



A. R. BROWN, ET AL	76 AC
CHARLES W. MCCAULEY	22 AC
PAUL M. SHAFFER, ET AL	49 AC
CHARLES A. AUSTIN	28.25 AC
LILLIAN I. WATTS, ET AL	14.51 AC
CECILE BLOUNT	
WILLIS D. WERT	
THELMA BROWN	
MAXINE GERRARD	
K.G. DULL, ET AL	17.72 AC
JACQUES DUNN	
ROBERT B. WEST	

FILE NO. 337  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION RD. INT. 76 & 76/10  
FLEM - 1678'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Daniel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.L.S. \_\_\_\_\_

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-S (8-78)



DATE \_\_\_\_\_ 19 80  
 OPERATING PERMIT NO. 599  
 API WELL NO. \_\_\_\_\_  
 STATE OF WEST VIRGINIA PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 1873' WATER SHED LAUREL RUN  
 DISTRICT CLINTON COUNTY MONROG  
 QUADRANGLE GLADESVILLE 75' NE Thornton 15'  
 SURFACE OWNER GEORGE E. TURNER ACREAGE 14.51  
 OIL & GAS ROYALTY OWNER LILLIAN I. WATTS, ET AL LEASE ACREAGE 14.51 AC OF 351.47  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE \_\_\_  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Deep Well  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 6150' 6-6 South Overns Chapel (313)  
 WELL OPERATOR ALLEGHENY LAND & MINERAL CO DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO  
 ADDRESS P.O. BOX 1740 CLARKSBURG, W. VA. 26301 ADDRESS P.O. BOX 1740 CLARKSBURG, W. VA. 26301

Date: June 12, 1980

Operator's Well No. A-834

API Well No. 47 - 061 - 0599  
State County Permit

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

WELL OPERATOR'S REPORT /4  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production \_\_\_ / Underground storage \_\_\_ / Deep \_\_\_ / Shallow XX /)  
LOCATION: Elevation: 1873' Watershed: Laurel Run  
District: Clinton County: Monongalia Quadrangle: Gladesville 7.5'

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND & MINERAL CO.  
Address P. O. BOX 1740 Address P. O. BOX 1740  
CLARKSBURG, W. VA. 26301 CLARKSBURG, W. VA. 26301

PERMITTED WORK: Drill X / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON March 20, 1980 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name William Blosser  
Address P. O. Box 1028  
Colfax, WV 26566

GEOLOGICAL TARGET FORMATION: Oriskany Depth 8150 feet  
Depth of completed well, 7904 feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh, 522 feet; salt, \_\_\_ feet.  
Coal seam depths: 52-55' Is coal being mined in the area? \_\_\_  
Work was commenced May 1, 1980, and completed May 23, 1980

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		
Conductor	16"			X		20'	20'	Cemented to surface
Fresh water	8-5/8"							
Coal	8-5/8"			X		1215'	1215'	" " Sizes "
Intermediate								
Production	4 3/4"	N-80	11.6#	X		7765'	7765'	" " 6700' Depth's set
Tubing								
Liners								Perforations: Top Bottom

OPEN FLOW DATA

Producing formation Chert Sand Pay zone depth HRVL Chert 7547-7728 feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Final open flow, 2,144 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, \_\_\_ hours  
Static rock pressure, 3250# psig (surface measurement) after 28 hours shut in  
[If applicable due to multiple completion--]

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Final open flow, \_\_\_ Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, \_\_\_ hours  
Static rock pressure, \_\_\_ psig (surface measurement) after \_\_\_ hours shut in

**REVIEWED**  
JUN 19 1980  
OIL & GAS DIVISION  
DEPT. OF MINES

(Continue on reverse side)

JUL 25 1980

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

Well was fractured June 4, 1980 by Halliburton.

Perforations: 7602 - 7616' - 14 holes

7620 - 7631' - 11 "

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand			0	52	
COAL *****			52	55	Coal *****
Sand & Shale			55	808	Water - 2" stream @ 522'
Big Lime			808	924	
Injun Sand			924	988	
Sand & Shale			988	1892	
5th Sand			1892	1919	
Sand & Shale			1919	3840	
Sand			3840	3892	
Sand & Shale			3892	4052	
Benson Sand			4052	4078	
Sand & Shale			4078	7159	
Tully Lime Stone			7159	7260	
Lime & Shale			7260	7445	
Onondago Sand			7445	7547	
Chert Sand			7547	7728	
Oriskany Sand			7728	7904	
			total depth	7904	(Driller)

(Attach separate sheets to complete as necessary)

Allegheny Land & Mineral Company

Well Operator

By Claron Dawson

Its Supt.

**NOTE:** Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

THIS PERMIT MUST BE POSTED AT THE WELL SITE

RECEIVED

MAR 24 1980

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 12-1-80.

Date: March 20, 1980

Operator's

Well No. A-834

API Well No. 47 - 061 - 0599

State Co. Permi

Deputy Director - Oil & Gas Division

OIL & GAS DIVISION DEPT. OF MINES

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 / underground storage / Deep XX / Shallow)

LOCATION: Elevation: 1873' Watershed: Laurel Run District: Clinton County: Monongalia Quadrangle: Gladesville 7.5'

WELL OPERATOR ALLEGHENY LAND & MINERAL CO. Designated Agent ALLEGHENY LAND & MINERAL CO. Address P.O. Box 1740 CLARKSBURG, WV 26301

OIL & GAS ROYALTY OWNER Lillian I. Watts, etal Address Route 4, Box 419 Morgantown, WV 26505 Acreage 19.57 out of 354.47 SURFACE OWNER George E. Turner Address Route 1, Box 264 Independence, WV 26374 Acreage 19.57 FIELD SALE (IF MADE) TO: Name Consolidated Gas Supply Corp. Address 445 West Main Street Clarksburg, WV 26301

COAL OPERATOR address Coal Owner(s) With Declaration On Record: NAME George E. Turner Address Route 1, Box 264 Independence, WV 26374 NAME Address COAL LESSEE WITH DECLARATION ON RECORD: NAME Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name William Blosser Address P. O. Box 1028 Colfax, West Virginia 26566

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 January 13, 1969, to the undersigned well operator from Phillips Petroleum unto Consolidated Gas Supply Corporation unto Butcher Singer, subsequently Allegheny Land and Mineral Company with drilling rights. Recorded on January 29, 1969, in the office of the Clerk of the County Commission of Monongalia County, West Virginia, in O/G book 682 at page 553. 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 S 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 BY Daniel L. Wheeler Vice President

BLANKET BOND

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  
BUCHANNON, WEST VIRGINIA 26201

GEOLOGICAL TARGET FORMATION, Oriskany  
 Estimated depth of completed well, 8150' feet Rotary XX / Cable tools      /  
 Approximate water strata depths: Fresh, 400 feet; salt,      feet.  
 Approximate coal seam depths: 200' is coal being mined in the area?  
 Yes      / No XX /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SIZE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS (cubic ft.)		Packer kinds
		GRADE	Weight Per ft.	New	Used	For drilling	left in well		
Conductor	16"				X	20'	20'	cement to surface	
Fresh Water	8-5/8"								
Coal	8-5/8"			X		1300'	1300'	cement to surface	sizes
Intermediate									
Production	4 1/2"		N-80 11.616	X		8150'	8150'	cement to 300' above producing horizon	depth set
Tubing									
Liners									performations Top bott

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 S 22-4-2, (iii) Form IV-9, " Reclamation Plan", applicable to the reclamation required by Code S 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code S 22-4-12a, and (v) if applicable, the consent required by Code S 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.

-----  
 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 S 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.