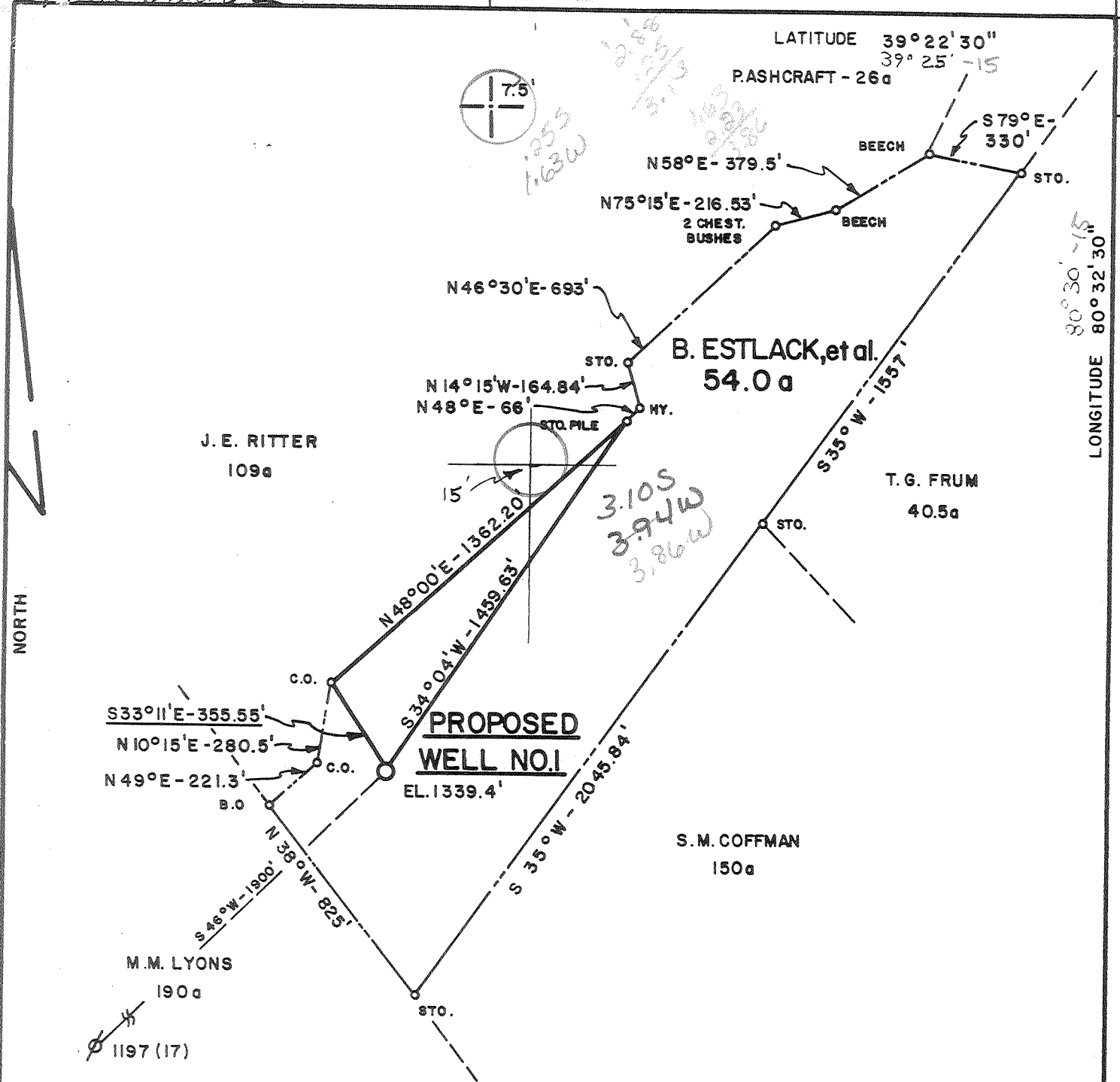


M.L. 7/26/82

Plot Card 550

8600'

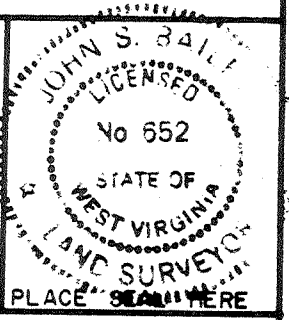
1350'



