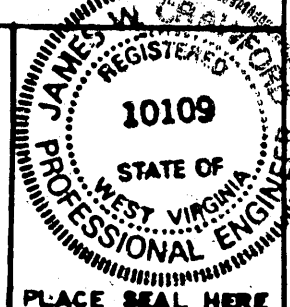


FILE NO. F2-1-166  
 DRAWING NO. F2-2-178  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION USGS BM. 1902 GRAFTON

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) James W. Crawford  
R.P.E. 10109 L.L.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)

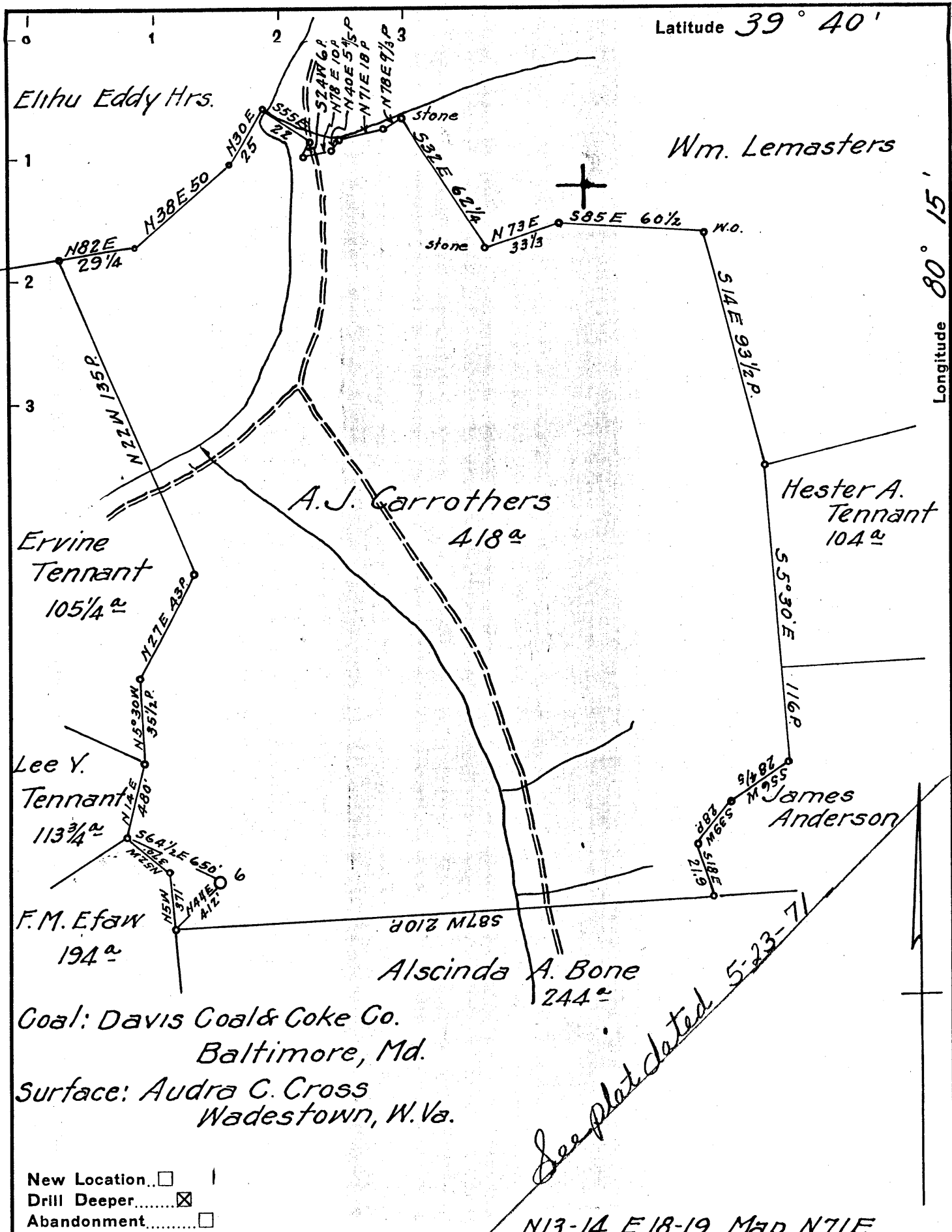


DATE OCTOBER 3, 1988  
 OPERATOR'S WELL NO. F2-416  
 API WELL NO. 47-061-0158-P  
 STATE COUNTY PERMIT

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 1,395' WATER SHED MIRACLE RUN  
 DISTRICT BATTELLE COUNTY MONONGALIA  
 QUADRANGLE WADESTOWN 7 1/2' SERIES (Mannington EC)  
 SURFACE OWNER JOSEPH S. CARROTERS ACREAGE 170.00  
 OIL & GAS ROYALTY OWNER FORMERLY SOUTH PENN OIL COMPANY LEASE ACREAGE 418  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL  FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION FOURTH SAND ESTIMATED DEPTH 3,416  
 WELL OPERATOR EASTERN ASSOC. COAL CORP. DESIGNATED AGENT JOHN A. VEITCH 17 1988  
 ADDRESS EASTERN ASSOC. COAL CORP. ADDRESS SAME  
ROUTE 1 BOX 144  
FAIRVIEW W. VA. 26570

66 Campbell Run - Miracle Run (058)



Coal: Davis Coal & Coke Co.  
 Baltimore, Md.  
 Surface: Audra C. Cross  
 Wadestown, W. Va.

New Location  |  
 Drill Deeper   
 Abandonment

See plat dated 5-23-71  
 N13-14 E 18-19 Map N71E

Company South Penn Natural Gas Co. 772  
 Address Parkersburg, W. Va.  
 Farm A. J. Carrothers  
 Tract \_\_\_\_\_ Acres 215 Lease No. 148  
 Well (Farm) No. 6 Serial No. 14591  
 Elevation (Spirit Level) 1372.44  
 Quadrangle Mannington  
 County Monongalia District Battelle  
 Engineer A. C. Hilbert  
 Engineer's Registration No. \_\_\_\_\_  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 6-25-43 Scale 1"=800'

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

WELL LOCATION MAP  
 FILE NO. MON-158-P  
 PL. CANCELLED

