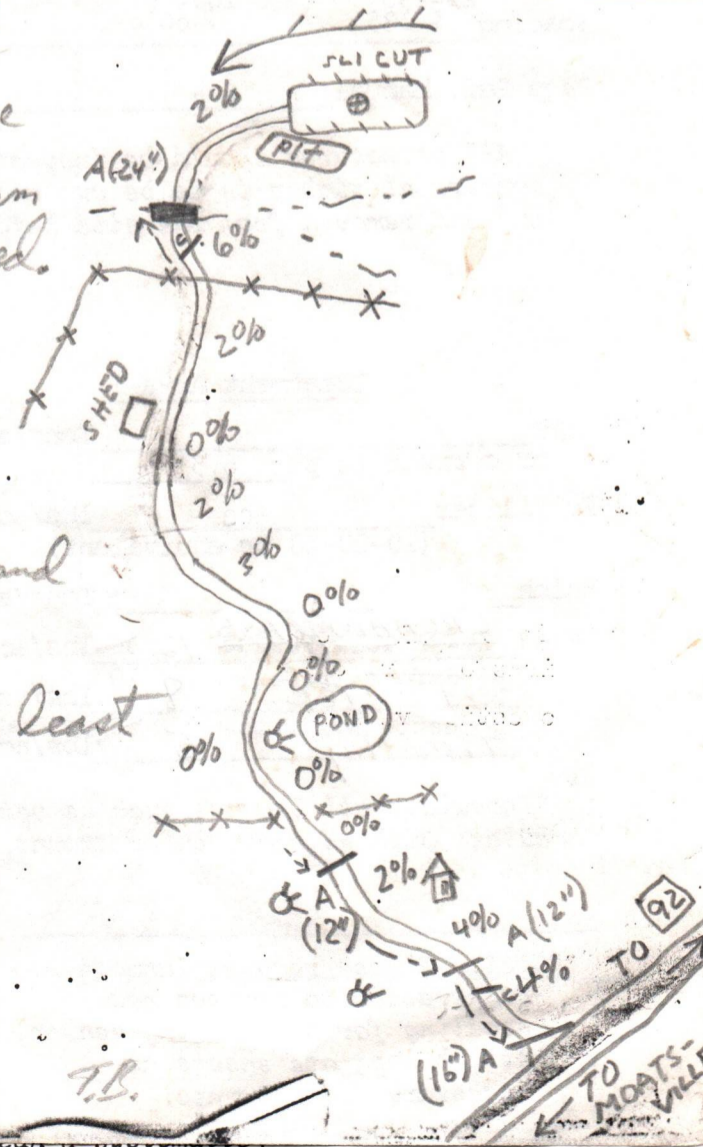
Property boundary ———	Diversion ———
Road = = = = =	Spring ⊕ →
Existing fence — x — x —	Wet spot ⊕
Planned fence — / — / —	Building ■
Stream ———	Drain pipe — ○ — ○ —
Open ditch ———→	Waterway ⊕ — ⊕ — ⊕ —

**Swift Energy Co - Felton #1**

Location is situated in sparse saw timber + rocks. Existing farm road will be upgraded + utilized. County road approach + wet spots will be stoned.

Timber will be cut + stacked. Mr. Nestor requests that ditching and stone be kept to a minimum in prime meadow areas, with the least topsoil disturbance possible.

Mr. Nestor assisted with planning and approved the location + road.



T.B.

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



RECEIVED

OCT 2 - 1984

IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date August 31, 1984 Operator's Well No. Felton No. 1 Farm API No. 47 - 001 - 2050

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: 1644' 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 Hubert B. Nestor ADDRESS Rt. 1, Moatsville, WV 26405 MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy Forest. Fest #24 ADDRESS Elkins, WV 26241 PERMIT ISSUED 05-05-84 DRILLING COMMENCED 05-25-84 DRILLING COMPLETED 05-31-84

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8 (970'), 5 1/2, 4 1/2 (5468'), 3, 2 3/8" (5333').

