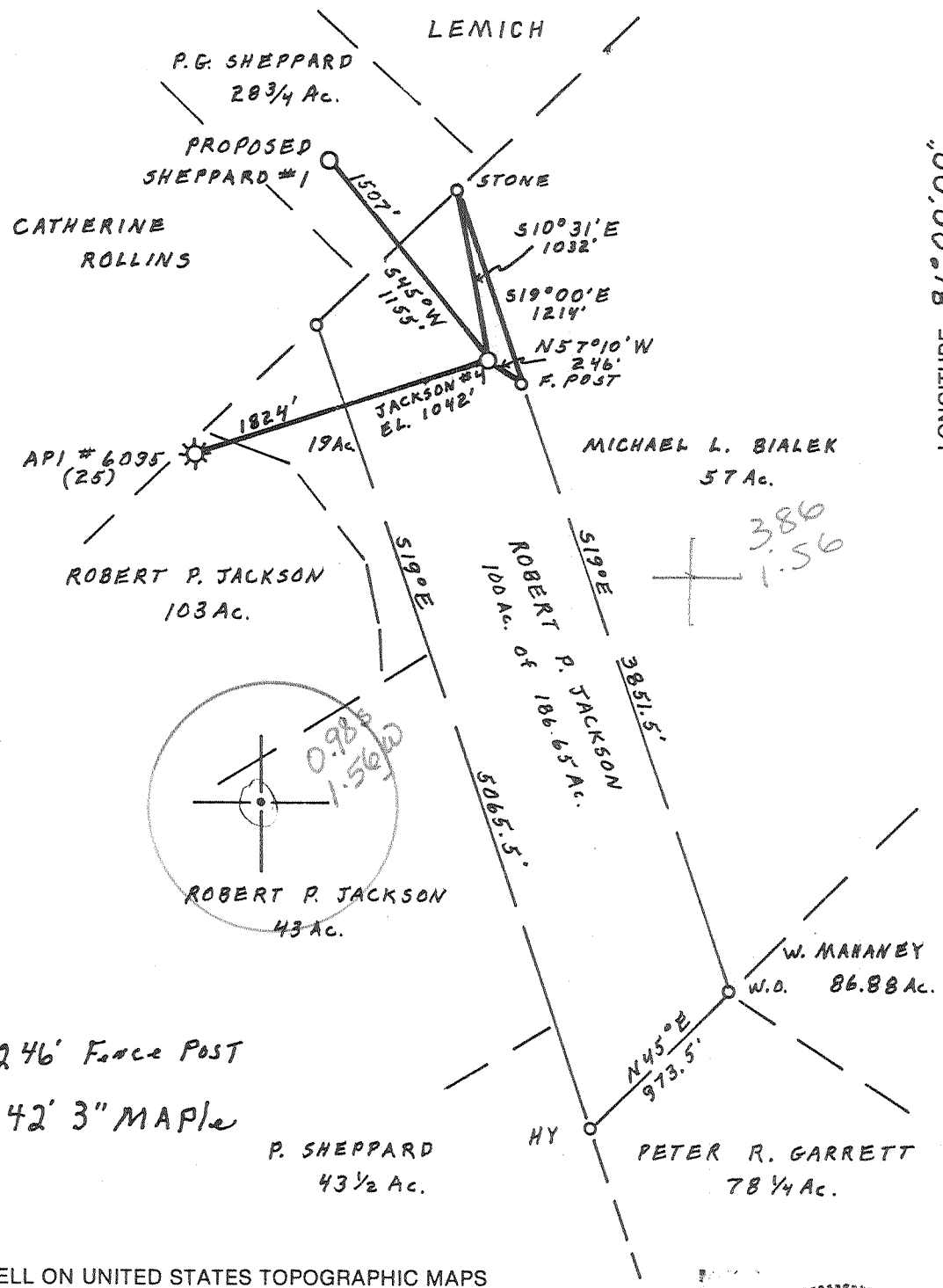


8,300' 39 20

LATITUDE 39°17'30"

