

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 U.S. Energy Research & Development Administration
 Address P.O. Box 880, Morgantown, WV 26505
 Farm Walter B. Smith
 Tract _____ Acres 15 Lease No. _____
 Well (Farm) No. M-1 Serial No. _____
 Elevation (Spirit Level) 1049.96' MANNINGTON 15'
 Quadrangle Glover Gap, W.Va. (7.5')
 County Wetzel District Grant
 Surveyor C. D. Locke
 Surveyor's Registration No. 6981 O. & G.E.
 File No. _____ Drawing No. _____
 Date June 28, 1977 Scale 1" = 400'

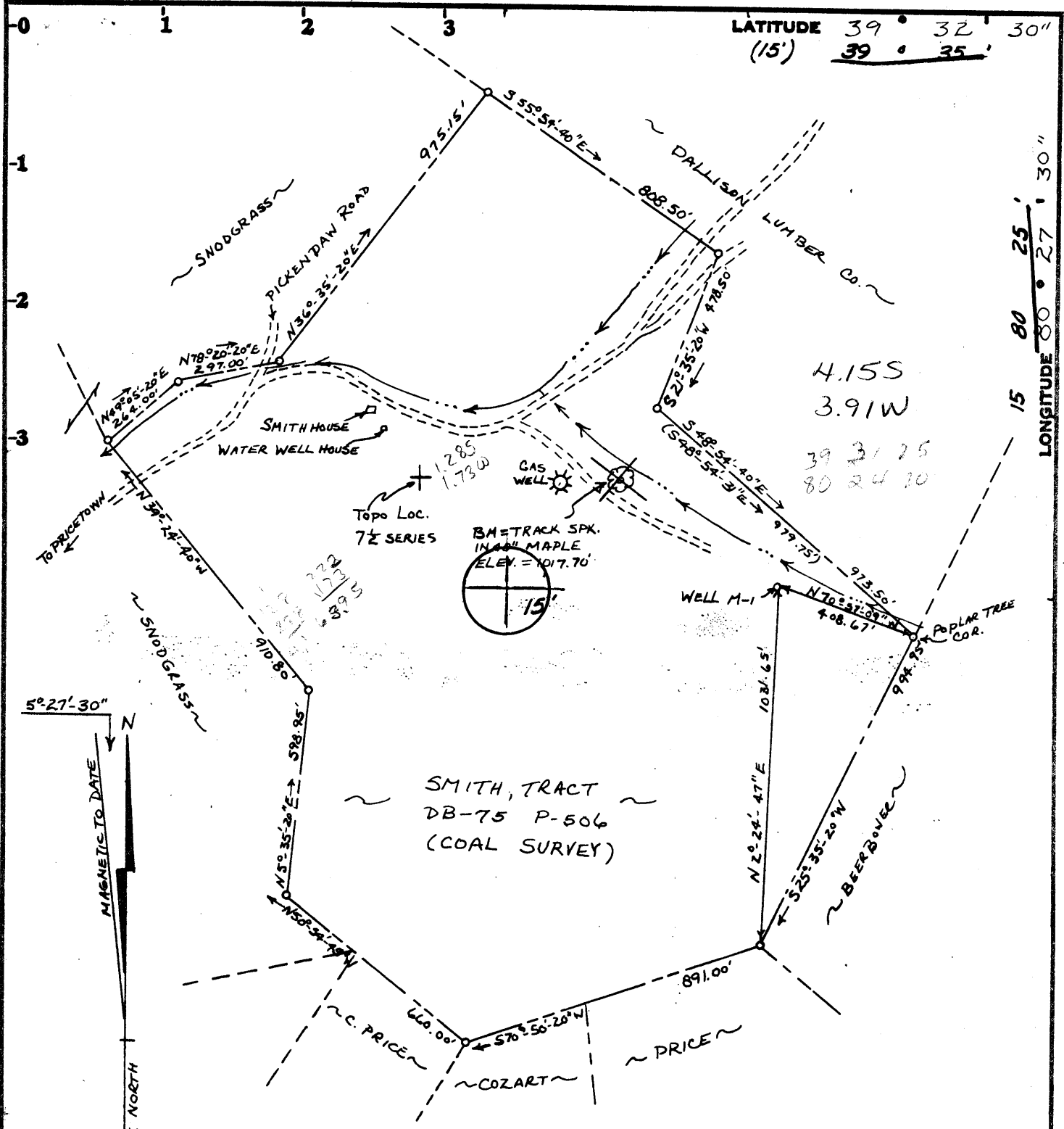
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
 FILE NO. WET-634-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 ^{25,000}, latitude and longitude lines being represented by border lines as shown.

