

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.

Signed: *L. D. Strickland*

- Fracture
- New Location
- Drill Deeper
- Abandonment

Map No.

Squares: N S E W

Company U. S. Department of Energy  
 Address P. O. Box 880, Morgantown, WV 26505  
 Farm Walter B. Smith  
 Tract \_\_\_\_\_ Acres 15 Lease No. \_\_\_\_\_  
 Well (Farm) No. HQ-1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1052.34  
 Quadrangle Glover Gap, WV (7.5'), MANNINGTON 15min  
 County Wetzel District Grant  
 Surveyor L. D. Strickland  
 Surveyor's Registration No. 5927  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 11-11-77 Scale 1" = 400'

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

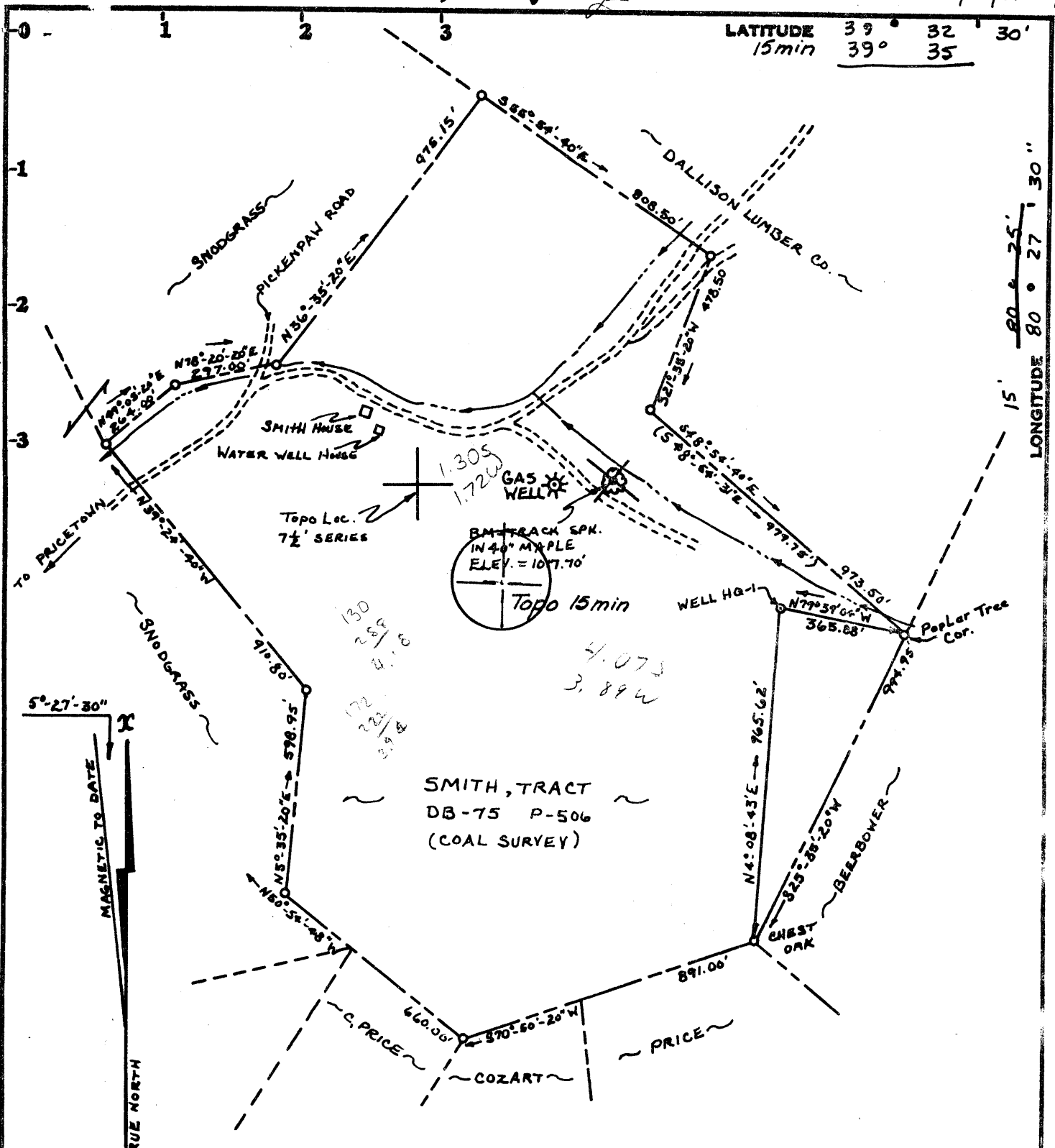
**WELL LOCATION MAP**

SW FILE NO. WET-642 -P

+ Denotes location of well on United States Topographic Maps, scale 1 to ~~62,500~~ <sup>24,000</sup>, latitude and longitude lines being represented by border lines as shown.