LONGITUDE 81°00'18" 10,525'

NORTH

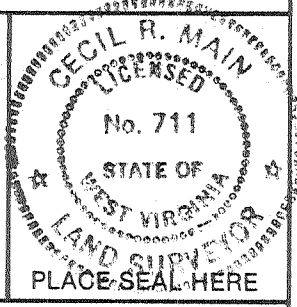


REF: N57°10'W 246' Fence Post
 S30°25'W 142' 3" MAPle

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'
 PROVEN SOURCE OF ELEVATION WELL API #6184
EL. 1078

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 MINES.
 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MARCH 18, 1985
 OPERATOR'S WELL NO. JACKSON #4
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1042 WATERSHED STEWART RUN
 DISTRICT CLAY COUNTY RITCHIE
 QUADRANGLE ELLENBORO 7.5' 337 116 SEq St Marys
 SURFACE OWNER ROBERT P. & MALINDA J. JACKSON ACREAGE 186.65
 OIL & GAS ROYALTY OWNER ROBERT P. & MALINDA JACKSON LEASE ACREAGE 186.65
 LEASE NO. _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5900'
 WELL OPERATOR RARE EARTH ENERGY, INC. DESIGNATED AGENT BILL BOWIE
 ADDRESS P.O. BOX 172 ADDRESS P.O. BOX 172
CLARKSBURG, W. Va. 26301 CLARKSBURG, W. Va. 26301
OWWO 6-6 Ellenboro (PA)

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT

8,300'

