



FILE NO. R.D.C. 1-19.62, 63, 64
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1' IN 200'
 PROVEN SOURCE OF ELEVATION B.M. 963' AT INT. RT. (D) AND LARGE POWER LINES ± 3.750' SW OF LOCATION

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 JUNE 20, 1979
 OPERATOR'S WELL NO. 1
 API WELL NO. _____
47 - 095 - 0704
 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 1010' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT ELLSWORTH COUNTY TYLER
 QUADRANGLE MIDDLEBOURNE (WEST UNION 15')
 SURFACE OWNER JAMES F. DOAN ACREAGE 457 (198.5)
 OIL & GAS ROYALTY OWNER JAMES F. DOAN LEASE ACREAGE 455 ±
 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 GORDON ESTIMATED DEPTH 2500' 2850'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT PETROLEUM DEVELOPMENT
 ADDRESS 103 E. MAIN ST. ADDRESS _____
G = BRIDGEPORT W.VA. 3-3 0



RECEIVED

OCT 11 1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

Location Middlebourne
Permit No. Tyl-0704

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

Company Petroleum Development Corporation
Address PO Box 26, Bridgeport, W. Va. 26330
Name James Doan Acres 455
Location (waters) Middle Island Creek
Well No. #1 Elev. 1010'
District Ellsworth County Tyler
The surface of tract is owned in fee by
Wilma E. Doan
Address Star Rte., Box 19-A, Middlebourne, WV
Mineral rights are owned by same as above
Address
Drilling Commenced 7/28/79
Drilling Completed 8/3/79
Initial open flow 39 m cu. ft. bbls.
Final production --- cu. ft. per day bbls.
Well open 48 hrs. before test --- RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks)
Size 20-16			
Cond. 11 3/4"		40'	surface
8 5/8"	1095'	1064'	275 sks.
7"			
5 1/2"			
4 1/2"	3078'	3037'	300 sks.
3"			
2"			
Lines Used			

Well treatment details:

Attach copy of cementing record.

4th Sand	405 bbl	10,000# 80/100	35,000# 20/40	500 gal. acid
Berea	400 bbl	10,000# 80/100	31,500# 20/40	500 gal. acid

Coal was encountered at 740' Feet
Fresh water 1@60', 1/2"@475' Feet
Salt Water 1" @ 1600' Feet
Producing Sand 4th Sand, Berea Depth

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
sahle, R.R.			0	40		
sand			40	111	fresh H ₂ O	1" @ 60'
sand, shale			111	400		
sand			400	740	fresh H ₂ O	1/2" @ 475'
coal			740	743		
sand, shale			743	1130		
sand			1130	1159		
sand, shale			1159	1280		
sand			1280	1699	salt H ₂ O	1" @ 1600'
maxton sand			1699	1760		
sand, shale			1760	1844		
little lime			1844	1884		
big lime			1884	1949		
big injun			1949	2054		
sand, shale			2054	2221	gas check @ 2145'	10/10 thru 1"
weir sand			2221	2412	gas check @ 2371'	no show
sand, shale			2412	2493		
berea			2493	2504		
sand, shale			2504	2822		
gorden			2822	2847		
sand, shale			2847	2928		
4th sand			2928	2935		
sand, shale			2935	3078 TD	gas check @ 3041'	14/10 thru 1"

3078
2847

231 Expl. Ft.

(over)

OCT 25 1979

* Electric Log tops in the remarks section.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. One

API Well No. 47-095-070
State County Perm

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep X / Shallow ___ /)

LOCATION: Elevation: 1010' Watershed: Middle Island Creek
District: Ellsworth County: Tyler Quadrangle: Middlebourne

WELL 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

OIL & GAS ROYALTY OWNER James F. & Wilma E. Doan
Address Star Route, Box 19-A
Middlebourne, WV 26149

COAL OPERATOR
Address

ACREAGE 455
SURFACE OWNER Same as Royalty
Address
ACREAGE

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name Same as Royalty
Address
Name
Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name
Address
JUL - 9 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Lee Tracy
Address P.O.Box 172 Dodd Street
Middlebourn, WV 26149

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease ___ / other contract X / dated May 30th, 19 79, to the undersigned well operator from Clarence W. Mutschelknaus

[If said deed, lease, or other contract has been recorded:]

Recorded on June 9th, 19 79, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 219 at page 366. A permit is requested as follows:

PROPOSED WORK: Drill X / 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

BLANKET BOND

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By John R. Mitchell
its Drilling Superintendent

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 _____

GEOLOGICAL TARGET FORMATION, Gordon

Estimated depth of completed well, 2850 feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.

Approximate coal seam depths: Not Present Is coal being mined in the area? Yes _____ / No X /

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	11 3/4					30'	25 sacks	Kinds
Fresh water								
Coal	8 5/8					1100'	300 sacks	Sizes
Intermediate								
Production	4 1/2					2850'	200 sacks	Depths set
Tubing								
Liners								Perforations:
								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 forms 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 included as such on the Form IV-2 filed in connection therewith.

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 3-10-80

[Signature]
Deputy Director - Oil & Gas Division 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 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.

Date: _____, 19 _____

By _____

Its _____