



1) Date: 25 Oct., 19 82
 2) Operator's Well No. Varner # 1
 3) API Well No. 47 085 5969
 State County Permit

DRILLING CONTRACTOR:

Fox Drilling Co. Inc.
P.O. Box 129 Glenville, W.V.
 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil XXX / Gas XXX /
 B (If "Gas", Production XXX / Underground storage XXX / Deep XXX / Shallow XXX)
- 5) LOCATION: Elevation: 1015' Watershed: Back Run
 District: Union County: Ritchie Quadrangle: Harrisville
- 6) WELL OPERATOR Rare Earth Energy 11) DESIGNATED AGENT William R. Spatafore
 Address P.O. Box 172 Address 14 Meadow Lane
Clarksburg, W.V. 26301 Bridgeport, W.V. 26330
- 7) OIL & GAS ROYALTY OWNER Shirley J. Varner 12) COAL OPERATOR Coal
 Address 615 Main St. Address _____
Harrisville, W.V. 26362
- 8) SURFACE OWNER Shirley J. Varner 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 615 Main St. Name _____
Harrisville, W.V. 26362 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address Consolidated Gas Name _____
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel N. Hersman (507) Address _____
 Address P.O. Box 66 Name _____
Smithville, W.V. 26178 Address _____
- 15) PROPOSED WORK: Drill XXX / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____

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OIL & GAS DIVISION
 DEPT. OF MINES

- 16) GEOLOGICAL TARGET FORMATION, Alexandria
 17) Estimated depth of completed well, 5990 feet
 18) Approximate water strata depths: Fresh, 80' feet; salt, _____ feet.
 19) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No _____

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	11 3/4			X		20'	20'	To Surface		
Fresh water										
Coal										
Intermediate	8 5/8		20	X		700'	700'	To Surface		
Production	4 1/2		5.55	X		5990	5990	1000 SKS		Depths set
Tubing										
Liners										Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. Not yet Recorded
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)
 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Jerry H. Fox
 My Commission Expires August 24, 1988

Signed: William R. Spatafore
 Its: Pres

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-085-5969 Date October 27 19 82

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector.** (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires June 27, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>OK</u>	Plat: <u>M.A. M.A.</u>	Casing	Fee <u>424</u>
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[Signature]
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

DRILLING PERMIT WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

08/18/2023

Date: _____, 19____

By: Planner

Its: _____



1) Date: June 1, 1983
 2) Operator's Well No. Varner #1
 3) API Well No. 47 085 5969-REN.
 State County Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas XXX /
 B (If "Gas", Production XXX / Underground storage / Deep / Shallow XXX /)
- 5) LOCATION: Elevation: 1015' Watershed: Back Run
 District: Union County: Ritchie Quadrangle: Harrisville
- 6) WELL OPERATOR Rare Earth Energy 11) DESIGNATED AGENT William R. Spatafore
 Address PO Box 172 Address 11 Meadow Lane
Clarksburg, West Virginia Bridgeport, West Virginia
- 7) OIL & GAS ROYALTY OWNER Shirley J. Varner 12) COAL OPERATOR ++++
 Address 615 Main Street Address
Harrisville, West Virginia 26362
 Acreage 17.5
- 8) SURFACE OWNER same as above 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Name ++++
 Address
- 9) FIELD SALE (IF MADE) TO:
 Address Consolidated Gas
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel N. Hershman (507)
 Address PO Box 66
Smithville, West Virginia 26178
- 15) PROPOSED WORK: Drill XXX / Drill deeper / Redrill / Fracture or stimulate
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 Other physical change in well (specify)
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- 17) Estimated depth of completed well 5990 feet
 18) Approximate water strata depths: Fresh, 80 feet; salt, feet.
 19) Approximate coal seam depths: none Is coal being mined in the area? Yes / No

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OIL & GAS DIVISION
DEPT. OF MINES

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	11 3/4			X		20'	20'	to surface		
Fresh water										
Coal										
Intermediate	8 5/8		20	X		700'	700'	to surface		by Rule 15-05
Production	4 1/2		5.55	X		5990'	5990'	520 SKS		Depth set or as req
Tubing										by Rule 15-01
Liners										Perforations:
										Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1(c) (1) through (4). (See reverse side for specifics.)
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 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)
 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____ Signed: William R. Spatafore
 My Commission Expires _____ Its: President

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-085-5969-REN. Date June 28 08/18/2023 83

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires February 28, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>126</u>
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Administrator, Office of Oil and Gas

Line Item Explanation

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- 2) Your well name and number
- 3) To be filled out by office of oil & gas
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- 11) See Reg. 7.01 relating to code §22-4-1k
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- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

