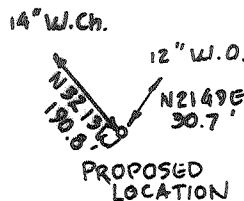


LATITUDE 39° 15'

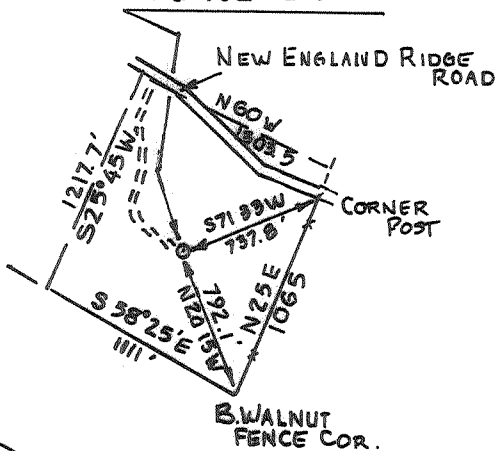
Janice
11/7/96



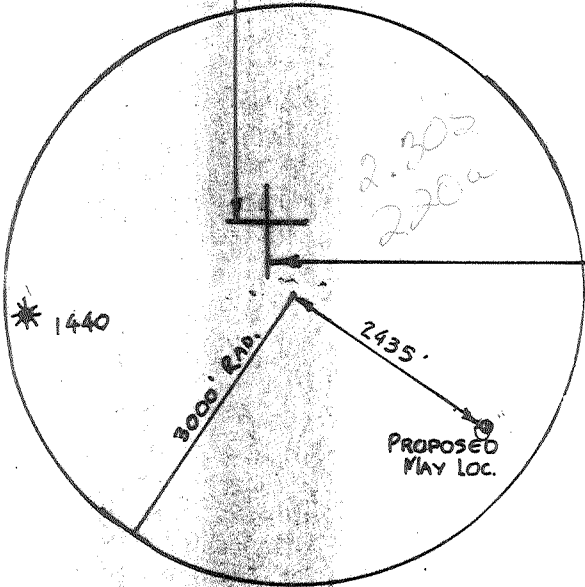
LONGITUDE 81° 37' 30"

PROPOSED GAS WELL
 ALLEN E. & KAREN SUE
 CUNNINGHAM - REVISED 11/5/96
 DB 932 Pg 262

12.010'



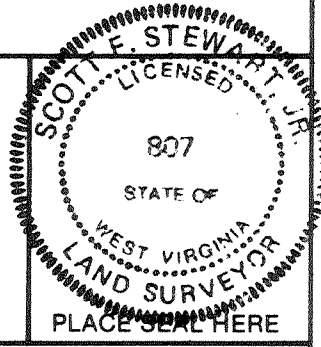
NORTH



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

FILE NO. 96054-2A
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BENCH MARK

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) [Signature]
 R.P.E. _____ L.L.S. 807



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



DATE November 5, 1996
 OPERATOR'S WELL NO. Cunningham 1
 API WELL NO. 6-28
47 - 107 - 01580
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 779.30 WATERSHED BRANCH OF SANDY CREEK
 DISTRICT LUBECK COUNTY WOOD
 QUADRANGLE LUBECK 7.5'

SURFACE OWNER ALLEN E & KAREN SUE CUNNINGHAM ACREAGE 29.27 ±
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE SAME

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 ORISKANY ESTIMATED DEPTH 4500'
 WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT CARRY S. RANSON
 ADDRESS 280 RT. SANDERS BLVD KNOXVILLE TN. ADDRESS 900 CORE RD. PARKERSBURG WV

DEEP WELL 5014

6-6 351- NOV 8 1996

COUNTY NAME PERMIT

FORM WW-6

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

22882

Well Operator: ⁵⁰¹⁴ Energy Search Inc. ¹⁵⁹²⁵ (3) ⁴⁴⁹

Operator's Well Number: Cunningham #1 - G-28 3) Elevation: 790.1

Well-type: (a) Oil___/ or GasXX/ ^{Issued 11/07/96}
^{Expires 11/07/98}
(b) If Gas: ProductionXX/ Underground Storage___/
Deep___/ Shallow___/ ⁴⁷⁵