PREPARED BY MOUNTAIN STATE ENVIRONMENTAL SERVICE

FILE NO. MSES NO. 82-68
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION RD. JCT. RT. 16 & 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 - 14, 19 82
 OPERATOR'S WELL NO. B. ESTLACK NO. 1
 API WELL NO. 47 - 017 - 3125
 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 1339.4' WATER SHED LEFT PRONG
 DISTRICT Mc CLELLAN COUNTY DODDRIDGE
 QUADRANGLE SALEM, 7.5' (1976)
 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 5500'
 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



IV-35
(Rev 8-81)

RECEIVED

JAN 31 1983

State of West Virginia

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Department of Mines
Oil and Gas Division

Date December 10, 1982
Operator's
Well No. B. Estlack No. 1
Farm _____
API No. 47 - 017 - 3125

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: 1139.4' Watershed Left Prong
District: McClelland County Doddridge Quadrangle Salem 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 D. Webb & N.J. Webb
ADDRESS 214 Layton Ave., Wyoming, Delaware 19934
MINERAL RIGHTS OWNER Sarah B. Estlack et al
(excluding coal)
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 26378
PERMIT ISSUED 7-23-82
DRILLING COMMENCED 9-23-82
DRILLING COMPLETED 9-29-82

Casing Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
13-10"			
9 5/8			
8 5/8	1695	1695	400
7			
5 1/2			
4 1/2		5530	618
3			
2 3/8"		5378	
Liners used			

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

GEOLOGICAL TARGET FORMATION Benson/Elk Depth 5500 feet
Depth of completed well 5818 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Benson Pay zone depth 5409 - 5414 feet
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 90 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1325 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

FEB 14 1983

(Continue on reverse side)

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

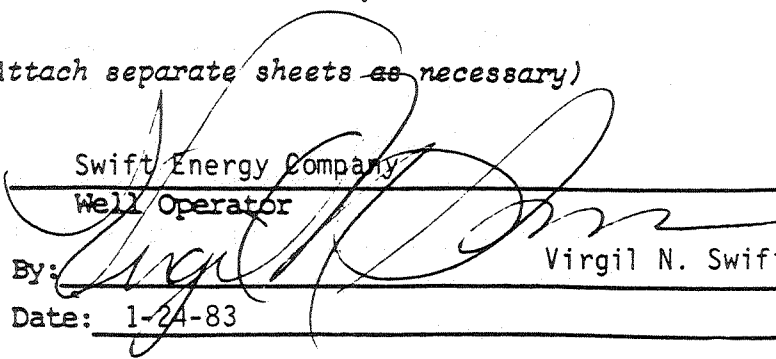
10-22-82 Benson - 5409'-5416', 10,000# 80-100 SD, 32,500# 20-40 SD, 500 GA, 500 BGW

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sandstone & Shale			0	100	
Red Rock			100	190	
Sandstone & Shale			190	2000	
Sandstone & Shale			2000	2280	
Big Lime			2280	2372	
Big Injun			2372	2452	
Sandstone & Shale			2452	3042	
Sandstone (Gordon Stray)			3042	3075	
Sandstone & Shale			3075	5113	
Sandstone (Riley)			5113	5138	
Sandstone & Shale			5138	5404	
Sandstone (<u>Benson</u>)			5404	5442	
Sandstone & Shale			5442	5818	
				TD	alexander @ T.O.

(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."



Date: July 14, 19 82

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

API Well No. 47 - 017 - 3125

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: 1339.4 Watershed: Left Prong
District: McClellan County: Doddridge Quadrangle: Salem 7.5 min.

WELL OPERATOR Swift Energy Company DESIGNATED AGENT Tim Bennett
Address P. O. Box 2201 Address 737 Karl Street
Clarksburg, WV 26301 Weston, WV 26452

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

ACREAGE 54.0 COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER D. Webb and N. J. Webb Name Virginia A. Tetrick, Heirs
Address 214 Layton Avenue c/o W. G. Tetrick, Jr.
Wyoming, Delaware 19934 Address Box 267
Clarksburg, WV 26301

FIELD SALE (IF MADE) TO: Name
Address Unknown Address

OIL & GAS INSPECTOR TO BE NOTIFIED COAL LESSEE WITH DECLARATION ON RECORD:
Name Steven Casey Name
Address Route 2 Box 232-D 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
by 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 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
JUL 23 1982
OIL & GAS DIVISION
DEPT. OF MINES
BLANKET BOND

Swift Energy Company
Well Operator
By Tim Bennett
Its Designated Agent

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, 5500 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 20 - 80 feet; salt, -- feet.

Approximate coal seam depths: 906 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		1500	1500	Circulate	
Production	4-1/2"	J-55	10.5#	X			5400		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 _____