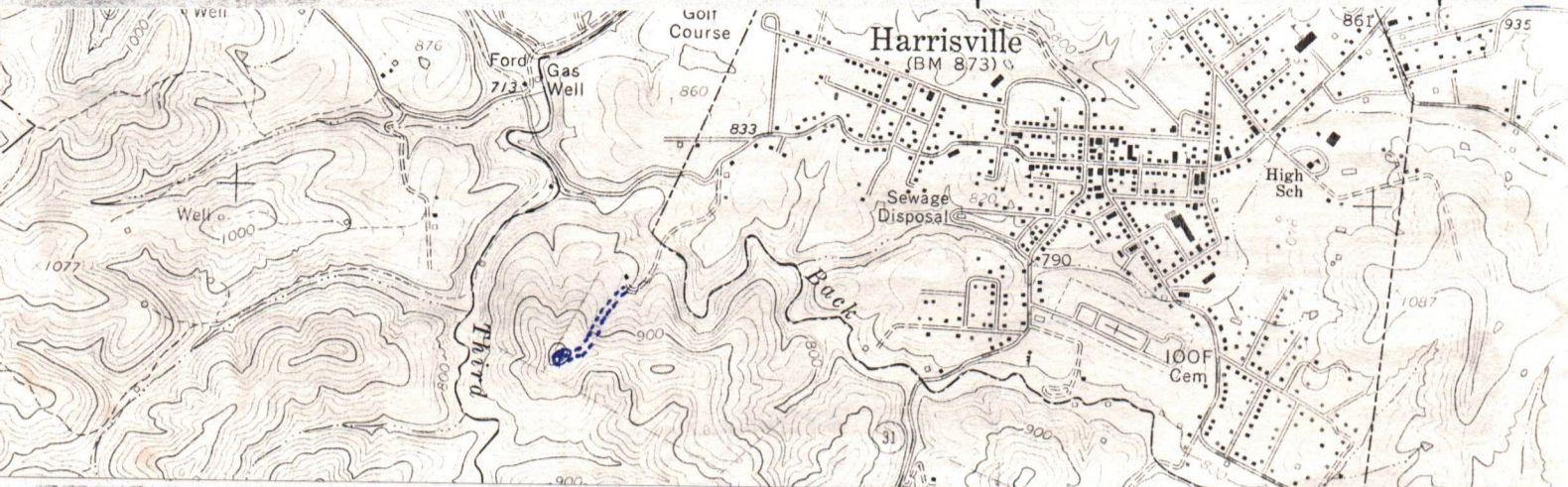
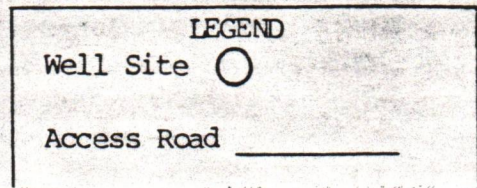
08/18/2023