- 5) Proposed Target Formation(s): Berea, Devonian Shale, Oriskany
- 6) Proposed Total Depth: 4500 feet
- 7) Approximate fresh water strata depths: 150'
- 8) Approximate salt water depths: 1500'
- 9) Approximate coal seam depths: _____
- 10) Does land contain coal seams tributary to active mine? Yes___/ No~~xxx~~/
- 11) Proposed Well Work: Drill & Stimulate ^{New Well.}
- 12) _____

RECEIVED
WW Division of Environmental Protection
NOV 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	9-5/8					
Fresh Water	9-5/8		36	250'	250' cts.	Circ to Surface Per 38 CSR 18-11.3
Coal						
Intermediate	7"		17#	1700'	1700' cts	Circ to Surface Per per CSR 18-11.2-2
Production	4-1/2		10.5	4500'	4500'	60 sx or as required 38 CSR 18
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

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

1) Date: _____
2) Operator's well number
Cunningham #1 - G-28
3) API Well No: 47 - _____ - _____
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 Allen & Karen S. Cunningham Name N/A
Address Rt. #1 Box 175-A Address _____
Washington, WV 26181
(b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name _____
Address _____ Address _____
(c) Name _____ Name _____ **NOV 06 1996**
Address _____ Address _____
6) Inspector _____ (c) Coal Lessee with Declaration **Permitting**
Address _____ Name _____ **Office of Oil & Gas**
Telephone (304)- _____ 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 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 _____ 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.

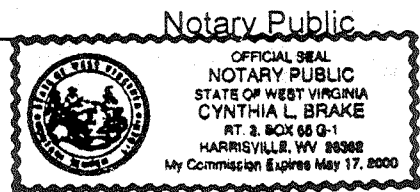
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Energy Search Inc.
By: [Signature]
Its: Designated Agent
Address 900 Core Rd
Parkersburg, WV 26101
Telephone 304-428-1165

Subscribed and sworn before me this 3rd day of September, 1996

Cynthia L. Brake
My commission expires May 17, 2000



JAN 23 1997

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: CUNNINGHAM, ALLEN & KAREN Operator Well No.: 1-G-28

LOCATION: Elevation: 779.30 Quadrangle: LUBECK

District: LUBECK County: WOOD
Latitude: 12010 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 11640 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: CARRY S. RANSON

Inspector: GLEN ROBINSON
Permit Issued: 11/07/96
Well work Commenced: 11/23/96
Well work Completed: 12/11/96
Verbal Plugging
Permission granted on: _____
Rotary XX Cable _____ Rig
Total Depth (feet) 4510'
Fresh water depths (ft) 60'

Salt water depths (ft) 1500'

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

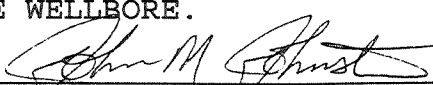
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9-5/8	263'	263'	circ to surface
7"	1730'	1730'	circ to surface
4-1/2	4467'	4467'	71 cu. ft.

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 4376'
Gas: Initial open flow 120 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 110 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1375 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. Johnston - VP Exploration and Development
Date: 1/20/97

JAN 24 1997

Perf: 4372 - 4380 (2 shots per foot)
Acidized w/1000 gals 15% HCL

Formations	Top	Base
Bera	2042	2044
Onodaga	4279	---
Oriskany	4376	4420



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
#10 McJUNKIN ROAD
NITRO, WEST VIRGINIA 25143-2506

November 8, 1996

Division of Environmental Protection
Office of Oil and Gas
Nitro, West Virginia

Re: Application for Permit #47-107-01580 drill deep well.

COMPANY: Energy Search, Inc.

FARM: Cunningham #1 - G-28

COUNTY: Wood DISTRICT: Lubeck QUAD: Lubeck

The application of the above company is Approved for Oriskany.
(Approved or Disapproved)

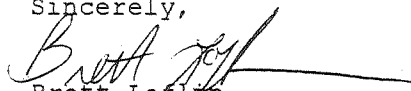
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; *

3.) Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,


Brett Loflin
Engineer

*2700' to 1440
3200' to 1266
3350' to 1403
4900' to 789
4600' to 1569
4400' to 1568