

LEASE: C. FARR 17.75 AC. ±

Janice
6/16/96

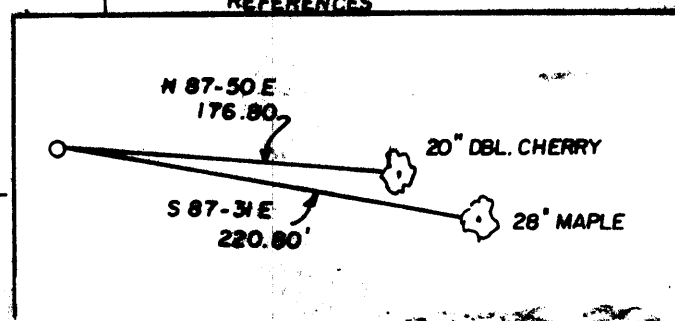
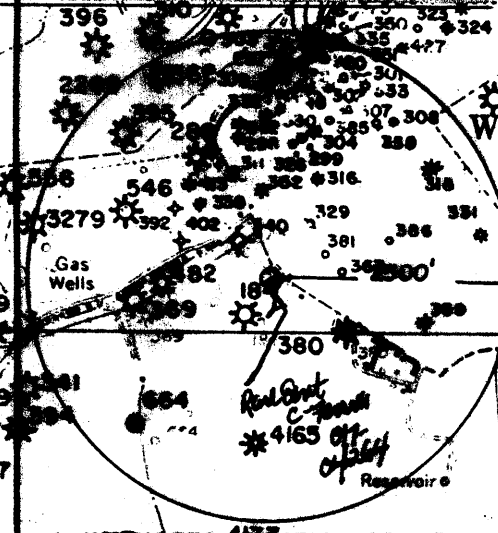
LONGITUDE 80° - 45 - 00

NORTH

KNIGHT
228 AC

GRIBBLE

REFERENCES

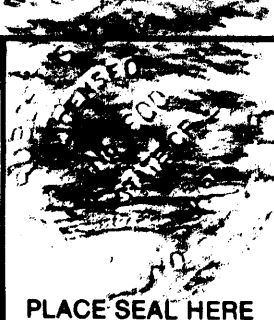


2.80S
1.60

TOPO SPOT

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 300
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 785 1900' NE OF PROPOSED RD.

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Robert J. Jarvis
 R.P.E. _____ L.L.S. 800



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE MAY 16, 19 96
 OPERATOR'S WELL NO. C FARR #1
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 972 WATER SHED ISLAND CREEK
WEST UNION COUNTY DODDRIDGE

SURFACE OWNER J. C. FARR ACREAGE 17.75
 OIL & GAS ROYALTY OWNER J. C. FARR LEASE ACREAGE 17.75

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ARTESIAN ESTIMATED DEPTH 5500'
 WELL OPERATOR RARE EARTH MINERALS, INC. DESIGNATED AGENT SAM SPATAFORE
 ADDRESS P.O. BOX 390, CLARKSBURG WV ADDRESS P.O. BOX 390, CLARKSBURG WV 26302

JUN 7 1996

740

6-6 99

FORM WW-6

Doddridge
COUNTY NAME
PERMIT

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

OCT 17 1996

Well Operator's Report of Well Work

Permitting

Office of Oil & Gas

Farm name: "E" PROPERTIES, LTD.

Operator Well No.: C. E. FARR #1

LOCATION: Elevation: 972.00 Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE
Latitude: 14750 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 8500 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: RARE EARTH MINERALS, INC.
507 BALTIMORE AVE., P.O. BX 390
CLARKSBURG, WV 26302-0390

Agent: SAMUEL S. SPATAFORE, II

Inspector: MIKE UNDERWOOD
Permit Issued: 5/16/96
Well work Commenced: 6/15/96
Well work Completed: 6/19/96
Verbal Plugging
Permission granted on: N/A
Rotary X Cable Rig
Total Depth (feet) 5270
Fresh water depths (ft) 50

Salt water depths (ft) 1380

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	30'	--	None
8-5/8	999'	999'	CTS 374 ft. ³
4-1/2	--	5241	2500' 640 ft. ³

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 250-252

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 5138-48
Gas: Initial open flow 115 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 72 Hours
Static rock Pressure 1700 psig (surface pressure) after 4 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: RARE EARTH MINERALS, INC.

By: [Signature]
Date: 10/16/96

Alexander - perforated from 5138 to 48 30 holes.

Water Frac X-link with 25,000# 20/40 Sand

At 20 BPM using 230 BBL of water and 500 Gal. 15% acid

DRILLING LOG

Sand & Shale	0 - 65	1/2" Stream H ₂ O 50'
Shale	65 - 1220	Damp at 250'
Salt Sand	1220 - 1280	
Sand & Shale	1280 - 1580	
Salt Sand	1580 - 1660	
Sand Shale	1660 - 1810	
Big Lime	1810 - 1970	
Sand	1970 - 2010	
Shale	2010 - 2160	
Weir	2160 - 2210	
Shale	2210 - 2370	
Gantz	2370 - 2375	
Sand & Shale	2375 - 2560	
Gordon Stray	2560 - 2610	
Sand	2610 - 2690	
Gordon	2690 - 2730	
Sand & Shale	2730 - 3400	
Speechley	3400 - 3850	
Balltown	3850 - 4010	
Sand & Shale	2010 - 4410	
Bradford	4410 - 4440	
Shale	4440 - 4860	
Benson	4860 - 4885	
Shale	4885 - 5130	
Alexander	5130 - 5140	

TD

5270

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Issued 06/06/96
Expires 06/06/98

- 1) Well Operator: Rare Earth Minerals, Inc.
- 2) Operator's Well Number: C. Farr #1 3) Elevation: 972
- 4) Well type: (a) Oil X/ or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
Proposed Target Formation(s): Alexander^{43a}
- Proposed Total Depth: 5500 feet
- Approximate fresh water strata depths: 80-120
- Approximate salt water depths: 1650
- 9) Approximate coal seam depths: 0
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: Drill and stimulate new well
- 12)

REC-1
WV Division of Environmental Protection
JUN 06 1996
Permitting Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4		47 lb.	30		
Fresh Water						
Coal						
Intermediate	8 5/8		20 lb.	950	950	Cts 15% excess
Production	4 1/2		10.5 lb.	5450	5450	Cts 15% excess
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

666
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Agent
 (Type)

RECEIVED
WV Division of
Environmental Protection

JUN 06 1996 3)

Permitting
Office of Oil & Gas

Date: 5-29-96
Operator's well number
C-Farr No. 1
API Well No: 47 - 017 - 017 4264 (A913)
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
- (a) Name John C. Farr Name None
 Address c/o P.D. Farr, II P/A Address _____
P.O. Box 130, Belpre, OH 45714
- (b) Name _____ (b) Coal Owner(s) with Declaration
 Address _____ Name _____
 Address None
- (c) Name _____ Name _____
 Address _____ Address _____
- 6) Inspector Mike Underwood (c) Coal Lessee with Declaration
 Address Rt. 2, Box 135 Name None
Salem, WV 26426 Address _____
 Telephone (304)- 782-1043

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**

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 3 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 22-6 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 Minerals, Inc
By: Sam S. Spatafore, II
Its: Agent
Address P. O. Box 390
Clarksburg, WV 26302-0390
Telephone 304-622-4001

Subscribed and sworn before me this 30th day of May, 1996

Robert Gary Hall
My commission expires Sept 28 2001

Notary Public
OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
ROBERT GARY HALL
ROUTE 1, BOX 20
WALKERSVILLE, WV 26447