Date: _____, 19_____

By _____

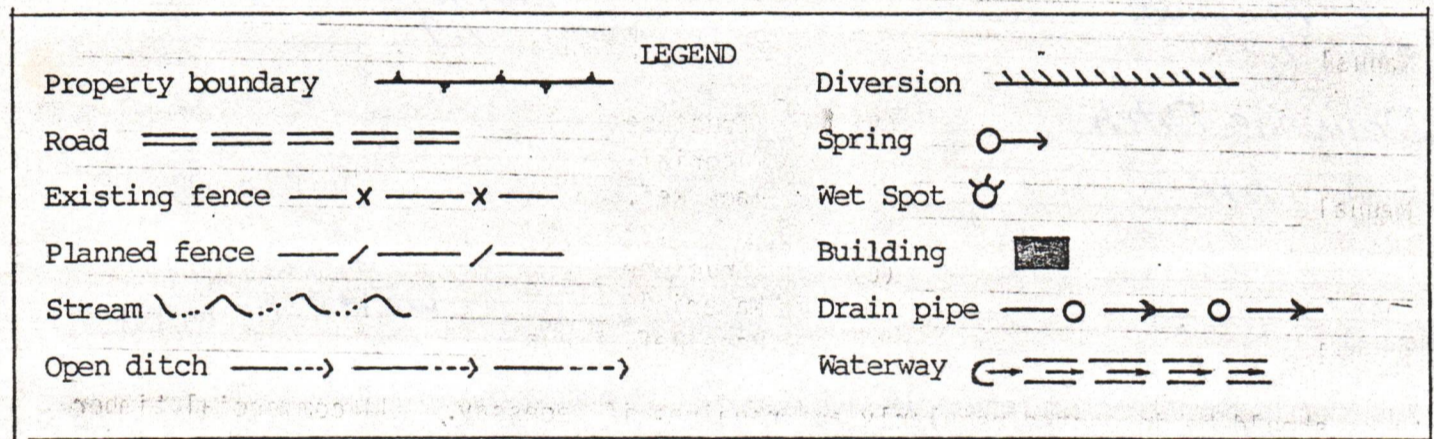
Its _____

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE _____

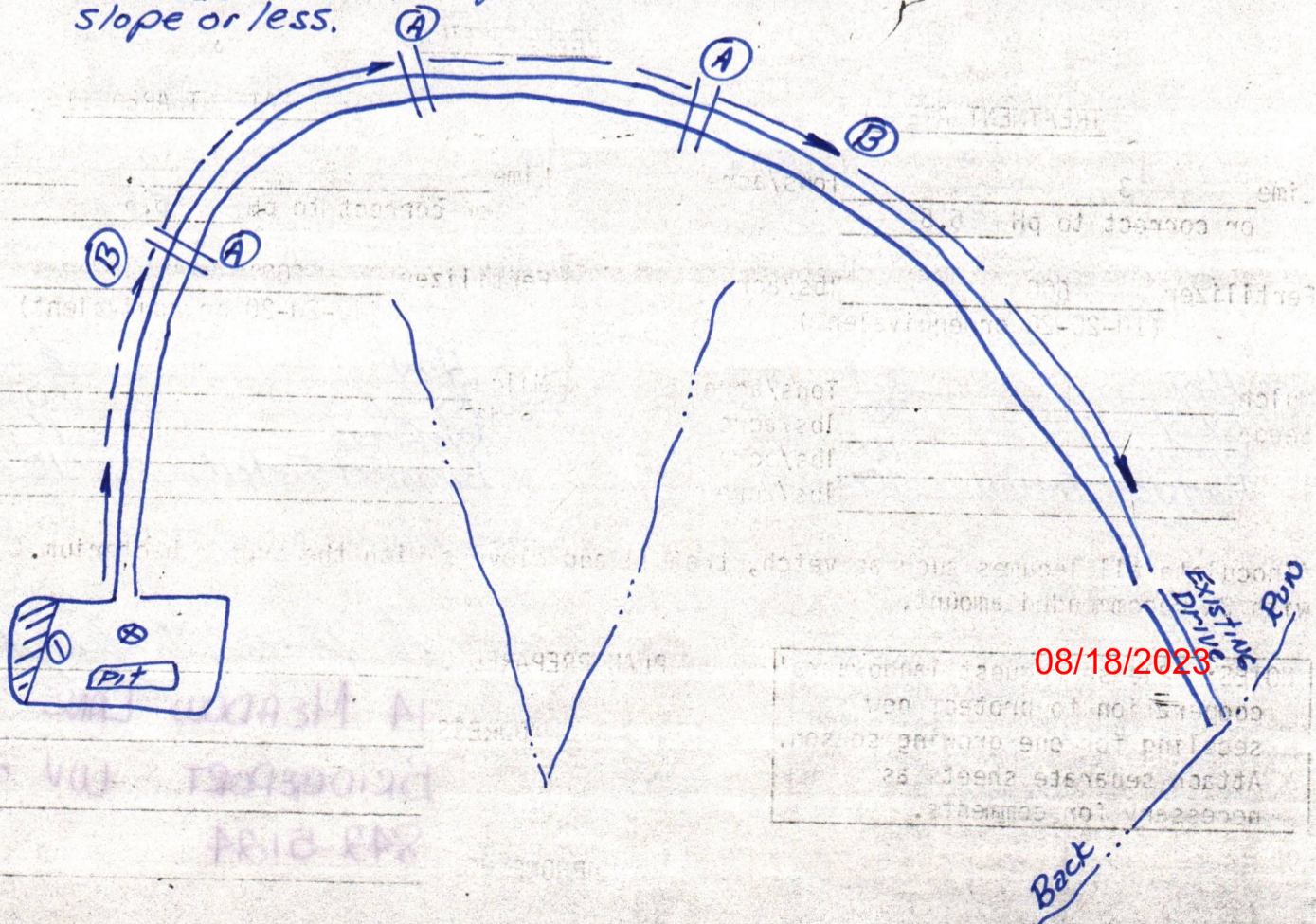


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



Comments: Road will be extended from existing driveway. All cuts will be made on a 2:1 slope or less. Road will be built on a 15° slope or less.





