

LATITUDE 39° 32' 30" (15')
39° 35'

LONGITUDE 80° 27' 30" (15')

SMITH TRACT
DB-75 P. 506
(COAL SURVEY)

BM = TRACK SPK.
IN 40" MAPLE
ELEV. = 1017.70
15'

Minimum Error of Closure Less Than 1 in 7,200

Source of Elevation U.S.G.S BM#165 RHP ON Pickenpaw Run Road

Elev. = 980.00 (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: John W. Horne

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

Map No.

Squares: N S E W

Company U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
Address P.O. BOX 880, MORGANTOWN, W.VA. 26505
Farm WALTER B. SMITH
Tract _____ Acres 15 Lease No. _____
Well (Farm) No. PT-1 Serial No. _____
Elevation (Spirit Level) 1995.26, MANNINGTON 15'
Quadrangle GLOVER GAP W.VA. (7.5')
County WETZEL District GRANT
Surveyor John W. Horne
Surveyor's Registration No. W.VA. # 7254
File No. _____ Drawing No. _____
Date JAN. 10, 1977 Scale 1" = 400'

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

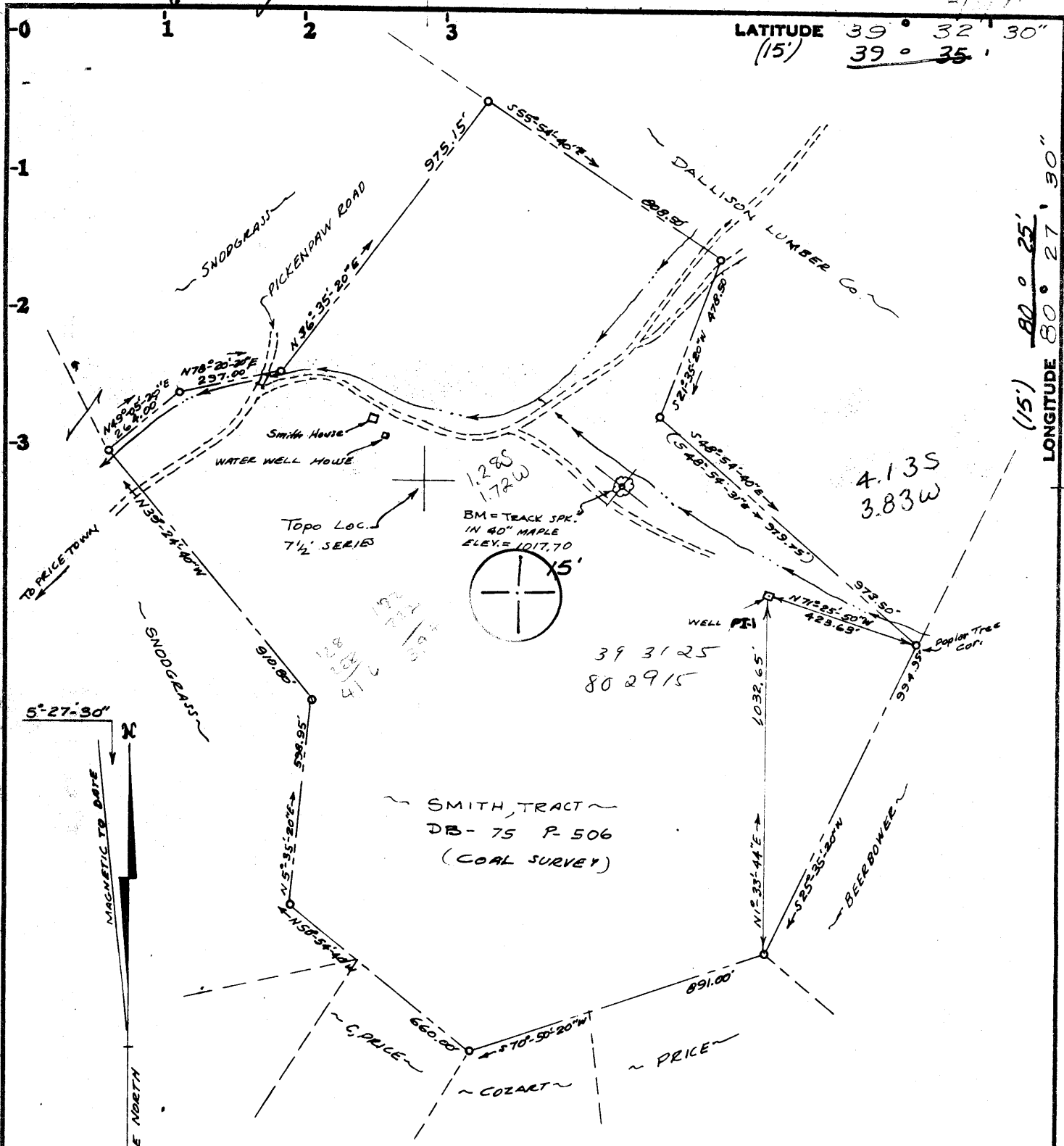
WELL LOCATION MAP
FILE NO. WET-625 - P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

AUG 23 1982

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

47-103



Minimum Error of Closure Less Than 1 in 7,200

Source of Elevation U.S.G.S BM #165 RHP on Pickenpaw Run Road
 Elev. = 980.00 (979.89)

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Signed: John W. Horne
 Squares: N S E W

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

Map No.