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

GEOLOGICAL TARGET FORMATION Haverty Depth 5950 feet Depth of completed well 5999' feet Rotary XX / Cable Tools Water strata depth: Fresh 16'; 63' feet; Salt Coal seam depths: 60'-63' Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Haverty/4th Elk Pay zone depth 5200 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 1905\* Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 1225 psig (surface measurement) after 12 hours shut in (If applicable due to multiple completion--)

Second producing formation Alexander/Balltown Pay zone depth 3720 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 2050

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

RECEIVED  
MAY 16 1984

OIL & GAS DIVISION  
DEPT. OF MINES  
INSPECTOR'S WELL REPORT

Permit No. 001-2050

Oil or Gas Well  
(KIND)

Company Swift Energy

Address \_\_\_\_\_

Farm J. Felton

Well No. 1

District Carroll County Barbours

Drilling commenced \_\_\_\_\_

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

Drillers' Names \_\_\_\_\_

Remarks: Location.

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			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

5-10-84  
DATE

Phillip Long  
DISTRICT WELL INSPECTOR



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

RECEIVED

MAY 23 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 601-2050

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Sweet Energy  
 Address \_\_\_\_\_  
 Farm Feltre  
 Well No. 1  
 District Cove County Barbar  
 Drilling commenced \_\_\_\_\_  
 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 1/4			
6 3/8			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 \_\_\_\_\_

Remarks: Location completed.

5-18-84  
DATE

Phillip Tracy  
DISTRICT WELL INSPECTOR





**RECEIVED**

APR 16 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  
P. O. Box 2201  
Clarksburg, West Virginia 26301

PERMIT NO 001-2050  
FARM & WELL NO Hubert Nestor  
Felton #1  
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 Strength	<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 *David R. Ellis*  
DATE 4-17-85

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. L. ...*  
Administrator-Oil & Gas Division  
April 17, 1985  
DATE

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

Date 12-07, 1984

Operator's Well No. Felton No. 1

API Well No. 47 - 001 - 2050  
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

LOCATION: Elevation 1644

Watershed Tygart Valley River

Dist. Cove County Barbour Quad. Nestorville 7.5

Gas Purchase Contract No. 1540

Meter Chart Code \_\_\_\_\_

Date of Contract 09-06-84

WELL OPERATOR Swift Energy Co.

ADDRESS 652 E. North Belt, #200

Houston, TX 77060

GAS PURCHASER Tennessee Gas Pipeline

ADDRESS 5646 U.S. Steel Bldg., 600 Grant St.

Pittsburgh, PA 15219

\* \* \* \* \*

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 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:



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

JAN 14 1985

AGENCY USE ONLY

WELL DETERMINATION FILE NUMBER

841214 -102-001-2050

Use Above File Number on all  
Communications Relating to This Well

Date: 12-07, 19 84

Applicant's Name: Swift Energy Co.

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 Co.

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

Designated Agent: Tim Bennett

Address: P.O. Box 2201  
Clarksburg, WV 26301

FERC Buyer Code \_\_\_\_\_

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
- 102-2 2.5 Mile Test
- 102-3 1000 Foot Deeper Test
- 102-4 New Onshore Reservoir