Date October 16, 1982
Well No. Varner #1
API No. 47 - 085 - 5969
State County Permit

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

Company Name Rare Earth Energy, Inc.
Address 14 Meadow Lane
Bridgeport, W. Va. 26330
Telephone 622-4001
Landowner Shirley Varner

Designated Agent William R. Spatafore
Address 14 Meadow Lane
Bridgeport, W. Va. 26330
Telephone 842-5124
Soil Cons. District Little Kanawha

Vegetation to be carried out by Halls Reclamation, Inc. (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections
and additions become a part of this plan. 10-25-82 (Date) Farrell Newton (SCD Agent)

ACCESS ROAD

LOCATION

Structure Culvert (A)
Spacing 12" Minimum
Page Ref. Manual 1:7

Structure Diversion Ditch (1)
Material Earthen
Page Ref. Manual 1:9

Structure Drainage Ditch (B)
Spacing _____
Page Ref. Manual 1:11

Structure _____ (2)
Material _____
Page Ref. Manual OCT 25 1982

Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Structure _____ (3)
Material _____
Page Ref. Manual _____
OIL & GAS DIVISION
DEPT. OF MINES

All structures should be inspected regularly and repaired if necessary. All commercial timber to be cut and stacked. All brush and small timber to be cut and removed from site before dirt work begins.

REVEGETATION

TREATMENT AREA I

TREATMENT AREA II

Lime 3 Tons/acre
or correct to pH 6.5

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre
Seed* Ky 31 30 lbs/acre
Rye Grass 10 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

Mulch Hay 2 Tons/acre
Seed* Ky 31 30 lbs/acre
Rye Grass 10 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY William R. Spatafore 08/18/2023
ADDRESS 14 MEADOW LANE
BRIDGEPORT WV 26330
PHONE NO. 842-5124

ch # 1067

AG

THIS OIL AND GAS LEASE, Made and entered into the 6th day of October

, 1982, by and between Shirley J. Varner
and Pauline V. Varner, his wife

615 West Main St Harrisonville
County of Ritchie, State of W. Va.

hereinafter called Lessors, whether one or more, and Robert E. Fox
P.O. Box 129 Glennville W. Va., hereinafter called Lessee.

1. For and in consideration of the sum of Two Thousand Seven Hundred Fifty
(\$ 2,750⁰⁰), the receipt of which is hereby acknowledged,
and of the covenants and agreements herein, Lessors do hereby lease unto the Lessee, his successors and assigns, for his exclusive use and pos-
session, for the purpose of exploring, operating for, producing, removing and marketing oil and gas, or either of them, and/or their constituents

and related by-products, by methods now known or hereafter discovered, all of that certain tract of land and/or oil and gas situate in
Union District, Ritchie County, West Virginia, on the waters of Third Run,

and bounded as follows:

On the North by N/F Shirley J. Varner, 12 1/2 A 71

On the East by N/F James Anderson

On the South by N/F James Anderson

On the West by N/F Orval Wince

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containing Seventeen and one half (17.5) acres, more or less,

and being the same land and/or oil and gas acquired by Lessors from Marion Woodring
by Deed of record

in Deed Book 140, page 322.

2. Lessee shall have all privileges and rights of way necessary or convenient for the purposes of this lease, including, but not limited to, the right to inject gas, air, water and other fluids into the formations in said land for recovering and producing the oil and gas; installing tanks, structures, and other equipment and appliances to take care of such products; laying pipelines on and across the leased premises and other adjacent lands of Lessors for the purpose of transporting oil, gas, steam, or water therein from and to wells and pipelines on the premises and adjoining farms; and rights of way for access roadways over this and other adjoining lands of the Lessors. No well shall be drilled within 200 feet of any dwelling now on the premises without the written consent of the owner thereof.

3. It is agreed that this lease shall remain in force for a primary term of Ninety Days (90 ^{days}) years from this date and as long thereafter as operations for oil and gas are being conducted on the premises, or oil and gas (or either of them) are produced in quantities therefrom.

4. The Lessee covenants and agrees:

1st - to deliver to the credit of the Lessors, their heirs or assigns, free of cost, in the pipeline, tanks or other facilities in which the Lessee may connect with its wells Their proportionate part of believed to be all a royalty of one-eighth (1/8) of the oil produced and saved from the leased premises or, at Lessee's option, he may sell such one-eighth of the oil produced and pay to the Lessors the price received from such sale:

2nd - to pay Their proportionate part of believed to be all a royalty of one-eighth (1/8) of the price received by Lessee at the well of the gas from each well drilled on the premises, the product of which is marketed and used off the premises; provided that the Lessee shall pay to the Lessors an amount equal to the pro-rated annual delay rental in this lease for any period of time after a well is completed while, through lack of market or available pipeline, gas therefrom is not sold or used off the premises, and while said payments are made, such well shall be deemed to be a paying well for the purpose of continuing the lease in force and effect. Lessee shall use reasonable diligence to market the gas capable of being produced from the leased premises but shall be under no obligation to market such gas under conditions which, in Lessee's good faith judgment, are unsatisfactory.

