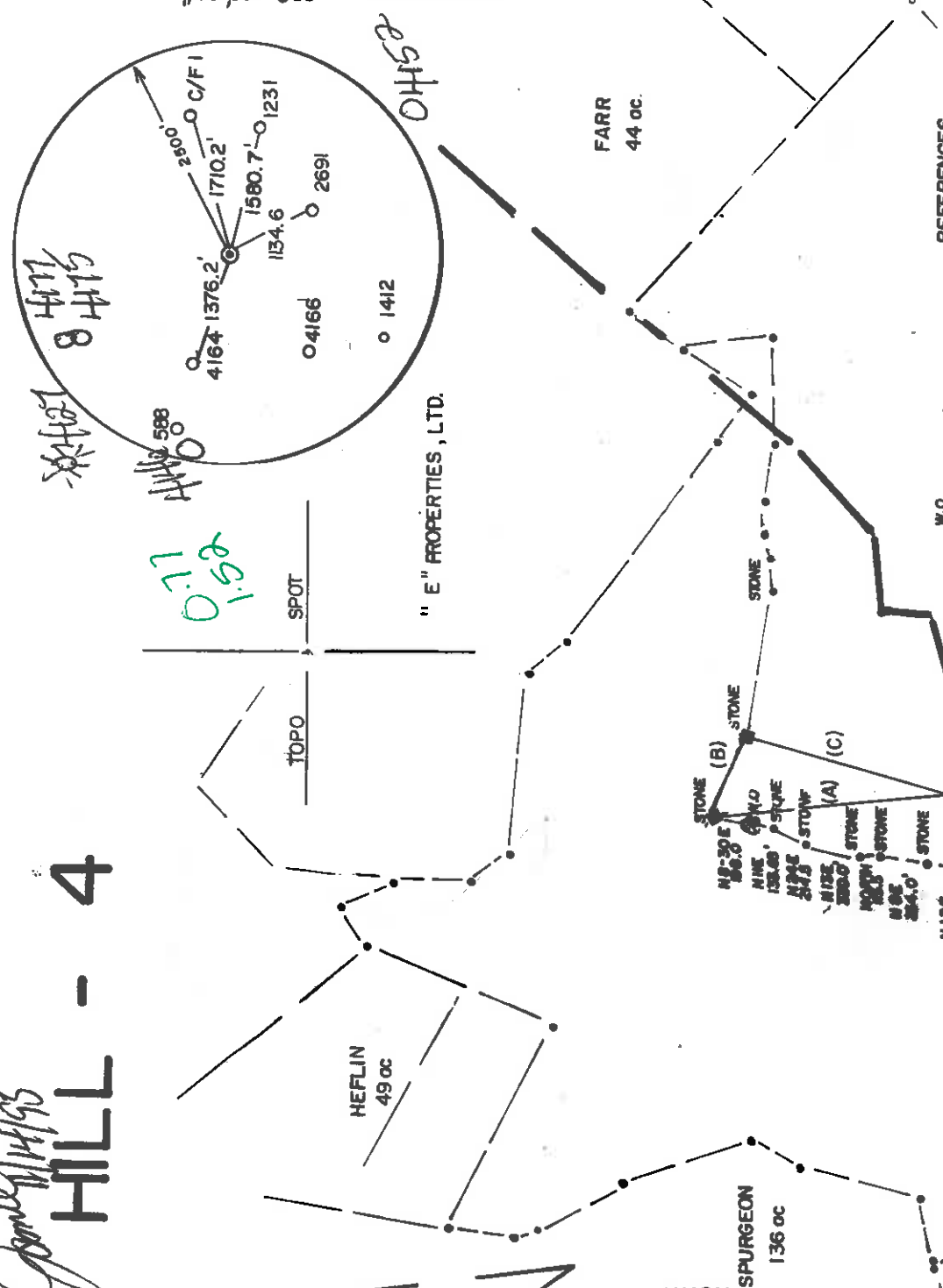
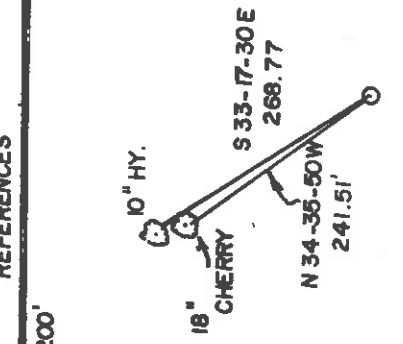