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

- 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

AGENCY USE ONLY

QUALIFIED

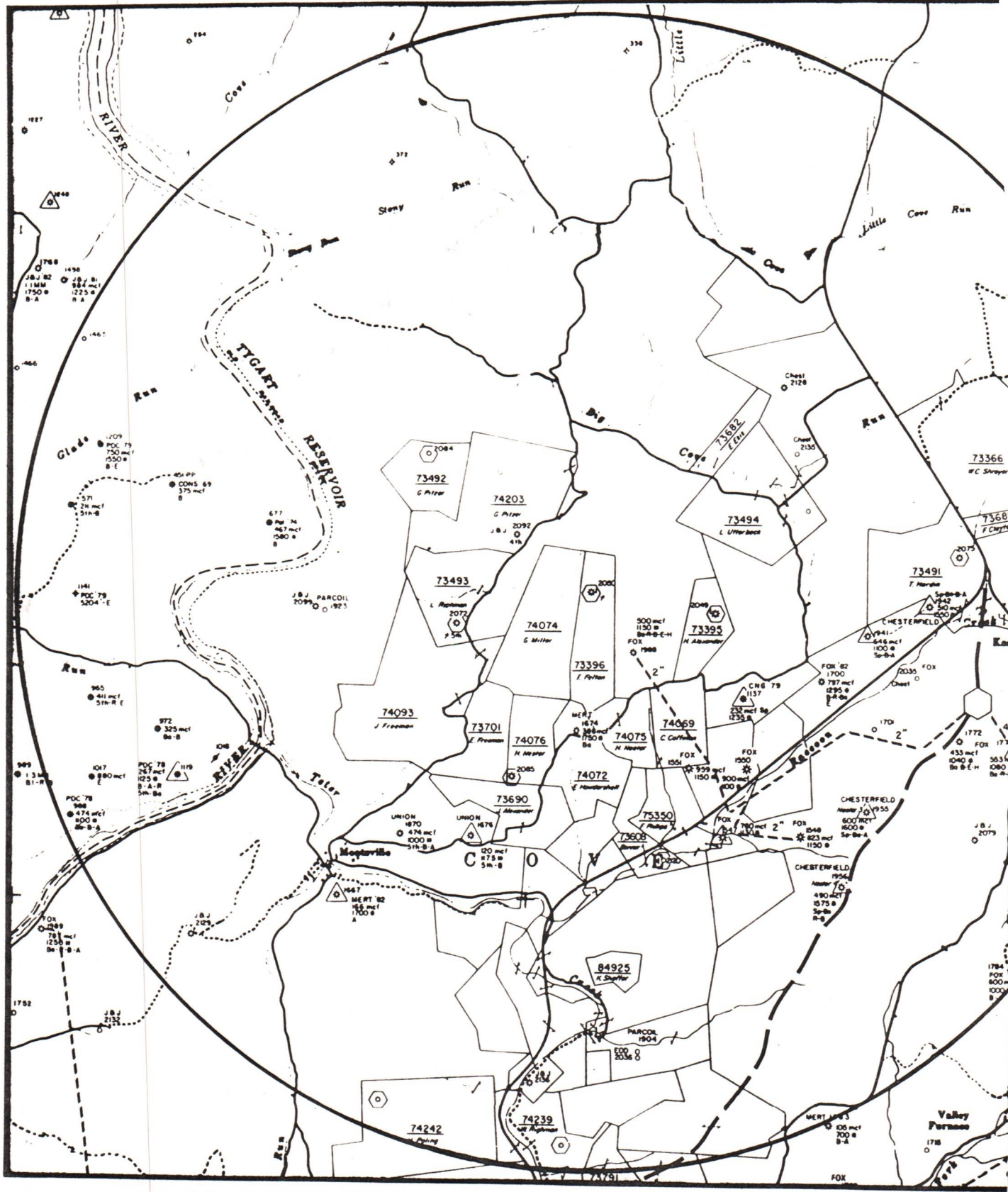
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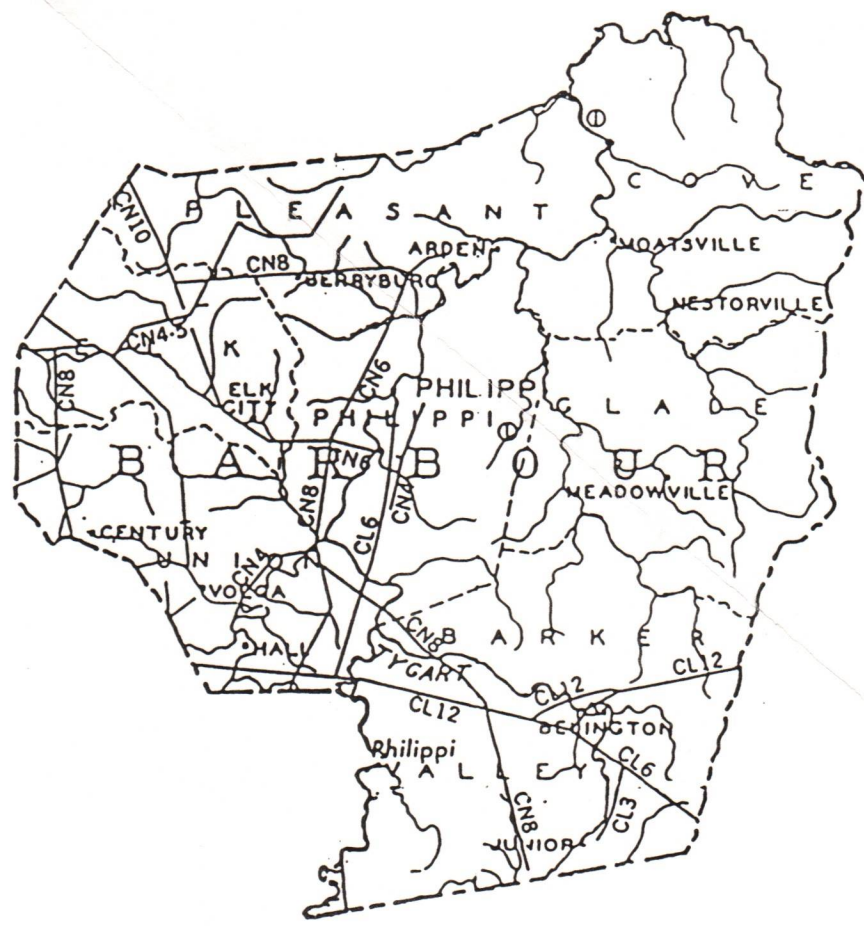
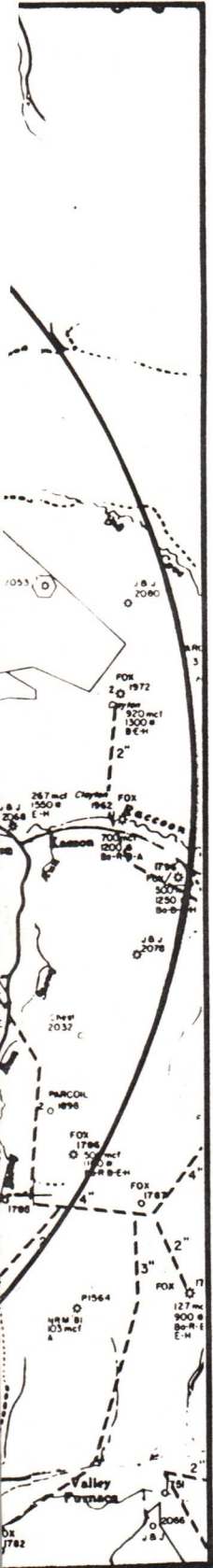
DEC 14 1984