5. The Lessee shall pay a rental at the rate of Two Thousand Seven Hundred Fifty
Dollars (\$ 2,750⁰⁰) annually in advance, beginning on the

08/18/2023

date of this lease until, but not after, a well yielding royalty to the Lessors is drilled on the leased premises, and all rentals shall cease after the surrender of the lease as hereinafter provided. All payments for delay rentals and royalties may be made directly to the Lessors by check mailed to

Shirley J. Varner at 615 West Main St, Harrisonville

A9

State of W. Va, Zip Code 26362; or such payments

may be made in the same manner to _____ who is hereby appointed agent for Lessors. No change of ownership in the leased premises or in the rentals or royalties shall be binding on the Lessee until after notice to the Lessee in writing together with a certified copy of the written transfer or assignment. It is understood that the payment of delay rentals hereunder is adequate compensation for any delay in the development of the oil and gas and that the Lessee may drill or not drill as he elects.

6. If Lessors own less than a full interest in the oil and gas estate, then the royalties and rentals herein provided shall be paid to them only in the proportions which their interest bears to the whole interest in the oil and gas estate.

7. If Lessors own the surface, or any part thereof, they may lay a line to one producing gas well and take gas therefrom free for their own domestic use in one dwelling house on said land, out of any surplus over what Lessee may require to operate the lease, and subject to the use, operation, maintenance pumping and right of abandonment of the well by Lessee. Lessors are to provide economical appliances and to use said gas at their own risk, subject to reasonable rules and regulations of Lessee; or, if Lessors do not own any part of the surface, Lessee may, at his option and free of any charge from Lessors, permit the surface owner to use free gas under the foregoing conditions.

8. Lessee shall have the privilege of using free sufficient water from the premises necessary for drilling and operating thereon and may at any time remove all fixtures and machinery placed on said premises, including the right to draw and remove casing.

9. It is expressly agreed that if Lessee shall commence drilling operations at any time while this lease is in force, it shall remain in force and continue so long as such operations are prosecuted. "Operations" shall be deemed to be commenced when the first material or equipment is placed on the leased premises, or when the first work necessary for drilling (other than surveying or staking the location), is done thereon. If, after the expiration of the primary term of this lease, production from the leased premises shall cease from any cause, this lease shall not terminate if Lessee resumes operations within 60 days from such cessation and this lease shall remain in force during the prosecution of such operations, and if production results therefrom, then as long as oil or gas is produced in paying quantities.

10. Lessee shall pay Lessor for all damages to growing crops, fences, and trees caused by Lessee's operations and shall bury all permanent pipelines below plow depth through cultivated areas upon request of Lessors made before installation.

11. Lessee is authorized to deduct from any royalty payment, Lessors' proportionate part of all the excise, depletion, privilege, and/or production tax levied, assessed or charged on or against the oil and gas produced from the premises.

12. If the oil and gas underlying the leased premises are hereafter owned in severalty or in separate tracts, the premises, nevertheless, shall be developed and operated as an entirety, and royalties shall be paid to each separate owner of the oil and gas in the proportion that the acreage owned by him bears to the entire leased acreage.

13. Lessee, his successors and assigns, shall have the right at any time to surrender this lease or any part thereof after which time all payments and liabilities hereunder shall cease and terminate; and if the whole is surrendered, then this lease shall become null and void. The surrender may be made to the Lessors, their heirs or assigns, by delivery of an executed surrender in person or by mail addressed to said persons, or by recording a duly executed surrender in the County Clerk's office.

14. The Lessee at his option may pay, discharge or redeem any taxes, mortgages, or other liens existing, levied or assessed on or against the leased property; and in the event he exercises said option, he shall be subrogated to the rights of the holders thereof and may reimburse himself by applying any royalty or rentals accruing thereunder to the discharge of such charges.

15. No default shall be declared against the Lessee by the Lessors for failure of the Lessee to make any payment or perform any condition provided for herein unless the Lessee shall refuse or neglect to pay or perform the same within sixty (60) days after having received written notice by certified mail from the Lessors of their intention to declare such default.

16. In the event of force majeure, or Lessee's inability, anticipatory or otherwise, to market oil or gas from the property to the nearest pipeline company at the then maximum lawful price for the oil and gas of the same vintage, upon notice thereof to Lessors, all time periods provided for herein shall be tolled during such period, provided Lessee shall pay delay rentals at the rate provided for herein.

17. Should any of the parties named herein as Lessor fail to execute this lease, it shall nevertheless be binding upon all such parties who do execute it as Lessor.

18. Other provisions: _____

19. This lease shall be binding upon the parties thereto, their heirs, successors and assigns.

WITNESS the following signatures:

x Shuly J. Warner 235-2065-68
x Pauline Warner

RECEIVED 08/18/2023
OCT 25 1982
OIL & GAS DIVISION
DEPT. OF MINES

STATE OF W. Va,
COUNTY OF Pitche, to-wit:

A10

The foregoing instrument was acknowledged before me this 6th day of October, 19 82,

by Shirley J. Varner and
Pauline V. Varner

Robert Gay Hall
NOTARY PUBLIC

My Commission Expires 29 Sept 1991

STATE OF _____,
COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19 _____,

by _____.

