



RECEIVED

Office of Oil & Gas

APR 28 92

WV Division of Environmental Protection

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

10-Feb-92  
API # 47-17-03941

Reviewed TM6  
Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Name: SPURGEON, HARLAN C.

Operator Well No.: SPURGEON 1

LOCATION: Elevation: 1148.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE  
Latitude: 3525 Feet South of 39 Deg. 17Min. 30 Sec.  
Longitude 925 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: RARE EARTH ENERGY, INC.  
P. O. BOX 172  
CLARKSBURG, WV 26301-0000

Agent: SAMUEL S. SPATAFORE

Inspector: MIKE UNDERWOOD  
Permit Issued: 02/11/92  
Well work Commenced: 03/2/92  
Well work Completed: 03/8/92  
Verbal Plugging  
Permission granted on: N/A  
Rotary x Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5501'  
Fresh water depths (ft) 55' and 540'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft
11 3/4	171'	171'	CTS/115
8 5/8	1943'	1943'	CTS/723
4 1/2	None	5485	2785ft 666ft3

OPEN FLOW DATA

Comingled

Balltown

Producing formation Alex, Ben, Riley, Brad, Pay zone depth (ft) 3424-532  
Gas: Initial open flow 2330 MCF/d Oil: Initial open flow 0 Bbl/c  
Final open flow 1200 MCF/d Final open flow 0 Bbl/c  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1700 psig (surface pressure) after 72 Hours

Second producing formation Comingled Pay zone depth (ft) N/A  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/c  
Final open flow N/A MCF/d Final open flow N/A Bbl/c  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure N/A psig (surface pressure) after N/A 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: RARE EARTH ENERGY, INC.

By: [Signature]  
Date: 4-2-92

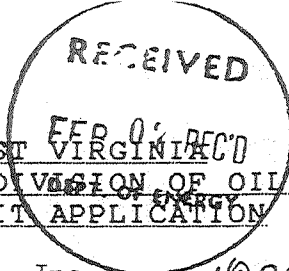
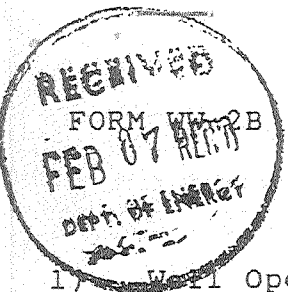
MAY 01 1992

## Completion Information

1st Stage{Perf 5304-5322 w 12 holes}- Frac Foam - 261 BBLs H2O - 30,000 #sand  
 2nd Stage{Perf 4614-4961 w 8 holes}- Frac 456 BBLs H2O - 30,000 #sand  
 3rd Stage{Perf 3424-3548 w 8 holes}- Frac 426 BBLs H2O - 30,000 #sand

Formation	Color	Hard/Soft	Top/Bottom	Comments
Clay	Red	Med	10/15	Damp @ 55'
Sdy. Shale	Gray	Med	15/86	Water @ 540' Fresh
Red Rock	Red	Soft	86/90	
Sdy. Shale	Gray	Med	90/215	
Sand	L. Gray	Hard	215/228	Gas @ 1851' 28/10 - 7" Mercury
Sdy. Shale	Gray	Med	228/350	Gas @ 2176' 50/10 - 1" W/W
Red Rock	Red	Soft	350/370	Gas @ 2765' 24/10 - 1" W/W
Sdy. Shale	Gray	Med	370/380	Gas @ 3265' 22/10 - 1" W/W
Red Rock	Red	Soft	380/388	Gas @ 3762' 22/10 - 1" W/W
Sdy. Shale	Gray	Med	388/504	Gas @ 4509' 15/10 - 1" W/W
Red Rock	Red	Soft	504/540	Gas @ 5007' 12/10 - 1" W/W
Sand	W	Hard	540/629	Gas @ D.C. 10/10 - 1" W/W
Shale	Gray	Med	629/710	
Sand	L. Gray	Hard	710/723	
Shale & Sand	Gray	Med	723/870	
Red Rock	Red	Soft	870/903	
Sdy. Shale	Gray	Med	903/1095	
Sand	L. Gray	Hard	1095/1125	
Shale & Sand	Gray	Med	1125/1220	
Red Rock	Red	Soft	1220/1225	
Sdy. Shale	L. Gray	Med	1225/1371	
Sand	L. Gray	Hard	1371/1428	
Sdy. Shale	Gray	Med	1428/1476	
Shale	Brown	Soft	1476/1481	
Sdy. Shale	Gray	Med	1481/1851	
Sand	W	Hard	1851/1887	
Sdy. Shale	Gray	Med	1887/1980	
Big Lime	L. Gray	Hard	1980/2040	
Injun	L. Gray	Hard	2040/2120	
Sdy. Shale	Gray	Med	2120/2275	
Weir	Gray	Med	2275/2383	
Sdy. Shale	Gray	Med	2383/2477	
Berea	Gray	Med	2477/2481	
Sdy. Shale	Gray	Med	2481/4950	
Benson	Brown	Med	4950/4960	
Shale & Sand	Gray	Med	4960/5501	
Maxton			1850/1888	
Big Lime			2012/2114	
Big Injun			2114/2166	
Weir			2322/2425	
Berea			2524/2530	
Balltown			3385/3734	
Bradford			4560/4640	
1st Riley			4810/4900	
2nd Riley			4900/5010	
Benson			5024/5030	
Alexander			5280/5354	

