

*Janie*  
4/26/96

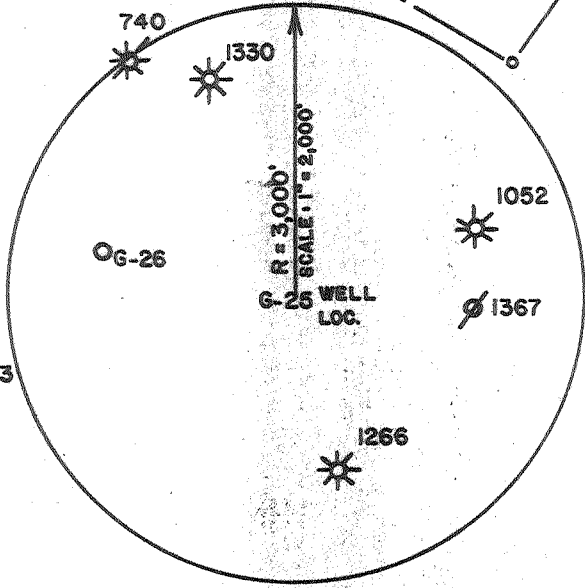
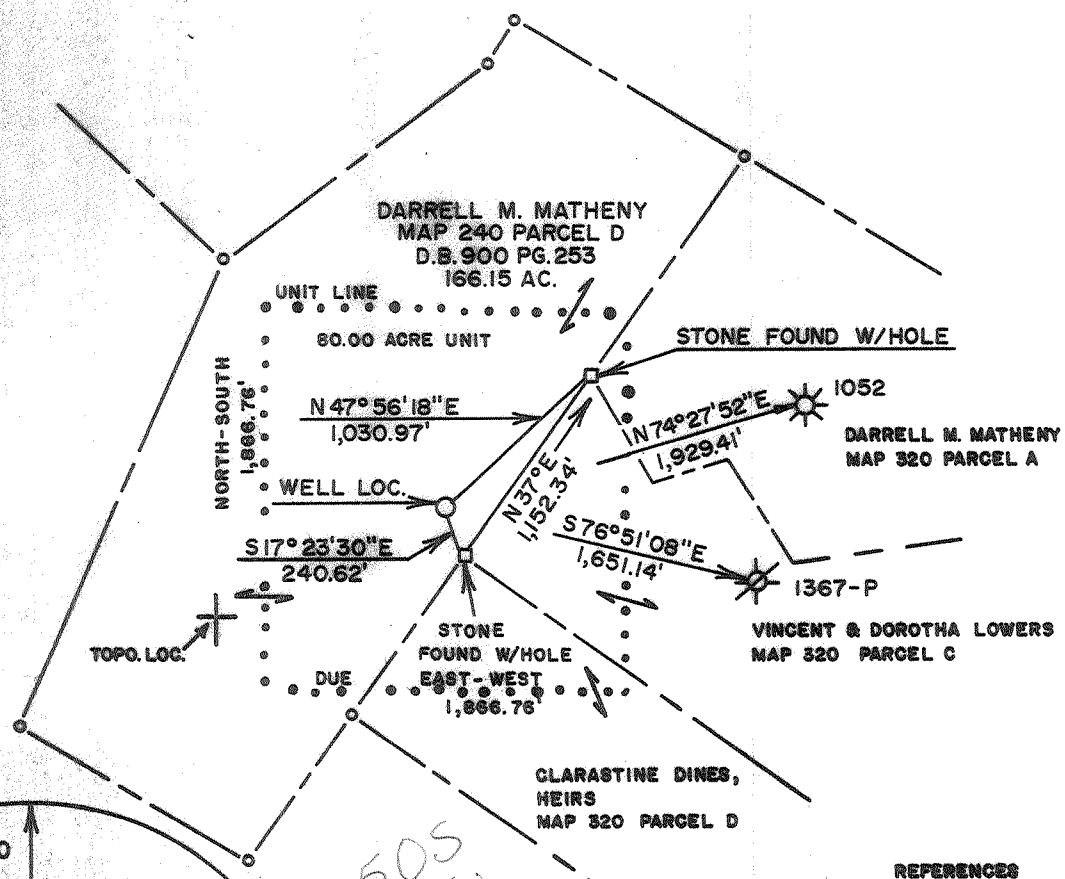
9,700'

LATITUDE 39° 15' 00"

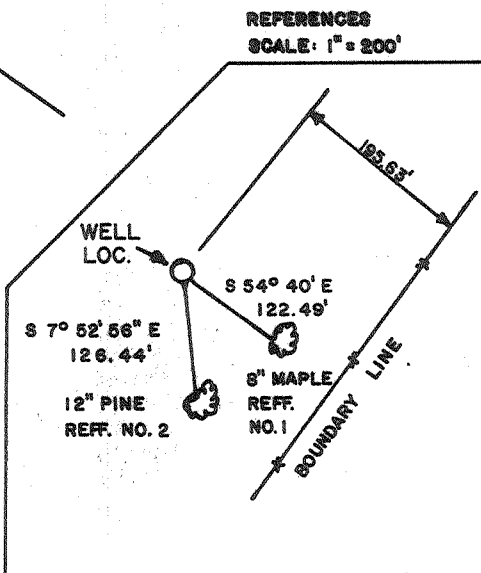
LONGITUDE 81° 37' 30"

7,750'

NORTH



1505  
1050



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

FILE NO. C. DUPONT I  
DRAWING NO. 107-96-02  
SCALE 1"=1000'  
MINIMUM DEGREE OF  
ACCURACY 1' IN 200'  
PROVEN SOURCE OF  
ELEVATION SPOT ELEV. AT  
INTERSECTION OF ROAD

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 ENERGY  
(SIGNED) [Signature]  
R.P.E. 7215 L.L.S. 1423

PLACE SEAL HERE

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



DATE MARCH 2, 1996  
OPERATOR'S WELL NO. G-25  
API WELL NO.

