

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

## Well Operator's Report of Well Work

Farm name: CLARK, DUANE Operator Well No.: CLARK #1 LOCATION: Elevation: 758.00 Quadrangle: WEST UNION District: CENTERVILLE Feet South of 39 Deg. 22Min. 30 Sec. Feet West of 80 Deg. 50 Min. 0 Sec. County: TYLER Latitude: 500 Longitude 3600 Company: COASTAL CORP., P. O. BOX 4119 Casing | Used in PARKERSBURG, WV 26104-0000 Left |Cement | Fill Up Tubing Agent: Drilling WILLIAM E. CARPENTER in Well|Cu. Ft. Inspector: GLEN P. ROBINSON Size Permit Issued: 07/05/89 Well work Commenced: Well work Completed: 7/10/89 120 120 118 cuft Verbal Plugging 7/19/89 Permission granted on: <u>8\_5/8</u> Rotary X Cable Total Depth (feet) 1661 \_1661\_ \_518\_cuft Fresh water depths (ft) 4848 \_ 4848 \_387\_cuft Salt water depths (ft) Is coal being mined in area (Y/N)?\_Coal Depths (ft): None AUG 114 1989 DIVISION OF OIL & GAS OPEN FLOW DATA DEPARTMENT OF ENERGY Producing formation Benson/Riley Pay zone depth (ft) 4023-4285 ow 1250 MCF/d Oil: Initial open flow 0 Bbl/d Gas: Initial open flow 1250 MCF/d Oil: Initial open flow 900 MCF/d Final open flow Time of open flow between initial and final tests Final open flow Static rock Pressure 1700 psig (surface pressure) after Bbl/d Hours Second producing formation Hours Gas: Initial open flow MCF/d Oil: Initial open flow MCF/d Final open flow MCF/d Time of open flow between initial and final tests Final open flow Bbl/d Static rock Pressure \_\_psig (surface pressure) after

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

For:	COASTAL CORP., THE
	By: / 1 0 C
	By: Unde Confert Date: 2/9/19
	AUG 1 8 1989
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#### Clark #1

1 Stage - Benson - Shot 14..39 holes from 4674' to 4678' and broke down with 500 gallons of 15% HCL acid at 1600 lbs. Ran 50 sacks of 80/100 mesh sand and 350 sacks of 20/40 mesh sand at a rate of 23 BPM for a total volumn of 484 bbls. Average treating pressure was 2662 lbs., with an ISIP of 1440 lbs.

2nd Stage - Riley - Shot 14 .39 holes from 4023' to 4285' and broke down with 500 gals of 15% HCL acid at 1500 lbs. Ran 50 sacks of 80/100 mesh sand and 250 sack of 20/40 mesh sand at a rate of 23 BPM for a total volumn of 408 bbls. Average treating pressure was 2437 lbs., with an ISIP of 1476 lbs.

Formation	Color	Hard/Soft	Тор	Bottom	
Sand	Brown	Soft	0	15	
Shale	Gray	Med	0	60	water 60'
Shale	Red	Med	60	100	
Shale	Gray	Med	100	132	
Shale	Gray	Med	132	792	
Sandy Shale	Gray	Med	792	900	
Sand	White	Hard	900	1143	
Red Rock	White	Hard	1143	1400	
Sandy Shale	Gray	Med	1400	1670	
B Lime	Gray	Med	1670	1780	
Injun	White	Soft	1780	1790	
Shale	Gray	Soft	1790	2096	
Sandy Shale	Gray	Med	2096	2390	
Sand	White	Hard	2390	2430	
Shale	Gray	Soft	2430	3683	
Shale	Gray	Soft	3683	4923	TD



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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# STATE OF WEST VIRGINIA Description of State of Grand Fisher Grand 7/5/89 Grand 7/5/91 LL WORK PERMIT APPLICATION