OIL & GAS DIV.  
DEPT. OF MINES

Date Received

Determination Date






 **SWIFT ENERGY COMPANY**

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

**FELTON-1**  
**(47-001-2050)**

0 3000 6000  
  
 FEET

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
(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 codes 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 onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	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 buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo. Da. Yr) (a)	Purchaser (b)	Buyer Code (c)
1	09-06-84	Tennessee Gas Pipeline Co.	
2		5646 U.S. Steel Bldg.	
3		600 Grant Street	
4		Pittsburgh, PA 15219	
5			
6			

Remarks:

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 - 2050 -				
2.0 Type of determination being sought (Use the codes found on the front of this form.)	107 Section of NGPA	3 Category Code			
3.0 Depth of the deepest completion location (Only needed if sections 103 or 107 in 2.0 above.)	5392 feet				
4.0 Name, address and code number of applicant (35 letters per line maximum. If code number not available, leave blank.)	Swift Energy Co. Name 652 E. North Belt, Suite 200 Street Houston TX 77060 City State Zip Code				
5.0 Location of this well (Complete (a) or (b) ) (a) For onshore wells (35 letters maximum for field name.)	Cove District Field Name Barbour WV County State				
(b) For OCS wells	Area Name _____ Block Number _____  Date of Lease Mo. Day Yr. _____ OCS Lease Number _____				
(c) Name and identification number of this well (35 letters and digits maximum.)	Felton No. 1				
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)	_____				
6.0 (a) Name and code number of the purchaser (35 letters and digits maximum. If code number not available, leave blank.)	Tennessee Gas Pipeline Co. Name Buyer Code				
(b) Date of the contract:	09   06   84 Mo. Day Yr.				
(c) Estimated total annual production from the well	25 Million Cubic Feet				
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	(a) Base Price 5 . 9 0 2	(b) Tax - 0 . 4 7 2	(c) All Other Prices (Indicate (+) or (-).) + 0 . 4 7 2	(d) Total of (a) (b) and (c) 5 . 9 0 2
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	5 . 9 0 2	- 0 . 4 7 2	+ 0 . 4 7 2	5 . 9 0 2
9.0 Person responsible for this application:	Virgil N. Swift Executive V.P. Name Title Signature 12-07-84 Date Application is Completed 713/445-0844 Phone Number				