NOTARY PUBLIC

My Commission Expires _____

STATE OF _____,
COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19 _____,

by _____.

NOTARY PUBLIC

My Commission Expires _____

STATE OF _____,
COUNTY OF _____, to-wit:

The foregoing instrument was acknowledged before me this _____ day of _____, 19 _____,

by _____.

RECEIVED
OCT 25 1982

NOTARY PUBLIC

My Commission Expires _____

OIL & GAS DIVISION
DEPT. OF MINES

08/18/2023

This lease prepared by, or under the direction of Robert E. Fox and completed by _____.

AN

THIS ASSIGNMENT OF OVERRIDING ROYALTY, Made this 22 day October, 1982, by and between ROBERT E. FOX and TERRY H. FOX, his wife, of Glenville, West Virginia, hereinafter referred to as ASSIGNORS, and EMMETT L. RICHARDS of Cairo, West Virginia, hereinafter referred to as ASSIGNEE.

WITNESSETH: That for and in consideration of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, the Assignors hereby assign, transfer and convey unto the Assignee, an overriding royalty interest of One-Sixteenth (1/16) of the oil and gas produced, saved and sold under the provisions of the following two Leases:

a. Lease dated October 6, 1982 and recorded in the Ritchie County Clerk's Office in Lease Book 149, page 390, from Shirley J. Varner and Pauline V. Varner, his wife, to Robert E. Fox, for 17.5 acres in Union District of Ritchie County, West Virginia.

b. Lease dated October 6, 1982, and recorded in the Ritchie County Clerk's Office in Lease Book 149, page 387, from Shirley J. Varner and Pauline V. Varner, his wife, et al., to Robert E. Fox, for 12.5 acres in Union District, Ritchie County, West Virginia.

Said overriding royalty shall be free and clear of all costs of development and operations but shall bear and pay its proportionate part of applicable taxes and transportation charges, if any.

If said lease covers less than the entire oil and gas estate in the lands covered thereby, the overriding royalty herein conveyed as to such leases shall be proportionately reduced.

Terry H. Fox joins in this Assignment to release her inchoate right of dower, if any in the leasehold estates.

WITNESS the following signatures:

Robert E. Fox
Robert E. Fox

Terry H. Fox
Terry H. Fox

STATE OF WEST VIRGINIA,
COUNTY OF BARBOUR, SS:

The foregoing instrument was acknowledged before me this 22 day of October, 1982, by Robert E. Fox and Terry H. Fox.

My Commission expires 10 April 1990.

Paul Smith
NOTARY PUBLIC

This instrument prepared by Gerald M. Fogg, Attorney, Philippi, WV

08/18/2023

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OCT 25 1982

OIL & GAS DIVISION
DEPT. OF MINES

A 12

THIS ASSIGNMENT, Made this 22 day of October, 1982, by and between ROBERT E. FOX and TERRY H. FOX, his wife, of Glenville, West Virginia, ASSIGNORS, and RARE EARTH, ENERGY, INC., a West Virginia corporation, at P. O. Box 172, Clarksburg, West Virginia 26301, ASSIGNEE.

WITNESSETH: That for the sum of One Dollars (\$1.00) and other valuable consideration, the Assignor does grant, convey, and assign unto the Assignee, according to the covenants and agreements contained therein, all its right, title, and interest in and to those certain oil and gas leasehold estates situate in Union District, Ritchie County, West Virginia, listed as follows:

a. Lease dated the 6th day of October, 1982, and recorded October 13, 1982, in the Clerk's Office of the County Commission of Ritchie County, West Virginia, in Lease Book 149, page 387, between Shirley J. Varner and Pauline V. Varner, his wife, and Ralph H. Hatfield and Obrie Hatfield, his wife, and Robert E. Fox, for their proportionate interests in a tract of land in Union District, Ritchie County, on the waters of Back Run, containing 12.5 acres, or less, and continuing for a primary term of 90 days.

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OCT 25 1982

OIL & GAS DIVISION
DEPT. OF MIN

b. Lease dated the 6th day of October, 1982, and recorded October 13, 1982, in the Clerk's Office of the County Commission of Ritchie County, West Virginia, in Lease Book 149, page 390, between Shirley J. Varner and Pauline V. Varner, his wife, and Robert E. Fox, for their proportionate interests in a tract of land in Union District, Ritchie County, on the waters of Third Run, containing 17.5 acres, more or less, and continuing for a primary term of 90 days.

