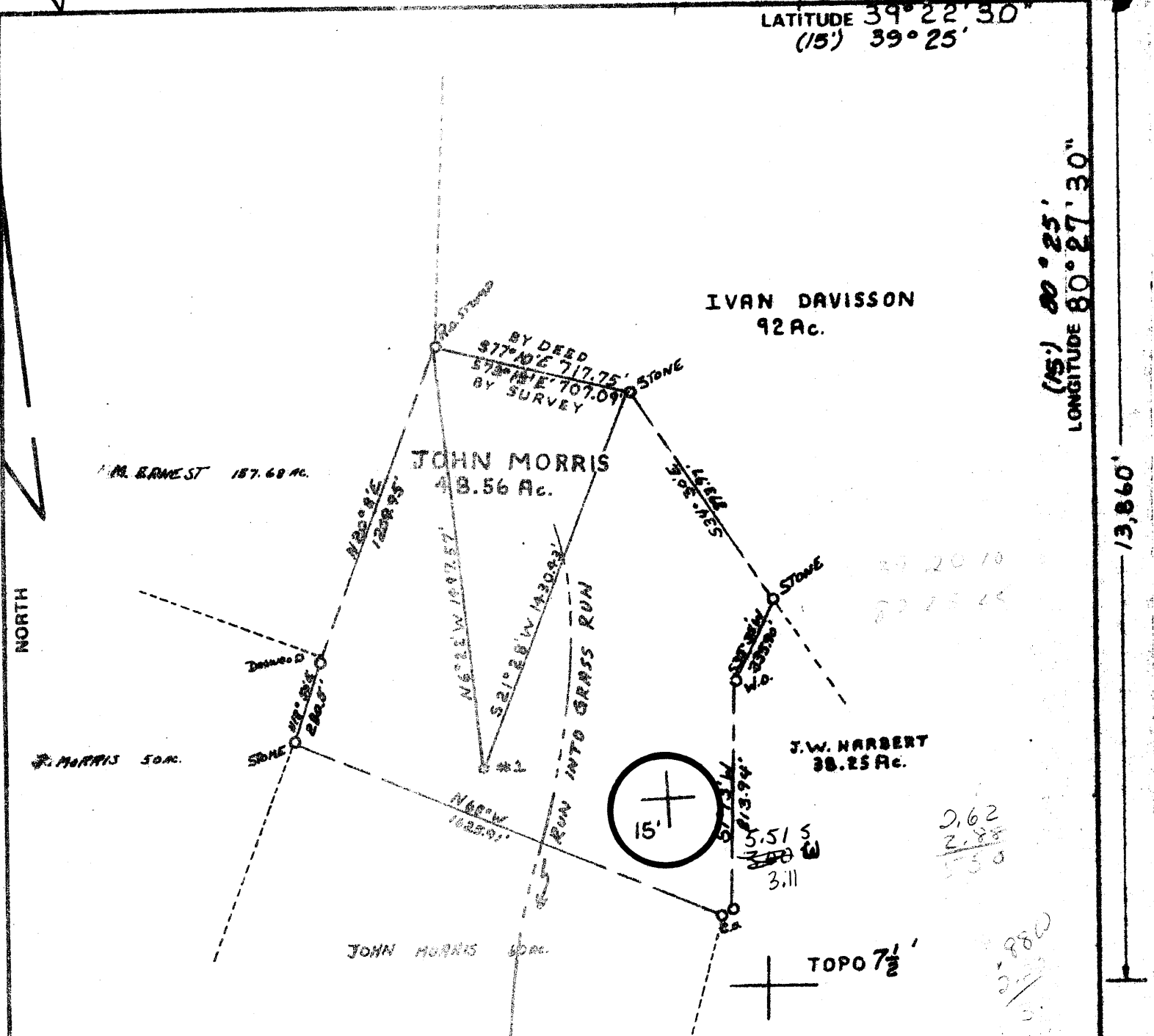


LATITUDE 39° 22' 30"  
(15') 39° 25'

(15') 80° 25'  
LONGITUDE 80° 27' 30"

13,860'



FILE NO. B.D.C. #3 - P9.32  
 DRAWING NO. 1  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1' IN 200'  
 PROVEN SOURCE OF ELEVATION B.M. 1007' INT. RT. 5/4 AND RT. 5/18

