

Latitude 39° 17' 30  
(15') 39° 20'

(15') 80° 35'  
Longitude 80° 37' 30

- Fracture....
- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....  5/16/79

Source of Elevation F. TATE #2 F-45422 ELEV. 1164'  
 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.  
 Minimum accuracy, one part in 200

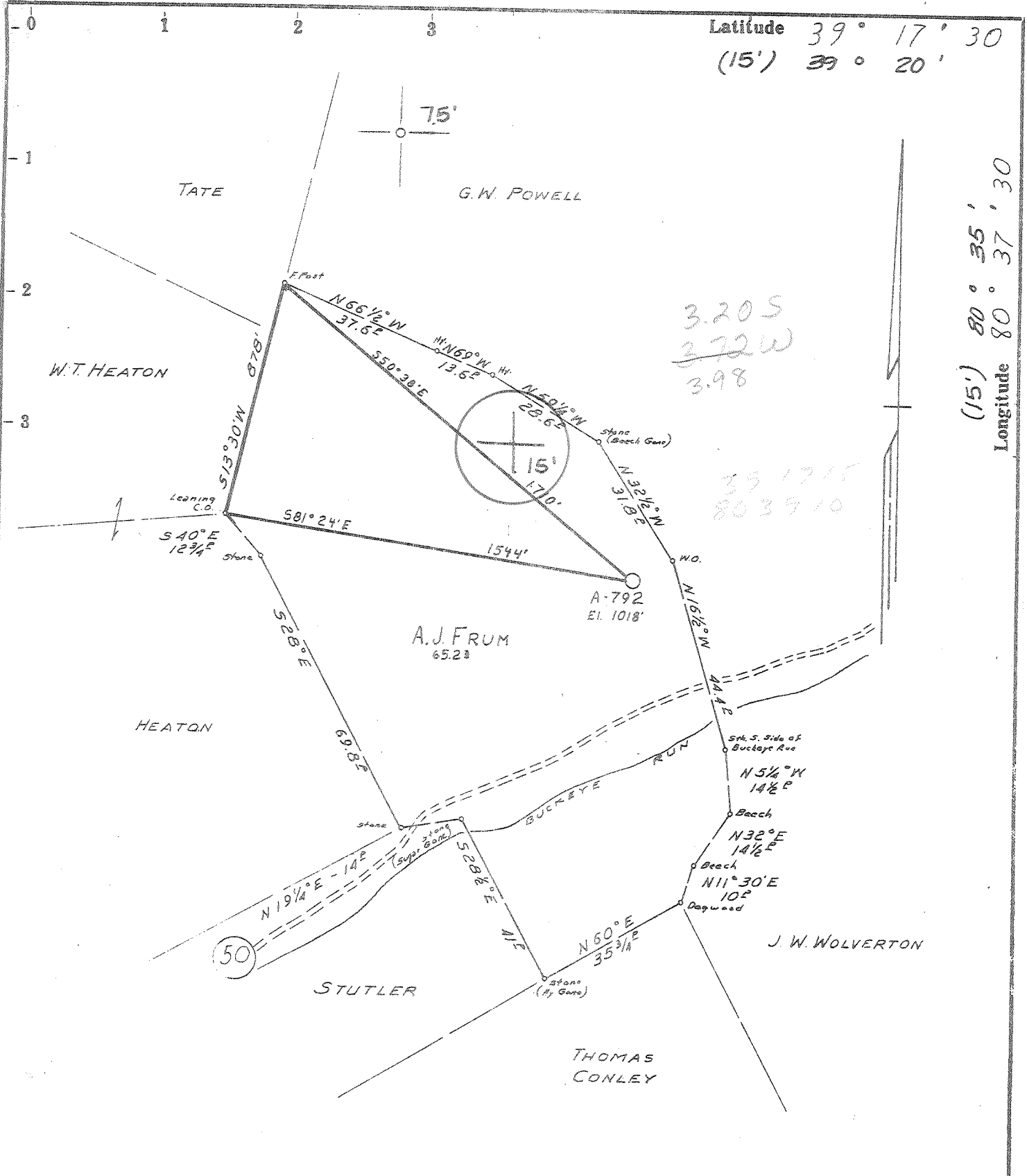
Company ALLEGHENY LAND & MINERAL CO.  
 Address CLARKSBURG, W.V. 26301  
 Farm A. J. FRUM, CALTRIDER, JESSIE CAIN  
 Tract \_\_\_\_\_ Acres 65.2 Lease No. \_\_\_\_\_  
 Well (Farm) No. \_\_\_\_\_ Serial No. A-792  
 Elevation (Spirit Level) 1018'  
CENTERPOINTS  
 Quadrangle SMITHBURG 7.5' SC  
 County DODDRIDGE District GRANT  
 Engineer Daniel L. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. 256 Drawing No. \_\_\_\_\_  
 Date 1-3-79 Scale 1" = 500'

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

**WELL LOCATION MAP**  
 FILE NO. 47-017-2337-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.  
 — Denotes one inch spaces on border line of original tracing.

