

Janie 12/14/88

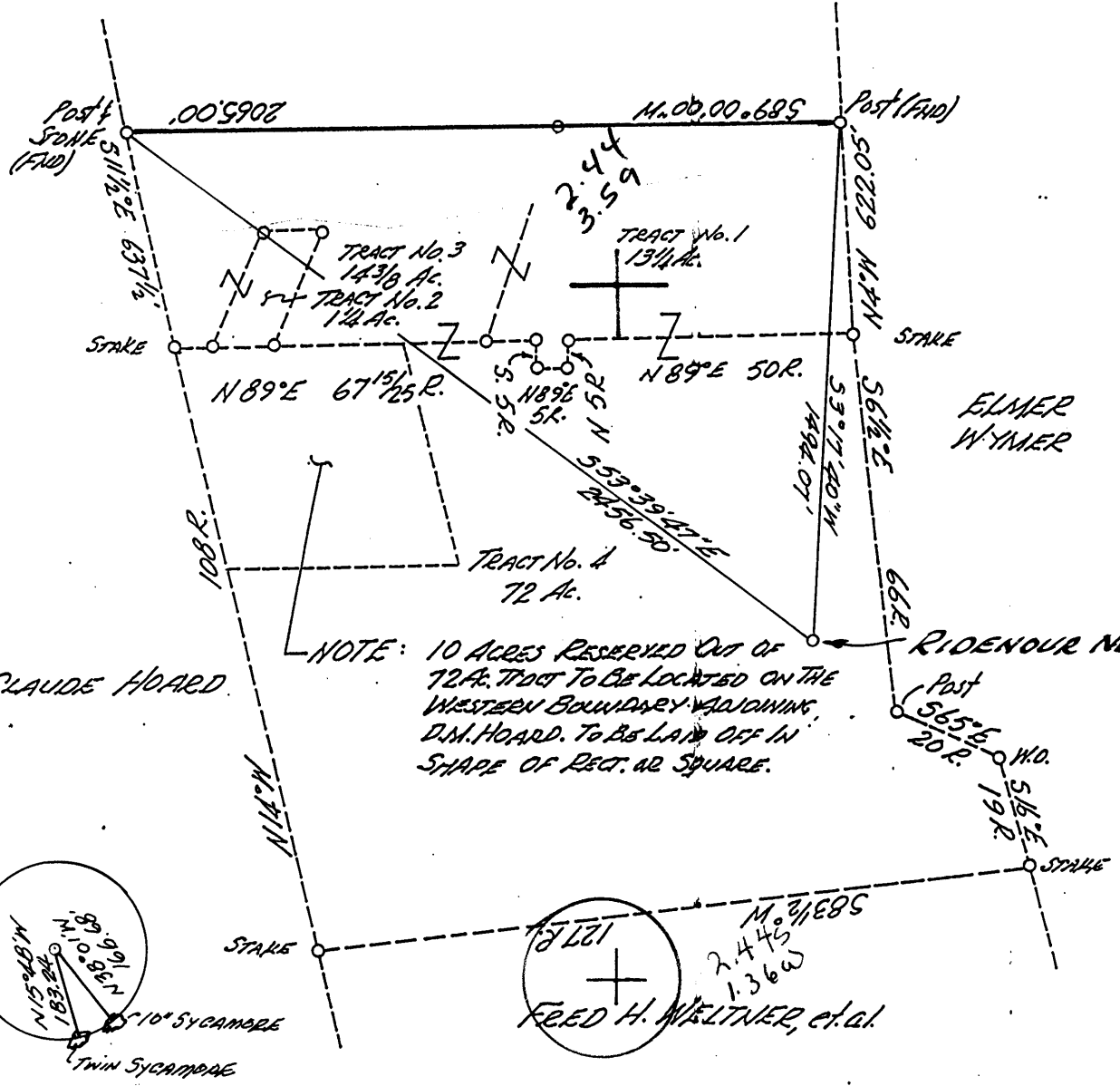
REUBEN BAILEY

LATITUDE 39°45'00"

7,200'

LONGITUDE 79°52'30"
12,800'

NORTH



REFERENCES
(Bl. 77, Pg 59)

NOTE: No known wells within 1200'.

(+) 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 U.S.G.S. 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 H. Williams
 R.P.E. 7064 M.L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE DEC 12, 1988
 OPERATOR'S WELL NO. RIDENOUR No. 4
 API WELL NO. 47-061-0893

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1120 WATER SHED MONONGAHELA RIVER
 DISTRICT UNION 7 COUNTY MONONGALIA
 QUADRANGLE MORGANTOWN NORTH - WVA-PA 484 086 2 +15' NC
 SURFACE OWNER WILLARD WAYNE RIDENOUR, et al. D8911 P. 291 ACREAGE 90 7/8 Acs.
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 92 Acs

COUNTY NAME

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

PERMIT

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION _____ ESTIMATED DEPTH 2950'
 WELL OPERATOR NOUMENON CORPORATION DESIGNATED AGENT STEPHEN K. SHUMAN, PRES.
 ADDRESS P.O. Box 842, Morgantown, WV. 26507-0842 ADDRESS SAME

DEC 16 1988

6-6 Cassville - Bowlby (068)



WR-35

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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date November 30, 1989
Operator's
Well No. Ridenour #4
Farm Ridenour, Willard & Carol
API No. 47 - 061 - 0893