13230



017-3941  
Issued 2/11/92  
Page 3 of 7  
Expires 2/11/94

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

- 1) Well Operator: Rare Earth Energy, Inc. 740 40900 (8) 670
- 2) Operator's Well Number: H. Spurgeon #1 3) Elevation: 1,148
- 4) Well type: (a) Oil X/ or Gas X/
- (b) If Gas: Production   / Underground Storage   /  
Deep X/ Shallow   /
- 5) Proposed Target Formation(s): Alexander 429
- 6) Proposed Total Depth: 5,500 feet
- 7) Approximate fresh water strata depths: 80
- 8) Approximate salt water depths: 1875
- 9) Approximate coal seam depths: 0
- 10) Does land contain coal seams tributary to active mine? Yes   / No   /
- 11) Proposed Well Work:
- 12)

CASING AND TUBING PROGRAM

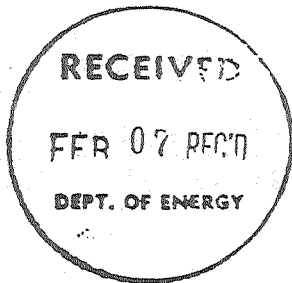
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11-3/4"		47 lb.	40'		
Fresh Water						
Coal						
Intermediate	8-5/8"		23 lb.	1950'	1950'	CTS15%Excess
Production	4-1/2"		10.5 lb.		5400'	CTS15%Excess
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_  
 No check \_\_\_\_\_

For Division of Oil and Gas Use Only

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

2219



1) Date: FEBRUARY 6, 1992  
2) Operator's well number H. Spurgeon #1  
3) API Well No: 47 - 017 - 3941  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |   |  |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Harlen C. Spurgeon</u><br/>Address <u>Rt. 1, Box 38</u><br/><u>West Union, WV 26456</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____<br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u><br/>Address <u>Rt. 2, Box 135</u><br/><u>Salem, WV 26426</u><br/>Telephone <u>(304)-782-1043</u></p>  |  |

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 7 on the above named parties, by:

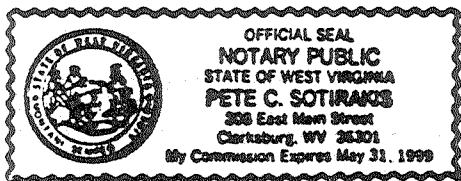
- X   Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

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 Rare Earth Energy, Inc.  
 By: Brian Alan Hall  
 Its: Designated Agent  
 Address P. O. Box 172  
Clarksburg, WV 26302-0172  
 Telephone (304) 622-4001



Subscribed and sworn before me this 6TH day of FEBRUARY, 1992

*Pete C. Sotirakis*

Notary Public

My commission expires MAY 31, 1999