

VIOLET SMITH LEASE WELL NO. 1-G-27 68 ACRES±

47-107-1579

DUPONT EMPLOYEES REC.

VOILET SMITH
68 ACRES±
(SURFACE AND MINERALS)

GRIFFIN
17.3 ACRES±

4" IRONWOOD
(FOUND)

JOHNSON

LYNCH

1/2" IRON PIPE
(FOUND)

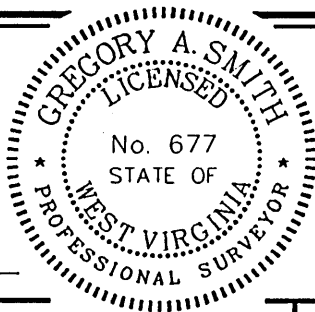
NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 11/08/00.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 08/26/96 AS PREPARED BY SCOTT F. STEWART PLS 807.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM TITLE OPINION DATED 09/04/96 AND GIVEN BY R. BRUCE WHITE, ATTORNEY AT LAW.
5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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.

P.S. Gregory A. Smith
677



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

DATE NOVEMBER 10, 2000
OPERATORS WELL NO. V. SMITH #1-G-27
API WELL NO. 47-107-1579W
STATE COUNTY PERMIT

CANCELLED

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 4562P1 (92-57)
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 748' SCALE 1" = 500'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



WELL TYPE : OIL GAS X INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP X SHALLOW

LOCATION :
ELEVATION 782' WATERSHED TRIBUTARY OF VAUGHTS RUN OF OHIO RIVER
DISTRICT LUBECK COUNTY WOOD QUADRANGLE LUBECK 7.5'

SURFACE OWNER VOILET SMITH ACREAGE 68±
ROYALTY OWNER VOILET SMITH LEASE ACREAGE 68±

PROPOSED WORK :
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION X PERFORATE NEW FORMATION X PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION SALT SAND
ESTIMATED DEPTH 1200'

WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED AGENT FRANK ROTUNDA
ADDRESS 280 SANDERS W. BLVD. SUITE 200 ADDRESS 1608 GREENMONT HILLS DR.
KNOXVILLE, TN 37922 VIENNA, WV 26105

