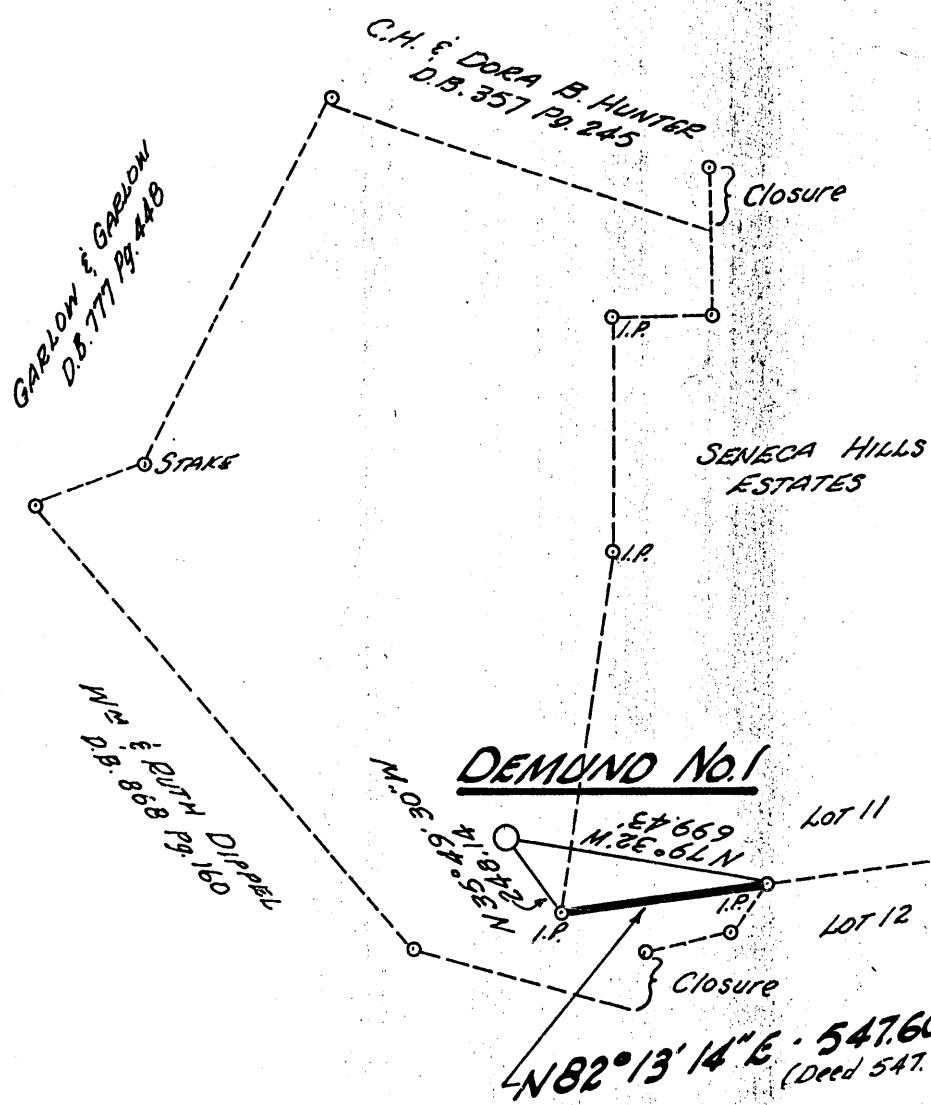


AS 12/12/86

LATITUDE 39° 42' 30"

39 45 2400'

LONGITUDE 79° 55'

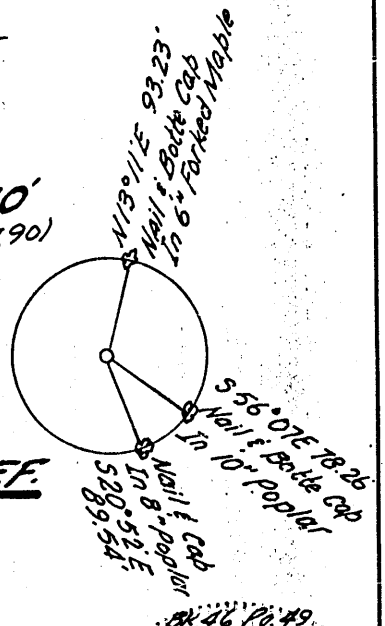


1.055  
0.450  
3935  
0.450

(+)

NOTE: No Known Wells Within 1200'

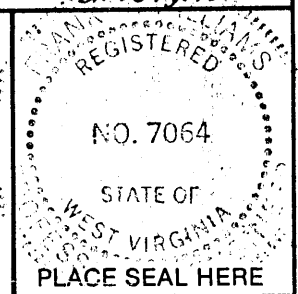
REF.



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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION USGS QUAD

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) Frank W. Williams  
 R.P.E. 7064 L.L.S. \_\_\_\_\_



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE November 21, 19 86  
 OPERATOR'S WELL NO. DEMAND No. 1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1205 WATER SHED Monongahela River  
 DISTRICT UNION 1 COUNTY MONONGALIA  
 QUADRANGLE MORGANTOWN NORTH 18VA PA 484 086 NW 1  
 SURFACE OWNER DONALD G. LAZZELLE, JR. D.B. 907 Pg. 134 ACREAGE 55 Ac.  
 OIL & GAS ROYALTY OWNER FRED DEMIND LEASE ACREAGE 157.116 Acs.

