



State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: CLARK, CATHARINE P. Operator Well No.: C. CLARK #2

LOCATION: Elevation: 1239.00 Quadrangle: MOUNT CLARE

District: ELK County: HARRISON

Latitude: 7400 Feet South of 39 Deg. 12Min. 30 Sec. Longitude 6025 Feet West of 80 Deg. 15 Min. 0 Sec.

Company: PETROLEUM DEVELOPMENT COR

P. O. BOX 26

BRIDGEPORT, WV 26330-0026

Agent: ERIC R. STEARNS

Inspector: STEVE CASEY

Permit Issued: 02/26/90
Well work Commenced: 10/03/90
Well work Completed: 10/08/90

Verbal Plugging

Permission granted on:

Salt water depths (ft)

Rotary Cable Rig
Total Depth (feet) 4500'
Fresh water depths (ft) 93'; 450'

Is coal being mined in area (Y/N)? n Coal Depths (ft):

			· · · · · · · · · · · · · · · · · · ·	
	Casing	Used in	Left	Cement Fill Up
-	Tubing	Drilling	in Well	Cu. Ft.
-	Size			
	11. 3/4"	38'		
	0.5/0!!	1066	10661	
-	8 5/8"	1066'	1066'	260 sks
	4 1/2"	4470	4470	390 sks
	·			
		· 		
Control Control		Carried American		
-		•	1	

OPEN FLOW DATA

Producing formation	Benson	Pay zone depth	(ft) <u>4401-4405</u>
Gas: Initial open flow	MCF/d Oil	: Initial open flow	Bb1/d
Final open flow	198 MCF/d	Final open flow	Bb1/d
Time of open flow	between initial	. and final tests	Hours
Static rock Pressure	1500 psig (sur	face pressure) afte	r 72 Hours
Second producing forma	tion	Pav zone depth	(ft)
Second producing forma		Pay zone depth	
Gas: Initial open flow	MCF/d Oil	: Initial open flow	Bbl/d
Gas: Initial open flow Final open flow	MCF/d Oil MCF/d between initial		Bbl/d Bbl/d Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: PETROLEUM DEVELOPMENT CORP.

By: Eric R. Stearns NOV 5 1990

Date: October 23, 1990

Clark #2

STAGE	FORMATION	PERFS	80/100 SKS	20/40 SKS	ACID GAL	N2 (MCF)
1ST	Benson	16(4401-4405)	100	550	500	80

WELL LOG

FORMATION	TOP F	EET BOTTO	M FEET	REMARKS: FRESH & SALT WATER, COAL, OIL & GAS
KB - GL sand, shale, R Big Lime sand, shale Keener	1 1 1	403 481 488	10 1403 1481 1488 1517	1/2" stream H2O @ 93' 3/4" stream H2O @ 450'
sand, shale Big Injun sand, shale Gantz sand, shale	1 1 1 1	521 564 832 904	1936	gas chk @ 1597' Odor gas chk @ 1775' Odor
50 ft sand, shale 30 ft sand, shale 4th	1 1 2	.978 .986 .033	1978 1986 2033 2217 2243	gas chk @ 2100' 8/10-2" H20
sand, shale 5th sand, shale Speechley sand, shale	2	347 340	2347 2340 2787 3153	
Balltown sand, shale Bradford	3 3 3	198 591 553	3591 3553 3676	gas chk @ 3217' 6/10-2" H20
sand, shale Riley sand, shale Benson	4 4 4	075 245 384	4245 4384 4441	gas chk @ 3799' 6/10-2" H20 gas chk @ 4348' 6/10-2" H20
sand, shale		538	4538 4538 4500	gas chk @ 4444' 6/10-2" H20 Driller TD
				

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

1)	Well Ope	rator:	Petroleum	Development	Corporation	35200 /	5) 457		
2)	Operator's Well Number: Catherine Clark #2 3) Elevation: 1239'								
4)	Well typ	e: (a)	Dil_/	or Gas	<u> </u>				
		(b)	If Gas:		n_XX/ Undergr	ound Storage Shallov			
5)	Proposed	Target I	Formation	(s): <u>.</u>	Benson				
6)	5000								
7)	Approximate fresh water strata depths: 35, 156, 431								
8)	Approxim	ate salt	water de	pths:	N/A				
9)	Approxim	nate coal	seam dep	ths:	521	Prompto Bally (1994) and the state of the st			
10)	Does lan	d contain	n coal se	ams tribut	ary to acti	ve mine? Ye	es/ No_XX_/		
11)	Proposed	Well Wor	ck: 10	No h	1 det	New Upe	10)		
12)			Mal			in aya	•		
			-		NG PROGRAM				
TYPE		SI	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT		
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)		
Cond	uctor	11 3/4	H-40	40#	30				
Fres	h Water								
Coal	•					145 5	3805816/1.5		
Inte:	rmediate	8 5/8	H-40	20#	1050	1050	DOC SAITE ATT		
Prod	uction	4 1/2	J-55	10.5#	5000	5000	450 sks		
Tubi	nq	·					386581671.1		
Line	rs					i) Si			
PACK	ERS : Kir	nd					0.00		
Sizes Depths set									
479	For Divison of Oil and Gas Use Only DEPARTMENT OF LICENCE								
里	Fee(s) paid; (Well Work Permit) Reclamation Fund (WPCP								
II	Plat 1	WW-9	WW-	2B 1 1	Bond Blimk	(Type)	Agent Agent		

		11/15/32	Y				
	1 of WW2-A	3 FFB 2	s ren 2	1)		February 13, 1990	
(09/8		4 0.2 40		2)	Operator Cathari	's well number ne P.Clark #2	
File	Copy	DIVISION OF	TOP LIVER CY	3)	API Well	No: 47 - 033 - 3	607
		Dr. Washington	ه فريق مساه به وسال مربع ه			State - County - Pe:	rmit
			STATE OF	WEST	VIRGINIA		
		DEPARTMEN	T OF ENERG	Y, DIV	ISION OF	OIL AND GAS	
		NOTICE AN	D APPLICAT	ION FO	R A WELL	WORK PERMIT	
4)	Surface O	wner(s) to	be served		5) (a) Co	oal Operator:	
	(a) Name	<u>Catharine P</u>	. Clark		Name		
	Address _	Kt. #1, Box	443 WV 26408		Address _		
	(h) Mamo	Mt. Clare,	WV 26408				
	yddraee '				(b) Coal	Owner(s) with Declara	ation
	radress _				NameS	ame as Surface	
	(c) Name				Address _		
	Address	· · · · · · · · · · · · · · · · · · ·			Name		·
					Address		
		_			_		
6).	Inspector	Stephen Cas	ey #2		(c) Coal	Lessee with Declarati	on
	Address _	Rt. 2, Box	232 D		Name		
	Tolophone	Jane Lew, W	V 26378		Address _		
	rerebuoue	(304) <u>– 745</u>	-4888		-		
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_Notary Public

My commission expires