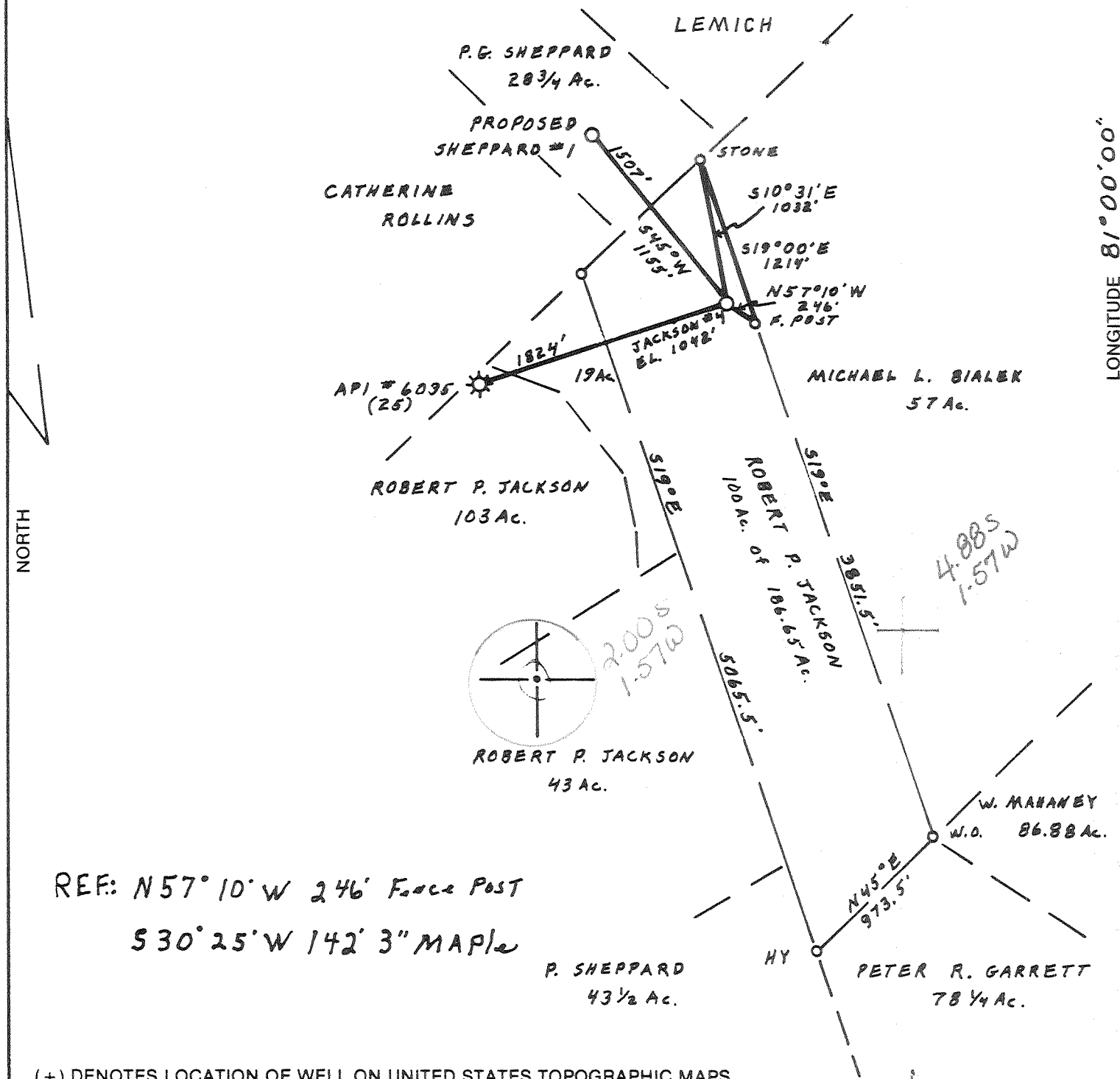
39 20

LATITUDE 39°17'30"

CODE _____ CARD _____ PLOT ✓✓

NORTH

LONGITUDE 81°00'18"

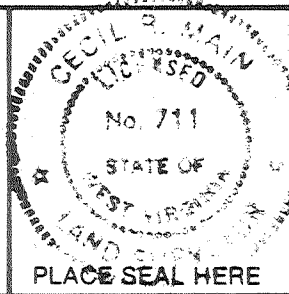


REF: N57°10'W 246' Face Post
 S30°25'W 142' 3" Maple

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF
 ACCURACY 1 PART IN 200'
 PROVEN SOURCE OF
 ELEVATION WELL API # 6184
EL. 1078

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF MINES.
 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MARCH 18, 1985
 OPERATOR'S WELL NO. JACKSON #4
 API WELL NO. _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 1042 WATERSHED STEWART RUN
 DISTRICT CLAY COUNTY RITCHIE

QUADRANGLE ELLEN BORO 35 7.5' St. Marys 15' SE 9
 SURFACE OWNER ROBERT P. & MALINDA J. JACKSON 116 ACREAGE 186.65
 OIL & GAS ROYALTY OWNER ROBERT P. & MALINDA JACKSON LEASE ACREAGE 186.65

LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5900'
 WELL OPERATOR RARE EARTH ENERGY, INC. DESIGNATED AGENT BILL BONIE
 ADDRESS P.O. BOX 172 740 ADDRESS P.O. BOX 172
CLARKSBURG, W. Va. 26301 CLARKSBURG, W. Va. 26301

APR 01 1985

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT

6-6 Ellenboro (84)

IV-35
(Rev 8-81)

RECEIVED
JUL 26 1988



State of West Virginia

Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date July 20, 1988
Operator's Jackson #4
Well No. Jackson #4
Farm Jackson
API No. 47 - 085 - 7362 Fr

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1042 Watershed Stewarts Run
District: Clay County Ritchie Quadrangle Ellenboro

COMPANY RARE EARTH ENERGY, INC.
ADDRESS P. O. Box 172, Clarksburg, WV 26302
DESIGNATED AGENT Robert Gary Hall
ADDRESS P. O. Box 172, Clarksburg, WV 26302
SURFACE OWNER Robert P. Jackson
ADDRESS Rt. 1, Box 83, Harrisville, WV 26362
MINERAL RIGHTS OWNER Robert P. Jackson
ADDRESS Rt. 1, Box 83, Harrisville, WV 26362
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hershman
ADDRESS P. O. Box 66, Smithville, WV
PERMIT ISSUED 5/30/86
REWORK
DRILLING COMMENCED 6/6/86
DRILLING COMPLETED