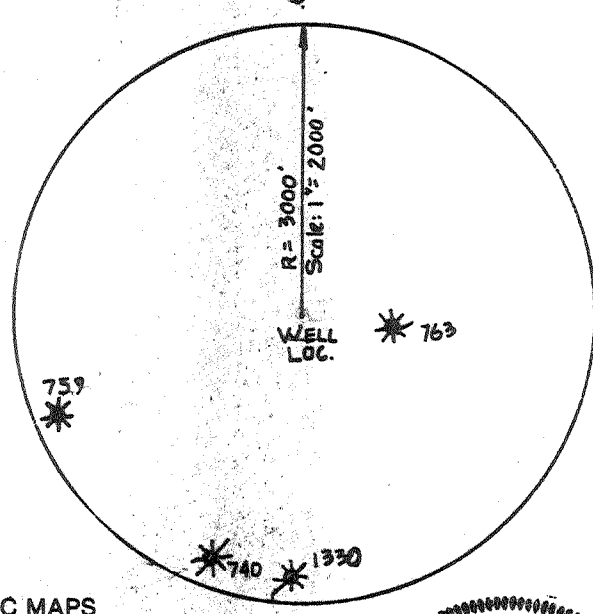
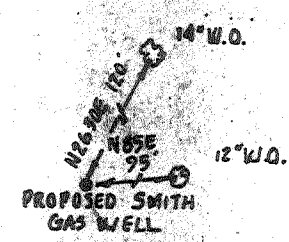
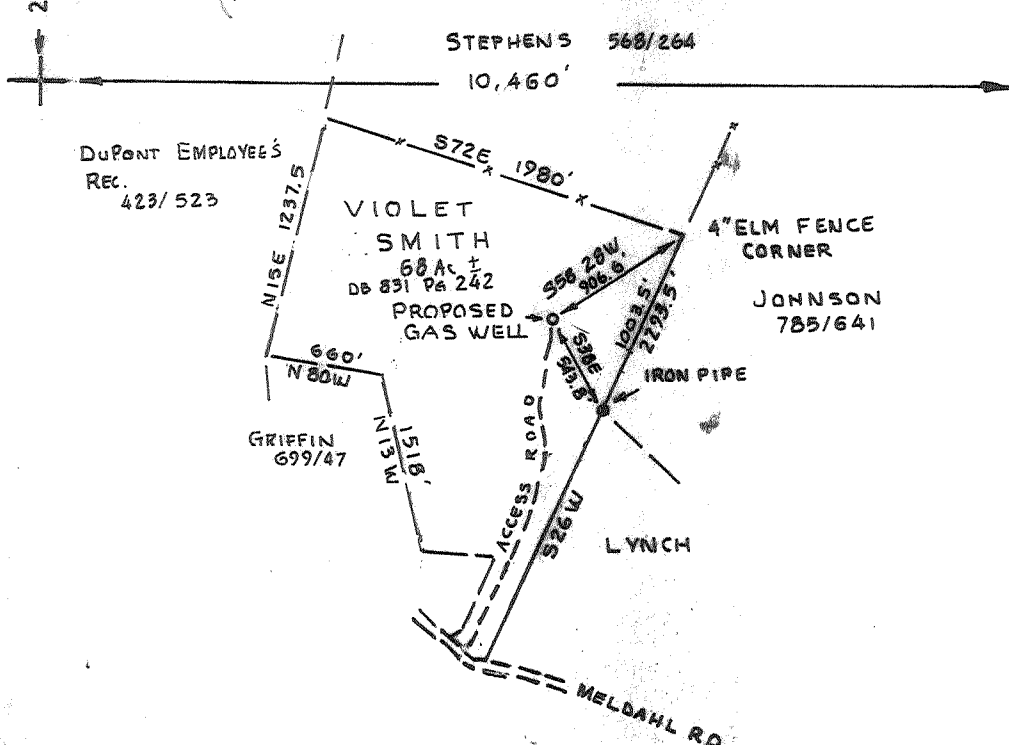
LONGITUDE 81°37'30" 2.790'
LAT. 39°14'32.1"
COUNTY NAME WOOD
PERMIT 1579CAN2

Janice 11/7/96 11/25/97

*0.565
1.97W*

LATITUDE 39° 15'

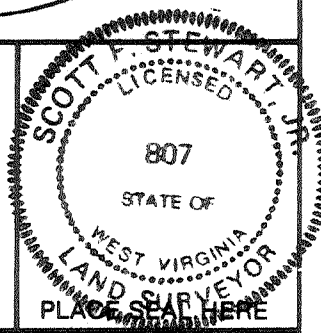
LONGITUDE 81° 37' 30"



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

FILE NO. 96054
 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) Scott Stewart
 R.P.E. _____ L.L.S. # 807



WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506



DATE August 26, 1996
 OPERATOR'S WELL NO. Smith #1-G-27
 API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP SHALLOW ___
 LOCATION: ELEVATION 782.8 WATERSHED BRANCH OF VAUGHT'S RUN
 DISTRICT LUBECK COUNTY WOOD
 QUADRANGLE LUBECK 7.5' QUAD
 SURFACE OWNER VIOLET SMITH ACREAGE 68 Ac. ±
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 68 ±

COUNTY NAME WOOD

PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Permanent Partial Plug Back Repair Pipe fracture Salt Sands.
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4500'
 WELL OPERATOR ENERGY SEARCH, INC. DESIGNATED ADDRESS Frank Rotunda 1613 Greenmont Hills Drive Vienna, Wva. 26105
 ADDRESS 280 FT. SANDERS BLVD. KNOXVILLE, TN.