Company U.S. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
 Address P.O. BOX 880, MORGANTOWN, W.V.A. 26505
 Farm WALTER B. SMITH
 Tract _____ Acres 15 Lease No. _____
 Well (Farm) No. PT-1 Serial No. SW
 Elevation (Spirit Level) 1099.26 MANNINGTON 15'
 Quadrangle GLOVER GAP W.V.A. (7.5')
 County WETZEL District GRANT
 Surveyor John W. Horne
 Surveyor's Registration No. W.V.A. # 72 54
 File No. _____ Drawing No. _____
 Date JAN. 10, 1977 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. WET-625

+ Denotes location of well on United States Topographic Maps, scale 1 to $\frac{62,500}{2,000}$, latitude and longitude lines being represented by border lines as shown.

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

47-103



RECEIVED

JAN 11 1978

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

OIL & GAS DIVISION
DEPT. OF MINES

- Spudder
- Cable Tools
- Storage
- Coal

WELL RECORD #6

Quadrangle Glover Gap (7.5')

Permit No. WET-625

Oil or Gas Well Research (KIND)

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-ERDA-PI-1 Elev. 1049.26
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 September 25, 1977
Drilling completed October 2, 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 - 3/4"	191.81'	191.81'	Size of
8 1/4"			
7"	902.5'	902.5'	Depth set
5 3/16"			
4 1/2"			
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record. 10-3/4" - 191.81' - 9-26-
CASING CEMENTED 7" - 901' - 10-03-
Amount of cement used Bulk 10-3/4" - 120 sacks;
7" - 250 sacks
Name of Service Co. Halliburton

COAL WAS ENCOUNTERED AT FEET INCH
FEET INCHES FEET INCH
FEET INCHES 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 901-908

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Unconsolidated Sediments			0	10			
Siltstone & Shale			10	65			
Silty Sandstone			65	70			
Siltstone & Shale			70	105			
Silty Sandstone			105	109			
Siltstone & Shale			109	147			
Silty Sandstone			147	154			
Siltstone & Shale			154	200			
Siltstone, Calcareous			200	212			
Siltstone			212	218			

JAN 23 1978

Formation	Color	Hard or Soft	Top Feet ⁴⁸	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			218	224		
Siltstones & Shales			224	250		
Shales & Limestones			250	360		
Silty Sandstone			360	366		
Shale			366	395		
Washington Coal			395	399		
Calcareous Shales & Siltstones			399	472		
Waynesburg "A" Coal			472	474		
Shales, Calcareous			474	513		
Waynesburg Sandstone			513	525		
Waynesburg Coal			525	528		
Shales & Limestones			528	793		
Sewickley Coal			793	796		
Shales & Limestones			796	901		
Pittsburgh Coal			901	908		
Shale			908	926		

Date January 4, 19 78

APPROVED U. S. Department of Energy, Owner

By G. E. Rennick

(Title)
G. E. Rennick, Petroleum Engineer



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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AUG - 2 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.

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 _____

DATE July 26, 1977
Company U.S. Energy Research & Development Administration
Address P.O. Box 880, Morgantown, WV 265
Farm Walter B. Smith Acres 15
Location (waters) Pickenpaw Run
Well No. Smith-ERDA-PI-1 Elevation 1049.26
District Grant County Wetzel
Quadrangle Mannington

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 12-4-77.

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Phil 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~~ research purposes title thereto, (or as the case may be) under ~~grant or lease~~ cooperative agreement dated 14 June 1974 by Consolidation Coal Co. & Continental Oil 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

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 owners 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) _____

Well Operator L. D. Strickland

Morgantown Energy Research Center

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.

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

PROPOSED WORK ORDER TO XXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Paramount Exploration, Inc. NAME L. D. Strickland
P.O. BOX 551 P.O. BOX 880
 ADDRESS Waynesburg, PA. 15370 ADDRESS Morgantown, WV 26505
 TELEPHONE 412/627-6144 TELEPHONE 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)	200 ft.	200 ft.	Surface to 200 ft.
9 - 5/8			
8 - 5/8			
(7)	900 ft.	900 ft.	Surface to 900 ft.
5 1/2			
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.

Ray M. Henderson
 For Coal Company
Regional Manager of Engineering
 Official Title
 and Environmental Affairs

