

SMITH, TRACT  
DB-75 P-506  
COAL SURVEY

Minimum Error of Closure Less than 1 in 7,200

Source of Elevation USGS BM#165 RHP on Pickenpaw Run Road  
Elev. = 980 (979.89)

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: *C. D. Locke*  
Squares: N S E W

Company	US Dept of Energy Department of Energy		
Address	P. O. Box 880 Morgantown, WV 26505		
Farm	Walter B. Smith		
Tract	Acres	15	Lease No.
Well (Farm) No.	H-1	Serial No.	
Elevation (Spirit Level)	1053.40		
Quadrangle	Glover Gap, W. Va. (7.5'), MANNINGTON 15'		
County	Wetzel	District	Grant
Surveyor	C. D. Locke		
Surveyor's Registration No.	6981 O. & G. E.		
File No.	Drawing No.		
Date	October 25, 1977 Scale 1" = 400'		

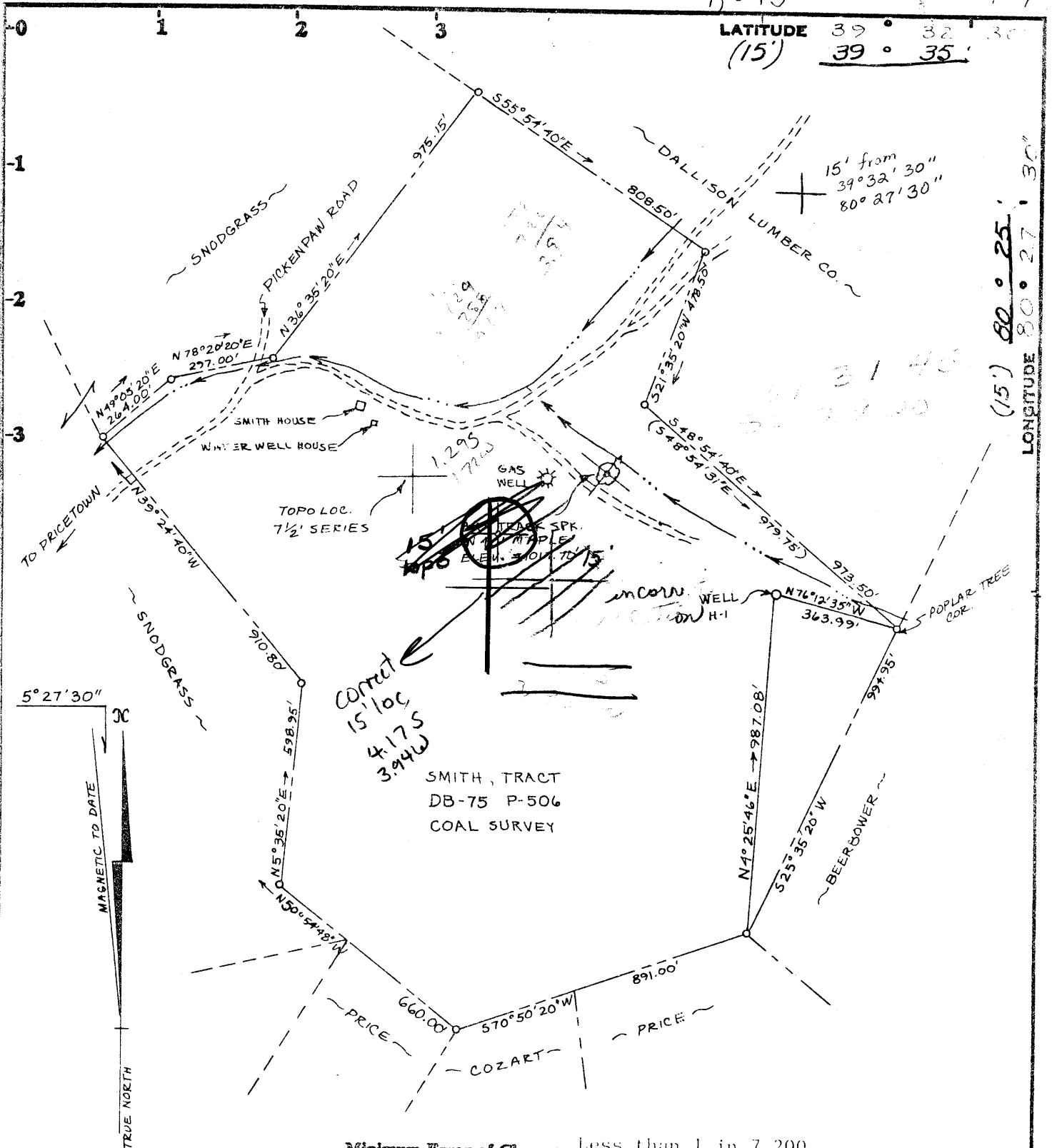
**STATE OF WEST VIRGINIA**  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

**WELL LOCATION MAP**  
FILE NO. WET-640 - P

+ Denotes location of well on United States Topographic Maps, scale 1 to <sup>62500</sup>/<sub>24,000</sub>, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border of original tracing.