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

AUG 23 1982  
47-103



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47-103 JAN 13 1978



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

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

Quadrangle Glover Gap (7.5')

WELL RECORD //

Permit No. WET-642

Company U.S. Dept. of Energy/MERC  
Address P. O. Box 880, Morgantown, WV 26505  
From Walter B. Smith Acres 15  
Location (waters) Headwaters of Pickenpaw Run  
Well No. Smith-DOE-HQ-1 Elev. 1052.34  
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 April 4, 1978  
Drilling completed April 21, 1978  
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			Size of
10			Depth set
8 1/4			
6 3/8			
5 3/16	9 feet	9 feet	
4 1/2			
2 7/8 OD	904.3 ft.	904.3 ft.	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.  
2 7/8" - 902.6'  
CASING CEMENTED SIZE No. Ft. 5/2/78 D  
Amount of cement used bulk 50 sacks  
Name of Service Co. Halliburton  
COAL WAS ENCOUNTERED AT 396 FEET INCH  
476 FEET INCHES 531 FEET INCH  
796 FEET INCHES 899 FEET INCH

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 899-907

Formation	Color	Hard or Soft	(ft.) Top	(ft.) Bottom	Oil, Gas or Water	Depth	Remarks
Unconsolidated Sediments			0.0	10			
Siltstones & Shales			10	70			
Sandstone			70	74			
Siltstones & Shales			74	102			
Shale, Calcareous			102	115			
Siltstones & Shales			115	139			
Sandstone			139	144			
Siltstones & Shales			144	151			
Sandstone			151	155			
Siltstones & Shales			155	184			
Sandstone			184	195			

Formation	Color	Hard or Soft	Top Feet //	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			195	203		
Sandstone			203	215		
Siltstones & Shale			215	262		
Sandstone			262	265		
Siltstones & Shales			265	341		
Sandstone			341	344		
Shale			344	354		
Sandstone			354	373		
Shale			373	396		
Washington Coal			396	400		
Shale, Calcareous			400	433		
Silty Sandstone			433	451		
Siltstones & Shales			451	476		
Waynesburg A Coal			476	477		
Shale & Limestone			477	482		
Sandstone			482	486		
Shale			486	515		
Waynesburg Sandstone			515	529		
Shale, Calcareous			529	531		
Waynesburg Coal			531	534		
Siltstone			534	565		
Sandstone			565	574		
Shale			574	606		
Sandstone			606	613		
Shale & Limestone			613	679		
Shale			679	696		
Limestone			696	722		
Shale & Limestone			722	730		
Limestone			730	793		
Shale			793	796		
Sewickley Coal			796	798		
Limestones & Shales			798	815		
Shale			815	837		
Limestones & Shales			837	895		
Shale			895	899		
Pittsburgh Coal			899	907		
Shale			907	925		

Date May 24, 1978

U.S. Department of Energy

APPROVED (Morgantown Energy Res. Cntr.) Owner

By G. E. Rennick  
(Title)  
G. E. Rennick, Petroleum Engineer



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

**RECEIVED**  
DEC 22 1977  
OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 23, 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. Dept. of Energy (DOE)  
Address Morgantown Energy Research Center  
P. O. Box 880, Mgt'n, WV 26505  
Farm Walter B. Smith Acres 15  
Location (waters) Pickenpaw Run  
Well No. Smith-DOE-HQ-1 Elevation 1052.34  
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 4-29-78.

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  
title thereto, (or as the case may be) under cooperative agreement dated 14 June 1974 by Consolidation Coal Co.  
made to the U.S. of America and recorded on the fourth day of March  
1977, in Wetzel County, Book Miscellaneous #45 Page 173

XXXX 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.

Very truly yours,

(Sign Name) \_\_\_\_\_

Well Operator L. D. Strickland

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

Morgantown Energy Research Center  
Street

P. O. Box 880, Morgantown  
City ~~XXXXXX~~

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.

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO XXXX DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME Paramount Exploration, Inc. NAME L. D. Strickland  
 ADDRESS P. O. Box 551, Waynesburg, PA 15370 ADDRESS P. O. Box 880 Morgantown, WV 26505  
 TELEPHONE 412/627-6144 TELEPHONE 304/599-7494  
 ESTIMATED DEPTH OF COMPLETED WELL: 920 feet ROTARY XXX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Pittsburgh Coal  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ \*OTHER XXX

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			
7			
5 1/2	20 feet	20 feet	Surface to 20 feet
4 1/2			
3			
2 - 7/8" flush joint	900 feet	900 feet	Perf. Top Excl. Bottom surf. to 900
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 40 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS 900 feet \_\_\_\_\_  
 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.

*Ray M. Henderson*  
 For Coal Company  
*Regional Council of Engineering and*  
 Official Title *Environment and aff.*

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 TRIPLICATE. 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

U.S. Department of Energy  
NAME OF WELL OPERATOR  
P.O. Box 880, Morgantown, WV 26505  
COMPLETE ADDRESS

COAL OPERATOR OR OWNER  
ADDRESS

September 29 19 82  
WELL AND LOCATION

Walter B. Smith  
LEASE OR PROPERTY OWNER  
Smithfield, WV 26437  
ADDRESS

Grant District  
Wetzel County

Well No. HQ-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 14 day of September, 19 82, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			FEET PULLED	FEET LEFT IN
FORMATION 850' - -2'	Class A Neat Cement	SIZE & KIND 22 sx.		4 1/2" - 9' 2 7/8" - 904'
	Note: Well casing cut off 2 feet below surface.			
COAL SEAMS			DESCRIPTION OF MONUMENT	
(NAME)			Well location is referenced from	
(NAME)			monument erected on Well M-3	
(NAME)			103-0636-P	
(NAME)				

and that the work of plugging and filling said well was completed on the 14 day of September, 19 82

And further deponents saith not.

Sworn to and subscribed before me this 12 day of October, 1982

My commission expires: May 9, 1983

*Colleen L. Schaeffer*  
COLLEEN L. SCHAEFFER, Notary Public  
New Alexandria Borough  
Westmoreland County  
My Commission Expires May 9, 1983  
Notary Public  
Permit No. 103-642-P

WET-642 P