This Assignment is subject to the following terms and conditions:

1. ASSIGNEE shall comply with, observe and perform all the terms, covenants, conditions, and agreements contained in the Leases.

2. ASSIGNEE shall be responsible for all operations to be performed under this Assignment and to protect, indemnify and save Assignor harmless from and against any and all liability, loss and damage arising from or in connection with its own operations.

3. Upon completion of the drilling and stimulation of any well or plugging operation, the Assignee shall restore the area as near as possible to its original condition. This obligation shall include, by way of illustration, but not limited to, the restoration of all existing roadways, all roads constructed on the premises, drill

08/18/2023

sites, pits and other excavations created on the premises by the Assignee and the removal of all loose material and equipment brought on to the premises by Assignee.

4. This Assignment is made without warranty of title, express or implied other than to represent that the Assignor has paid all delay rentals in full and has not previously assigned or granted to any person or corporation, drilling rights or title to the leasehold estate herein granted, except as stated herein. Assignee agrees to assume all future rental payments.

5. This assignment is expressly made subject to an Assignment of an overriding royalty of 1/16th of the oil and gas produced and saved under said Leases as set forth in an instrument from Robert E. Fox and Terry H. Fox, his wife, to Emmett L. Richards dated the ____ day of October, 1982, to be recorded in said Clerk's Office simultaneously with this Assignment.

6. This Assignment is further made subject to all exceptions, reservations and conditions contained in the instruments of record pertaining to the lands covered herein and it shall be binding and inure to the benefit of the respective successors and assigns of the Assignor and Assignee.

7. Terry H. Fox joins in this Assignment only to release her inchoate right of dower, if any, in said leasehold estates.

WITNESS the following signatures:

Robert E. Fox
Robert E. Fox
Terry H. Fox
Terry H. Fox

STATE OF WEST VIRGINIA,
COUNTY OF GILMER, SS:

The foregoing instrument was acknowledged before me this 22 day of October, 1982, by Robert E. Fox and Terry H. Fox.

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OCT 25 1982

08/18/2023

OIL & GAS DIVISION
DEPT. OF MINES

My Commission expires 10 April 1990.

Paul Dilt

NOTARY PUBLIC

This instrument prepared by
Gerald M. Fogg
Attorney at Law
Philippi, WV

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OIL & GAS DIVISION
DEPT. OF MINES

08/18/2023

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1st Stage: Devonian Shale
Perfs: 4415 - 4798' Fraced with 500 Gal. Acid and 1,250,000 SCF Nitrogen

2nd Stage: Devonian Shale
Perfs: 3259 - 4338' Fraced with 1,000 Gal. Acid and 2,250,000 SCF Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock & Shale, red & gray, soft			0	40'	water @ 40'
Shale, gray, soft			40'	75'	
Red Rock, red, soft			75'	400'	
Shale, gray, soft			400'	460'	
Red Rock, red, soft			460'	800'	
Shale, gray-blue, soft			800'	1350'	
Shale, gray, soft			1350'	1435'	
Shale, black, soft			1435'	1460'	
Sand, white, hard			1460'	1490'	
Shale, gray, soft			1490'	1860'	
Lime, white, hard			1860'	1980'	smell of gas
Injun, white, soft			1980'	1990'	
Shale, gray, soft			1990'	4950'	
					TD - 4954'
<u>LOG TOPS</u>					
Maxton			1763'		
Little Lime			1852'		
Big Lime			1886'		
Big Injun			1940'		
Squaw			2163'		
Weir			2330'		
Berea			2543'		
Gordon			2828'		
Devonian Shale			2941'		
TD			4949'		

(Attach separate sheets as necessary)

RARE EARTH INCORPORATED
Well Operator
By: *[Signature]* 08/18/2023
ITS CONSULTANT
Date: November 1, 1983

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



IV-35
(Rev 8-81)

RECEIVED
NOV 3 - 1983

State of West Virginia
Department of Mines
Oil and Gas Division

Date November 1, 1983
Operator's
Well No. #1
Farm Varner
API No. 47 - 085 - 5969 Ren.

OIL & GAS DIVISION
DEPT. OF MINES WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
NOV 14 1983

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X)

OIL & GAS DIVISION

DEPT. OF MINES

LOCATION: Elevation: 1015' Watershed Back Run
District: Union County Ritchie Quadrangle Harrisville

COMPANY Rare Earth Energy, Inc.
ADDRESS P.O. Box 172, Clarksburg, WV 26301
DESIGNATED AGENT William R. Spatafore
ADDRESS 14 Meadow Lane, Bridgeport, WV 26330
SURFACE OWNER Shirley J. Varner
ADDRESS 615 Main Street, Harrisville, WV 26362
MINERAL RIGHTS OWNER Shirley J. Varner
ADDRESS 615 Main Street, Harrisville, WV 26362
OIL AND GAS INSPECTOR FOR THIS WORK Samuel N. Hershman
ADDRESS P.O. Box 66 Smithville, WV 26178
PERMIT ISSUED June 1, 1983
DRILLING COMMENCED 10-01-83
DRILLING COMPLETED 10-06-83

