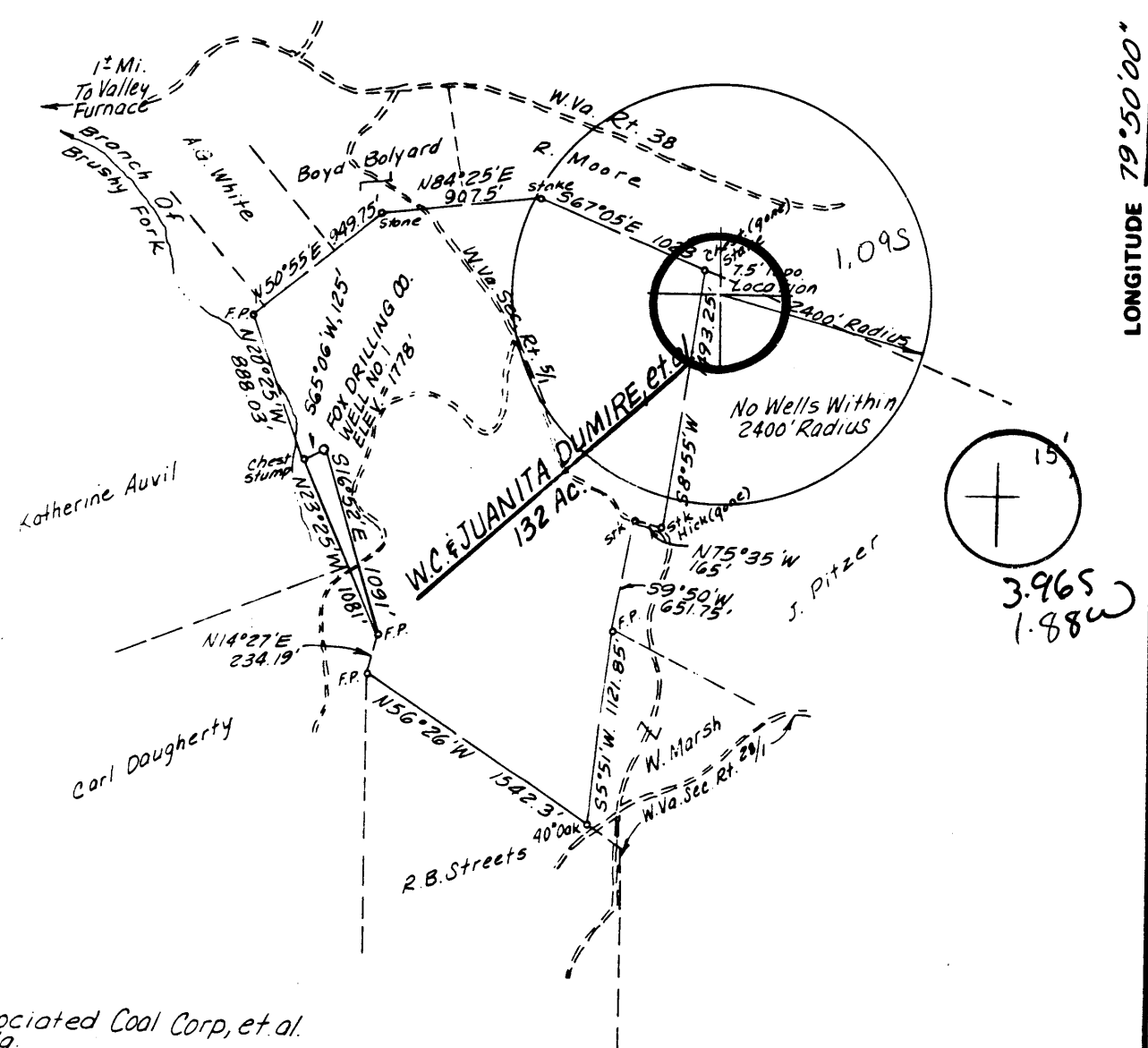


4.975'  
 LATITUDE 39°12'30"  
 39°15'

MAGNETIC NORTH - 12/81

LONGITUDE 79°50'00"  
 5.660'



COAL OWNERS  
 Eastern Associated Coal Corp, et al.  
 Koopers Bldg.  
 Pittsburgh, Pa. 15219

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. RTS. 38 & 5/1 2150'±  
 N.E. OF LOCATION, ELEV. = 1599'

