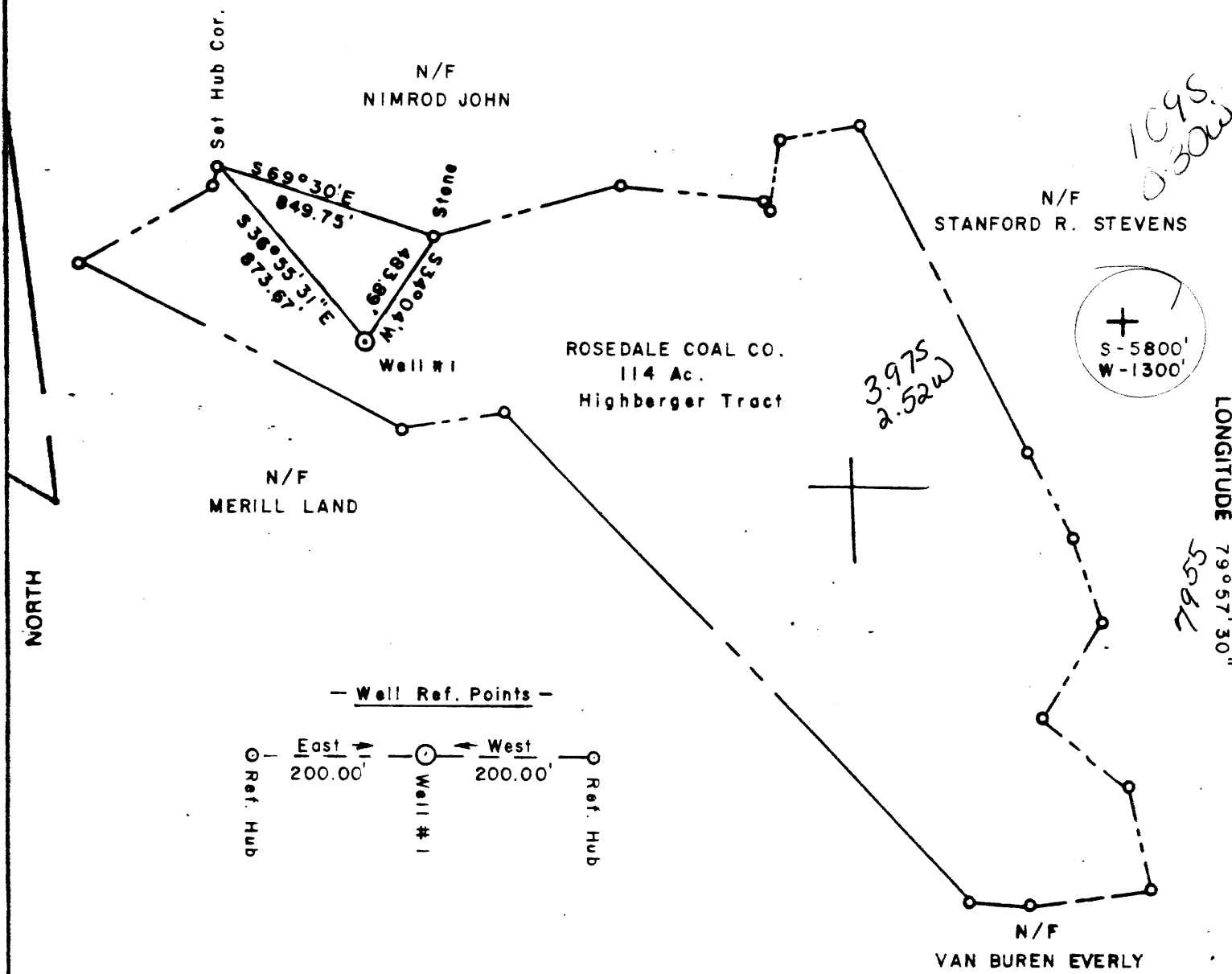


35 30/86

39 45

LATITUDE 39° 42' 30"

CODE _____ CARD _____ PLOT ✓



FILE NO. WV-85-1
 DRAWING NO. 1
 SCALE 1"=600'
 MINIMUM DEGREE OF ACCURACY 1/5000
 PROVEN SOURCE OF ELEVATION Road Intersection 1103

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 MINES.
 (SIGNED) Jacob Mankey
 R.P.E. 6177E L.L.S. 404

PLACE SEAL HERE

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE October 24, 1985
 OPERATOR'S WELL NO. 11
 API WELL NO. 47-061-0804
 STATE 47 COUNTY 061 PERMIT 0804

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1192.20' WATER SHED Unnamed Tributary to Monongahela River
 DISTRICT Cass 2 COUNTY Monongalia
 QUADRANGLE Morgantown North 7.5 Min. 484 086 NW,
 SURFACE OWNER Rosedale Coal Co. ACREAGE 114
 OIL & GAS ROYALTY OWNER Neumenon Inc. & Monongalia Co. Dev. Auth. LEASE ACREAGE 114
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 Bayard Sand ESTIMATED DEPTH 2600
 WELL OPERATOR Neumenon Inc. DESIGNATED AGENT Stephan K. Shuman
 ADDRESS R.D. #2 ADDRESS 256 High Street
New Freeport, Pa. 15352-6 Cassville-Bowlby (68) Morgantown, W. Va. 26507