47-103 23 1982



LATITUDE 39° 32' 30" (15') 39° 35'

LONGITUDE 80° 27' 30" (15') 80° 25'

6,825

Minimum Error of Closure Less than 1 in 7,200

Source of Elevation USGS BM#165 RHP on Pickenpaw Run Road Elev. = 980 (979.89)

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: \_\_\_\_\_  
Squares: N S E W

Company US Dept of Energy  
 Address P. O. Box 880 Morgantown, WV 26505  
 Farm Walter B. Smith  
 Tract \_\_\_\_\_ Acres 15 Lease No. \_\_\_\_\_  
 Well (Farm) No. II-1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1053.70 SW  
 Quadrangle Glover Gap, W. Va. (7.5'), MANNINGTON 15'  
 County Wetzel District Grant  
 Surveyor C. D. Locke  
 Surveyor's Registration No. 6981 O. & G. E.  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date October 25, 1977 Scale 1" = 400'

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

### WELL LOCATION MAP

FILE NO. WET-640

+ Denotes location of well on United States Topographic Maps, scale 1 to 52500, latitude and longitude lines being represented by border lines as shown.

NOV 22 1977

- Denotes one inch spaces on border line of original tracing.

47-103

915' Frederick 7-0 Seven Pine (55) (101)



RECEIVED

FEB 23 1978

STATE OF WEST VIRGINIA OIL & GAS DIVISION  
 DEPARTMENT OF MINES  
 OIL AND GAS WELLS DIVISION

Rotary   
 Mud   
 Cable Tools   
 Storage   
 Coal   
 Oil or Gas Well Research (KIND)

Quadrangle Glover Gap (7.5')

Permit No. WET-640

WELL RECORD <sup>20</sup>

Company U.S. Dept. of Energy, Morgantown Energy Research Center  
 Address P.O. Box 880, Morgantown, WV 26505  
 Farm Walter B. Smith Acres 15  
 Location (waters) Headwaters of Pickenpaw Run  
 Well No. Smith-DOE-H-1 Elev. 1053.4  
 District Grant County Wetzel  
 The surface of tract is owned in fee by Walter B. Smith  
 Address Smithfield, WV 26437  
 Mineral rights are owned by Mr. & Mrs. Rex Smith  
 Address Smithfield, WV 26437  
 Drilling commenced November 10, 1977  
 Drilling completed November 22, 1977  
 Date Shot From To  
 With  
 Open Flow /10ths Water in Inch  
 /10ths Merc. in Inch  
 Volume Cu. Ft.  
 Rock Pressure lbs. hrs.  
 Oil bbls., 1st 24 hrs.  
 WELL ACIDIZED (DETAILS)  
 WELL FRACTURED (DETAILS)

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
<del>8</del> 8-5/8"	200'	200'	Depth set
6"			
<del>5</del> 5-1/2"	907.7'	907.7'	18 holes Perf. top 903.2 Perf. bottom 907.7
4 1/2"			
3			
2			
Liners Used			Perf. top Perf. bottom
Attach copy of cementing record. 8-5/8"-200' 11-12-77 5-1/2"-907.7' 11-16-77 CASING CEMENTED SIZE No. Ft. Da (bulk) 8-5/8" - 105 sacks Amount of cement used <del>155</del> 5-1/2" - 155 sacks Name of Service Co. Halliburton COAL WAS ENCOUNTERED AT 398 FEET INCHES 476 FEET INCHES 530 FEET INCHES 797 FEET INCHES 901 FEET INCHES			

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT HOURS

Fresh Water Feet Salt Water Feet

Producing Sand Pittsburgh Coal Seam Depth 901 - 908

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Unconsolidated Sediments	---	---	0	10			
Siltstone & Shale			10	36			
Siltstone, Calc.			36	43			
Siltstone & Shale			43	105			
Sandstone			105	117			
Shale & Siltstone			117	152			
Sandstone			152	160			
Shale & Siltstone			160	190			
Sandstone			190	200			

Formation	Color	Hard or Soft	Top Feet <sup>20</sup>	Bottom Feet	Oil, Gas or Water	* Remarks
Lime Siltstone & Shale			200	221		
Sandstone			221	230		
Shale			230	233		
Sandstone			233	248		
Lime Shale			248	298		
Siltstone & Shale			298	321		
Lime Shale			321	342		
Siltstone & Shale			342	355		
Sandstone			355	372		
Siltstone & Shale			372	398		
Washington Coal			398	402		
Limestone & Shale			402	476		
Waynesburg "A" Coal			476	479		
Limestone			479	496		
Shale			496	507		
Limestone			507	519		
Waynesburg Sandstone			519	530		
Shale			530	533		
Waynesburg Coal			533	536		
Shale & Limestone			536	797		
Sewickley Coal			797	801		
Limestone & Shale			801	901		
Pittsburgh Coal			901	908		
Shale			908	928		