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. *Mark C. Echard*  
 (SIGNED) MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE DECEMBER 7, 19 81  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. \_\_\_\_\_  
47 - 001 - 1675  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1773' WATER SHED BRUSHY FORK  
 DISTRICT COVE COUNTY BARBOUR  
 QUADRANGLE COLEBANK 7.5' Belington 15 NC  
 SURFACE OWNER W.C. & JUANITA S. DUMIRE, et al. ACREAGE 132  
 OIL & GAS ROYALTY OWNER W.C. & JUANITA S. DUMIRE, et al. LEASE ACREAGE 132  
 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 FOX SAND ESTIMATED DEPTH 5560'± 66 Taylor Drain (316)  
 WELL OPERATOR FOX DRILLING CO. DESIGNATED AGENT MR. ROBERT E. FOX  
 ADDRESS P.O. BOX 129 ADDRESS P.O. BOX 129  
GLENNVILLE, W.VA. 26351 GLENNVILLE, W.VA. 26351 JAN 18 1982

Date 3/16/82  
Operator's  
Well No. One  
Farm Dumire  
API No. 47-001-1675

State of West Virginia  
Department of Mines  
Oil and Gas Division

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

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /  
(If "Gas," Production XX / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1778 Watershed Brushy Fork  
District: Cove County Barbour Quadrangle colebank 7.5

COMPANY Fox Drilling Co. Inc.  
ADDRESS Glenville, W.V. 26351  
DESIGNATED AGENT Robert E. Fox  
ADDRESS Glenville, W.V. 26351  
SURFACE OWNER W.C. Dumire et al  
ADDRESS Rt. 2 Kasson WV.  
GENERAL RIGHTS OWNER Same  
ADDRESS Same  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart  
ADDRESS Jane Lew. W.V.  
PERMIT ISSUED 12/16/81  
DRILLING COMMENCED 2/19/82  
DRILLING COMPLETED 2/14/82  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8.5/8	1793	1793	To Surface
7			
5 1/2			
4 1/2		5437	
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Fox, Haverty Depth 5200 feet  
Depth of completed well 5628 feet Rotary X / Cable Tools  
Water strata depth: Fresh 300 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: None encountered Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Fox, Haverty, 4th Elk 3rd Elk Pay zone depth see treatment feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow none Bbl/d  
Final open flow 350 Mcf/d Oil: Final open flow none Bbl/d  
Time of open flow between initial and final tests 1 hours  
Static rock pressure 1150 psig (surface measurement) after 48 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation 2nd Elk 1st Elk Pay zone depth see treatment feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 350 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1150 psig (surface measurement) after 48 hours shut in

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACKING OR STIMULATING, PHYSICAL PROPERTIES, ETC.

Fox Sand, Haverty, 4th Elk- 5308 to 4768- 500 Gal Hcl, 250 BBL Sand laden Fluid, ( 25,000 # 80-100), (25,000 # 20-40 ).

3rd Elk, 2nd Elk- 4598 to 4286-500 Gal Hcl, 250 BBL Sand Laden Fluid, ( 25,000-# 80-100), (25,000 # 20-40 ).

1st Elk, Benson, Riley- 4120-to 3772- 500 Gal Hcl., 350 BBL Sand Laden Fluid, (30,000 # 80-100), (40,000 # 20-40 ).

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free and salt water, coal, oil and gas
Sand , Shale, & Red Rock			0	1100	Fresh water 4" stream at 300'
Big Lime			1100	1270	
Big Injun			1270	1340	
Sand & Shale			1340	2200	
5th Sand			2200	2270	
Shale			2270	2400	
Bayard			2400	2420	
Sand & Shale			2420	2970	
Balltown			2970	3050	
Sand & Shale			3050	3850	
Benson			3850	3920	
Shale			3920	4050	
<del>1st Elk Alex</del>			4050	4130	
Sand & Shale			4130	5160	No Gas Shows
Haverty			5160	5210	
Shale			5210	5300	
Fox Sand			5300	5310	
Shale			5310	5628	T.D.
				<i>Brum</i>	T.D.

(Attach separate sheets as necessary)

Well Operator  
 By: *Robert S. [Signature]*  
 Date: \_\_\_\_\_

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 ... encountered in the drilling of a well."



PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Fox Drilling Co.Inc.

Address P.O.Box 129

Glenville,W.V. 26351

GEOLOGICAL TARGET FORMATION Fox Sand

Estimated depth of completed well 5560' feet. Rotary xxx/ Cable tools /

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

Approximate coal seam depths: 600'

Is coal being mined in this area: Yes / No xxx/

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For Drill, Left in Well), CEMENT FILL (UP OR SACKS, Cubic ft.), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

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...

Form IV-2 shall not be required for fracturing or stimulating a well if the fracturing or stimulating is to be part of the work for which a permit is sought...

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 8-21-82

J. J. Murray
Deputy Director - Oil & Gas Division

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

W A I V E R

undersigned coal operator / owner X/ 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 operator has complied with all applicable requirements of the West Virginia Code and governing regulations.

Date: Dec 10, 1981.

Eastern Associated Coal Corp

By: Michael A. Eddy Jr

Its: Manager of Properties