James Hill 11/14/95
HILL - 4

8050'
LATITUDE 39° - 17' - 30"
4125'
LONGITUDE 80° - 45' - 00"



REFERENCES



RELOCATED U.S. ROUTE 60

*5.52
3.16
3.16*
PIERCE
1498 ac.

- (A) N 10 - 18 - 40 W 1424.91'
- (B) S 69 - 58 - 00 E 506.45'
- (C) S 10 - 11 - 10 W 1248.00'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 950206 - Rev.
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION BM = 792 IN NE END OF R/R BRIDGE ABUTMENT

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 H. James*
R.P.E. _____ L.L.S. 600

PLACE SEAL HERE



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
LOCATION: ELEVATION 1069 WATER SHED BRUSHY FORK
DISTRICT WEST UNION COUNTY DODDRIDGE
QUADRANGLE WEST UNION *56* ACREAGE 144
SURFACE OWNER "E" PROPERTIES LTD.
OIL & GAS ROYALTY OWNER *CHARLY BONT* LEASE NO. _____
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 ALEXANDER 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

Doddridge
COUNTY NAME

PERMIT

DATE OCTOBER 14 19 94
OPERATOR'S WELL NO. _____ HILL # 4
API WELL NO. 47-017-04230

NOV 17 1995

OCT 17 1996

State of West Virginia
Division of Environmental Protection
Section of Oil and GasPermitting
Office of Oil & Gas

Farm name: "E" PROPERTIES LTD.

Well Operator's Report of Well Work

Operator Well No.: HILL #4

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: 11/14/94
Well work Commenced: 5/20/96
Well work Completed: 5/30/96
Verbal Plugging
Permission granted on: N/A
Rotary Cable Rig
Total Depth (feet) 5350
Fresh water depths (ft) 90Salt water depths (ft) 1090Is coal being mined in area (Y/N)? N
Coal Depths (ft): 69-74

OPEN FLOW DATA

| | | | |
|---|---------------------------------|-------------------------------|---------|
| Producing formation | Alexander | Pay zone depth (ft) | 5150-62 |
| Gas: Initial open flow | 60 MCF/d Oil: Initial open flow | N/A | Bbl/d |
| Final open flow | MCF/d Oil: Final open flow | N/A | Bbl/d |
| Time of open flow between initial and final tests | 72 | Hours | |
| Static rock Pressure | 1680 | psig (surface pressure) after | 4 |
| Static rock Pressure | 1580 | psig (surface pressure) after | 4 |

| | | | |
|---|---------------------------------|-------------------------------|-----------|
| Second producing formation | Benson/Riley | Pay zone depth (ft) | 4660-4880 |
| Gas: Initial open flow | 40 MCF/d Oil: Initial open flow | N/A | Bbl/d |
| Final open flow | MCF/d Oil: Final open flow | N/A | Bbl/d |
| Time of open flow between initial and final tests | 72 | Hours | |
| Static rock Pressure | 1580 | psig (surface pressure) after | 4 |

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: 

Date: 10-16-96

| Size | Casing & Tubing | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|--------|-----------------|------------------|--------------|------------------------|
| 11-3/4 | | 30' | --- | None |
| 8-5/8 | | 1020' | 1020' | CTS 410 ft. 3 |
| 4-1/2 | | 5263" | 5263" | 2500 640 ft. 3 |
| | | | | |
| | | | | |

Alexander - Perforated from 5152 - 62 with 30 holes
Water Frac with N₂, 5000 # 80/100 Sand, 30,000# 20/40 Sand, 65,000 Ft.³ N₂
with 500 BBL of water and 500 Gal. 15% Acid