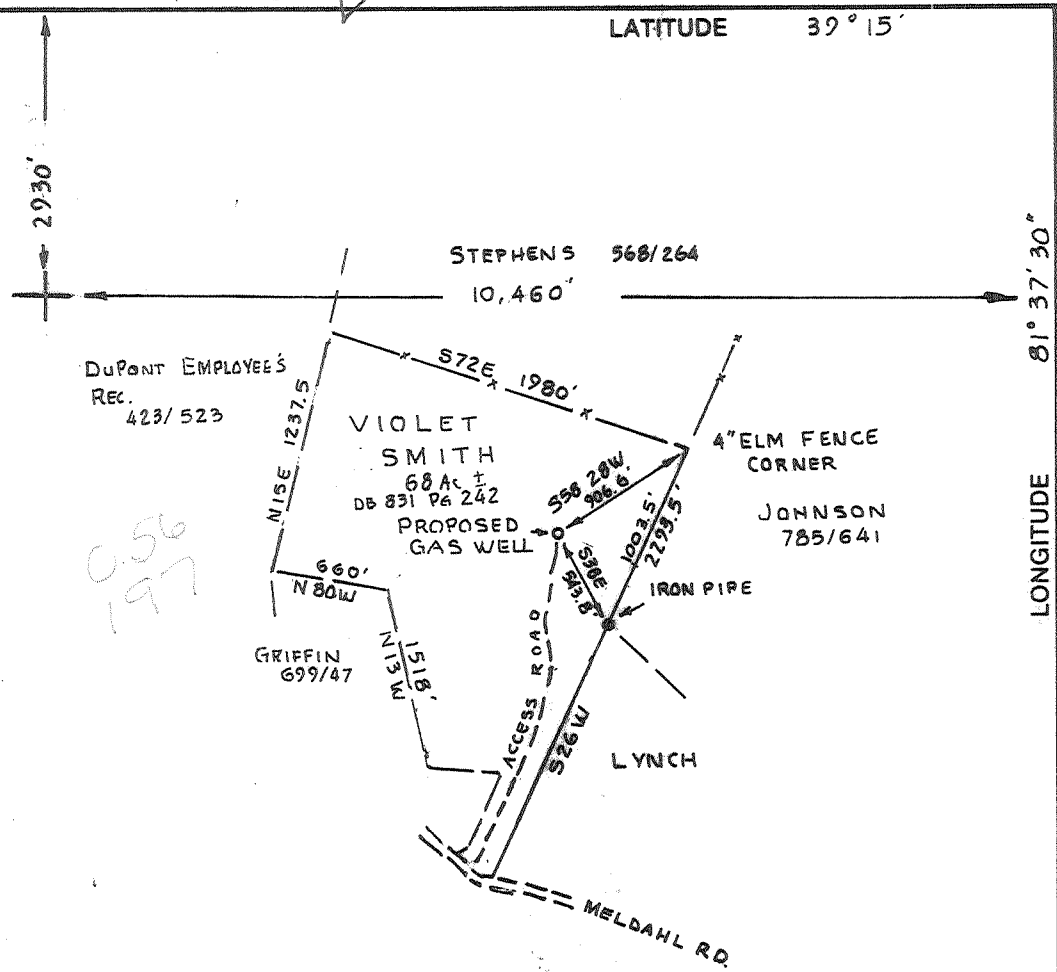
PERMIT 1579

DEC 1 1997

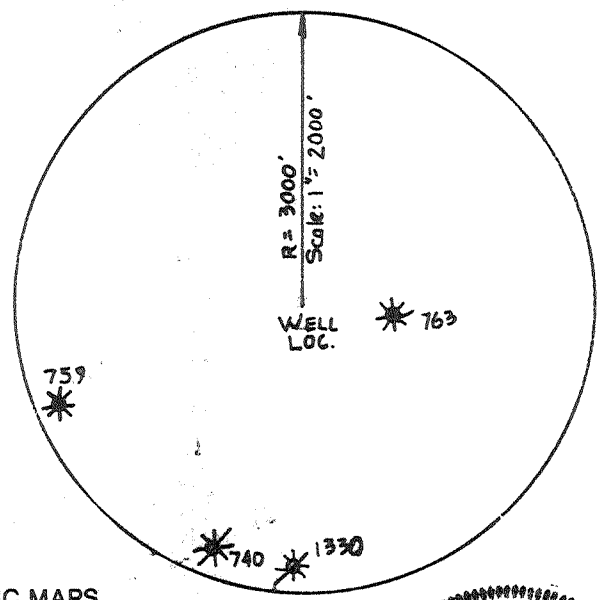
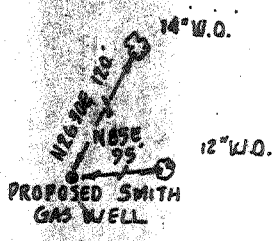
FORM WW-6 H.T. HALL 058018

