

PREPARED BY MOUNTAIN STATE ENVIRONMENTAL SERVICE

FILE NO. MSES NO. 82-65

DRAWING NO. _____

SCALE 1" = 500'

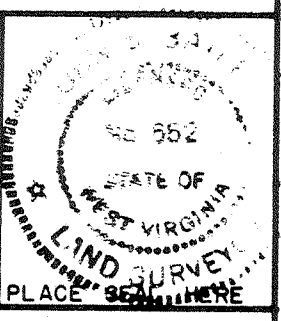
MINIMUM DEGREE OF ACCURACY 1 PART IN 200

PROVEN SOURCE OF ELEVATION RD. INT. RT. NO. 10 B PRIVATE RD. EL. 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. L. S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE JULY - 12, 19 82

OPERATOR'S WELL NO. ESTLACK NO. 1

API WELL NO. _____

47 - 017 - 3126

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 1000.5' WATER SHED PIKE FORK

DISTRICT Mc CLELLAN COUNTY DODDRIDGE

QUADRANGLE FOLSOM, 7.5' (1976) Centerpoint 15' EC

SURFACE OWNER RICHARD M. & ETHEL L. BURDETTE ACREAGE 144.625

OIL & GAS ROYALTY OWNER SARA B. ESTLACK, et al. LEASE ACREAGE 136.0

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 5200'

WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT

ADDRESS P.O. BOX 2201 ADDRESS 737 KARL STREET

CLARKSBURG, W. VA. 26301 WESTON, W. VA. 26452

AUG 2 1982

6-6 Smithton-Plant-Sedalia (99)



RECEIVED

IV-35
(Rev 8-81)

JAN 31 1983

State of West Virginia

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Department of Mines
Oil and Gas Division

Date October 12, 1982

Operator's
Well No. S Estlack #1

Farm _____

API No. 47 - 017 - 3126

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 XXX / Underground Storage ___ / Deep ___ / Shallow XXX /)

LOCATION: Elevation: 1000.5' Watershed Pike Fork
District: McClelland County Doddridge Quadrangle Folsom, 7.5'

COMPANY Swift Energy Company

ADDRESS P.O. Box 2201 Clarkburg, WV 26301

DESIGNATED AGENT Tim Bennett

ADDRESS 737 Karl St., Weston, WV 26452

SURFACE OWNER Richard M. & Ethel L. Burdette

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

MINERAL RIGHTS OWNER See Attached Sheet

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____

Stephen Casey ADDRESS Rt.2, Box 232-D, Jane Lew, WV 26378

PERMIT ISSUED 7-23-82

DRILLING COMMENCED 8-05-82

DRILLING COMPLETED 9-20-82

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	1637'	1637'	400
7			
5 1/2			
4 1/2		5206'	625
3			
2 3/8"		5221'	
Liners used			

GEOLOGICAL TARGET FORMATION Benson/Elk Depth 5200 feet

Depth of completed well 5618' feet Rotary XX / Cable Tools _____

Water strata depth: Fresh 72' damp feet; Salt -- feet

Coal seam depths: 680 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson* Pay zone depth 5080 feet

Gas: Initial open flow N/A Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 117.5 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 1 3/4 hours

Static rock pressure 1710 psig (surface measurement) after 12 hours shut in

(If applicable due to multiple completion--)

Second producing formation Lower Riley * Pay zone depth 4995' 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 from formations comingled

FEB 14 1983

(Continue on reverse side)

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

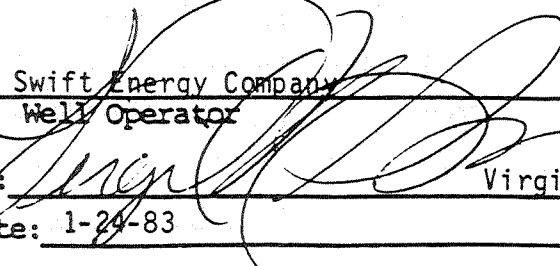
8-26-82 Benson - 5075'-5080', 400# 80-100 SD, 12,000# 20-40 SD, 500 GA, 300 BGW.

Lower Riley - 4992'-4998', 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 500 BGW.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	30	
Sand & Shale			30	680	
Coal			680	695	
Sand & Shale			695	1974	
Big Lime			1974	2037	
Big Injun			2037	2121	Wet at 2130'
Sand & Shale			2121	2487	
Sand (Gantz)			2487	2517	
Sand & Shale			2517	2702	
Sand (Gordon Stray)			2702	2726	
Sand & Shale			2726	2782	
Sand (Gordon)			2782	2813	
Sand & Shale			2813	4486	
Sand (Bradford)			4486	4496	
Sand & Shale			4496	4731	
Sand (Riley)			4731	4746	
Sand & Shale			4746	5612	
				T.D. 5618	Alexander @ 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."

Mineral Rights - (Excluding Coal)

Brent M. Estlack 3/8 Interest
c/o Sara B. Estlack
P.O. Box 156
Wallace, WV 26448

Goldie P. Smith, or her heirs 3/8 Interest
c/o Brent M. Estlack

Flossie M. Rithner, or her heirs 1/4 Interest
387 Adelaide N.E.
Warren, OH 44483

RECEIVED

JAN 31 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

FEB 14 1983



Date: July 12, 19 82

FORM IV-2 (Obverse) (12-81)

Operator's Well No. S. Estlack No. 1

API Well No. 47 021 017 3126

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: 1000.5' Watershed: Pike Fork District: McClellan County: Doddridge Quadrangle: Folsom 7.5 min WELL OPERATOR Swift Energy Company DESIGNATED AGENT Tim Bennett Address P.O. Box 2201 Clarksburg, WV 26301 Address 737 Karl Street Weston, WV 26452

OIL & GAS ROYALTY OWNERS Sara B. Estlack, et al Address P.O. Box 156 Wallace, WV 26448 Acreage 136.0 SURFACE OWNER R.M. & E.L. Burdette Address Acreage 144.625

COAL OPERATOR Address COAL OWNER(S) WITH DECLARATION ON RECORD: Name V.A. Tetrick Heirs % W.G. Tetrick, Sr. Address Box 267 Clarksburg, WV 26301 Name Address

FIELD SALE (IF MADE) TO: Address Unknown

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Steven Casey Address Route 2 Box 232-D 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 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 JUL 23 1982 OIL & GAS DIVISION DEPT. OF MINES BLANKET BOND

Swift Energy Company Well Operator By Its

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, 5200 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 60 feet; salt, -- feet.

Approximate coal seam depths: 601 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	1 1/4	H-40	42#		X	30	30		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8-5/8	J-55	23#	X		1100	1100	Circulate	
Production	4-1/2	J-55	10.5#	X			5100		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 3-26-83
BY [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 _____

[Handwritten signature]