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	SEE ORIGINAL		
13-10"	FOR CASING		
9 5/8	DIAGRAM		
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2400 - 2500 feet
Depth of completed well 5200 feet Rotary x / Cable Tools ___
Water strata depth: Fresh 30 feet; Salt ___ feet
Coal seam depths: none Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation ___ Pay zone depth ___ feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 750 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 days hours
Static rock pressure 450 psig (surface measurement) after 10 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

(Continue on reverse side)

AUG 01 1988

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

GORDON, BEREA, WEIR, BIG INJUN (2000 - 2912) - 9 shots 12,000 lb. sand, 100 MCF N₂
750 Gal. 15% Hcl

RECEIVED
JUL 26 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

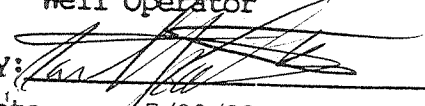
WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
					<p>SEE ORIGINAL FOR</p> <p>WELL</p> <p>LOG</p>

(Attach separate sheets as necessary)

RARE EARTH ENERGY, INC.

Well Operator

By: 

Date: 7/20/88

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
minerals, encountered in the drilling of a well."

6230

RECEIVED

IV-35
(Rev 8-81) OIL & GAS DIVISION
DEPT. OF MINES

APR 17 1985



State of West Virginia
Department of Mines
Oil and Gas Division

Date April 11, 1985
Operator's
Well No. Jackson #4
Farm Jackson
API No. 47 085 - 7362

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1042 Watershed Stewarts Run
District: Clay County Ritchie Quadrangle Ellenboro

COMPANY Rare Earth Energy, Inc.

ADDRESS P. O. Box 172, Clarksburg, WV 26301

DESIGNATED AGENT Bill Bowie

ADDRESS P. O. Box 172, Clarksburg, WV 26301

SURFACE OWNER Robert P. Jackson

ADDRESS Rt. 1, Box 83, Harrisville, W. Va. 26362

MINERAL RIGHTS OWNER Robert P. Jackson

ADDRESS Rt. 1, Box 83, Harrisville, WV 26362

OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hershman
ADDRESS P. O. Box 66, Smithville,

PERMIT ISSUED 3/25/85

DRILLING COMMENCED 3/26/85

DRILLING COMPLETED 3/30/85

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	30	30	
8 5/8	1220	1220	330 sks.
7			
5 1/2			
4 1/2	4984	4984	375 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5125 feet

Depth of completed well 5200 feet Rotary x / Cable Tools _____

Water strata depth: Fresh 30 feet; Salt _____ feet

Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson-Rileys Pay zone depth 4350-4900 feet

Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 498 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 days hours

Static rock pressure 1200 psig (surface measurement) after 10 hours shut in
(If applicable due to multiple completion--)

Second producing formation Balltowns & Speechley Pay zone depth 3528-4323 feet

Gas: Initial open flow 30 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 498 Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 days hours

Static rock pressure 1200 psig (surface measurement) after 10 hours shut in

(Continue on reverse side)
APR 29 1985

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

- 1) 4782-4900 20 shots 1 million scf N₂ frac, 16 bbls. of 15% HCL.
- 2) 4578-4599 10 shots half million scf N₂ frac, 12 bbl. of 15% HCL.
- 3) 3874-4356 22 shots one million scf N₂ frac, 11 bbl. of 15% HCL.
- 4) 3528-3736 20 shots one million scf N₂ frac, 13 bbl. of 15% HCL.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soils			0	75	Damp 30
Shales and RedRock			75	300	
Sandstone and Shales			300	1000	
Shales and RedRock			1000	1200	
Sand and Shales			1200	1800	
Shales			1800	1904	
Big Lime			1904	2000	
Big Injun			2000	2032	
Shales			2032	2075	
Weir			2075	2120	
Shales			2120	2244	
Berea			2244	2253	
Shales			2253	2435	
Sandstone			2435	2452	
Shales			2452	2500	
Sandstones			2500	2525	
Shales			2525	2620	
Sandstones			2620	2640	
Shales			2640	2908	
Gordon			2908	2912	
Shales			2912	3508	
Speechley			3508	3553	
Shales			3553	4348	
Rileys			4348	4580	
Shales			4580	4780	
Benson			4780	4900	
Shales			4900	5125	
Alexander			5125	5150	
Shales			5150	T. D.	
T. D.			5200		

Angola @ T.D.