*Janice
11/7/96*

NORTH



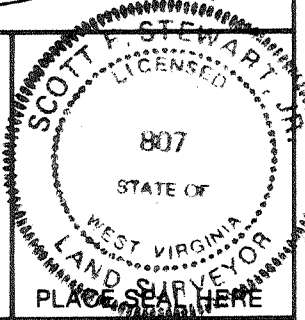
*0.56
197*



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

FILE NO. 96054
 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) *Scott F. Stewart*
 R.P.E. _____ L.L.S. # 807



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



DATE August 26, 1996
 OPERATOR'S WELL NO. Smith #1-G-27
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 782.8 WATERSHED BRANCH OF VAUGHT'S RUN
 DISTRICT LUBECK COUNTY WOOD
 QUADRANGLE LUBECK 7.5' QUAD
 SURFACE OWNER VIOLET SMITH ACREAGE 68 Ac. ±
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 68 ±
 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) 6-6 351
 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 FT. SANDERS BLVD. KNOXVILLE, TN. ADDRESS 900 CORE RD. PARKERSBURG, WV.
DEEP WELL

COUNTY NAME _____
 PERMIT _____

H.T. HALL 058018 FORM WW-6

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

Well Operator: ⁵⁰¹⁴ Energy Search Inc. 159 25 (3) 449

Operator's Well Number: V. Smith #1 - G-27 3) Elevation: 782.8

Well type: (a) Oil ___ / or Gas XXX Issued 11/07/96
(b) If Gas: Production XXX Underground Storage ___
Deep ___ / Shallow ___
Expired 11/07/98

Proposed Target Formation(s): ³⁹⁵ 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) _____

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	7 1/8					
Fresh Water	9-5/8		36#	250'	250' <i>cts</i>	Circ to surface per 38 CSR 18-11.3
Coal						
Intermediate	7"		17#	1700'	1700' <i>cts</i>	Circ to surface per CSR 18-11.2.2
Production	4-1/2		10.5#	4500'	4500'	60 sx or as required by 38 CSR 18
Tubing						RECEIVED WV Division of Environmental Protection
Liners						

PACKERS : Kind _____ Sizes _____ Depths set _____

NOV 06 1996
Permitting
Office of Oil & Gas

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)

22881

1) Date: _____
2) Operator's well number _____
3) V. Smith #1 G-27
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 Violet & Harold Smith Name N/A
Address Rt. #1 Box 424A Address _____
Washington, WV 26181
(b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name _____
Address _____
(c) Name _____ Name _____
Address _____ Address _____
6) Inspector _____ (c) Coal Lessee with Declaration
Address _____ Name _____
Telephone (304)- 863-3646 Address _____

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WV Division of
Environmental Protection

NOV 06 1996

Permitting
Office of Oil & Gas

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.

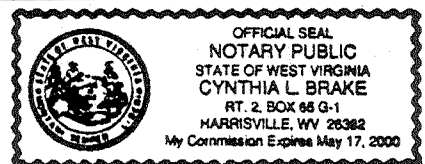
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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: C. J. R. 7
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 Notary Public
My commission expires May 17, 2000



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JAN 23 1997
Permitting
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: SMITH, VIOLET & HAROLD Operator Well No.: SMITH #1-G-27

LOCATION: Elevation: 782.80 Quadrangle: LUBECK

District: LUBECK County: WOOD
Latitude: 2930 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 10460 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: 11/15/96
Well work Completed: 12/5/96
Verbal Plugging
Permission granted on: _____
Rotary XXX Cable _____ Rig
Total Depth (feet) _____
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	286'	286'	circ to surface
7"	1717'	1717'	circ to surface
4-1/2	4474'	4474'	71 cu. ft.

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 4341'
Gas: Initial open flow 150 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 130 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1400 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

Perfs: 4341 - 4346 (3 shots per ft.)
Frac w/ 500 gals. 15% HCl acid
38,500# sand
750 BW gelled

Formations	Top	Base
Berea	2010	2012
Onondaga	4246	---
Oriskany	4341	4372



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 #47-107-01579 drill deep well.

COMPANY: Energy Search, Inc.

