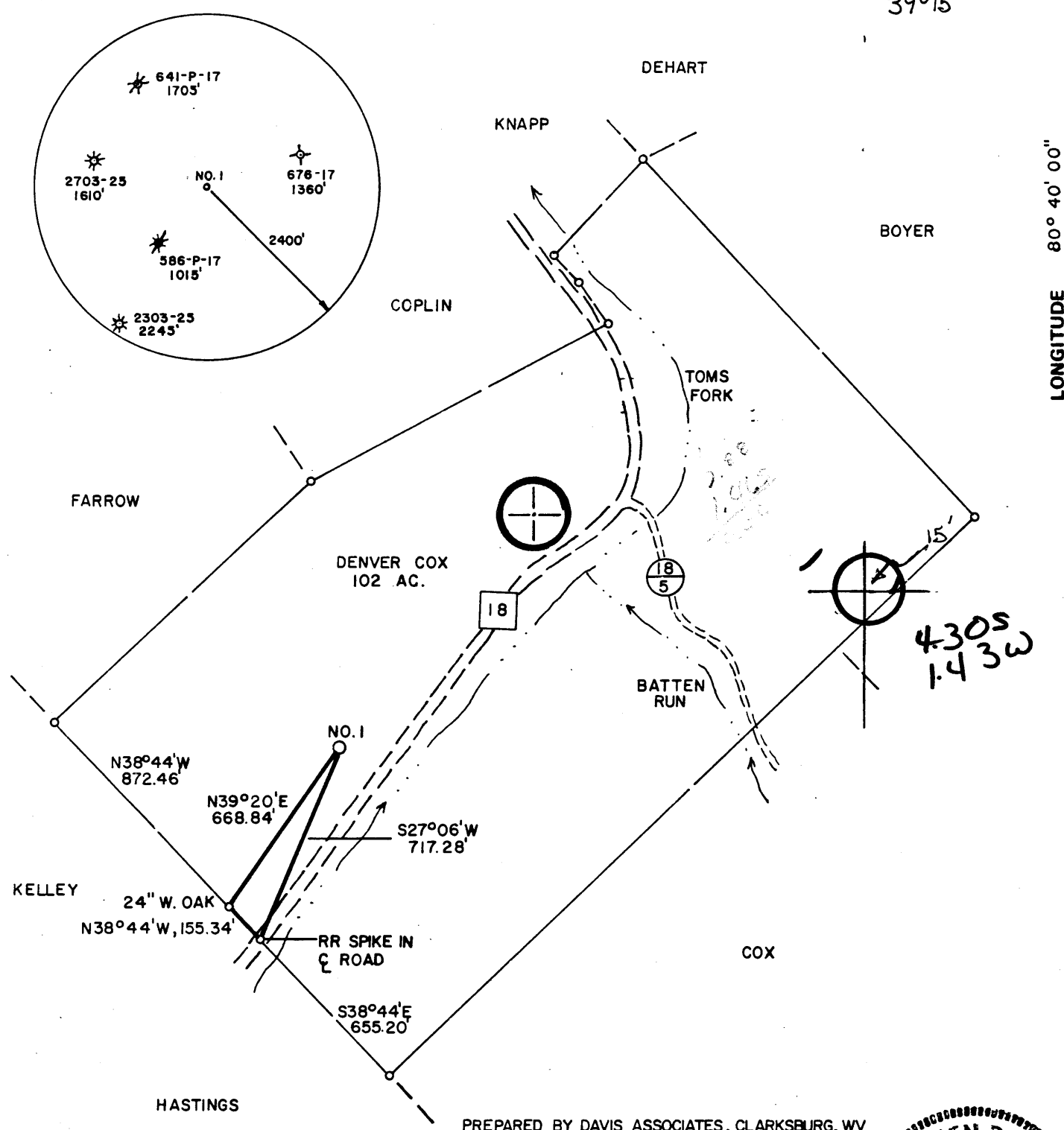


Plot of 10/27/82

LATITUDE 39° 12' 30"  
39° 15'

LONGITUDE 80° 40' 00"

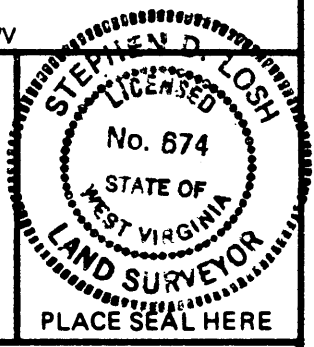
NORTH



PREPARED BY DAVIS ASSOCIATES, CLARKSBURG, WV

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 1000'SW  
 OF LOCATION ELEV. - 873'

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) Stephen D. Losh  
 R.P.E. \_\_\_\_\_ L.L.S. 674



