

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

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Well Operator's Report of Well Work

Operator Well No.: TENNANT 1 Farm name: TENNANT, ROBERT H. Quadrangle: SHIRLEY Elevation: 826.00 LOCATION: CENTERVILLE County: TYLER
7790 Feet South of 39 Deg. 25Min. 0 Sec.
4870 Feet West of 80 Deg. 50 Min. 0 Sec. District: Latitude: Longitude Company: COASTAL CORP. THE | Left P. O. BOX 4119 Casing | Used in Cement PARKERSBURG, WV 26104-0000 |Fill Up| & Tubing | Drilling | in Well | Cu. Ft. Agent: WILLIAM E. CARPENTER Size Inspector: GLEN P. ROBINSON 03/09/89 120' 120' 71 11 3/4 Permit Issued: Well work Commenced: 3/17/89 Well work Completed: 3/26/89 1745 Verbal Plugging 8 5/8 555 1745' Permission granted on:___ Rotary X Cable
Total Depth (feet)
Fresh water depths (ft) 4910 4910 500 4 1/2 Salt water depths (ft) 1190' Is coal being mined in area (Y/N)? N Coal Depths (ft): None DIVISION OF OIL & GAS OPEN FLOW DATA DEPARTMENT OF ENERGY 4784-4794 Producing formation Riley, Benson Pay zone depth (ft) 4270-4410

Gas: Initial open flow 1100 MCF/d Oil: Initial open flow 0 Bbl/d Final open flow 860 MCF/d Final open flow 0 Bbl/d Time of open flow between initial and final tests 24 Hours Hours Static rock Pressure 1675 psig (surface pressure) after Pay zone depth (ft)_MCF/d Oil: Initial open flow____ Second producing formation Gas: Initial open flow____ Bb1/d Final open flow _ Bbl/d Final open flow_ MCF/d Time of open flow between initial and final tests -Hours 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 LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: COASTAL CORP.,

By:

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CHARLES BERTHELL SANDER BERTHER CHOOSE BERTHER BERTHER BERTHER BERTHER BERTHER BERTHER BERTHER BERTHER BERTHER

Shot 14 .39 holes from 4784 to 4794. Broke down w/500 gallon of 15% HCL at 2375 PSI. Ran 50 sacks of 80/100 mesh sand and 350 sacks of 20/40 mesh sand At a rate of 22 BPM for a total volumn of 425 bbl. Average treating pressure 2665 PSI with and ISIP of 1485 PSI.

Shot 16 .39 holes form 4269 to 4413 broke down w/500 gallon of 15% HCL at 2055 PSI. Ran 50 sacks of 80/100 mesh sand and 250 sacks of 20/40 mesh sand at a rate of 21 BPM for a total volumn of 325 bbls. Nitrogen used to assist was 125,000 SCF. Average treating pressure was 2467 PSI with an ISIP of 1540 PSI.

FORMATION	COLOR	HARD/SOFT	TOP	ВОТТОМ	
Red Rock	Red	C-E+	•		
Shale	Black	Soft	0	15	
Rock	White	Soft	15	25	
Shale	Gray	Med	25	45	
Sand	White	Soft	45	65	
Shale	Gray	Med	65	70	70' water
Shale	Brown	Soft	70	95	. watel
Sand	White	Med	95	145	
Shale	Red	Med	145	220	
Sand	White	Soft	220	350	
Shale	Gray	Hard	350	370	
Sand	White	Soft	370	410	
Shale	Gray	Hard	410	420	
Sand	White	Med	420	460	410' hole wet
Sand & Shale	Gray	Med	460	900	410 HOTE MEE
Sand	White	Med	900	1150	
Shale	Gray	Med	1150	1190	
Sand	White	Med	1190	1220	
Shale		Med	1220	1350	
Sand	Gray	Med	1350	1460	
Sand & Shale	White	Hard	1460	1590	
Sand	Gray	Hard	1590	1630	
Big Lime	White	Hard	1630	1715	
Shale	White	Hard	1715	1790	
Sand	Gray	Med	1790	1795	
Shale	White	Hard	1795	1815	
Sand	Gray	Med	1815	2110	
	White	Med	2110	2160	2120 0160
•				2100	2130-2160
Shale	•				oil & gas
Shale	Gray	Soft	2160	2414	dust heavy
Sand & Shale	Gray	Soft	2414	4327	
R Shale	GrayL	Soft	4327	4380	
Shale	Brown	Soft	4380	4300	
	Gray	Soft	4380	5005 TD	



