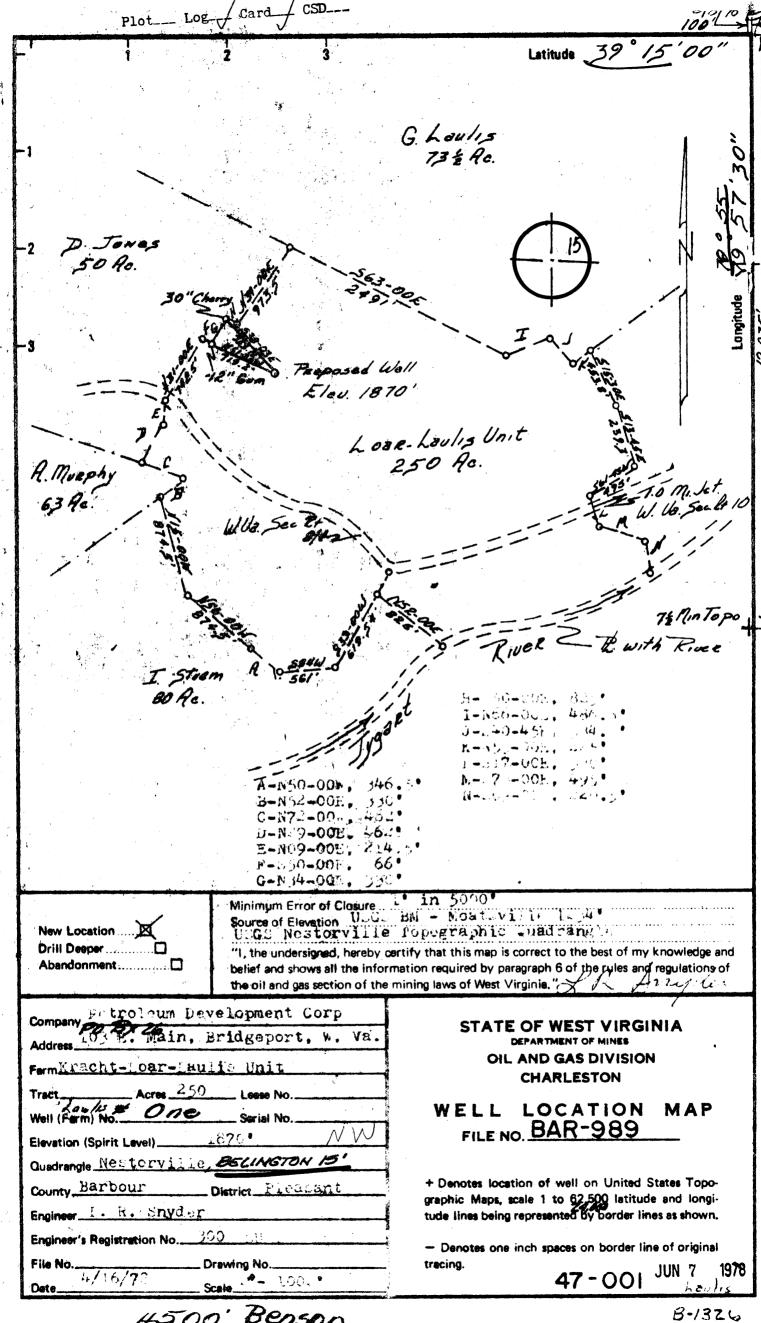


6-6 Taylor Drain (316) Roma



B-1326 Benson



#### STATE OF WEST VIRGINIA **DEPARTMENT OF MINES**

# OF G GAS TWISTON

## Oil and Gas Division

WELL **RECORD** 

Quadrangle Nestorville

Rotary_XX	Oil
Cable	Gas_XX
Recycling	Comb
Water Flood	Storage
Disposal	(Kind)