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE OCTOBER 4, 19 82  
 OPERATOR'S WELL NO. DENVER COX B-1  
 API WELL NO. 47-017-3169  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 956' WATER SHED TOMS FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5 min. Quad 15'NW  
 SURFACE OWNER DENVER COX ACREAGE 102  
 OIL & GAS ROYALTY OWNER DENVER COX LEASE ACREAGE 207  
 LEASE NO. 49-0357 A-E  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) NOV 1 1982

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5300' 6-6  
 WELL OPERATOR SWIFT ENERGY COMPANY DESIGNATED AGENT TIM BENNETT Port Rico (Stout)  
 ADDRESS BOX 2201 CLARKSBURG, WV 26301 ADDRESS BOX 2201 (134)

# RECEIVED



IV-55 B 14 1983  
 (Rev 8-81)  
 OIL AND GAS DIVISION  
 WV DEPARTMENT OF MINES

Date February 7, 1983  
 Operator's B. Cox "B" No. 1  
 Well No. \_\_\_\_\_  
 Farm \_\_\_\_\_  
 API No. 47 - 017 - 3169

State of West Virginia  
 Department of Mines  
 Oil and Gas Division

FEB 21 1983

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: 956 Watershed Tom's Fork  
 District: New Milton County Doddridge Quadrangle New Milton 7½'

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 Denver Cox, et al  
 ADDRESS Rt. 1, Box 41, New Milton, WV  
 MINERAL RIGHTS OWNER Denver Cox, et al  
 ADDRESS Rt. 1, Box 41, New Milton, WV  
 OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
 Stephen Casey ADDRESS Jane Lew, WV  
 PERMIT ISSUED 10-14-82  
 DRILLING COMMENCED 11-02-82  
 DRILLING COMPLETED 11-08-82

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	1329	1329	330
7			
5 1/2			
4 1/2		5485	140
3			
2 3/8		5450	
Liners used			

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

GEOLOGICAL TARGET FORMATION Alexander Depth 5300 feet  
 Depth of completed well 5571 feet Rotary XX / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh 90 feet; Salt 1500 feet  
 Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA *See back*  
 Producing formation Benson\* Pay zone depth 5000 feet  
 Gas: Initial open flow N/A Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 1164 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 4 hours  
 Static rock pressure 2010 psig (surface measurement) after 12 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation Alexander Pay zone depth 5290 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.

11-29-82

Alexander - 5290-5293, 5295-5300, 5301-5303, 5308-5311, 5342-5344,  
5347-5352, 12,000# 80-100 SD, 40,000# 20-40 SD, 25,000 SCF N<sub>2</sub>, 90 BW, 500 GA.

Benson - 5000-5006, 10,000# 80-100 SD, 32,500# 20-40 SD, 20,000 SCF N<sub>2</sub>, 500 GA,  
90 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
Soil			0	80	
Sandstone & Shale			80	1970	
Maxton Sand			1970	2000	
Limestone (Little Lime)			2064	2030	
Sandstone			2030	2064	
Limestone (Big Lime)			2064	2109	
Big Injun Sandstone			2109	2204	
Sandstone & Shale			2204	2883	
Fifth (Sandstone)			2883	2899	
Sandstone & Shale			2899	5000	
Sandstone (Benson)			5000	5032	
Sandstone & Shale			5032	<u>5571</u>	
			Alexander @ T.D.	T.D.	

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY  
Well Operator  
By: Virgil N. Swift Virgil N. Swift  
Date: February 7, 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 sand, encountered in the drilling of a well."



1) Date: October 10, 1982  
 2) Operator's Well No. 60733  
 3) API Well No. 47  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

DRILLING CONTRACTOR:

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas \_\_\_\_\_  
 B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow \_\_\_\_\_)
- 5) LOCATION: Elevation: \_\_\_\_\_ Watershed: \_\_\_\_\_  
 District: \_\_\_\_\_ County: \_\_\_\_\_ Quadrangle: \_\_\_\_\_
- 6) WELL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_
- 7) OIL & GAS ROYALTY OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 Acreage \_\_\_\_\_
- 8) SURFACE OWNER \_\_\_\_\_  
 Address \_\_\_\_\_  
 Acreage \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO:  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 11) DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_
- 12) COAL OPERATOR \_\_\_\_\_  
 Address \_\_\_\_\_
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill \_\_\_\_\_ / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, \_\_\_\_\_
- 17) Estimated depth of completed well, \_\_\_\_\_ feet
- 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No \_\_\_\_\_

OIL & GAS DIVISION  
DEPT. OF MINES

20) 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									Kinds	
Fresh water									Sizes	
Coal									Depths set	
Intermediate									Perforations:	
Production									Top Bottom	
Tubing										
Liners										

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary: \_\_\_\_\_  
 My Commission Expires \_\_\_\_\_

Signed: \_\_\_\_\_  
 Its: \_\_\_\_\_

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-417-3169 Date 10-10-82

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires \_\_\_\_\_ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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*James B. Russell*  
 Administrator, Office of Oil and Gas