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 LEASE NO. \_\_\_\_\_  
 PERMIT DEC 23 1986

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Bayard Sand ESTIMATED DEPTH 2900'  
 WELL OPERATOR NOUMENON CORPORATION DESIGNATED AGENT STEPHEN K. SHUMAN, Pres.  
 ADDRESS P.O. Box 842, Morgantown, WV ADDRESS SAME  
26507-0842 624



V-35  
Rev 8-81)

Date May 15, 1987  
Operator's  
Well No. deMund No. 1  
Farm Lazzelle  
API No. 47 - 061 - 0828

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State of West Virginia  
Department of Mines  
Oil and Gas Division

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1205 Watershed Monongahela River  
District: Union County Monongalia Quadrangle Morgantown North

COMPANY Noumenon Corporation  
ADDRESS P.O. Box 842, Morgantown, WV 26507  
DESIGNATED AGENT Stephen K. Shuman, Pres.  
ADDRESS 256 High St., Morgantown, WV 26505  
SURFACE OWNER Donald G. Lazzelle, Jr.  
ADDRESS P.O. Box 839, Morgantown, WV 26507  
MINERAL RIGHTS OWNER Fred Demund  
ADDRESS P.O. Box 842, Morgantown, WV 26507  
OIL AND GAS INSPECTOR FOR THIS WORK Donald Ellis  
2604 Crabapple Lane  
ADDRESS Fairmont, WV 26554  
PERMIT ISSUED December 1986  
DRILLING COMMENCED December 20, 1986  
DRILLING COMPLETED December 31, 1986  
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"	42	42	
9 5/8			
8 5/8	967	967	CTS
7			
5 1/2			
4 1/2	2589	2589	305 Sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Bayard Sand Depth 2950 feet  
Depth of completed well 2630 feet Rotary XX / Cable Tools      
Water strata depth: Fresh 970 feet; Salt     feet  
Coal seam depths: 598 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1454 feet  
Gas: Initial open flow 176 Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow 160 Mcf/d Final open flow     Bbl/d

Time of open flow between initial and final tests 7 hours

Static rock pressure 460 psig (surface measurement) after 24 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

JUN 15 1987

(REVERSE)

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

Bayard 1st 2501 - 2513 with 20 holes - could not treat - high pressure  
 Gordon 2nd 2157 - 2164 with 11 holes - could not treat - high pressure  
 Injun 3rd 1454 - 1487 with 20 holes - foam frac with 42,000 lbs. 20/40 sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale & Sand			0	598	
Coal			598	604	
Shale			604	692	
Sand			692	738	
Shale			738	792	
Sand			792	848	
Shale			848	882	
Sand			882	1060	
Shale			1060	1246	
Limestone			1246	1260	
Shale			1260	1293	
Limestone Biglime			1293	1397	
Sand Injun			1397	1534	
Shale			1534	1595	
Sand			1595	1704	
Shale			1704	1871	
Sand			1871	1880	
Shale			1880	1940	
Sand			1940	1979	
Shale			1979	2014	
Sand			2014	2048	
Shale			2048	2102	
Sand			2102	2108	
Shale			2108	2157	
Sand			2157	2167	
Shale			2167	2371	
Sand			2371	2462	
Shale			2462	2493	
Sand Bayard			2493	2548	
Shale			2548	TD	
				TD 2630	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Noumenon Corporation

Well Operator

By: Stephen K. Shuman

Date: Stephen K. Shuman, Pres.

May 15, 1987

9144

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a record of the following information:

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DEC 12 1986



1) Date: December 11, 1986  
 2) Operator's Well No. DeMund # 1  
 3) API Well No. 47-067-0828  
 State County Permit

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

**APPLICATION FOR A WELL WORK PERMIT**

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

- 4) WELL TYPE: A Oil  Gas  B (If "Gas", Production  Undergound storage  Deep  Shallow )  
 5) LOCATION: Elevation: 1205 Watershed: Monongahela River & Unnamed Run  
 District: Union 6247 County: Monongalia 061 Quadrangle: Morgantown North 483  
 6) WELL OPERATOR Noumenon Corp. CODE: 34110 7) DESIGNATED AGENT Stephen K. Shuman, Pres.  
 Address P.O. Box 842 Address P.O. Box 842  
Morgantown, WV 26507-0842 Morgantown, WV 26507-0842  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Donald Ellis 9) DRILLING CONTRACTOR: Name Putnam Drilling  
 Address 2604 Crabapple Lane Address P.O. Box 465  
Fairmont, WV 26554 Marietta, Ohio 45750  
 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, Bayard Sand 483  
 12) Estimated depth of completed well, 2700 feet  
 13) Approximate trata depths: Fresh, 915 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 550, 880 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	12"		20	X		30'	- - -		Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	24	X		960'	960'	CTS Per Rule 15.05	Depths set
Production	4 1/2	K-55	10.5	X			2700'	1500'	Rule 15.05
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-067-0828 Date December 12 19 86

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 December 12, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ASB</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>1029</u> <u>160</u>	W.P.C. <u>AS</u>	S.H. <u>AS</u>	Other
---	-------------------	-----------------	-------------------	--------------------------------	------------------	----------------	-------

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

John H. Johnston  
 Director, Division of Oil and Gas  
Margaret A. Kasse File

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