47-107-01568

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 706.18' WATER SHED \_\_\_\_\_  
DISTRICT LUBECK COUNTY WOOD  
QUADRANGLE LUBECK 75'

SURFACE OWNER DARRELL M. MATHENY ACREAGE 166.15  
OIL & GAS ROYALTY OWNER DARRELL M. MATHENY LEASE ACREAGE \_\_\_\_\_  
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)  
Berea, Devonian Shale and Oriskany

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH 4400'

WELL OPERATOR ENERGY SEARCH INC. DESIGNATED AGENT HAROLD W. WILSON  
ADDRESS 280 FORT SANDERS BLVD. ADDRESS P.O. BOX 1525, PARKERSBURG, WV. 26102  
KNOXVILLE, TN. 37922

5014 6-6 357

COUNTY NAME PERMIT

APR 26 1996

**AUG 15 1996**

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

WV Division of Environmental Protection  
 Well Operator's Report of Well Work

Farm name: MATHENY, DARRELL M. Operator Well No.: MATHENY #4-G25

LOCATION: Elevation: 706.18 Quadrangle: LUBECK

District: LUBECK County: WOOD  
 Latitude: 7750 Feet South of 39 Deg. 15Min. 0 Sec.  
 Longitude 9700 Feet West of 81 Deg. 37 Min. 30 Sec.

Company: ENERGY SEARCH, INC.  
280 FT. SANDERS, W. BLVD., STE. 200  
KNOXVILLE, TN 37922-0000

Agent: HAROLD W. WILSON

Inspector: GLEN ROBINSON  
 Permit Issued: 04/26/96  
 Well work Commenced: 05/3/96  
 Well work Completed: 06/18/96  
 Verbal Plugging  
 Permission granted on: \_\_\_\_\_  
 Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 4451  
 Fresh water depths (ft) 60

Salt water depths (ft) 1612

Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9-5/8	263	263	circ. to surface
7	1680	1680	13sx fill top grouted in 16sx from surf.
4-1/2	4399	4399	80 sx (94 cu.ft.)

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 4287  
 Gas: Initial open flow 210 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 180 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 4 Hours  
 Static rock Pressure 1500 psig (surface pressure) after 24 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: ENERGY SEARCH, INC.

By: John M. [Signature]  
 Date: 6/19/96

**AUG 16 1996**

Perforations: 4287 - 4296 4 SPF  
4301 - 4304 2 SPF

Stimulants: Acidized w/10,000 gals. 15% HCL, Treated at 28BPM

Frac: 38,500# 80/100 & 20/40 sand  
750 BW gelled

Formation	Top	Base
Injun	1404	1612
Berea	1949	1952
Onondoga	4191	
Oriskany	4287	4331

Logs: Halliburton  
GR - Spectral Density - Dual Spaced Neutron - High Res. DIL - Temp

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

- Permitting  
21963
- 1) Well Operator: Energy Search Inc. <sup>5014</sup> 15925 (3) 449
  - 2) Operator's Well Number: Matheny #4 - G25 3) Elevation: 706.18
  - 4) Well type: (a) Oil \_\_\_ / or Gas XX *Issued 04/26/96*  
 (b) If Gas: Production XX / Underground Storage \_\_\_ /  
 Deep \_\_\_ / Shallow \_\_\_ / *Expires 04/26/98*
  - Proposed Target Formation(s): Berea, Devonian Shale, Oriskany <sup>475</sup>
  - Proposed Total Depth: 4400' feet
  - Approximate fresh water strata depths: 150'
  - Approximate salt water depths: 1500'
  - Approximate coal seam depths: \_\_\_\_\_
  - 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No XX /
  - 11) Proposed Well Work: Drill & Stimulate *Spur Well*
  - 12) \_\_\_\_\_

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		Weight per ft.	For drilling	FOOTAGE INTERVALS Left in well	CEMENT Fill-up (cu. ft.)
	Size	Grade				
Conductor						
Fresh Water	9-5/8"		36#	250'	250'	Circ to surface per 38 CSR 18-11.3
Coal						
Intermediate	7"	<i>OK SHH</i>	17#	1700'	1700'	Circ. to Surface per 38 CSR 18-11.2.2
Production	4-1/2"		10.5#	4400'	4400'	120 cu.ft. or as required by 38CSR18.11
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

0008  
12

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond Blanket  Agent  
 (Type)

RECEIVED  
WV Division of  
Environmental Protection

Page 1 of \_\_\_\_\_  
Form WW2-A  
(09/87)

APR 27 1996  
Permitting  
Office of Oil & Gas

- 1) Date: 4/23/96
- 2) Operator's well number  
Matheny #4 - G25
- 3) API Well No: 47 - 107 - 1568  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Darrell M. Matheny  
Address Rt. 1  
Washington, WV. 26181
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name N/A  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone (304)- \_\_\_\_\_

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 \_\_\_\_\_ 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 Energy Search Inc.  
By: Harold Wilson  
Its: Designated Agent  
Address 1531 Garfield Ave. - P O Box 1525  
Parkersburg, WV 26102-1525  
Telephone 304-422-6591

Subscribed and sworn before me this 26th day of April, 1996

CARRY S. RANSON - Commissioner For WV  
My commission expires 9/10/2000

C. A. R. 7 Notary Public