RECEIVED

OIL & GAS DIV. 037373  
DEPT. OF MINES

DEC 14 1984

Agency Use Only  
 Date Received by Juris. Agency  
**DEC 14 1984**  
 Date Received by FERC

STATE OF WEST VIRGINIA  
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  
ADDRESS 652 E. North Belt, Suite 200  
Houston, TX 77060

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

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

LOCATION Elevation 1644'  
Watershed Tygart Valley River  
Dist. Cove County Barbour Quad Nesto  
ville 7.5  
Gas Purchase  
Contract No. 1540  
Meter Chart Code \_\_\_\_\_

Date of Contract 09-06-84  
Date Surface Drilling Began: 5-25-84

\* \* \* \* \*

Indicate the bottom hole pressure of the well and explain how this was calculated:

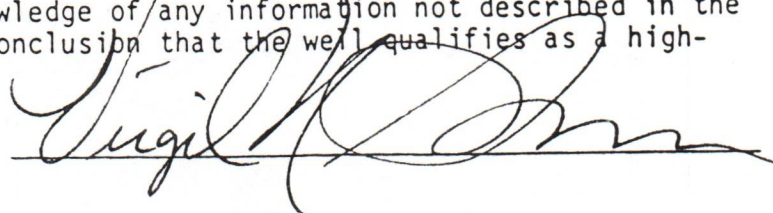
$$BHP = P_1 + P_1 (e^{(GL/53.34T)} - 1)$$

G = .7  
L = 5392'  
T = 585°R  
P<sub>1</sub> = 1240 psia

BHP = 1399 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, bearing date the 7th day of December, 19, 84, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 7th day of December, 19, 84.  
My term of office expires on the 14th day of August, 19, 88.



NOTARY PUBLIC

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

Operator: Swift Energy Co. Agent: Tim Bennett  
 Type Determination being sought - 107 (Devonian Shale)  
 API Well No.: 47-001-2050 Well Name: Felton No. 1  
 West Virginia Office of Oil and Gas County: Barbour  
 References: SJA File No.

Vol. \_\_\_\_\_ Page \_\_\_\_\_ Line \_\_\_\_\_

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 155 \* API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value =  $\frac{155}{0.7} * \text{API Units}$
2. Calculation:  $\frac{0.7 (\text{GR Value at Base Line})}{0.7 (155 * )} = \underline{108.5 \text{ API Units}}$

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
1792	5978	4186	190

Total Devonian Interval 4186

Total Less Than 0.7 (Shale Base)

190

% Less Than 0.7 (Shale Base Line) =  $\frac{190}{4186} \times 100 = \underline{4.5 \%}$

\*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.

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

Use Above File Number on all  
Communications Relating to This Well

Gas Purchaser Contract No. 1540

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  
(City) (State) (Zip Code)

Clarksburg, WV 26301

FERC Seller Code 037373

FERC Buyer Code

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
- 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