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	20'	0'	
9 5/8			
8 5/8	1192'	1192'	265 ft ³
7			
5 1/2			
4 1/2	4900'	4900'	501 ft ³
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5990 feet
Depth of completed well 4954 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 40 feet; Salt _____ feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3259 - 4338 / 4415 - 4798 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 600 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 800 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

08/18/2023

(Continue on reverse side)

Ritchie 5969 Ren.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 85-5969 Ren

Oil or Gas Well _____
(KIND)

Company <u>Rare Earth Energy</u> Address _____ Farm <u>Shirley J. Varner</u> Well No. <u>Varner #1</u> District <u>Union</u> County <u>Pitche</u> Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			
	16			Kind of Packer _____
	13			
	10			Size of _____
	8 1/4			
	6 5/8			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
Liners Used			Perf. top _____	
			Perf. bottom _____	

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Visit- trying to pull drill pipe 1260' deep

Oct-2-83
DATE

Samuel N. H.
08/18/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.
DATE

DISTRICT WELL INSPECTOR
08/18/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED

OCT 11 1983

OIL & GAS DIVISION
INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 85-5969 Ren

Oil or Gas Well _____
(KIND)

Company Rare Earth Energy
 Address _____
 Farm Shirley J. Varner
 Well No. Varner #1
 District Union County Ritchie
 Drilling commenced 10-1-83
 Drilling completed 10-5-83 Total depth 4950
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 40 feet _____ feet
Small amount
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: Completion Report
T.D. Hole 4950 - Logging hole
On-10-3-83 Ran 1207' of 8 5/8 casing
Now SCO Ran 300 sacks Cement 3% cc

10-5-83
DATE

Samuel N. P.
08/18/2023
DISTRICT WELL INSPECTOR

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST	

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.
DATE

DISTRICT WELLS INSPECTOR
08/18/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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OCT 1 - 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 85-5969 REN

Oil or Gas Well _____
(KIND)

Company <u>Rare Earth Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Varner</u>	16			Kind of Packer _____
Well No. <u>Varner #1</u>	13			
District <u>Union</u> County <u>Ritchie</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 1/2			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

STATUS REPORT

Remarks: Check reclamation on location and access road - Found reclamation on location OK - but access road has no cross ditches to prevent erosion. Did not release, notified Rare Earth Energy to comply with regulations on reclamation.

9-26-84

DATE

Samuel N. Heroman
DISTRICT WELL INSPECTOR

08/18/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

08/18/2023
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
FINAL INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
SEP 24 1985

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Permit No. 085-5969REN

County Ritchie

Company Rare Earth Energy, Inc.

District Union

Inspector SAMUEL N. HERSMAN

Farm Shirley J. Varner

Date November 21, 1983

Well No. 1 Issued 6-28-83

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification prior to starting work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before drilling to prevent waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.03	High-pressure drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required permits at wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.03	Adequate fresh water casing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate coal casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate production casing	<input type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate cement strength	<input type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained access roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary equipment to prevent waste	<input type="checkbox"/>	<input type="checkbox"/>
23.03	Reclaimed drilling site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed drilling pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No surface or underground pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMMENTS: _____

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: Samuel N. Hersman

DATE: 9-19-85

08/18/2023

RECEIVED
OCT 9 1982

DEPARTMENT OF ENERGY
DIVISION OF OIL & GAS

08/18/2023



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 DIVISION OF OIL AND GAS
 1615 Washington Street, East
 Charleston, West Virginia 25311
 Telephone: 348-3500

ARCH A. MOORE, JR.
 Governor

September 30, 1985

Rare Earth Energy, Incorporated
 Post Office Box 172
 Clarksburg, West Virginia 26301

In Re: Permit No: 47-085-5969-REN
 Farm: Shirley Varner
 Well NO: 1
 District: Union
 County: Ritchie
 Issued: 6-28-83

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. ONLY the Column checked below applies:

 The well designated by the above captioned permit number has been released under your Blanket Bond.

 Please return the enclosed cancelled single bond which covered the well designated by the above captioned permit number to the surety company that executed said bond in your behalf, in order that they may give you credit on their records.

Your well record was received and reclamation requirements approved. In accordance with Chapter 22B, Article 1, Section 26, the above captioned well will remain under XXXX bond coverage for life of the well.

 PERMIT CANCELLED - NEVER DRILLED

Respectively,

Theodore M. Streit

TMS/nw

08/18/2023