JUN 14 1979



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CENTERPOINT 15'  
 Quadrangle SMITHBURG T.5' SC  
 County DODDRIDGE District GRANT  
 Engineer Daniel S. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. 256 Drawing No. \_\_\_\_\_  
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STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
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 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. 47-017-2337

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 FEB 9 1979  
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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date May 10, 1979

FORM IV-35  
(Obverse)

Operator's  
No. 4-712

[08-78]

WELL OPERATOR'S REPORT  
OF

API No. 017-2337

DRILLING, FRACTURING AND/OR STIMULATING, OR OTHER CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal

(If "Gas", Production  / Underground storage  / Other

LOCATION: Elevation: 1018' Watershed: Buckeye Run of Middle Island Creek

District: Grant County: Doddridge Township: Smithburg

WELL OPERATOR Allegheny Land & Mineral Co. DESIGNATED AGENT Allegheny Land & Mineral Co.

Address P. O. Box 1740 Address same

Clarksburg, WV 26301

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Re-drill  / Fracture or stimulate

Plug off old formation  / Perforate new formation

Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON January 3, 1979

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Garrett

Address 321 Beech Street

Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Big Injun-Benson Depth 5000 feet

Depth of completed well, 2114 feet Rotary  / Cable Tools

Water strata depth: Fresh, 50 feet; salt, 1425 feet.

Coal seam depths: \_\_\_\_\_ Is coal being mined in the area?

Work was commenced March 19, 19 79, and completed March 25, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL- OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Sands
Fresh water	8-5/8"			x		516'	516'	Cemented to surface
Coal								
Intermediate								
Production	4 1/2"			x		2300'	2300'	" " 1600'
Tubing								
Liners								Bottom
Well was fractured and sands were found to be non-productive and well will be abandoned within 30 days.								

OPEN FLOW DATA

Producing formation Weir Flow schedule 2168-2228

Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_

Final open flow, 60 Mcf/d Final open flow, \_\_\_\_\_

Time of open flow between initial and final tests, \_\_\_\_\_

Static rock pressure, 750# psia (surface measurement) after 24 hours

(If applicable, list multiple completions)

Second producing formation \_\_\_\_\_ Depth \_\_\_\_\_ feet

Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_

Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_

Time of open flow between initial and final tests, \_\_\_\_\_

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Well was fractured April 26, 1979 by Dowell.

Perforations: 2168-2172' - 4 holes  
 2206-2214' - 8 "  
 2222-2226' - 4 "

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Shale			0	15	
Red Rock & Shale			15	703	Water @ 50'
1st Salt Sand			703	724	
Sand & Shale			724	880	
Sand			880	902	
Sand & Shale			902	1208	
Sand			1208	1248	
Sand & Shale			1248	1448	Water @ 1425'
Sand			1448	1484	
Sand & Shale			1484	1868	
Big Lime			1868	1966	
Injun Sand			1966	2008	
Sand & Shale			2008	2168	
Weir Sand			2168	2228	
Shale			2228	2444	
		total depth		2444	

(Attach separate sheets to complete as necessary.)

Allegheny Land & Mineral Company  
Well Operator

By Claron Dawson

Its Supt.

NOTE: Regulation 1.0111 provided as follows:

"The term 'Wells' or 'Well Log' shall mean a systematic, detailed geological record of all formations, including all intervals in the drilling of a well."

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

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil      / Gas XX /  
(If "Gas", Production XX / Underground storage      / Deep      / Shallow XX /)  
LOCATION: Elevation: 1018 Watershed: Buckeye Run of Middle Island Creek  
District: Grant County: Doddridge Quadrangle: Smithburg

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND & MINERAL  
Address P. O. Drawer 1740 Address P. O. Drawer 1740  
Clarksburg, West Virginia 26301 Clarksburg, WV 26301

OIL & GAS ROYALTY OWNER Beatrice Caltrider, Agt, et al  
Address Waverly Road  
Williamstown, WV 26187

COAL OPERATOR no coal reported in surrounding wells  
Address     

SURFACE OWNER Jessie Gain  
Address Route 2  
Salem, WV 26426  
Acreage 65 1/2

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name does not apply  
Address       
Name       
Address     

FIELD SALE (IF MADE) TO:  
Name no contract to date  
Address     

COAL LESSEE WITH DECLARATION ON RECORD:  
Name does not apply  
Address     

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, WV 26301

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed      / lease XX / other contract      / dated     , 19    , to the undersigned well operator from D. M. Frum, et al unto Allegheny Land & Mineral Co.  
[If said deed, lease, or other contract has been recorded:]  
Recorded on January 13 1962, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in      Book 73 at page 29. A permit is requested as follows:  
PROPOSED WORK: Drill XX / Drill deeper      / Redrill      / Fracture or stimulate      /  
Plug off old formation      / Perforate new formation      /  
Other physical change in well (specify)     

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

ALLEGHENY LAND & MINERAL COMPANY  
Well Operator

Glen E. Watkins  
By Glen E. Watkins, Manager  
Land, Lease and Right of Way

RECEIVED  
JAN 22 1979

BLANKET BOND

OIL & GAS DIVISION  
DEPT. OF MINES

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY;  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Union Drilling Company  
Address P. O. Box 40  
Buckhannon, West Virginia 26201

GEOLOGICAL TARGET FORMATION, Big Injun- Benson

Estimated depth of completed well, 5000 feet Rotary XX / Cable tools      /

Approximate water strata depths: Fresh, 60-80 feet; salt,      feet.

Approximate coal seam depths: no records Is coal being mined in the area? Yes      / No      /

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	16"					20'	20'	cement to surface	Kinds
Fresh water	8-5/8								
Coal	8-5/8		24#	X		600'	600'	cement to surface	Sizes
Intermediate			No. 80						
Production	4 1/2"		11.616	X		5000'	5000'	cement to 300' above producing horizon	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 9-23-79.

  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19     

By       
Its