Date February 22, 19 78

APPROVED U.S. Department of Energy Owner  
(Morgantown Energy Research Center)

By G. E. Rennick  
(Title)

G. E. Rennick, Petroleum Engineer



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

NOV 7 - 1977

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE October 26, 1977

Surface Owner Mr. Walter B. Smith  
Address Smithfield, WV 26437  
Mineral Owner Mr. & Mrs. Rex Smith  
Address Smithfield, WV 26437  
Coal Owner Consolidation Coal Company  
Address P. O. Box 1632, Fairmont, WV 26554  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

Company U. S. Department of Energy (DOE)  
Address Morgantown Energy Research Center  
P. O. Box 880, Morgantown, WV 26505  
Farm Walter B. Smith Acres 15  
Location (waters) Pickenpaw Run  
Well No. Smith-DOE-H-1 Elevation 1053.4'  
District Grant County Wetzel  
Quadrangle Glover Gap (7.5')

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,  
of the W. Va. Code, the location is hereby approved  
for drilling. This permit shall expire if  
operations have not commenced by 3-7-78.

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Phillip Tracy  
PH: 758-4573 ADDRESS Middlebourn, W. Va.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for research purposes  
cooperative agreement title thereto, (or as the case may be) under ~~grant~~ dated 14 June 19 74 by Consolidation Coal  
Continental Oil Co. made to The U. S. of America and recorded on the Fourth day of March  
1977, in Wetzel County, Book #45 Page 173

XXX NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505

Address  
of  
Well Operator

Very truly yours,  
(Sign Name) L. D. Strickland  
Well Operator L. D. Strickland

Morgantown Energy Research Center  
Street  
P. O. Box 880  
Morgantown  
City or Town  
West Virginia 26505  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

PROPOSED WORK ORDER TO XXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Paramount Exploration, Inc. NAME L. D. Strickland  
 ADDRESS P. O. Box 551 ADDRESS P. O. Box 880  
Waynesburg, PA 15370 Morgantown, WV 26505  
 TELEPHONE (412) 627-6144 TELEPHONE (304) 599-7494  
 ESTIMATED DEPTH OF COMPLETED WELL: 915 ft. ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Pittsburgh coal  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_\*

TENTATIVE CASING PROGRAM: \*Underground Coal Gasification Research

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	365 ft.	365 ft.	Surface to 365 ft.
7			
5 1/2	900 ft.	900 ft.	Surface to 900 ft.
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 900 ft.  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

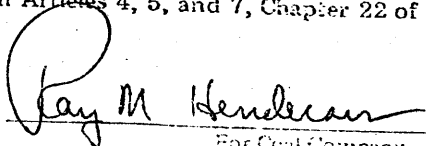
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Consolidation Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Consolidation Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

  
 For Coal Company  
 Regional Mgr. Engineering and Economic Affairs  
 Official Title

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

RECEIVED

OCT 25 1982

AFFIDAVIT OF PLUGGING AND FILLING WELL

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE. ONE COPY MAILED TO THE DEPARTMENT. ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Consolidation Coal Company  
COAL OPERATOR OR OWNER  
Northern West Virginia Region  
P.O. Box 1314, Morgantown, WV 26505  
ADDRESS  
COAL OPERATOR OR OWNER  
ADDRESS  
Mr. Walter B. Smith  
LEASE OR PROPERTY OWNER  
Smithfield, WV 26437  
ADDRESS

U.S. Department of Energy  
NAME OF WELL OPERATOR  
P.O. Box 880, Morgantown, WV 26505  
COMPLETE ADDRESS  
September 29 19 82  
WELL AND LOCATION  
Grant District  
Wetzel County  
Well No. H-1  
Walter B. Smith Farm

STATE INSPECTOR SUPERVISING PLUGGING Robert A. Lowther

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Wetzel } ss:

Clark Industries, Inc. and Continental Drilling - U.S.  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by U.S. Department of Energy, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 15 day of September, 19 82, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			SSS PULLED	SSS LEFT IN
884' - 784'	Class A Neat Cement	11 sx.		8 5/8" - 200'
784' - 82'	Common Gel			5 1/2" - 908'
82' - -2'	Class A Neat Cement	9 sx.		
Note: Well casing cut off 2 feet below surface.				
COAL SEAMS		DESCRIPTION OF MONUMENT		
(NAME)		Well location is referenced from monument erected on Well M-3		
(NAME)		103-0636-P		
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 16 day of September, 19 82

And further deponents saith not.

Sworn to and subscribed before me this 12 day of New Alexandria Borough, Westmoreland County, 19 82

My commission expires: May 9, 1983

COLLEEN L. SCHAEFFER, Notary Public  
My Commission Expires May 9, 1983  
Notary Public

Permit No. 103-640-P

WET-640 P