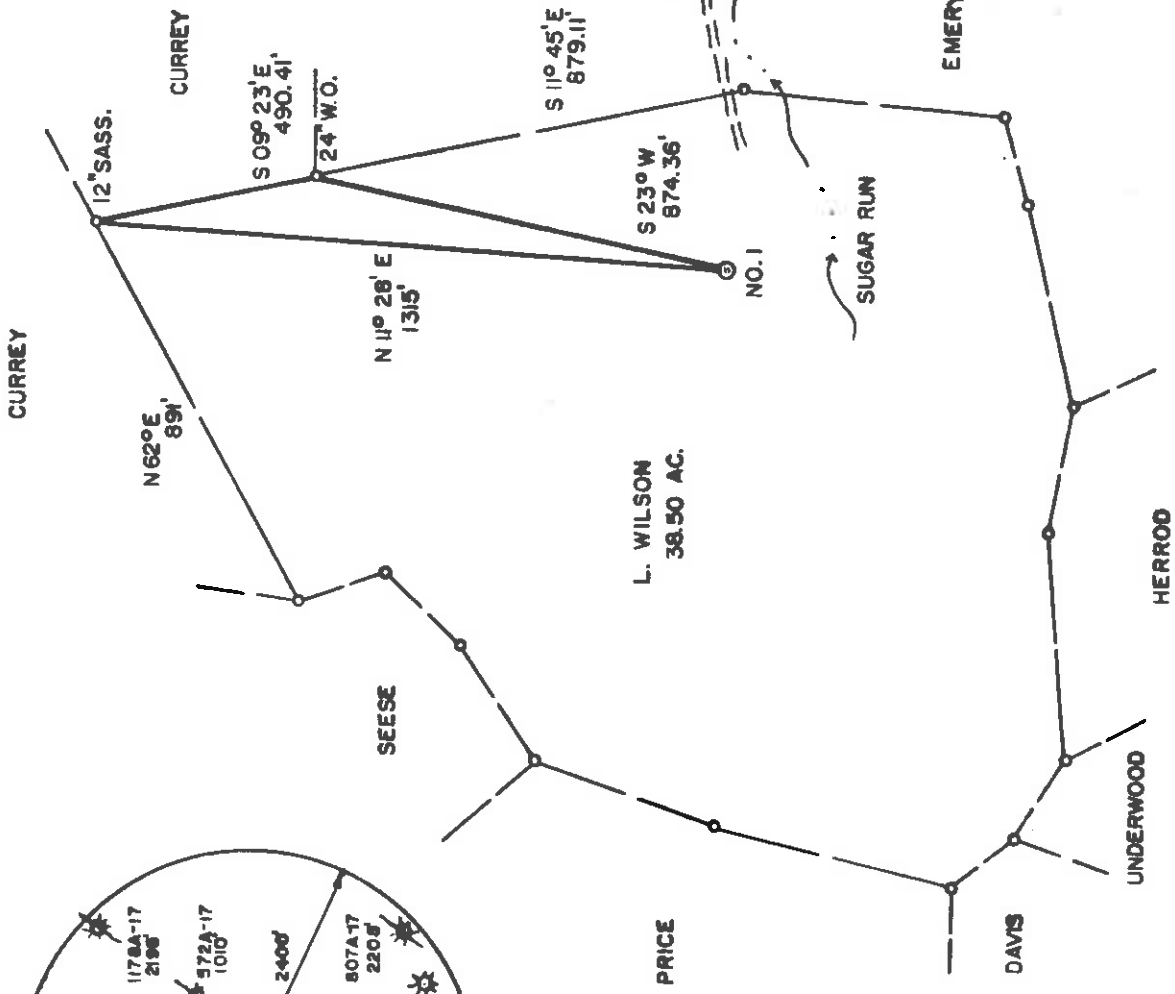
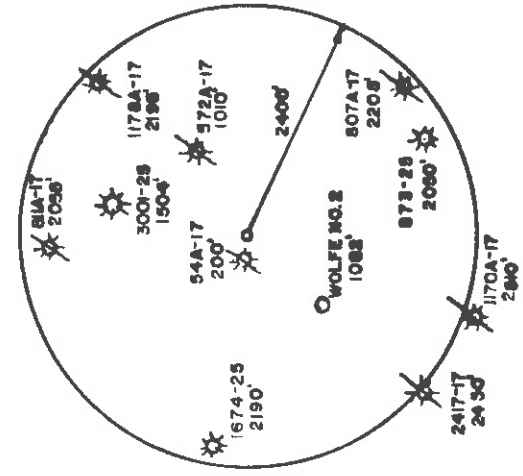


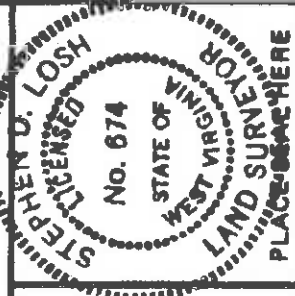
PREP BY DAVIS ASSOCIATES, CLARKSBURG, WV

LATITUDE 39° 20' 00" N  
LONGITUDE 80° 35' 00" W



PREPARED BY DAVIS ASSOCIATES, CLARKSBURG, WV

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF ACCURACY 1 in. 200'  
PROVEN SOURCE OF ELEVATION EXISTING WELL NO. \_\_\_\_\_  
300' ELEVATION 1080'



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) Steph D. Losh  
R.P.E. \_\_\_\_\_ L.L.S. 674

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE NOVEMBER 15, 19 82  
OPERATOR'S WELL NO. WILSON NO. 1  
API WELL NO. 47-017-3193

