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IV-35  
(Rev 8-81)

JAN 31 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 10, 1982  
Operator's  
Well No. S. Estlack No. 2  
Farm \_\_\_\_\_  
API No. 47 - 017 - 3141

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: 990.9' Watershed Pike Fork  
District: McClellan County Doddridge Quadrangle Folsom 7.5'

COMPANY Swift Energy Company  
ADDRESS P.O. Box 2201  
Clarksburg WV  
DESIGNATED AGENT Tim Bennett  
ADDRESS 737 Karl St., Weston, WV 26452  
SURFACE OWNER Richard M. & Ethel L. Burdette  
ADDRESS \_\_\_\_\_  
MINERAL RIGHTS OWNER Sarah B. Estlack, et al  
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 26378  
PERMIT ISSUED 9-15-82  
DRILLING COMMENCED 10-05-82  
DRILLING COMPLETED 10-09-82  
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	1400	1400	350
7			
5 1/2			
4 1/2		5137	540
3			
2 3/8"		4931	
Liners used			

GEOLOGICAL TARGET FORMATION Benson/Elk Depth 5200 feet  
Depth of completed well 5258 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh Damp @ 72' feet; Salt \_\_\_\_\_ feet  
Coal seam depths: 689 - 697 Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Benson Pay zone depth 5043-4949 feet  
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 133 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1550 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

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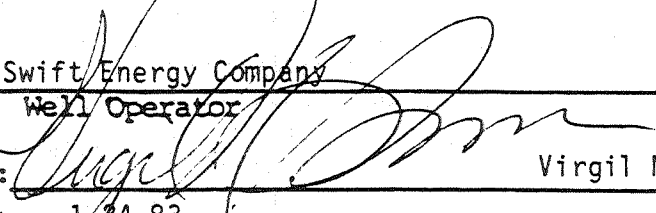
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

11-4-82 Benson - 4949' - 4954', 4958' - 4960', 5035' - 5043', 12,000#  
80-100 SD, 40,000 #20-40-SD, 500 GA, 25,000 SCF N<sub>2</sub>, 80 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
Sandstone & Shale			0	689	
Coal			689	697	
Sandstone & Shale			697	1900	Damp at 72' Damp at 1788'
Sandstone & Shale			1900	1943	
Big Lime			1943	1993	Gas Check at 1604' no show
Big Injun			1993	2074	Gas Check at 2730' no show
Sandstone & Shale			2074	2457	Gas Check at 2887' 18/10-2" water
Sandstone (Gantz)			2457	2489	Gas Check at 3731' 13/10-2" water
Sandstone & Shale			2489	2662	Gas Check at 4514' 16/10-2" water
Sandstone (Gorden Stray)			2662	2698	Gas Check at 5013' 16/10-2" water
Sandstone & Shale			2698	3682	
Sandstone (Speechley)			3682	3714	
Sandstone & Shale			3714	5034	
Sandstone (Benson)			5034	5092 TD	
				TD. 5258	

(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."



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, 5200 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 50 feet; salt, -- feet.

Approximate coal seam depths: 596 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		1100	1100	Circulate	
Production	4-1/2"	J-55	10.5#	X			5100	400 sks. <i>Depth est. req. by Rule 15.01</i>	
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 5-17-83  
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 \_\_\_\_\_