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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STATE OF WEST VIRGINIA

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

			METIT M	JRK PERMIT	APPLICATIO	11125	, 606
1) We:	ll Ope	erator:_			The Coastal C	orporation	
2) Ope	erato	r's Well	Number:_	Tennant No.	1	3) El	evation: 8 26'
				or Gas			
		(b)	If Gas:	Production Deep	n <u>X</u> / Underg	round Storag Shallo	e/ w
5) Pro	posed	i Target	Formation	n(s):	Benson		······································
6) Pro							
7.) App	roxir	mate fres	h water s	strata dept	hs:	50, 250, 3	101
8) App	roxir	nate salt	water de	epths:	1280130	O II/A 1379	,
9) App	roxir	mate coal	seam dep	thstable	Coal Blosson	O II/A 1379 O II/A 527-52	18,559/560
							es/ No_X_/
11) Pro	posed	l Well Wo	rk: Dr	ill & Stimul	ate. New	11/11/	
12)			-		, , -		
TYPE					NG PROGRAM		
	<i>f</i>	<u> </u>	PECIFICAT	TONS	FOOTAGE I	ITERVALS	CEMENT
91/		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conducto	r	11 3/4		-	120'	120'	cts.
Fresh Wa	ter	3 5/3		23	1700'	1700'	By Rule 33 CSR 18-11.3
Coal							38CSR16-11.2.2
Intermed	iate						
Producti	on	1 1 ₅		10.5	5050' ·	5050'	By Rule 33 CSF 18-11.1
			The state of the s	to come to commissions to the commission com-	Company of the contract of the	the second control of	to the second of
Liners						- En.	CEPTOTE C
PACKERS: Kind							
Depths set							
For Divison of Oil and Gas Use Only DEPARTMENT OF ENERGY							
Fee(s) paid: Well Work Permit Reclamation Fund WPCP							
Pla	t ()	ZI WW-9	WW-	2B (B	ond <u>50 6</u>	Stanket	A Agent
	-	•		-	ι	Type)	

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Date:___ February 24, 1989

Operator's well number

TEnnant #1

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API Well No: 47 - <u>095</u> - <u>1286</u> State - County - Permit DIVISION OF OIL & GAS 3) DEPARTMENT OF ENERGY

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

1)

2)

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name Robert H. Tennant	Name
	Address Box 9, Ross Run Road	Address
	Alma, WV 26320	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name
		Address
	(c) Name	
		Name
		Address
6)	Inspector Glen P. Robinson	(c) Coal Lessee with Declaration
	Address <u>Route</u> 1	Name
	Mineral Wells, WV	Name
	Telephone (304)- 489-9162	Address
	TO THE PERSON(S) NAMED AB	OVE TAKE NOTICE THAT:
	Included is the lease or leases or	other continuing contract or
	GCCD DY WHICH I NOIG THE FIGHT FA	AVEY-AE -: 1 3
2121	THETUGED IS LIKE INTOTMATION FACILITY	od his Chambers oon a see a
Secti	on old) of the code of west virain	13 (600 556 3)
	I CELLILY ENGE AS TECHNITED UNDOF A	hantom 220 at 11 mm
I hav		
accom	panying documents pages 1 through	on the above many and
	XX Personal Service (Affidavit a	ttached)
	Certified Mail (Postmarked po	ctal managet and a second
	Publication (Notice of Public	star receipt attached)
	The trade to it (Notice of Public.	ation attached)
	I have read and understand Chanter	227 1 22
to th	I have read and understand Chapter	22B and 38 CSR 11-18, and I agree
famil	idr with the information authority of	t I have personally examined and am
<i>I</i>	ALLEGE TO THE TOTAL CONTRACTOR TO THE THEORIGHT !	${\sf PD}_{m{g}}$ ${f I}$ ${f believe}$ that the judgmention ${f C}$
infor	an aware that there are significantion, including the possibility	ant penalties for submitting laise
	meston, including the possibility	OI fine and imprisonment
	well Operator	The Coastal Corporation
	Ву:	LInda Carpenter July Comment
	Its:	Vice President
	Address	P. O. Box 4119
		Parkersburg, wV 26104
Subcar	Telephone	304-428-3471
aubc:	ribed and sworn before me this 24th	day of February, 1989
		,
M., 25	Dhom Phry	Notary Public
my Col	mmission expiresSept. 19, 1990	
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