STATE COUNTY PERMIT  
DISTRICT McLELLAN COUNTY DODDRIDGE  
QUADRANGLE SALEM ACREAGE 38.50  
SURFACE OWNER ARNOLD WELCH  
OIL & GAS ROYALTY OWNER LEON F. WILSON LEASE ACREAGE 38.50

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1118' WATER SHED SUGAR RUN OF ROBINSON FORK  
DISTRRICT McLELLAN COUNTY DODDRIDGE  
QUADRANGLE SALEM ACREAGE 38.50  
SURFACE OWNER ARNOLD WELCH  
OIL & GAS ROYALTY OWNER LEON F. WILSON LEASE ACREAGE 38.50

PROPOSED WORK: DRILL  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 BENSON ESTIMATED DEPTH 5100'  
WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT  
ADDRESS P.O. BOX 2201

6-6 17 DEC 13 1982

IV-35  
(Rev 8-81)



**RECEIVED**

NOV 17 1986

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date June 17, 1983

Operator's

State of West Virginia

Well No. Wilson #1

Farm

Department of Mines

API No. 47 - 017 - 3193

Oil and Gas Division

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1118' Watershed Sugar Run of Robinson Fork  
District: McClelland County Doddridge Quadrangle Salem

COMPANY Swift Energy  
ADDRESS Clarksburg  
DESIGNATED AGENT Tim Bennett  
ADDRESS Clarksburg  
SURFACE OWNER Arnold Welch  
ADDRESS Route 2, Salem, West Virginia 26426  
MINERAL RIGHTS OWNER Leon Wilson  
ADDRESS 700 Stealey Ave., Clarksburg, W.V.

OIL AND GAS INSPECTOR FOR THIS WORK  
Stephen Casey ADDRESS Jane Lew, West VA 26378  
PERMIT ISSUED 12/03/82  
DRILLING COMMENCED 12/12/82  
DRILLING COMPLETED 12/17/82

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

GEOLOGICAL TARGET FORMATION Benson

Depth of completed well 5710' feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 110 feet; Salt 1810 feet  
Coal seam depths: None Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5155' feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 220\* Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1730 psig (surface measurement) after 12 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Speachley Pay zone depth 3565' 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)  
Salem 4

Casing Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8		2088'	445 Sacks
7			
5 1/2			
4 1/2		5280'	565 sks.
3			
2 3/8		5170'	
Liners used			

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

12/20/82 Benson - 5165'-5172', 10,000# 80-100 SD, 32,500# 20-40 SD, 500GA, 20,000 SCF N2, 400 BM.

Spechley - 3558'-61', 3567'-3570', 3572'-74, 10,000# 80-100 SD, 32,500# 20-40 SD, 20,000 SCF N2, 500 GA, 400 BM.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top Soil			0	5	H2O 73' 1/4" stream
Sandstone & Shale			5	2098	H2O 1763' 1 1/2" stream
Limestone			2098	2153	
Sandstone (Big Injun)			2153	2276	Gas test at 2316', Gas test at 2940 20/10-1 1/2" water, no show
Sandstone & Shale			2276	2830	Gas test at 3000' 56 MCF
Gordon Stray			2830	2854	Gas test at 5210', 16/10 thru 1 1/2" p
Sandstone & Shale			2854	5164	
Bensop Sand			5164	5196	
Sandstone & Shale			5196	5726 T.D.	

(Attach separate sheets as necessary)

Swift Energy Company  
Well Operator

BY: *James M. Kitterman* James M. Kitterman  
Vice President  
Drilling & Production

Date: June 21, 1983

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



1) Date: December 1, 19 80  
2) Operator's Well No. 47  
3) API Well No. 47  
State West Virginia  
County Putnam  
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  Deep  Shallow   
Underground storage
- 5) LOCATION: Elevation: 1118' Watershed: Sweet Run of Robinson Fork  
District: McClellan County: Randolph  
Quadrangle: S-12-3-1
- 6) WELL OPERATOR: Swift Energy Company  
Address: P. O. Box 2201  
Charleston, WV 25301
- 7) OIL & GAS ROYALTY OWNER: Leon F. Wilson  
Address: 700 Stealey Avenue  
Clarksburg, WV 26301
- 8) SURFACE OWNER: Arnold Welch  
Address: Route 2  
Salem, WV 26428
- 9) FIELD SALE (IF MADE) TO: N/A  
Address:

- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name: Steven Daily  
Address: Jane Law, WV 26378  
898-7470
- 11) DESIGNATED AGENT  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- 12) COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
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, Carbon  
17) Estimated depth of completed well, 3100 feet  
18) Approximate water strata depths: Fresh, 110 feet; salt, 1840 feet.  
19) Approximate coal seam depths: 1000 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		
Conductor	11 3/8			<input checked="" type="checkbox"/>		30	140	Cement
Fresh water								
Coal								
Intermediate	8 5/8			<input checked="" type="checkbox"/>		1650	To surface	
Production	4 1/2			<input checked="" type="checkbox"/>		5100	As run-in	
Tubing								
Liners								
								Perforations: Top Bottom

- 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: \_\_\_\_\_ Signed: \_\_\_\_\_ Its: \_\_\_\_\_  
My Commission Expires: 6-15-89

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: \_\_\_\_\_  
Fee: 170

NOTE: Keep one copy of this permit posted at the drilling location.  
Administrator, Office of Oil and Gas

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.
- 5) "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.
- 6) Where well is located
- 7) 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
- 8) Use separate sheet if necessary
- 9) Present surface owner at time application is filed.
- 10) 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 \_\_\_\_\_