Permit No. BAR-989 (47-001-0989)	)			(Kind)
Company Petroleum Development Corporation Address P.O. Box 26, Bridgeport,WV 26330 Farm Glendoline Laulis Acres 250	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Tygart River  Well No. Laulis-Loar #1 Elev. 1870  District Pleasant County Barbour	Size 20-16 Cond.			
The surface of tract is owned in fee by  Glendolin Laulis	13-10" 9 5/8			
Address Rt. 2, Moatsville, WV 26405	8 5/8 7	875	875	150 sks
Mineral rights are owned by Same Address	5 1/2	4490	4490	400 sks
Drilling Commenced 6/06/78  Drilling Completed 6/11/78	4 1/2	14490	1470	1 400 5125
Initial open flow cu. ft bbls.  Final production 189 m cu. ft. per day bbls.	Liners Used			
Well open 48 hrs. before test 600 RP.  Well treatment details:	Attach copy of	cementing rec	ord.	
E1k 360 bb1s 10,000 20,000	80/100 20/40			
Benson 473 bbls 10,000 40,000	80/100 20/40			
Balltown 463 bbls 10,000 40,000				
Coal was encountered at 160, 254, 340, 375 Fe	Salt	Water		Feet
Producing Sand Elk, Benson, Balltown	Dep	oth <u>4469;</u>	4217; 315	2
Formation Colon Hard on Soft Ton Foot	Pottom Feet	Oil Cos	or Water	* Remarks

Formation Color H	ard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay .		0 160	10 165		
Sand & Shale		165	254		
Coal		254	258		
Sand & Shale		258	340		
Coal		340	348		•
Sand & Shale		348	375	;	
Coal .		375	379		
Sand & Shale		379	1299		
Big Lime		1300	1500		
Big Injun		1500	1600		
Shale		1600	1625		
Pocono		1625	1654		
Shale		1654	1760		
Be <b>rea</b>		1760	1770		
Shale		1770	2120		
Gantz		2120	2140		
Sand & Shale		2140	2330		
4th		2330	2350		
Shale		2350	2455		
5th		2455	2510		
Shale		2510	2620		
Bayard		2620	2640		

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale Balltown Shale Riley Shale Benson			2640 2140 3160 4214 4224 4462	3140 3160 4214 4224 4460 4472 4606	T.D.	
				. *		
						entropies de la companya de la compa
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APPROVER etroleum Development Corporationwer

By (Title)

Petroleum Engineer





#### Oil and Gas Division

#### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,							
Charleston, W. Va.	D	ATE	May 1	2. 19	<b>7</b> 8		
Glendoline Laulis			Petro	leum I	ev <b>el</b> opi	ment Co	rporation
Surface Owner Rt 2 Moatsville WV 2640	•3	ompany D	····		Bridgep		<del></del>
Address							25.0
Mineral Owner Clendoline Laulis Rt 2 Moatsville WV 26405		a 111		ne Lau		Acres_	250
Address (1) Glenoline Laulis Rt 2	Moatsville L	ecation (w	raters)	Tygai	rt Rive	r	1870'
Coal Owner (2) Hillman Coal & Coke C		ell NoI	Lanli			_ Elevati	on
Address 1900 Grant Bldg Pitts			leasa			Count	y Barbour
(3) Republic Steel Corp		uadrangle	Ne	etorv:	ille	•	
Republic Bidg Address Cleveland, Ohio 41404		,					
THIS PERMIT MUST BE POSTED AT THE W							
All provisions being in accordance with Cha of the W. Va. Code, the location is hereby a	· i	ECTOR		<b>7</b> 0 . <b>3</b>	<b>G</b> 4		
for <u>drilling</u> . This permit shall	expire if TO BE	E NOTIFI	ED _	300	Stewar	τ	
operations have not commenced by 9-2:	3-78 ADDRI	ESS Bo	ox/	345 Jan	ne Lew	WV 263	378
Deputy Director - Oil & Gas Division	PHONI	E884-	-7732				
GENTLEMEN:							
							. * .
The undersigned well operator is entitled to							
title thereto, (or as the case may be) under gra	nt or lease dated	n Jury	7 33.80	<del>-</del>	_ 19 <u>_04</u> 29th	by	Auguat
Laulis etvir made to Consolidated  19_64 inBarbour County, Book	51	and rec	corded	on the .		day	of
19 in Sarbour County, Book		Page	J.C				
NEW WELLDRILL D	EEPER	REDRI	ILL _		FRACTU	RE OR	STIMULATE
OIL AND GAS WELL ORIGINAL	LY DRILLED BE	FORE JUN	NE 5,	1 <b>96</b> 9.			
The enclosed plat was prepared by a registere have been notified as of the above date.	ed engineer or lice	ensed land	survey	or and	all coal o	wners and	l/or operators
The above named coal owners and/or operator to make by Section 3 of the Code, must be rece	r are hereby notificitied with the second of	ied that an with the De	ny objec epartme	ction the ent of M	ey wish to lines with	make, o	r are required )) days. *
Copies of this notice and the enclosed plat we or coal owners at their above shown respective	address		da	ау		before	coal operators, or on the
same day with the mailing or delivery of this cop				Charlesto	on, West V	irginia.	
PLEASE SUBMIT COPIES OF ALL	Very	LESTABLE	SEVEN	POSITION.	CORPO	RATION	
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign	Name)	11/1				
			n -		Operator		
WEST VIRGINIA GEOLOGICAL AND		•	<u> </u>	Bx 26	7		
ECONOMIC SURVEY	Address of			St	reet		
P. O. BOX 879	Well Operator		Rri	lgenor	t		
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	. <del>-</del>			City or			
70" JU4 - 292-0331			West	t Virg	inia 2	6330	
DIANUTT DON'S		<del>-7 1</del>		St	ate		

