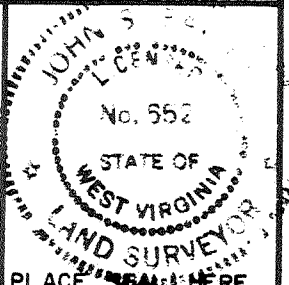


PREPARED BY MOUNTAIN STATE ENVIRONMENTAL SERVICE

FILE NO. MSES NO. 82-69  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'  
 PROVEN SOURCE OF ELEVATION RD. JCT. RT. 168 16/1  
EL. 872.0'

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) John S. Bailey  
 R.P.E. \_\_\_\_\_ L.L.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



DATE JULY 16, 19 82  
 OPERATOR'S WELL NO. B. ESTLACK NO.2  
 API WELL NO. \_\_\_\_\_  
47-017-3147  
 STATE COUNTY PERMIT

Department of Mines  
 Oil & Gas Division

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1459.9' WATER SHED LEFT PRONG  
 DISTRICT McCLELLAN COUNTY DODDRIDGE  
 QUADRANGLE SALEM 75' (1976) Centerpoint 15' EC  
 SURFACE OWNER DOROTHY WEBB & NEWLON J. WEBB 1/2 INT EACH ACREAGE 52.0  
 OIL & GAS ROYALTY OWNER SARA B. ESTLACK, et al LEASE ACREAGE 54.0  
 LEASE NO. \_\_\_\_\_

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 BENSON/ELK ESTIMATED DEPTH 5600'  
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT  
 ADDRESS PO. BOX 2201 ADDRESS 737 KARL STREET  
CLARKSBURG, W.VA. 26301 WESTON W.VA. 26452  
 OCT 12 1982  
 6-6 Smithton-Flint-Sedalia (99)



Date: October 5, 1982

Operator's Well No. B. Estlack No. 2

API Well No. 47 - 017 3147

State County Permit

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

WELL TYPE: Oil      / Gas X /  
(If "Gas", Production X / Underground storage      / Deep      / Shallow X /)

LOCATION: Elevation: 1459.9 Watershed: Left Prong  
District: McClellan County: Doddridge Quadrangle: Salem 7.5 min.

WELL OPERATOR Swift Energy Company  
Address P. O. Box 2201  
Clarksburg, WV 26301

DESIGNATED AGENT Tim Bennett  
Address 737 Karl Street  
Weston, WV 26452

OIL & GAS ROYALTY OWNER Sara B. Estlack, et al  
Address P. O. Box 156  
Wallace, WV 26448

COAL OPERATOR       
Address     

Acreage 54.0

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER D. Webb and N. J. Webb  
Address 214 Layton Avenue  
Wyoming, Delaware 19934

Name None  
Address     

Acreage 52.0

Name       
Address     

FIELD SALE (IF MADE) TO:  
Address Unknown

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Steven Casey  
Address Route 2, Box 232-D  
Jane Lew, WV 26378

Name       
Address     

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed      / lease X other contract      / dated May 29, 1981, to the undersigned well operator from Golda Smith by Brent S. Estlack, her nephew  
(If said deed, lease, or other contract has been recorded:)

Recorded on May 6, 1982, in the office of the Clerk of the County Commission of Doddridge County, West Va., in Deed Book 120 at page 172. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper      / Redrill      / Fracture or stimulate      /  
Plug off old formation      / Perforate new formation      /  
Other physical change in well (specify)     

—planned as shown on the work order on the reverse side hereof.

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.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

RECEIVED  
OCT 05 1982

OIL & GAS DIVISION  
DEPT. OF MINES  
BLANKET BOND

Swift Energy Company  
Well Operator  
By Tim Bennett  
Its Designated Agent

(12-81)

**PROPOSED WORK ORDER**

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown  
Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Benson/Elk

Estimated depth of completed well, 5600 feet Rotary x / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 140-200 feet; salt, -- feet.

Approximate coal seam depths: 1027 Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

**CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	11-3/4"	H-40	42#		X	30	30		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8-5/8"	J-55	23#	X		1600	1600	Circulate	
Production	4-1/2"	J-55	10.5#	X			5500		Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: 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.

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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH: CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 6-6-83  
BY [Signature]

[Signature]

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 \_\_\_\_\_

IV-35  
(Rev 8-81)



Date December 10, 1982

**RECEIVED** of West Virginia

Operator's Well No. B. Estlack No.2

JAN 21 1983

Department of Mines  
Oil and Gas Division

Farm \_\_\_\_\_

API No. 47 - 0±7 - 3147

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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: 1459.9' Watershed Left Prong  
District: McClelland County Doddridge Quadrangle Salem 7.5'

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 D. & N.J. Webb

ADDRESS 214 Layton Ave., Wyoming Delaware 19934

MINERAL RIGHTS OWNER Sarah B. Estlack

ADDRESS P.O. Box 156, Wallace, WV 26448

OIL AND GAS INSPECTOR FOR THIS WORK  
Steven Casey ADDRESS Rt.2 Box 232-D, Jane Lew, WV 7

PERMIT ISSUED 10-05-82

DRILLING COMMENCED 10-19-82

DRILLING COMPLETED 10-23-82

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	1695	1695	385
7			
5 1/2			
4 1/2		5637	570
3			
2 3/8"		4931	
Liners used			

GEOLOGICAL TARGET FORMATION Benson/Elk Depth 5600 feet

Depth of completed well 5642 feet Rotary XX / Cable Tools \_\_\_\_\_

Water strata depth: Fresh -- feet; Salt -- feet

Coal seam depths: 1179 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5512-5517 feet

Gas: Initial open flow N/A 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 1740 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

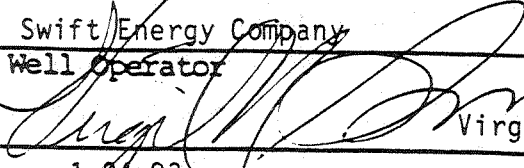
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

11-04-82 Benson - 5512'-5517', 10,000# 80-100 SD, 32,500# 20-40- SD, 500 GA,  
20,000 SCF N<sub>2</sub>, 88 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
Shale & Sandstone			0	1179	
Coal			1179	1189	
Sandstone & Shale			1189	2050	
Sandstone & Shale			2050	2390	
Limestone (Limes)			2390	2485	
Big Injun Sandstone			2485	2592	
Sandstone & Shale			2592	2940	Gas Check at 2660' no show
Sandstone (Gantz)			2940	2968	
Sandstone & Shale			2968	3146	
Sandstone (Gordon Stray)			3146	3180	
Sandstone & Shale			3180	3236	Gas Check at 3192' no show
Sandstone (Gordon)			3236	3265	
Sandstone & Shale			3265	4234	Gas Check at 3383' 20/10-2" water
Sandstone (Speechley)			4234	4254	
Sandstone & Shale			4254	5506	
Sandstone (Benson)			5506	5522	Gas Check at 5513' 9/10-2" water
Sandstone & Shale			5522	5642	
				TD	

(Attach separate sheets as necessary)

Swift Energy Company  
Well Operator  
By:  Virgil N. Swift  
Date: 1-24-83

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."