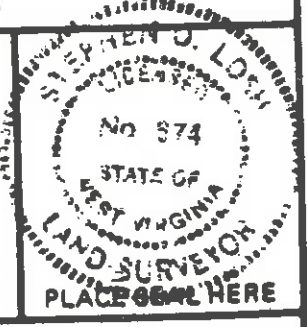


PREPARED BY DAVIS ASSOCIATES, CLARKSBURG, WV

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION EXIST. WELL 676-P  
 ELEV. 841'

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. Cook  
 R.P.E. \_\_\_\_\_ L.L.S. 674



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE OCTOBER 21, 1982  
 OPERATOR'S WELL NO. DENVER COX 18-2  
 API WELL NO. 47-017-3174  
 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 922' WATER SHED TOMS FORK  
 DISTRICT NEW MILTON COUNTY DODDSDRIDGE  
 QUADRANGLE NEW MILTON 7.5 mls VADIS 15' NW  
 SURFACE OWNER DENVER COX ACREAGE 102  
 OIL & GAS ROYALTY OWNER DENVER COX LEASE ACREAGE 207  
 LEASE NO. 49-0387 A-E  
 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 ALEXANDER ESTIMATED DEPTH 5300'  
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BERRY

NOV 8 1982

6-6 Porto Rico (Stout) (134)

RECEIVED

FEB 22 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES



IV-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date January 27, 1983  
Operator's  
Well No. B. Cox "B" No. 2  
Farm  
API No. 47 - 017 - 3174

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: 922' Watershed Tom's Fork  
District: New Milton County Doddridge Quadrangle New Milton 7 1/2'

COMPANY Swift Energy Company  
ADDRESS P.O. Box 2201, Clarksburg, WV 26301  
DESIGNATED AGENT Tim Bennett  
ADDRESS 737 Karl St., Weston, WV 26452  
SURFACE OWNER Denver Cox  
ADDRESS Box 41, New Milton, WV 26301  
MINERAL RIGHTS OWNER Denver Cox  
ADDRESS Box 41, New Milton, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK  
Steve Casey ADDRESS Jane Lew, WV  
PERMIT ISSUED 11-01-82  
DRILLING COMMENCED 11-26-82  
DRILLING COMPLETED 12-01-82

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	1925	1925	425
7			
5 1/2			
4 1/2		5488	200
3			
2 3/8"		5305	
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5200 feet  
Depth of completed well 5509 feet Rotary XX / Cable Tools  
Water strata depth: Fresh 90 feet; Salt 1500 feet  
Coal seam depths: 109' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5277-5294 feet  
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow \_\_\_ Bbl/d  
Final open flow 1043 Mcf/d Final open flow \_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 2180 psig (surface measurement) after 12 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_ Pay zone depth \_\_\_ 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

(Continue on reverse side)

Dopp - 3174

FEB 28 1983

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

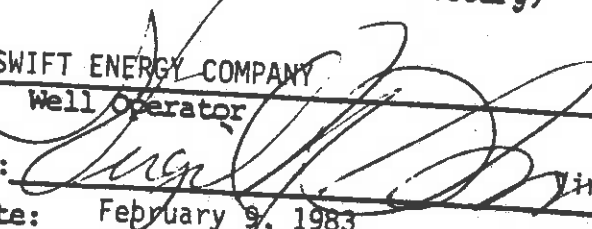
01-05-83

Alexander - 5277-5281, 5285-5287, 5289-5294, 10,000# 80-100 SD, 32,500#  
20-40 SD, 20,000 SCF N<sub>2</sub>, 500 GA, 100 BW.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandstone			0	109	
Coal			109	113	
Sandstone & Shale			113	2004	Gas check at 2219' no show
Limestone (Little & Big Lime)			2004	2082	Gas check at 3053' 16/10=1" w/water
Big Injun Sandstone			2082	2177	Gas check at 3700' no show
Shale			2177	2486	Gas check at 5174' no show
Sandstone (Gantz)			2177	2486	Gas check at T.D. 2/10=1" w/water
Shale			2486	2502	
Fifth Sand			2502	2855	
Shale & Sandstone			2855	2872	
Benson Sand			2872	4980	
Shale & Sandstone			4980	5016	
			5016	5509	
				T.D.	Elk @ T.D.

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY  
Well Operator  
By:  Virgil N. Swift  
Date: February 9, 1983

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



1) Date: October 28, 1968  
 2) Operator's Well No. Box 3-2  
 3) API Well No. 47-017-3174  
 State            County            Permit           

DRILLING CONTRACTOR:  
Unknown

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil            / Gas             
 B (If "Gas", Production            / Underground storage            / Deep            / Shallow           )
- 5) LOCATION: Elevation:            / Watershed:             
 District:            / County:            / Quadrangle:
- 6) WELL OPERATOR            / 11) DESIGNATED AGENT             
 Address            / Address
- 7) OIL & GAS ROYALTY OWNER            / 12) COAL OPERATOR             
 Address            / Address
- 8) SURFACE OWNER            / 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name            / Address
- 9) FIELD SALE (IF MADE) TO:            / 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name            / Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name            / Address
- 15) PROPOSED WORK: Drill            / Drill deeper            / Redrill            / Fracture or stimulate             
 Plug off old formation            / Perforate new formation             
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION,
- 17) Estimated depth of completed well,            feet
- 18) Approximate water strata depths: Fresh,            feet; salt,            feet.
- 19) Approximate coal seam depths:            Is coal being mined in the area? Yes            / No

20) 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									Kinds
Fresh water									Sizes
Coal									Depths set
Intermediate									Perforations:
Production									Top
Tubing									Bottom
Liners									

21) 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.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary:             
 My Commission Expires           

Signed:             
 Its:           

OFFICE USE ONLY  
DRILLING PERMIT

Permit number            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. 10) 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.)

Permit expires            unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

            
 Administrator, Office of Oil and Gas

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



Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above 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 receipt thereof.

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 \_\_\_\_\_

Its \_\_\_\_\_