5200
 1042

 4158
 3790

 368

3790
 1042

 4832

(Attach separate sheets as necessary)

RARE EARTH ENERGY, INC.

Well Operator

By:

Date:

April 15, 1985

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."

7/85



1) Date: May 15, 1986
 2) Operator's Well No. Jackson #4
 3) API Well No. 47 085-7362 FRAC
 State County Permit

RECEIVED
MAY 22 1986

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 1042 Watershed: Stewart Run
 District: Clay 7401 County: Ritchie Quadrangle: Ellenboro 7.5 337
- 6) WELL OPERATOR Rare Earth Energy CODE: 40900 7) DESIGNATED AGENT Noble W. Zickefoose, Jr.
 Address P. O. Box 172 Address P. O. Box 172
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel Hershman
 Address P. O. Box 66
Smithville, WV
- 9) DRILLING CONTRACTOR: Name Clint Hurt
 Address P. O. Box 1973
Midland, Texas 70702
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Gordon (2400 - 2500) 419-2500' depth
- 12) Estimated depth of completed well, 5900+ feet
- 13) Approximate trata depths: Fresh, 80 feet; salt, _____ feet.
- 14) Approximate coal seam depths: none Is coal being mined in the area? Yes / No /

15) 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		
Conductor	11 3/4			X		30	30	circ. cement	Kinds surface neat
Fresh water									
Coal									Sizes
Intermediate surface	8 5/8			X		1142 1220	1142 1220	330 SKS cts. neat	By Rule 15.05
Production	4 1/2			X		5900 4984	5900 4984	as necessary	Depths set By Rule 15.01
Tubing								375 SKS	
Lin...									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-7362-F Date May 30 1986

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires May 30, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AS</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>1587</u>	WPCP: <u>FIRE TANK</u>	S&E: <u>AS</u>	Other:
---	------------------	-----------------	-------------------	------------------	------------------------	----------------	--------

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

FILE COPY
RECEIVED

MAR 22 1985



1) Date: March 20, 19 85
2) Operator's Well No. Jackson #4
3) API Well No. 47 - 085 - 7362
State County Permit

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

OIL & GAS DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production Underground storage Deep Shallow)
5) LOCATION: Elevation: 1042 Watershed: Stewart Run
District: Clay County: Ritchie Quadrangle: Ellenboro 7.5
6) WELL OPERATOR Rare Earth Energy, Inc. 40900 7) DESIGNATED AGENT Bill Bowie
Address P. O. Box 172 Address P. O. Box 172
Clarksburg, W. Va. 26301 Clarksburg, W. Va. 26301
8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel Hershman 9) DRILLING CONTRACTOR: Name Clint Hurt
Address P. O. Box 66 Address PO Box 1973
Smithville, W. Va. Midland, Texas 79702
10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____
11) GEOLOGICAL TARGET FORMATION, Alexander
12) Estimated depth of completed well, 5900' feet
13) Approximate strata depths: Fresh, 80 feet; salt, _____ feet.
14) Approximate coal seam depths: none Is coal being mined in the area? Yes / No

15) 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		
Conductor	11 3/4			X		40	40	circ. cement to surface neat	
Fresh water									
Coal surface									Sizes
Intermediate	8 5/8			X		1142	1142	cts. neat	By Rule 15.05
Production	4 1/2			X		5900	5900	as necessary	By Rule 15.01
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-085-7362 Date March 25, 19 85

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 25, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
127	SW	Int. Gmt.	Gmt.	1017

James Tepheloch
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File