

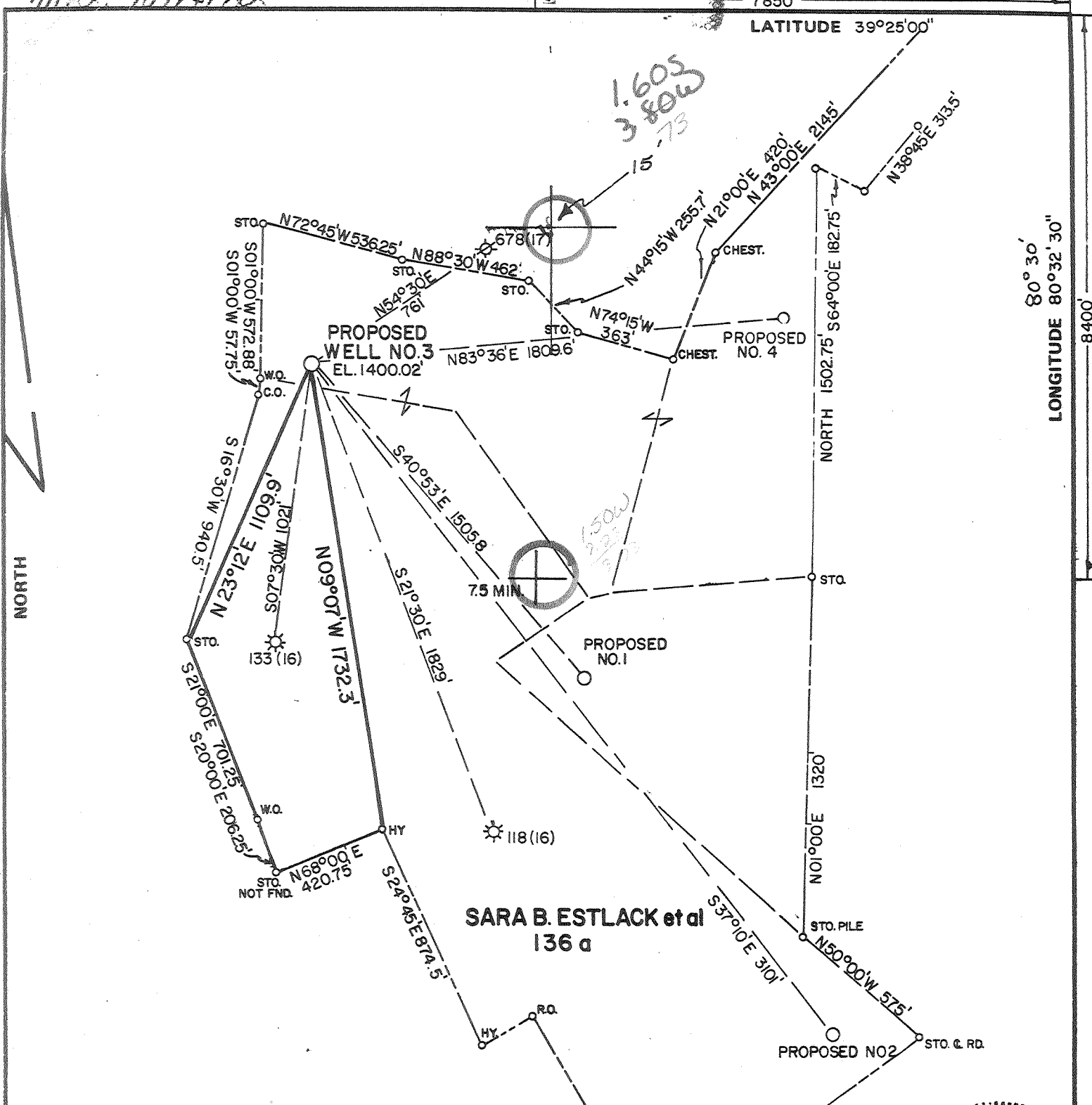
M.F. 10/14/82

Card CSD

7850'

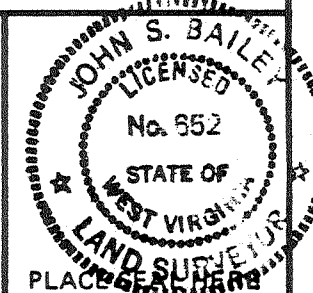
LATITUDE 39°25'00"

LONGITUDE 80°32'30"



FILE NO. MSES 85  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'  
 PROVEN SOURCE OF ELEVATION RD. INT. RT. 10 & PRIVATE ROAD ELEV. 912.00'

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.I.S. 652



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JULY 29, 19 82  
 OPERATOR'S WELL NO. S. ESTLACK 3  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 3156  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1400.02' WATER SHED PIKE FORK  
 DISTRICT McCLELLAN COUNTY DODDRIDGE  
 QUADRANGLE FOLSOM 7.5' (1976) Centerpoint 15' E  
 SURFACE OWNER RICHARD M. & ETHEL L. BURDETTE ACREAGE 144.625  
 OIL & GAS ROYALTY OWNER SARA B. ESTLACK LEASE ACREAGE 136  
 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 5800 6-6 Smithton Flint-Sedalia (99)  
 WELL OPERATOR SWIFT ENERGY DESIGNATED AGENT TIM BENNETT  
 ADDRESS P.O. BOX 2201 ADDRESS 737 KARL STREET  
CLARKSBURG, W.V. 26301 WESTON, W.V. 26452