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY 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 X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1120' Watershed Monongahela River
District: Union County Monongalia Quadrangle Morgantown North, WV-PA

COMPANY Noumenon Corporation
ADDRESS P.O. Box 842, Morgantown, WV 26505
DESIGNATED AGENT Stephen K. Shuman, Pres.
ADDRESS 256 High St., Morgantown, WV 26505
SURFACE OWNER Willard W. & Carol Ridenour
ADDRESS Rt. 4, Box 287-A, Morgantown, WV 26505
MINERAL RIGHTS OWNER Willard W. & Carol Ridenour
ADDRESS Rt. 4, Box 287-A, Morgantown, WV 26505
OIL AND GAS INSPECTOR FOR THIS WORK
2604 Crabapple Lane
Donald Ellis ADDRESS Fairmont, WV 26554
PERMIT ISSUED 12-14-88
DRILLING COMMENCED 12-17-88
DRILLING COMPLETED 12-22-88
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-1616"			
Cond.	19'	19'	
11 3/4"			
13-10"	44'	44'	
9 5/8"			
8 5/8"	1107'	1107'	cts(275sks)
7"			
5 1/2"			
4 1/2"	----	2614'	246 sks
3"			
2"			
Liners used			

GEOLOGICAL TARGET FORMATION Bayard Depth 2680 feet
Depth of completed well 2680 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 56, 974 feet; Salt ___ feet
Coal seam depths: 630', 700', 882' Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation Big Injun, Squaw Pay zone depth top Big Injun=1484'
top Squaw=1675'
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow ___ Bbl/d
Final open flow 65 Mcf/d Final open flow ___ Bbl/d
Time of open flow between initial and final tests 36 hours
Static rock pressure 425 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Gordon, Fifth, Bayard Pay zone depth top Fifth & Bayard=2455'
top Gordon = 2197'
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
Note: Above information is a composite of all pay zones.

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

Stage	Producing Formation	Interval	Fluid (Bbls.)	Sand (Lbs.)	Treating Pressure (PSI)
First Stage	Bayard & Fifth Sand	2564-2573 & 2455-2467	211	3,000	2780-311
Second Stage	Gordon Sand	2197-2201	442	4,100	3590-3719
Third Stage	Squaw	1687-1699 & 1688-1675	473	25,000	2780
Fourth Stage	Big Injun Sand	1507-1515 & 1484-1495	578	45,000	3920-3400

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandstone			Surface	122	½" stream fresh water @ 56'
Shale & Sandstone			122	511	
Sandstone			511	555	
Shale			555	573	
Sandstone			573	613	
Shale			613	630	
Coal-Upper Freeport			630	633	
Shale & Sandstone			633	700	
Coal-Lower Freeport			700	701	
Shale & Sandstone			701	832	
Coal-M. Kittanning			882	883	
Shale & Sandstone			883	947	
Sandstone-Homewood			947	1070	1" stream fresh water @ 974'
Shale			1070	1276	
Little Lime			1276	1288	
Shale & Sandstone			1288	1323	
Big Lime			1323	1415	
Big Injun			1415	1585	
Shale			1585	1628	
Squaw Sand			1628	1740	
Shale			1740	1896	
Berea			1896	1910	
Shale & Sandstone			1910	2195	
Gordon			2195	2202	
Shale & Sandstone			2202	2443	
Fifth Sand			2443	2501	
Shale			2501	2532	
Sandstone & Shale			2532	2580	
Shale			2580	2680	TD

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

NOUMENON CORPORATION
Well Operator
By: JGL/ML Pres.
Date: 11-30-89

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."

7/1/8

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

- 1) Well Operator: Noumenon Corporation 34710 7 483
- 2) Operator's Well Number: Ridenour # 4 3) Elevation: 1120
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Big Injun, Squaw, Gordon, Bayard
- 6) Proposed Total Depth: 2680 feet
- 7) Approximate fresh water strata depths: 715' & 946' @ 320'
- 8) Approximate salt water depths: N/A possibly 1700'?
- 9) Approximate coal seam depths: 650', 812', 892'- 895'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill, perforate and frac appropriate formations.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4		42	40'		
Fresh Water						
Coal						
Intermediate	8 5/8	J55	23	1095	1095	380SR18-11.3
Production	4 1/2	K55	10.5	----	2680	380SR18-11.2.2 CIS 380SR18-11.1 1095
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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For Division of Oil and Gas Use Only DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: 41 Well Work Permit 41 Reclamation Fund 41 WPCP
 Plat 41 WW-9 41 WW-2B 41 Bond Blanket 41 Agent

8126
 682
 41

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: December 12, 1988
Operator's well number
Ridenour # 4
API Well No: 47 - 061 - 0893
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Willard Wayne & Carol Ridenour</u>
Address <u>Route 4, Box 287A</u>
<u>Morgantown, WV 26505</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>N/A</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>N/A</u>
Address _____</p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name <u>N/A</u>
Address _____</p> |
| <p>6) Inspector _____
Address _____
Telephone (304)- _____</p> | |

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 Noumenon Corporation
By: [Signature]
Its: President
Address 256 High Street
Morgantown, WV 26505
Telephone (304) 292-8488

Subscribed and sworn before me this 12th day of December, 1988

Pauline A. Walker Notary Public
My commission expires July 16, 1990