WR-35

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date April 24, 1987
Operator's
Well No. Rosedale Coal Co. No. 1
Farm Rosedale Coal - Highberger Tr.
API No. 47 - 061 - 0804

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: 1192.20 Watershed Unnamed Tributary to Monongahela River
District: Cass County MONONGALIA Quadrangle MORGANTOWN North

COMPANY Naumenon Corporation
ADDRESS P.O. Box 842, Morgantown, WV 26507
DESIGNATED AGENT Stephen K. Shuman, Pres.
ADDRESS 251 High St., Morgantown, WV 26505
SURFACE OWNER Rosedale Coal Co.
ADDRESS P.O. Box 676, Morgantown, WV 26507
MINERAL RIGHTS OWNER See Exhibit No. 1
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Donald Ellis
ADDRESS 2604 Crabapple Lane Fairmont, WV 26554
PERMIT ISSUED 1-31-86
DRILLING COMMENCED 2-14-86
DRILLING COMPLETED 7-11-86
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.	60	0	N/A
13-10"	135'	135'	55 SKS
9 5/8			
8 5/8	1320'	1320'	235 SKS "
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Bayard Sand-Elizabeth Sand Depth 2600 feet
Depth of completed well 2660 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 105 feet; Salt _____ feet
Coal seam depths: Surface Is coal being mined in the area? No, previously stripped.

OPEN FLOW DATA

Producing formation Bayard Pay zone depth 2588 feet
Gas: Initial open flow 33 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow (33) Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)
Second producing formation None 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

natural well

MAY 04 1987

(Continue on reverse side)

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

✓ Natural Completion

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and gas
Sandstone & Shale			Surface	140'	
Shale & Sandstone			140'	567'	
Sandstone			567'	582'	
Shale			582'	664'	
Sandstone			664'	699'	
Coal			699'	702'	
Shale			702'	745'	
Sandstone			745'	770'	
Shale			770'	952'	
Sandstone			952'	1222'	
Shale			1222'	1320'	
Limestone			1320'	1333'	
Shale			1333'	1368'	
Limestone (Big Lime)			1368'	1458'	
Big Injun			1458'	1588'	
Shale			1588'	1650'	
Sandstone (Squaw)			1650'	1690'	
Shale			1690'	1710'	
Sandstone			1710'	1757'	
Shale			1757'	1905'	
Sandstone			1905'	1919'	
Shale			1919'	1980'	
Sandstone			1980'	2000'	
Shale			2000'	2028'	
Sandstone			2028'	2095'	
Shale & Sandstone			2095'	2200'	
Gordon Sandstone			2200'	2210'	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Naumenon Corporation
Well Operator

By:

Date:

[Signature]

4/29/87

Stephen K. Skuman, Pres.

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic

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

061804, Pg. 2

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fractures and salt water, coal, oil and gas
Shale & Sand			2210'	2405'	
Sandstone 5th Sand			2405'	2440'	
Shale			2440'	2462'	
Sandstone			2462'	2500'	
Shale			2500'	2533'	
Sandstone (Bayard)			2533'	2593'	
Shale			2593'	2660' TD	Show of gas @ 2590' 10/10 water & 1 inch

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APR 29 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Well Operator

By:

Date:

MAY 04 1987

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Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic

(Observed)
7/85

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DEC 13 1985



1) Date: November 4, 1985
 2) Operator's Well No. Rosedale Coal No, 1
 3) API Well No. 47-061-0804
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas X
 B (If "Gas", Production X / Underground storage / Deep / Shallow X)
 5) LOCATION: Elevation: 1192.20 Watershed: Unnamed Tributary to Monongahela River
 District: Cass County: Monongalia Quadrangle: Morgantown North
 6) WELL OPERATOR Neumenon, Inc. CODE: 3471D 7) DESIGNATED AGENT Stephen K. Shuman
 Address R.D. #2 Address 256 High Street
New Freeport, PA 15352 Morgantown, WV 26507
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Donald Ellis
 Address 2604 Crabapple Lane
Fairmont, WV 26554
 9) DRILLING CONTRACTOR: Name Chisler Bros.
 Address P.O. Box 101
Pentress, WV 26544
 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
 11) GEOLOGICAL TARGET FORMATION, Bayard Sand 423
 12) Estimated depth of completed well, 2600 feet
 13) Approximate strata depths: Fresh, 105 ~ 392 feet; salt, 600 feet.
 14) Approximate coal seam depths: Pgh.-mined-out 105" Is coal being mined in the area? Yes / No X

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	16"	F-25	55		X	60'	0	N/A	Kinds
Fresh water									
Coal	13/4	J-55	47		X	115 422'	115 422'	55 SKS	<u>Cases T.S. By Ryle 15.05</u>
Intermediate									
Production Tubing	8 5/8"	F-25	24		X	1320'	1320'	235 SKS	Depths set
Link									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-081-0804 Date January 31 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 January 31, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>MB</u>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>101</u>	WPCP: <u>AS</u>	S&E: <u>AS</u>	Other: <u> </u>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

File

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