+ 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. 23 1988

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

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Permit No. Mon 158  
Mannington Quad.

Gas Well  
CASING & TUBING

Company  
Address  
Farm  
Location

South Penn Natural Gas Company  
Union Trust Bldg., Parkersburg, W.Va.  
A. J. Carrothers Acres 215

Well No  
District  
Surface  
Minerals  
Commenced  
Completed  
Date shot

6 DD  
Battelle Monongalia County  
Audra C. Cross, Wedestown, W.Va.  
Same as above  
Oct. 1, 1943  
Oct. 22, 1943  
11-1-43 Depth 3391 to 3405'  
with 40 qts.

No change in  
casing.

Volume

34,990 C.F. See remarks

DRILLED DEEPER

Commenced drilling deeper in the Gordon Sand at 3364

Gordon	L		3364	3368	
Lime	L		3368	3389	Gas 3392-3394 2.6 W 1"
Red Rock			3389	3390	Orf., 38 MCF
Fourth	L		3390		
Fourth	L		3390	3392	Oil 3392-3394(show)
Fourth	D				
Fourth	D				Gas 3408-3405 7.8 W 1"
Fourth	L		3394	3395	Orf. , 65 MCF
Fourth	L	(Coarse)	3395	3396	
Fourth	L	(Fine)	3396	3398	
Fourth	D	(Fine)	3398	3399	REMARKS: Gas increased
Fourth	D	(Coarse)	3399	3400	from 34,990 C.F. to 9.0
Fourth	D		3400	3405	water 1" Orf. 70,782.
Fourth	D	(Fine)	3405	3408	
Fourth	L	(Fine)	3408	3411	Well filled with stone and
Fourth	L	(Coarse)	3411	3412	clay from 3640' to 3426'
Fourth	D	(Coarse)	3412	3413	Cement plug 3426 to 3416'
Fourth	D	(Pebbles)	3413	3416	Present total depth 3416'
Fourth				3416	
Lime	D		3416	3427	
Lime	D	(Gritty)	3427	3437	
Slate	D		3437	3453	
Lime	L		3453	3455	
Lime	D		3455	3465	
Lime	D	(Coarse)	3465	3470	
Slate	D		3470	3475	
Lime	D		3475	3490	
Slate	D		3490	3495	
Lime	D		3495	3505	
Lime	D	(Gritty)	3505	3510	
Lime	D		3510	3426	
Slate	D		3526	3530	
Lime	D		3530	3582	
Lime	D	(Gritty)	3582	3587	
Lime	D		3587	3593	
Lime	D	(Gritty)	3593	3617	
Limo	D		3617	3622	
Lime-Shell	H		3622	3627	
Lime	L H		3627	3640	
TOTAL DEPTH				3640	