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) Paul G. Dean  
 R.P.E. # 1856 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE DECEMBER 29, 19 79  
 OPERATOR'S WELL NO. 1  
 API WELL NO. \_\_\_\_\_  
47 - 033 - 2249  
 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 1160' WATER SHED GRASS RUN  
 DISTRICT TENMILE COUNTY HARRISON  
 QUADRANGLE WOLF SUMMIT, CLARKSBURG 15' WC  
 SURFACE OWNER JOHN W. MORRIS ACREAGE 48.56  
 OIL & GAS ROYALTY OWNER JOHN W. MORRIS LEASE ACREAGE 48.56  
 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 CEDAR CREEK ESTIMATED DEPTH 5500'  
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT PETROLEUM DEVELOPMENT CORP.  
 ADDRESS 103 E. MAIN ST. (PO. Bx 26) ADDRESS 103 E. MAIN ST. (PO. Bx 26)  
BRIDGEPORT W. VA. BRIDGEPORT W. VA.

THIS PLAT WAS CHECKED BY BOB & DEAN & C.E. UNDER THE SUPERVISION OF PAUL G. BROWN - LUMBERPORT 104 FEB 13 1980



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division  
WELL RECORD

RECEIVED

JUL 15 1980

OIL & GAS DIVISION  
DEPT. OF MINE

Rotary  Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Wolf Summit  
Permit No. 055 Har-2249

Company <u>Petroleum Development Corporation</u>	26330	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>103 East Main St., Bridgeport, WV</u>					
Farm <u>John W. Morris</u> Acres <u>48.56</u>					
Location (waters) <u>Grass Run</u>					
Well No. <u>#1</u> Elev. <u>1160'</u>					
District <u>Tenmile</u> County <u>Harrison</u>					
The surface of tract is owned in fee by <u>John W. Morris, et al, Rt. 1, Bristol, WV 26332</u>					
Address _____					
Mineral rights are owned by <u>same as above</u>					
Address _____					
Drilling Commenced <u>4/29/80</u>					
Drilling Completed <u>5/3/80</u>					
Initial open flow <u>30</u> m.cu. ft. _____ bbls.					
Final production <u>60</u> m.cu. ft. per day _____ bbls.					
Well open <u>(4)</u> hrs. before test <u>1500</u> RP.					

Well treatment details:	Attach copy of cementing record.			
Benson 480 bbl 10,000# 80/100	50,000# 20/40	500 gal. acid	4940-4946	
Balltown 445 bbl 10,000# 80/100	50,000# 20/40	500 gal. acid	3498-3837	

Speechley *P.J. and wife @ 3498-3500 Speechley  
3804-37 Balltown  
4940-4946 Benson*

Coal was encountered at 15, 119, 395 Feet \_\_\_\_\_ Inches  
Fresh water 35, 115 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Benson; Balltown & Speechley Depth 4940'; 3837'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
K.B. - G.L.			0	12		
shale			12	15		
coal			15	19		
shale			19	38	fresh H <sub>2</sub> O 1/2" @ 35'	
sand, shale			38	119	fresh H <sub>2</sub> O 1" @ 115'	
coal			119	123		
sand, shale			123	395		
coal			395	400		
sand, shale			400	1900		
big lime			1900	1986		
big injun			1986	2036		
sand, shale			2036	2474		
gantz			2474	2522		
sand, shale			2522	2567		
gordon/stray			2567	2752		
sand, shale			2752	3474	gas check @ 2796'	10/10 H <sub>2</sub> O thru 3/4"
speechley			3474	3502		
sand, shale			3502	3804		
balltown			3804	3844		
sand, shale			3844	4930	gas check @ 4050'	4/10 H <sub>2</sub> O thru 3/4"
<u>benson</u>			4930	4950		
sand, shale			4950	5044 T.D.	gas check @ T.D.	8/10 H <sub>2</sub> O thru 3/4"

AUG 1 1980

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

Date: January 3, 1980

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. One  
API Well No. 47\_033 - 2249  
State County Permit

TYPE: Oil  / Gas  /  
IF "Gas", Production  / Underground storage  / Deep  / Shallow  /  
Elevation: 1160' Watershed: Grass Run  
District: Tenmile County: Harrison Quadrangle: Wolf Summit

OPERATOR: Petroleum Development Corp.  
Address: P.O. Box 26  
Bridgeport, WV 26330