Branke Brun

\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BAR - 989 PERMIT NUMBER

Long

### THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO						
DRILLING CONTRACTOR: (If NAME <u>Unknown</u>		NAME <u>Petroleum Development Corporation</u> ADDRESS <u>P O Box 26 Bridgeport WV 26330</u>				
ADDRESS						
TELEPHONE						
ESTIMATED DEPTH OF COMPL	CABLE TOOLS					
PROPOSED GEOLOGICAL FOR	MATION:					
TYPE OF WELL: OIL_	GASXX C	COMB STORAGE	DISPOSAL			
•	RECYCLI	NG WATER FLO	ODOTHER			
TENTATIVE CASING PROGRAM	A:					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.			
20 - 16						
13 - 10 11/3/4	40*	40"	Surface			
9 - 5/8						
8 - 5/8	900'	900*	Surface			
7						
5 ½						
4 ½		4300'	Made within the state fact tops			
2			Perf. Top			
Liners			Perf. Bottom			
			Perf. Top Perf. Bottom			
		-	Terr. Bottom			
APPROXIMATE FRESH WATER APPROXIMATE COAL DEPTHS	300 MO	·· · · · · · · · · · · · · · · · · · ·				
IS COAL BEING MINED IN THE	E AREA?	BY WHOM?				
SUBMIT FIVE (5) COPIES OF PLAT. TO DRILL DEEPER OR REDRIL		T FEE, PERFORMANCE BO	OND AND PERMANENT COPY			
SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE	O 1929, A PERMANENT CO	NAL PERMIT NUMBER AND DPY OF THE PLAT AND T	PERFORMANCE BOND. ON HE ORIGINAL WELL RECORT			
TO FRACTURE - STIMULATE:						
OIL AND/OR GAS WELL OF	RIGINALLY DRILLED BEFOR AND ORIGINAL WELL REC	RE JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE			
OIL AND/OR GAS WELL OR		ND/OR AFTER JUNE 5, 1929	, FIVE COPIES OG - 1, SHOW-			
Required forms must be filed four (24) hours in advance.	within ninety (90) days of c	ompletion for bond release.	Inspector to be notified twenty-			
The following waiver must b	e completed by the seal area	rator if the manual in the second	sued within ten days of receip			
mereor.						
	d and place on our mine ma	ps this proposed well location	on.			
We theproviding operator has concerning to the concerning operator has concerned and concerning the concerning operato	Coal Company homplied with all rules and regu	nave no objections to said well lations in Articles 4, 5, and 7,	ll being drilled at this location, Chapter 22 of the West Virginia			
		For	Coal Company			
			Official Title			