3364 old 70?  
276 - new ftg

**RECEIVED**  
DEC 19 1988

AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Eastern Associated Coal Corporation  
Coal Operator or Owner  
Route 1 Box 144 Fairview, WV 26570  
Address

Eastern Associated Coal Corp.  
Name of Well Operator  
Route 1 Box 144 Fairview, WV 26570  
Complete Address

December 14 1988

Coal Operator or Owner  
Address

WELL AND LOCATION  
Battelle District  
Monongalia County

Joseph S. Carrothers  
Lease or Property Owner  
1428 Cov. Road, Organ, Ohio  
Address

WELL NO. F2-416-EACC  
A.J. Carrothers No. 6 398 Acres Farm

STATE INSPECTOR SUPERVISING PLUGGING Don Ellis

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Monongalia

ss:

Jim Gump and Jim McKinzie

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Chisler Brothers, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 18th day of October, 19 88, and that the well was plugged and filled in the following manner:

	Sand or Zone Record	Filling Material	Plugs Used Size & Kind	Casing	
				CSO PULLED	CSO LEFT IN
1)	Pulled all rods 3,325' & all	2" Tubing 3,427,80'	Rods	3,325'	
2)	Run 2" Tubing to 3425, gell hole with 30 sack gell, 50 sacks cement Bottom Plug 3425 to 3150 & pulled all 2" tubing		2" Tubing	3,427,80'	
3)	Hold of 5" pipe cut at 2905 and 2816 worked loose pulled 2,816'		5" Pipe	2,816'	
4)	Run 2" Tubing to 3100' Run 8 sacks gell got circulation and run 80 sacks cement for 2nd plug from 3100' to 2584		5" Pipe 6 5/8" Pipe		236'
5)	Hold of 6 5/8" pipe cut at 2000', 1900', 1790', 1690', 1580' 1480', 1432', 1384', 1330', 1288', 1248', 1197, 1155, 1113'		6 5/8" Pipe 8" Pipe		1,342'
	Got return and pulled 1113' & fished out 84 more feet		8" Pipe	1,188'	453'
6)	Run 39 sack gell, cut 8" pipe at 1040', 1000', 957', 914', 871' 785', & 740' Got return & pulled 740' Fished out 477' more		828', 2" Tubing		400'
7)	Run logs Gamma Ray, Neutron and 3 Arm Caliper		4 1/2" Pipe		1250'
8)	Run 400' of 2" Tubing 4"x2" swedge and 1250' at 4 1/2" pipe				
9)	Run 750 Sack Portland Cement & 200 Chem comp & got circulation				
10)	Pumped latch down plug to 1230'				
11)	Bailed water out inside 4 1/2" Pipe				
	Coal Seams		Description of Monument		
	(Name) Pittsburgh Coal	1136' to 1144'	4 1/2" x 2" Swedge with metal		
	(Name)		Plate welded to 2" pipe		
	(Name)		Date plugged and A.P.I. No.		
	(Name)		on plate		

and that the work of plugging and filling said well was completed on the 14th day of December, 19 88.

And further deponents saith not.

Sworn to and subscribed before me this 15th day of December, 19 88.

Jim Gump  
Jim McKinzie  
William F. Tuttle  
Notary Public

My commission expires:

April 17, 1997

Permit No. 47-061-0158-P

JAN 16 1989