DESIGNATED AGENT: Petroleum Development Corp.  
Address: P.O. Box 26  
Bridgeport, WV 26330

COAL OPERATOR: John W. Morris, et.al.  
Address: Rt. 1  
Bristol, WV 26332

COAL OPERATOR: \_\_\_\_\_  
Address: \_\_\_\_\_

ACREAGE: 48.56  
APPROX: Same

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name: Badger Coal Company  
Address: Box 456  
Philippi, WV 26416

ADDRESS: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

PERSONS TO BE NOTIFIED:  
Paul Garrett  
321 Beech Street  
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

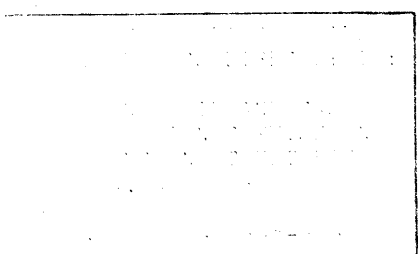
**RECEIVED**  
JAN - 8 1980

**OIL & GAS DIVISION**  
**DEPT. OF MINES**

The applicant well operator is entitled to operate for oil or gas on the above land under lease  / other contract  / dated January 18, 1979, by Clarence W. Mutschelknaus

On January 26, 1979, in the office of the Clerk of the County Commission of Harrison County, West Virginia, Deed Box 1075 at page 434. A permit is requested for the following:  
Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
Perforate new formation  /  
Other special change in well (specify) \_\_\_\_\_

As shown on the work order on the reverse side hereof.  
The coal owner(s), coal owner(s), and coal lessee are hereby notified that any application for a permit to drill, re-drill, or redrill must be filed with the Department of Mines, Oil and Gas Division, State of West Virginia, by the applicant. The permit shall be issued by the Department of Mines, Oil and Gas Division, State of West Virginia, and the applicant shall be responsible for the cost of the permit. The applicant shall also be responsible for the cost of the permit application, and the cost of the permit application shall be paid to the Department of Mines, Oil and Gas Division, State of West Virginia, at the time of the filing of the permit application.



**BLANKET BOND**

PETROLEUM DEVELOPMENT CORPORATION  
John W. Morris  
et.al.

**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) Unknown

Address \_\_\_\_\_

DESIRABLE TARGET FORMATION, Cedar Creek

Estimated depth of completed well, 5500 feet Rotary  / Cable tools \_\_\_\_\_ /

Estimated water strata depths: Fresh, 50 feet; salt, 1000 feet.

Estimated coal seam depths: 650', 850' Is coal being mined in the area? Yes \_\_\_\_\_ / No  /

**LOG AND TYPING PROGRAM**

LOG TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Weight	New	Used	For drilling	Left in well		
	13 5/8"			X	40'			Kinds
Gal	8 5/8" K	20 & 23	X		1750'	1750'	500 sks	Size
	4 1/2	10.5	X			5450'		Depth in'
								Perforations:
								Top Bottom

The Department of Mines provides that the original and four copies of this permit, with the equipment, accompanied by (i) a plat in the form prescribed by the Department, (ii) one of the forms prescribed by Regulation 12, or in lieu thereof, a map allowed by Code § 22-4-2, (iii) Form IV-3, "Reclamation Plan", (iv) unless otherwise provided by Code § 22-4-12b and Regulation 24, (v) unless otherwise provided by Code § 22-4-12a, and (vi) if applicable, a certificate of compliance with Code § 22-4-4 from the owner of any water well or drilling site, shall be filed in connection therewith.

**THIS PERMIT MUST BE POSTED AT THE WELL SITE** for fracturing or stimulating a well or for the work for which a permit is sought and filed in connection therewith.

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 operators have not commenced by 9-21-80.

*Robert L. [Signature]*  
Deputy Director - Oil & Gas Division

This permit is subject to the provisions of the laws and regulations of the State of West Virginia, and by any act or order of the State Board of Mines under Code § 22-4-20, if the permit holder is required to file a map thereof.

**WARRANTY**

I, the undersigned, warrant that I am the owner of the coal under the well described herein and well location. If a mine map exists which covers the area of the well, a copy of the same has been added to the mine map. The undersigned has no objection to the drilling of this well, provided, the well operator has complied with all provisions of the laws, regulations and the governing regulations.