QUALIFIED

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DEC 14 1984

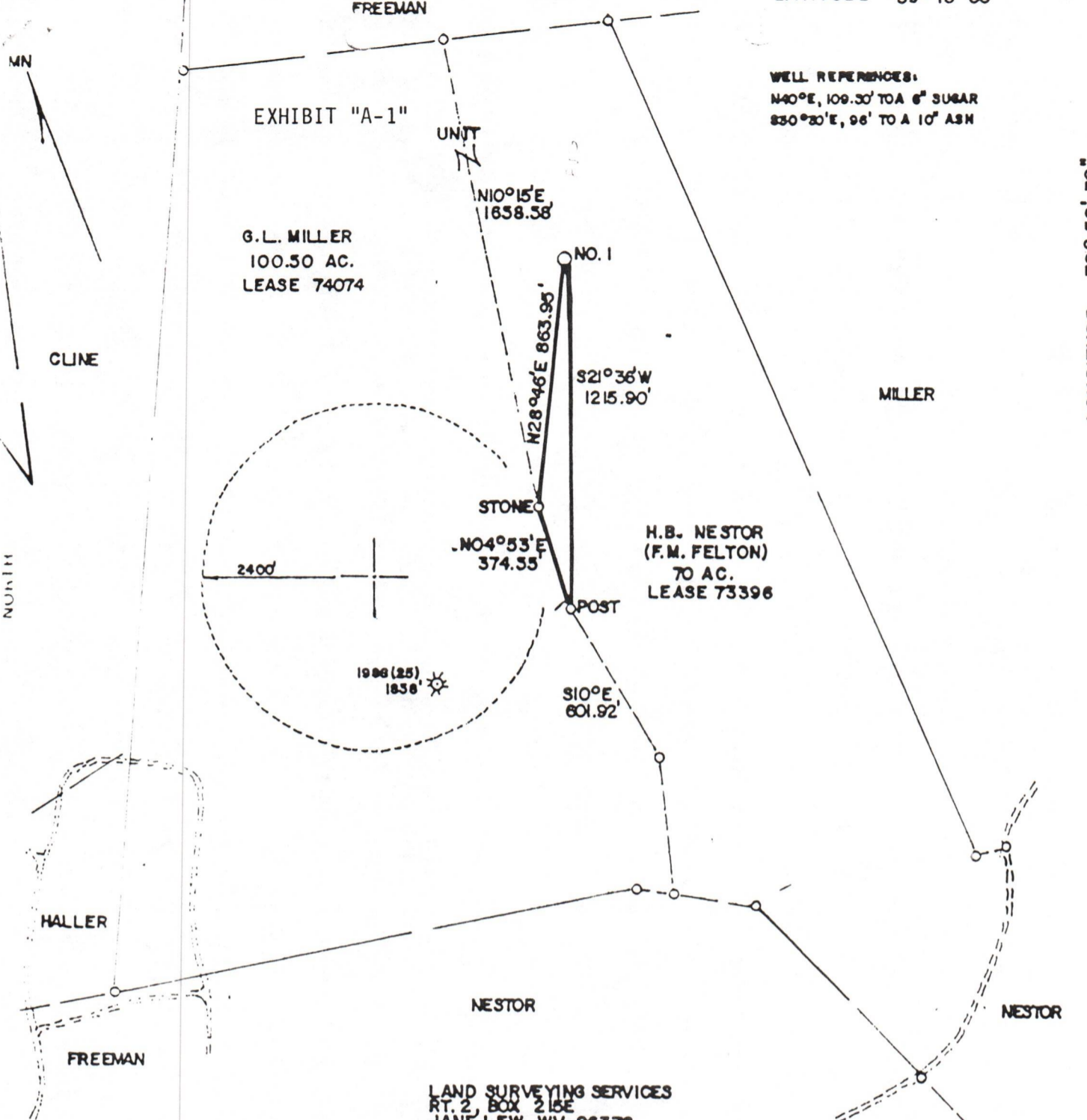
OIL & GAS DIV.  
DEPT. OF MINES

Date Received

Determination Date



LATITUDE 39° 15' 00"



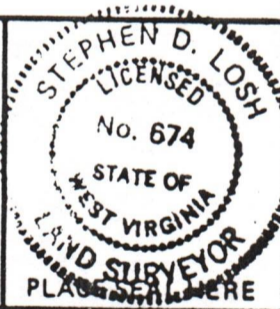
WELL REFERENCES:  
N40°E, 109.30' TO A 6" SUGAR  
S30°20'E, 96' TO A 10" ASH

LONGITUDE 79° 52' 30"

LAND SURVEYING SERVICES  
RT. 2, BOX 215E  
JANE LEW, WV 26378  
PHONE: 304-745-4426

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 2000 S. OF LOCATION ELEV. - 1815'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) *Stephen D. Losh*  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
 STEPHEN D. LOSH

