



05 Jan-90  
API # 47-95-01367

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

Well Operator's Report of Well Work

Farm name: ASH, RONALD & EVE Operator Well No.: ASH #4

LOCATION: Elevation: 1102.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER  
Latitude: 200 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 8350 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: COASTAL CORP., THE  
P. O. BOX 4119  
PARKERSBURG, WV 26104-0000

Agent: WILLIAM E. CARPENTER

Inspector: GLEN P. ROBINSON  
Permit Issued: 01/03/90  
Well work Commenced: 2/10/90  
Well work Completed: 2/21/90

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5314  
Fresh water depths (ft) \_\_\_\_\_

100'  
Salt water depths (ft) \_\_\_\_\_  
665

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	127	127	118 cuft
8 5/8	1971	1971	642 cuft
4 1/2	5205	5205	568 cuft

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OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5074 - 5080  
Gas: Initial open flow 900 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 400 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 1500 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ 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: COASTAL CORP., THE

By: William E. Carpenter

Date: 2/23/90

APR 16 1990

Ash #4

Single Stage - Water/Sand - with N<sub>2</sub> assist  
Benson Formation

Shot 14, .39 holes from 5074' to 5080 and broke down with 500 gallons of 15% FE Acid at 1400 lbs. Ran 50 sacks of 80/100 mesh sand and 350 sacks of 20/40 mesh sand at a rate of 22.1 BPM for a total volumn of 588.6 bbls. Average treating pressure was 2412 lbs., with an ISIP of 1396 lbs. A total of 88,000 scf of Nitrogen was used for assist.

Formation	Color	Hard/Soft	Top	Bottom	
Sand	Gray		0	40	
Sand/red shale	Red gray	Hard	40	130	hole wet 100'
Sand	white	hard	130	200	
Shale	red	soft	200	210	
Sandy shale	gray	med	210	400	
Sand	white	hard	400	440	
Sandy shale	gray	med	440	632	
Sandy shale	gray	med	632	795	hole wet 665
Sand	white	hard	795	830	
Sandy shale	gray	med	830	980	
Sand	white	hard	980	1010	
Sandy shale	gray	med	1010	1180	
Shale	red	soft	1180	1220	
Sandy shale	gray	med	1220	1500	
Sand	gray	med	1500	1600	
Shale	gray	med	1600	1750	
Sand	gray	med	1750	1800	
Sandy shale	gray	med	1800	1880	
Sandy shale	white	hard	1880	1925	
Sandy shale	gray	med	1925	1940	
L. Lime	gray	hard	1940	1994	
Sand	white	med	1994	2190	
Sandy shale	gray	med	2190	2780	
Shale	blue/gray	med	2780	3660	gas 3015
Shale	gray	med	3660	4304	
Shale	gray	med	4304	5314	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

10055

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

- 1) Well Operator: The Coastal Corporation 10125 (1) 606
- 2) Operator's Well Number: Ash #4 3) Elevation: 1102
- 4) Well type: (a) Oil  / or Gas  /  
 (b) If Gas: Production  / Underground Storage  /  
 Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson, Riley
- 6) Proposed Total Depth: 5300 feet
- 7) Approximate fresh water strata depths: 415
- 8) Approximate salt water depths: 1647, 1672, 1746
- 9) Approximate coal seam depths: 894-895 - 926-927'
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<u>11 3/4</u> Conductor	11 3/4			120'	120'	CTS
Fresh Water						
Coal						
Intermediate	8 5/8	ERW	23#	1950	1950	By Rule 38 CSR 18.1
Production	4 1/2	ERW	10.5#	5300	5300'	By Rule 38 CSR 18.11-1
Tubing						
Liners						

**PACKERS** : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

8794  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_  Agent  
 (Type)

1) Date: \_\_\_\_\_  
2) Operator's well number  
Ash #4  
3) API Well No: 47 - 095 - 1367  
State - County - Permit

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

4) Surface Owner(s) to be served:  
(a) Name Ronald and Eve Ash  
Address 2300 52ns St. N.E.  
Canton, Ohio 44705  
(b) Name Jim and Carla Lantz  
Address 3221 Mariners Island Dr.  
Canton, Ohio 44708  
(c) Name Randy and Luanna Lantz  
Address 4501 Woodoak Drive  
Kingsport, TN 37664  
6) Inspector \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone (304)-\_\_\_\_\_

5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_

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

X Included 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 Code I have served copies of this notice and application, a location plat, and 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 agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator The Coastal Corporation  
By: [Signature]  
Its: Field Supervisor  
Address P. O. Box #119  
Parkersburg, WV 26104  
Telephone 304-428-3471

Subscribed and sworn before me this 2nd day of January, 1990

[Signature] Notary Public  
My commission expires May 24, 1999