FARM: Violet Smith #1 - G-27

COUNTY: Wood DISTRICT: Lubeck QUAD: Lubeck

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

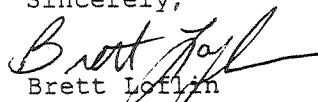
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

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 759
4500' to 727DD
2550' to 740DD
2600' to 1330
5000' to 1052
3850' to 734DD
3600' to 496
3300' to 755

V. Smith #1 - G-27
Permit # 47-107-01579 -PP
Wood County, Lubeck District

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Division of
Environmental Protection
NOV 24 1997
Permitting
Office of Oil & Gas

Plug Back to Oil Producing Zone

Workover:

- 9-5/8" Csg. set @ 295': Cemented to surface with 120 sks. Class A
- 7" Csg. set @ 1,725': Cemented to surface with 255 sks.
- 4-1/2" Csg. set @ 4,475': Cemented with 60 sks. Class A cement. Bond log indicated cement top @ 4,000' ran on 12/5/97.

Oriskany Perforations @ 4,371' - 4,376'

1. Cement Oriskany with 50 sks Class A w 2% CaCl displaced to 50' above perforation @ 4,371' - 4,376'.
2. Run free point and cut off casing @ 3,900'.
3. POH and lay down 1 jt. (3,860')
4. Cement Big Lime interval with 100' plug from 3,860' - 3,760' to protect top of Big Lime. Use gel spacer
5. POH and lay down 44 jts. (2,012').
6. Cement Berea and 7" with 50' below top of Berea and bring cement into 7" casing @ 1,775'. Use gel spacer.
7. Tag cement and set CIBP at top of cement if needed.
8. Perforate and complete Salt sand interval 1,115' - 1,135' with a hydraulic fracture treatment.
9. RIH with production packer 4-1/2" casing to isolate 7" casing.

1) Date: _____
2) Operator's well number
Violet Smith #1 - G-27
3) API Well No: 47 - 107 - 01579 PP-F
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

RECEIVED
WV Division of
Environmental Protection
NOV 24 1997
Bureau of Permitting
Office of Oil & Gas

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:
 (a) Name Violet & Harold Smith Name N/A
 Address Rt. #1 Box 424 A Address _____
Washington WV 26181
 (b) Name _____ (b) Coal Owner(s) with Declaration
 Address _____ Name _____
 Address _____ Address _____
 (c) Name _____ Name _____
 Address _____ Address _____
- 6) Inspector Glen P. Robinson (c) Coal Lessee with Declaration
 Address P O Box 1 Name _____
Belleville, WV 26133 Address _____
 Telephone (304) 543-0735

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 17 day of November, 1997

[Signature] Notary Public
My commission expires March 5, 2000



1) Date: _____ 19____
2) Operator's Well No. _____
3) API Well No. 47 State 107 County 01579-PP Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
APPLICATION FOR A PERMIT TO PLUG & ABANDON

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WV Division of Environmental Protection
NOV 24 1997
Permitting Office of Oil & Gas

- 4) WELL TYPE: A Oil _____ / Gas XXX / Liquid injection _____ / Waste disposal _____
B (If "Gas", Production _____ / Underground storage) _____ / Deep _____ Shallow _____
- 5) LOCATION: Elevation: 782.8 Watershed: Branch of Vaughts Run
District: Lubeck County: Wood Quadrangle: Lubeck 7.5
- 6) WELL OPERATOR Energy Search CODE _____
Address 100 Front St.
Marietta, OH 45750
- 7) DESIGNATED AGENT Carry S. Ranson
Address 900 Core Rd.
Parkersburg, WV 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Glen Robinson
Address P O Box 1
Belleville, WV 26133-0001
- 9) PLUGGING CONTRACTOR
Name Dowell
Address _____

10) WORK ORDER: The work order for the manner of plugging this well is as follows:

Plug back to oil producing zone - see attached for workover

OFFICE USE ONLY

PLUGGING PERMIT

Permit number 47-107-1579-PP Date November 25th, 1997 19

This permit covering the well operator and well location shown below is evidence of permission granted to plug 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 24 hours before actual permitted work has commenced.)

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

Permit expires 11-25-99 unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	WPCP	OTHER
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Chief, Office of Oil & Gas

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

File

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