RECEIVED

MAR 30 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES



IV-35  
(Rev 8-81)

Date March 21, 1983  
Operator's Well No. S. Estlack NO.  
Farm \_\_\_\_\_  
API No. 47-017-3156

State of West Virginia  
Department of Mines  
Oil and Gas Division

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: 1400' Watershed Pike Fork  
District: McClelland County Doddridge Quadrangle Eolsom 7 1/2'

COMPANY Swift Energy Company  
ADDRESS P.O. Box 2201, Clarksburg, WV 26301

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

SURFACE OWNER R.M. & E.L. Burdette  
ADDRESS 5333 Gold Mine Road, Fredrick, MD

MINERAL RIGHTS OWNER Sarah B. Estlack, et al <sup>21701</sup>  
ADDRESS P.O. Box 156, Wallace, WV 26448

OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
Stephen Casey ADDRESS RT. 2, Box 232-D, Jane Lew, WV

PERMIT ISSUED 10-06-82  
DRILLING COMMENCED 10-29-82

DRILLING COMPLETED 11-03-82

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSON 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	1821	1821	465
7			
5 1/2			
4 1/2		5486	475
3			
2 3/8"		5389	
Liners used			

GEOLOGICAL TARGET FORMATION Benson/Elk Depth 5800 feet

Depth of completed well 5907 feet Rotary XX / Cable Tools \_\_\_\_\_

Water strata depth: Fresh \_\_\_\_\_ feet; Salt \_\_\_\_\_ feet

Coal seam depths: 749 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson/Riley Pay zone depth 5400 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 1730 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

APR 11 1983

(Continue on reverse side)

1000. 3156

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

1-13-83

Benson/Riley - 5400-5405, <sup>Benson</sup>5326-5328, 5322-5324, <sup>Riley</sup>5316-5318, 5280-5286, 12,000#  
80-100 SD, 40,000# 20-40 SD, 25,000 SCF N<sub>2</sub>, 500 GA, 500 BW.

Riley - 5328  
Benson - 5405

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	745	
Coal			745	749	
Sandstone & Shale			749	2247	
Limestone (Big & Little Lime)			2247	2392	Gas check at 2542' no show
Sandstone (Big Injun)			2392	2459	Gas check at 3101' no show
Shale & Sandstone			2459	2803	Gas check at 3223' 100/10-1" water
Gantz Sand			2803	2834	Gas check at 4313' 75/100-1" w/water
Shale & Sandstone			2834	3023	Gas check at 5435' 100/10-1" w/water
Sandstone (Gordon Stray)			3023	3046	Gas check at T.D. 30/10-1" w/water
Sandstone & Shale			3046	3683	
Warren Sandstone			3683	3727	
Sandstone & Shale			3727	3964	
Sandstone (Upper Speechley)			3964	3993	
Sandstone & Shale			3993	5907	
				T.D.	OK @ T.D.

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY  
Well Operator  
By: James M. Kitterman James M. Kitterman-V.P. Drilling & Production  
Date: March 21, 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 well, encountered in the drilling of a well."



Date: October 11, 19 82

Operator's Well No. S. Estlack No. 3

API Well No. 47 - XXXXX 017-3156  
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: 1400.02' Watershed: Pike Fork  
District: McClellan County: Doddridge Quadrangle: Folsom 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 136.0

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER R. M. & E. L. Burdette  
Address 5333 Gold Mine Rd.  
Frederick, MD 21701

Name None

Acreage 144.625

Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Address Unknown

Name \_\_\_\_\_

Address \_\_\_\_\_

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

COAL LESSEE WITH DECLARATION ON RECORD:

Name \_\_\_\_\_

Address \_\_\_\_\_

Jane Lew, WV 26378

Telephone: 884-7470

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, 19 81, to the undersigned well operator from Golda Smith

Brent S. Estlack, Her nephew

(If said deed, lease, or other contract has been recorded:)

Recorded on May 6, 19 82, in the office of the Clerk of the County Commission of Harrison County, West

Va., in Deed Book 120 at page 714. 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

1000 MAIN STREET EAST  
CHARLESTON, WV 25311

PHONE: 8-3092

Swift Energy Company

Well Operator

By Tim Bennett

Its Designated Agent

PROPOSED WORK ORDER

(12-81)

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, 5800 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 460 feet; salt, -- feet.

Approximate coal seam depths: 1000 Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

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	H-40	42#		X	30	30		Kinds	
Fresh Water										
Coal									Sizes	
Intermediate	8-5/8	J-55	23#	X		1500	1500	Circulate		
Production	4-1/2	J-55	10.5#	X			5700		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 6-13-83

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 \_\_\_\_\_

15  
CHALK  
TELEPHONE: (304) \_\_\_\_\_