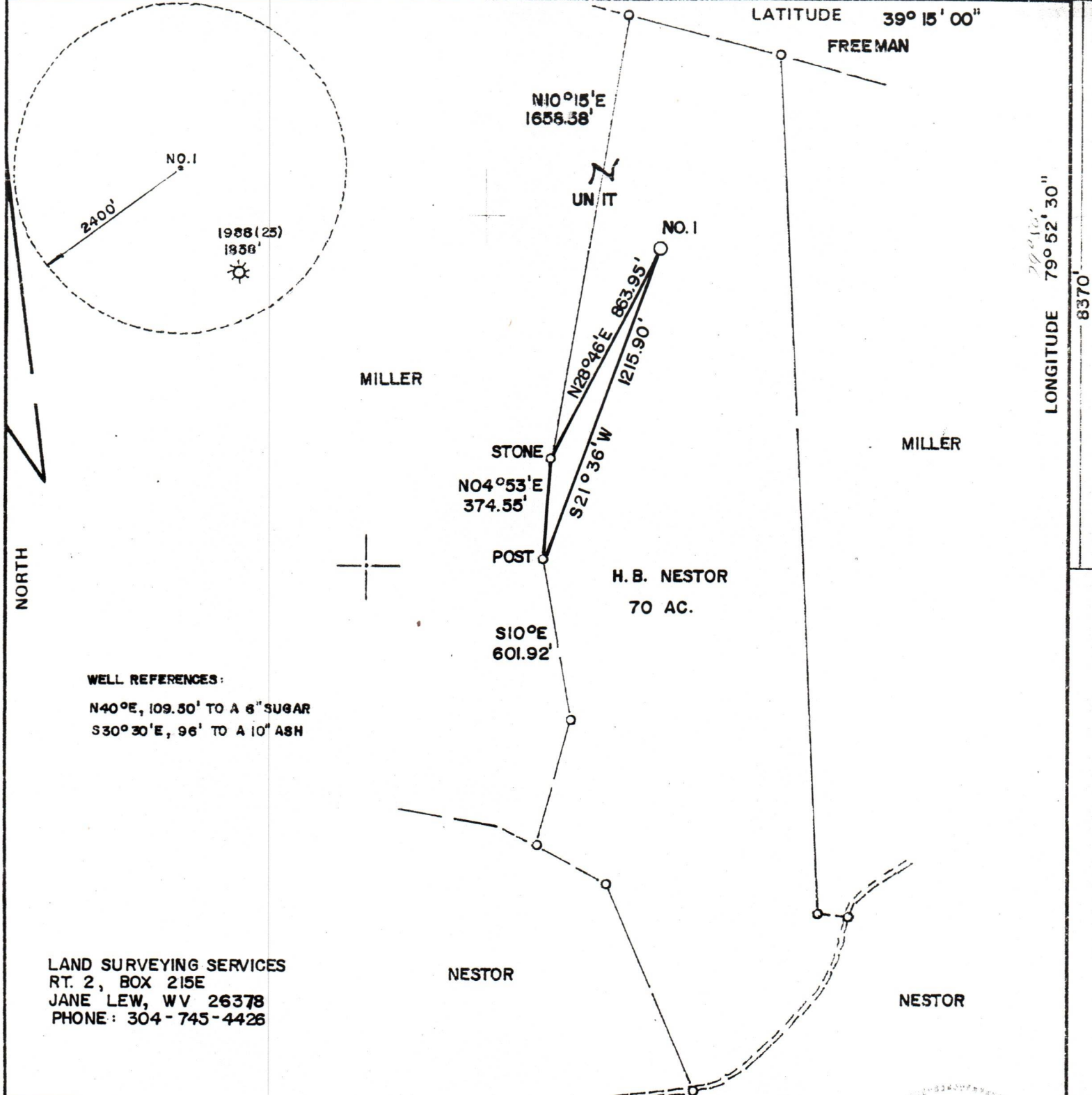


STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE MAY 02, 19 84  
 OPERATOR'S WELL NO. FELTON NO. 1 (UNIT)  
 API WELL NO. 47 - 001 -  
 STATE COUNTY PERMIT

→ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1644' WATER SHED TYGART VALLEY RIVER  
 DISTRICT COVE COUNTY BARBOUR  
 QUADRANGLE NESTORVILLE 7.5 min.  
 SURFACE OWNER HUBERT B. NESTOR ACREAGE 70  
 OIL & GAS ROYALTY OWNER HUBERT B. NESTOR LEASE ACREAGE 170.50 (UNIT)  
 LEASE NO. 73396, 74074  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION HAVERTY ESTIMATED DEPTH 3850'  
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT  
 ADDRESS P. O. BOX 2201 ADDRESS P. O. BOX 2201  
 CLARKSBURG, WV. 26301 CLARKSBURG, WV 26301