		WOOD W	OKK PERMI	APPLICATIO		
l) Well	Operator:_	The Co	astal Corpor	ation 10	125, 1,	670
2) Oper	ator's Well	Number:_	Clark #1		3):	Elevation: 758'
	type: (a)					
	(b)	If Gas:	Productio Dee	n_X/ Underg	round Store	ageXX
5) Prop	osed Target					
6) Prop	sed Total I	Depth:	5,200	feet		
7) Appro	oximate fres	sh water s	strata dep	ths:		
	ximate salt					
	ximate coal					
						Yes/ No_X/
	sed Well Wo					
12)		•				
<b>M</b> 115 =	•			ING PROGRAM		
TYPE	S	PECIFICAT	IONS	FOOTAGE II	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4			120	120	CTS
Fresh Wate	8 5/8		23	1650	1650	By rule 38 CJR
Coal				·		
Intermedia	te					
Production	4 1/2		10.5	5200	5200	By rule 38 CSR
Tubing					•	18-11-3
Liners					V. C. Carrie	
PACKERS : 1					N/B	CELV FIN
	Sizes Depths set _					JUL 0 3 1989
165)	Fo	or Divisor	of Oil a	nd Gas Use	Only Depar	SION OF OIL & GAS
Fee (s	pajid:	l)	ork Permit	()11	amation Fun	RTMENT OF ENERGY
Plat	# ww-9	# ww-2		ond 50 Blen	/ /	Agent
				( '	Type)	_ /_ nyent

Page 1 of \_ Form WW2-A (09/87) File Copy



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Date:	2/1	/89	
Operator's Clark #1	well	number	

3) API Well No: 47 - 095 - 1304 State - County - Permit

# STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

1)

### NOTICE AND APPLICATION FOR A WELL WORK PERMIT

Notary Pub	7)			be served:	5) (a) C	oal Uperator:	
(b) Name Address (b) Coal Owner(s) with Declaration Name Address Address Address Address (c) Name Address Address (c) Name Address (c) Name Address (c) Name Address (c) Coal Lessee with Declaration Address Name Address (c) Coal Lessee with Declaration Declaration Name Address (c) Coal Lessee with Declaration Declaration of Name Address (c) Coal Lessee with Declaration Declaration of Name Address (c) Coal Lessee with Declaration Declaration of Coal Lessee with Declaration Declaration of Coal Lessee with Declaration Declaration of Name Address (c) Coal Lessee with Declaration Declaration of Coal Lessee with Declaration Declaration Declaration Declaration Declaration Declaration of Coal Lessee with Declaration Declaration Declaration Declaration Declaration Declaration Declaration Declaration of Coal Lessee with Declaration Declara					Name		
(b) Coal Owner(s) with Declarati Name Address (c) Coal Lessee with Declaration Name Address Mineral Wells, WV Address Mineral Wells, WV Address Telephone (304)—  TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:  Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR XXncluded is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia C I have served copies of this notice and application, a location plat, an accompanying documents pages I through on the above named parties, by Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agre to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediate responsible for obtaining the information, I believe that the informatio is true, accurate, and complete. I am aware that there are significant penalties for submitting fals information, including the possibility of fine and imprisonment.  Well Operator The Coastal Corporation By: Vice President Address P. O. Box 4119 Parkersburg, WV 26104 The Coastal Corporation Subscribed and sworn before me this list day of February , 19		Address	Alma WV	26320	Address		<del></del>
(c) Name Address    Address   Name A		(b) Name	7tilla, ii v	20320	<u> </u>	0	
(c) Name Address    Address   Name A		Address	<del> </del>	,	_ (b) Coal	Owner(s) with Declarat	ion
Address  Address  Route 1  Mineral Wells, WV  Telephone (304)—  Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  XIncluded is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)  I certify that as required under Chapter 22B of the West Virginia C I have served copies of this notice and application, a location plat, an accompanying documents pages 1 through on the above named parties, by Personal Service (Affidavit attached)  Certified Mail (Postmarked postal receipt attached)  Publication (Notice of Publication attached)  I have read and understand Chapter 22B and 38 CSR 11-18, and I agre to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediate responsible for obtaining the information, I believe that the informatio is true, accurate, and complete.  I am aware that there are significant penalties for submitting fals information, including the possibility of fine and imprisonment.  Well Operator  By:  Its:  Vice President  Address  P. O. Box 4119  Parkersburg, WV 26104  Telephone  Subscribed and sworn before me this 1st day of February , 19					Name	,	
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