Benson, Riley & Bradford perforated from 4436 to 4878 30 holes
Water Frac with N₂, 5000# 80/100 Sand 23,000# 20/40 San d60,000 Ft.³ N₂
with 500 BBL of water and 500 Gal. 15% Acid

DRILLING LOG

| | | |
|-------------------|-------------|----------------------------------|
| Sand & Shale & RR | 0 - 700 | 1/2" Stream H ₂ O 90' |
| Shale | 700 - 1820 | |
| Big Lime | 1820 - 1850 | Coal 69 - 76' |
| Shale | 1850 - 1930 | Salt Water 1/2" Stream 1090' |
| Injun | 1930 - 2010 | |
| Shale | 2010 - 2140 | |
| Weir | 2140 - 2260 | |
| Shale | 2260 - 2550 | |
| Gordon | 2550 - 2610 | |
| Shale | 2610 - 3950 | |
| Balltown | 3950 - 4050 | |
| Shale | 4050 - 4390 | |
| Bradford | 4390 - 4500 | |
| Shale | 4500 - 4660 | |
| Riley | 4660 - 4710 | |
| Shale | 4710 - 4835 | |
| Benson | 4835 - 4890 | |
| Shale | 4890 - 5150 | |
| Alexander | 5150 - 5170 | |

TID

5350

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WV Division of
Environmental Protection

FORM NOV 02 P 1995

017-4230

Dated 11/17/95

Page 3 of 8

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

Expires 11/17/97

Permitting
Office of Oil & Gas

5697

40900 @ 671

Well Operator: Rare Earth Minerals
Operator's Well Number: Hill #4
Elevation: 1056

Well type: (a) Oil / or Gas
(b) If Gas: Production / Underground Storage
Deep / Shallow

439

- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5500' feet
- 7) Approximate fresh water strata depths: 80-120
- 8) Approximate salt water depths: 1700
- 9) Approximate coal seam depths: 0 72

10) Does land contain coal seams tributary to active mine? Yes No

11) Proposed Well Work: *Stim & Stimulate New Well*

12)

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|----------------|-------------------|--------------|----------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | 11 3/4" | | 47lb | 30' | | |
| Fresh Water | | | | | | |
| Coal | | | | | | |
| Intermediate | 8 5/8" | | 20lb | 1050' | 1050' | CTS 15% Excess |
| Production | 4 1/2" | | 10 1/2 lb | | 5450' | CTS 15% Excess |
| Tubing | | | | | | |
| Liners | | | | | | |

PACKERS : Kind _____
 Sizes _____
 Depths set _____

452
 Fee(s) paid: *[Signature]* Well Work Permit *[Signature]* Reclamation Fund WPCP
 Plat *[Signature]* WW-9 *[Signature]* Bond *[Signature]* Agent *[Signature]* (Type) *[Signature]*

21317

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WV Division of
Environmental Protection

1) Date: November 17, 1994
2) Operator's well number
HILL No. 4
3) API Well No: 47 - 017 - 4230
State - County - Permit

Permitting
Office of Oil & Gas/STATE OF WEST VIRGINIA
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 "E" Properties, Ltd. Name NONE
Address P. O. Box 202, West Union, 26456 Address
C/O David E. Bowyer
~~XXXXXXXXXX~~ (304) 782-2400

(b) Coal Owner(s) with Declaration
Name NONE
Address

(c) Name
Address

6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

(c) Coal Lessee with Declaration
Name NONE
Address

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

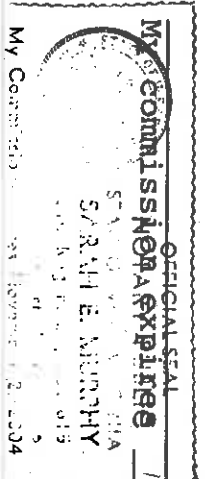
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 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 Rare Earth Minerals, Inc.
By: Sam S. Spatafore, II
Its: Designated Agent
Address P. O. Box 390
Clarksburg, WV 26302-0390
Telephone (304) 622-4001

Subscribed and sworn before me this 17 day of November, 1994

Notary Public



My Commission Expires 11/02/09