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

AUG 29 1982
47-103



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Map No. _____

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 Address P.O. Box 880, Morgantown, WV 26505
 Farm Walter B. Smith
 Tract _____ Acres 15 Lease No. _____
 Well (Farm) No. M-1 Serial No. SW
 Elevation (Spirit Level) 1049.96' MANNINGTON 15'
 Quadrangle Glover Gap, W.Va. (7.5')
 County Wetzsel District Grant
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

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 FILE NO. WET-634

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47-103



RECEIVED

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

1978

- Rotary
Spudder
Cable Tools complete
Storage

Quadrangle GLOVER GAP (7.5')

Permit No. WET - 634

WELL RECORD

Oil or Gas Well RESEARCH (KIND)

Company U.S. D.O.E./Morgantown Energy Tech. Cntr.
Address P.O. Box 880, Morgantown, WV 26505
Farm Walter B. Smith Acres 15
Location (waters) Pickenpaw Run
Well No. Smith-ERDA-M-1 Elev. 1049.96
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 Rotary October 6, 1977-Oct. 9, 1977
Drilling completed Cable Tools August 1, 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 5/8"	200.15	200.15	
6 3/4"			
5 1/2"	892	892	
4 1/2"			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom
Attach copy of cementing record.			8-5/8" - 200.15' 10-7-77
			5-1/2" - 892 10-9-77
CASING CEMENTED	SIZE	No. Ft.	
Amount of cement used (bags)	8-5/8" -	120 sacks	
	5-1/2" -	185 sacks	
Name of Service Co. Halliburton			
COAL WAS ENCOUNTERED AT			
472	FEET	INCHES	528 FEET INCH
793	FEET	INCHES	896 FEET INCH

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT

Fresh Water Feet HOURS Salt Water

Producing Sand Pittsburgh Coal Seam Depth 896-904

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
MISSING			0.0	204			
SANDSTONE			204	214			
SHALE AND LIMESTONE			214	357			
SANDSTONE			357	370			
SHALE			370	393			
WASHINGTON COAL			393	397			
LIME SHALES			397	472			
WAYNESBURG "A" COAL			472	474			
LIMESTONE AND SHALE			474	515			
WAYNESBURG SANDSTONE			515	524			
SHALE			524	528			
WAYNESBURG COAL			528	531			
SHALES AND SILTSTONES			531	605			
SANDSTONE			605	609			
SHALES AND LIMESTONES			609	793			
SEWICKLEY COAL			793	795			
LIMESTONE AND SHALES			795	896			
PITTSBURGH COAL			896	904			
SHALE			904	923			

(over)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
OCT - 4 1977

OIL & GAS DIVISION
DEPT. OF MINES

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 September 29, 1977
Company U.S. Energy Research and Development Administration
Address P.O. Box 880, Morgantown, WV 26505
Farm Walter B. Smith Acres 15
Location (waters) Pickenpaw Run
Well No. Smith-ERDA-M-1 Elevation 1049.96'
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 2-4-78.

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~~ ^{research purposes} having fee title thereto, (or as the case may be) under ~~lease~~ ^{cooperative agreement} dated 14 June 19 74 by Consolidation Coal Co. made to The U.S. of America and recorded on the Fourth day of March 19 77, in Wetzel County, Book #45 Page 173 ^{Miscellaneous}

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

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

Address _____
of _____
Well Operator 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.

Wet-634 PERMIT NUMBER
47-103

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
 ADDRESS P.O. Box 551 ADDRESS P.O. Box 880
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			
9 - 5/8			
<u>8 - 5/8</u>	200 ft.	200 ft.	Surface to 200 ft.
7			
<u>5 1/2</u>	897 ft.	897 ft.	Surface to 897 ft.
4 1/2			
3	Well (M-1) will be an instrumentation well.		Perf. Top
2	Drilling will commence soon; however, it will be		Perf. Bottom
Liners	10-12 months before completion.		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.

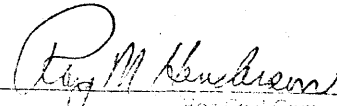
OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

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.



 Regional Regs of Engineering
 Official Title