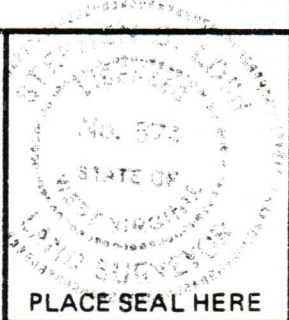
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 N40°E, 109.50' TO A 8" SUGAR  
 S30°30'E, 96' TO A 10" ASH

LAND SURVEYING SERVICES  
 RT. 2, BOX 215E  
 JANE LEW, WV 26378  
 PHONE: 304-745-4426

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF  
 ACCURACY 1 in 200  
 PROVEN SOURCE OF  
 ELEVATION TOP OF KNOB 2000' S.  
OF LOCATION ELEV. - 1815'

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 KNOWLEDGE AND BELIEF AND SHOWS ALL THE  
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 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF MINES.

(SIGNED) Stephen D. Losh  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
**STEPHEN D. LOSH**



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE MAY 02, 19 84  
 OPERATOR'S WELL NO. FELTON NO. 1 (UNIT)  
 API WELL NO. \_\_\_\_\_  
47 - 001 - 2050  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1644' WATER SHED TYGART VALLEY RIVER  
 DISTRICT COVE COUNTY BARBOUR  
 QUADRANGLE NESTORVILLE 75 min.  
 SURFACE OWNER HUBERT B. NESTOR ACREAGE 70  
 OIL & GAS ROYALTY OWNER HUBERT B. NESTOR LEASE ACREAGE 70  
 LEASE NO. 73396 (F.M. FELTON)  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION HAVERTY ESTIMATED DEPTH 5950'  
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT  
 ADDRESS P.O. BOX 2201 ADDRESS P.O. BOX 2201  
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

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

06-07-84

Haverty - 5361-5391', 20,000 SCF N<sub>2</sub>, 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 465 BGW.

4th Elk - 5019-5028', 20,000 SCF N<sub>2</sub>, 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 468 BGW.

Alexander - 4350-4374', 20,000 SCF N<sub>2</sub>, 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 457 BGW.

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

DEPT. OF MINES  
OIL & GAS DIVISION

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			0	60	Wet at 16'
Coal			60	63	Wet at 63' - 1" stream
Shale			63	1360	Gas test at 3076' - 440 MCF
Little Lime			1360	1378	Gas test at 3639' - 381 MCF
Shale			1378	1411	Gas test at 4178' - 270 MCF
Sandstone & Shale			1411	2712	Gas test at 5999' - 270 MCF
Bayard			2712	2803	
Sandstone & Shale			2803	4842	
3rd Elk			4842	4937	
Sandstone & Shale			4937	5999	
				T.D.	

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY

Well Operator

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

By:

*James M. Kitterman*

Date:

August 31, 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."



RECEIVED

OCT 2 - 1984

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia

Department of Mines  
Oil and Gas Division

Date August 31, 1984

Operator's Well No. Felton No. 1

Farm

API No. 47 - 001 - 2050

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: 1644' 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 Hubert B. Nestor

ADDRESS Rt. 1, Moatsville, WV 26405

MINERAL RIGHTS OWNER Same

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Phillip Tracy

Forest. Fest #24 ADDRESS Elkins, WV 26241

PERMIT ISSUED 05-05-84

DRILLING COMMENCED 05-25-84

DRILLING COMPLETED 05-31-84

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		970'	260 sx
5 1/2			
4 1/2		5468'	560 sx
3			
2 3/8"		5333'	
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5950 feet

Depth of completed well 5999' feet Rotary XX / Cable Tools

Water strata depth: Fresh 16'; 63' feet; Salt feet

Coal seam depths: 60'-63' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Haverty/4th Elk Pay zone depth 5200 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 1905\* Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1225 psig (surface measurement) after 12 hours shut in

(If applicable due to multiple completion--)

Second producing formation Alexander/Balltown Pay zone depth 3720 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 2050

