

2525'

LATITUDE 38° 45' 00"

0.372

0.500

15'

7.5'

LONGITUDE 80° 05' 00"

1850'

38 44 40

80 05 35

FILE NO. \_\_\_\_\_

DRAWING NO. \_\_\_\_\_

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1 PART IN 200

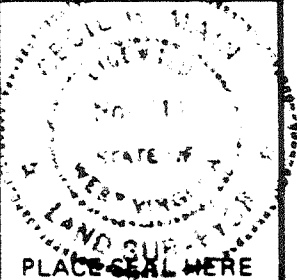
PROVEN SOURCE OF ELEVATION INT. RT. (42) and

JEEP TRAIL ELEV: 2852'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Cecil R. Main

R.P.E. \_\_\_\_\_ L.L.S. 711



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE SEPTEMBER 24<sup>th</sup> 19 81

OPERATOR'S WELL NO. A-1094

API WELL NO. B.H. LEIGH

47 - 083 - 0541

STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_

(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_

LOCATION: ELEVATION 2940' WATER SHED BIRCH FORK

DISTRICT MIDDLE FORK COUNTY RANDOLPH

QUADRANGLE ADOLPH 7.5' Pickers 15' ME

SURFACE OWNER WESTVACO ACREAGE 9757 Ac.

OIL & GAS ROYALTY OWNER HARRY McMULLAN, JR. ESTATE B.H. LEIGH LEASE ACREAGE 336 Ac. OF 9757 Ac. 28 Ac. OF 100 Ac.

LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION DRISKANY ESTIMATED DEPTH 8000'

WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND and MINERAL CO.

ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740

CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

NOV 19 1981



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

Well was fractured January 5, 1982  
 Perforations: 5919 - 5926 16 holes → Somerville 1<sup>st</sup> Somerville well  
 Hunterville 7607 - 7637 24 holes

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	48	1/2" water @ 223'
Coal	48	50	Gas check @ 1763' No show
Sand & Shale	50	690	Gas check @ 2108' No show
Red Rock	690	697	Gas check @ 2387' No show
Sand & Shale	697	708	Gas check @ 3072' No show
Red Rock	708	728	Gas check @ 3440' No show
Sand & Shale	728	825	Gas check @ 3726' No show
Red Rock	825	838	Gas check @ 4007' No show
Sand	838	1207	Gas check @ 4289' No show
Lime <i>light?</i>	1207	1212	Gas check @ 4400' No show
Sand & Shale	1212	1687	Gas check @ 4595' No show
Red Rock	1687	1710	Gas check @ 4723' No show
Sand & Shale	1710	2057	Gas check @ 4840' No show
5th Sand	2057	2093	Gas check @ 5161' No show
Sand & Shale	2093	3940	Gas check @ 5250' No show
Sand <i>Sutton?</i>	3940	4200	Gas check @ 5350' No show
Sand & Shale	4200	4235	Gas check @ 5460' No show
Shale	4235	4600	Gas check @ 5625' No show
Sand & Shale	4600	4930	Gas check @ 5717' No show
Sand	4930	5315	Gas check @ 5960' No show
Sand & Shale	5315	6145	Gas check @ 6171' No show
Shale	6145	6230	Gas check @ 6333' No show
Sand & Shale	6230	7568	Gas check @ 6584' No show
Chert <i>HUNTERVILLE</i>	7568	7754	
Sand & Shale <i>Oriskany</i>	7754	7874 T.D.	

(Attach separate sheets as necessary)

Allegheny Land and Mineral Company

Well Operator

By:

*A. J. Sabat*

Vice President Oil & Gas Operations

Date:

*9/8/82*

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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL and GAS DIVISION  
OIL and GAS WELL PERMIT

DATE September 25, 1981

Operator's  
Well No. A-1094  
API Well NO. 47 - 083 - 0541  
State County Permit

WELL TYPE: Oil        / Gas XXX /  
If "Gas", Production        / Underground storage        / Deep XXX / Shallow        /  
LOCATION: Elevation: 2940' Watershed: Birch Fork  
District: Middle Fork County: Randolph Quadrangle: Adolph 7.5'

WELL OPERATOR Allegheny Land and Mineral Company  
Address P. O. Drawer 1740  
Clarksburg, West Virginia 26301

DESIGNATED AGENT Allegheny Land & Mineral Company  
Address P. O. Drawer 1740  
Clarksburg, West Virginia 26301

OIL & GAS  
ROYALTY OWNER Harry McMullan, Jr. B.H. Leigh  
Address P. O. Box 8 c/o Vernie Leigh  
Washington, NC 27889 Helvetia, WV 26224  
Acreage 28 out of 100

COAL OPERATOR AMAX Coal Company  
Address International Coal Company

SURFACE OWNER Westvaco  
Address 203 Randolph Avenue  
Elkins, West Virginia 26241  
Acreage 336 out of 9,757

COAL LESSEE WITH DECLARATION ON RECORD:  
Name AMAX Coal Company  
Address 105 South Meridan Street  
Indianapolis, Indiana 27889  
Name International Coal Company  
Address 119 Washington Street, East  
Lewisburg, West Virginia 24901

FIELD SALE (IF MADE) TO: Columbia Gas Transmission Corp  
Address P.O. Box 498  
Washington, Pennsylvania 15301

COAL OWNER WITH DECLARATION ON RECORD:  
Name A. G. Zickefoose  
Address Adolph, West Virginia 26247

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
Name Robert S. Stewart  
Address P. O. Box 345  
Jane Lew, West Virginia 26378

The undersigned well operator is entitled to operate for oil or gas purposes as the above location under a deed XXX / lease dated May 1, 1973, to the undersigned well operator from The Estate of Harry McMullan, Jr. unto Columbia Gas Transmission subsequently unto Allegheny Land & Mineral Company also lease dated August 1, 1967 from B. H. Leigh, etux unto Consolidated Gas Supply Corporation, subsequently unto Allegheny.

(If said deed, lease, or other contract has been recorded:)  
Recorded on August 16, 1973, in the office of the Clerk of the County Commission of Randolph County, West Virginia in        Book 283 at page 408. A permit is requested as follows:  
252 327 (Leigh lease)

PROPOSED WORK: Drill XXX / 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

**RECEIVED**

OCT 26 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

ALLEGHENY LAND AND MINERAL COMPANY

BY: Daniel L. Wheeler  
Daniel L. Wheeler, Vice President  
P. O. Drawer 1740

Clarksburg, West Virginia 26301

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, Inc.  
P. O. Drawer 1740  
Buckhannon, West Virginia 26201

GEOLOGICAL TARGET FORMATION, ORISKANY

Estimated depth of completed well 8000' feet Rotary XXX / Cable tools      /

Approximate water strata depths: Fresh, none feet; salt,      feet.

Approximate coal seam depths: 49 - 53 Is coal being mined in the area? Yes      / No      /

CASING AND TUBING PROGRAM 442 - 446

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP or SACKS (Cubic Feet)	PACKERS Kinds
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left in well		
Conductor	16"				X	20'	20'	cement to surface	
Fresh Water	8-5/8"								Sizes
Coal	8-5/8"		24#	X		700'	700'	cement to surface	
Intermediate									Depths set
Production	4-1/2"		N-80	X		8000'	8000'	cement to 300' above producing horizon or as required by Rule 15.01	
Tubing			11.616						Perforations:
Liners									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 form 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.

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 with fifteen (15) days of receipt thereof.

WAIVER

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 by the West Virginia Code and the governing regulations.

Date:      19      BY:     

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 7-10-82

Fred Beckett  
Deputy Director - Oil & Gas Division

*[Faint stamp or signature]*