

9/30/87

8700'

LATITUDE 39°45'00"

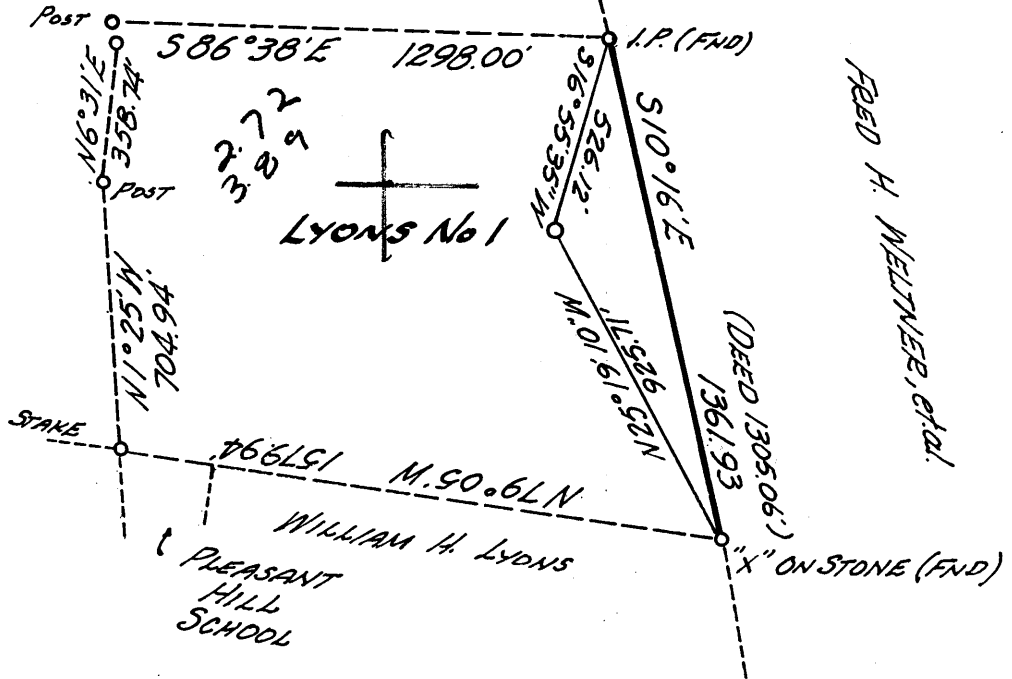
LONGITUDE 79°52'30"

14,500'

E. CLAUDE HOARD

CHARLES E. & SALLY DECKER

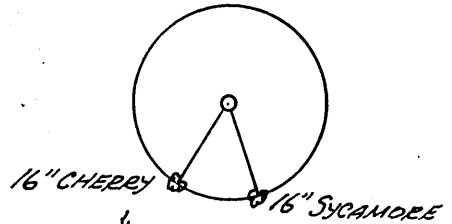
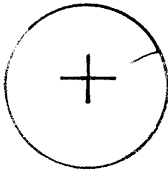
FRED H. WELTNER, et al.



NORTH

NOTE: No known wells within 1200'

REFERENCES



2.72 S  
1.65 W

N32°18'E  
129.99'

N10°18'N  
84.18'

Bk 77 Pg 37

(+) 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) Frederick H. Weltner  
 R.P.E. 7064 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE SEPT. 24, 19 87  
 OPERATOR'S WELL NO. LYONS No. 1  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 STATE COUNTY PERMIT 47 061 0846

LOCATION: ELEVATION 1040 WATERSHED MONONGAHELA RIVER  
 DISTRICT UNION COUNTY MONONGALIA 45°N6  
 QUADRANGLE MORGANTOWN NORTH W.V.A PA 484 086 2

SURFACE OWNER WILLIAM H. & MARIANNE H. LYONS ACREAGE 38.27 Acs.  
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 94 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) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Hayward Sand ESTIMATED DEPTH 2950'

WELL OPERATOR NOUMENON CORPORATION DESIGNATED AGENT STEPHEN K. SHUMAN, PRES.  
 ADDRESS P.O. Box 842, Morgantown, W.V. ADDRESS SAME

OCT 5 1987

6-6 Cassville-Bowlby (068)

FORM WVW-6

COUNTY NAME PERMIT

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**JAN 19 1989**

28-APR-88  
 API # 47- 61-00846

State of West Virginia  
 DEPARTMENT OF ENERGY  
 Division of Oil and Gas

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

FARM NAME: LYONS, WILLIAM H. & MARIANNE Operator Well No.: LYONS 1

LOCATION: Elevation: 1040.00 Quadrangle: MORGANTOWN NORTH  
 District: UNION County: MONONGALIA  
 Latitude: 14500 Feet South of 39 Deg. 45Min. 0 Sec.  
 Longitude: 8700 Feet West of 79 Deg. 52Min. 30 Sec.

COMPANY: NOUMENON CORPORATION, a WV  
 P.O. Box 842  
 Morgantown, WV 26507-0842

AGENT: STEPHAN K. SHUMAN

Inspector: DONALD ELLIS  
 Permit Issued: 09/30/87  
 Well Work Commenced: 10/08/87  
 Well Work Completed: 10/26/87  
 Verbal Plugging  
 Permission granted on: n/a  
 Rotary x Cable Rig  
 Total Depth (feet) 2551'  
 Fresh water depths (ft) 76,  
 119, 145 & 819  
 Salt water depths (ft) n/a

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11 3/4"	133'	133'	
8 5/8"	966'	966'	cts
4 1/2"	----	2034'	200 sks

Is coal being mined in area (y/n)? n  
 Coal Depths (ft): 500, 581

OPEN FLOW DATA

Producing Formation Thirty Foot Pay zone depth (ft) 1934'  
 Gas: Initial open flow ---- MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 5.3 53? MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests n/a Hours  
 Static rock Pressure 400 psig (surface pressure) after 12 Hours

Second producing Formation Squaw Pay zone depth (ft) 1605  
 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: Above information is a composite of both pay zones.

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: NOUMENON CORPORATION, a W.VA. CORP.

By: [Signature]  
 Date: January 16<sup>th</sup> 1989

PERFORATION AND STIMULATION DATA:

Squaw and Thirty Foot Sandstones - Perforations were made at 1950 to 1938 and at 1820 to 1819 to treat the Thirty Foot and Shumanon sandstones and at 1616 and at 1612 to 1602 to frac the Squaw sandstone. The two areas were separated during treatment by a wide mouth frac plug. The sands were treated with acid and then gelled water fluid and 20-40 mesh sand. The Squaw broke down at 3550 p.s.i. and the Thirty Foot at 3500 p.s.i.

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Shale & Sandstone	Surface	341	Fresh Water @ 76 & 119
Sandstone	341	363	
Shale	363	379	
Sandstone	379	426	
Shale	426	447	
Sandstone	447	492	
Shale	492	500	
Upper Freeport Coal	500	504	
Shale	504	519	
Sandstone	519	542	
Shale	542	581	
Lower Freeport Coal	581	583	
Shale	583	608	
Coal	608	610	
Shale	610	620	
Sandstone	620	666	
Shale	666	761	
Sandstone	761	790	
Shale	790	818	
Homewood Sand	818	1050	
Shale	1050	1163	
Little Lime	1163	1174	
Shale	1174	1209	
Big lime	1209	1300	
Big Injun	1300	1450	
Shale	1450	1514	
Squaw Sand	1514	1620	
Shale	1620	1782	
Berea Sand?	1782	1796	
Shale	1796	1805	Slight Show of Gas
Shumanon	1805	1820	
Shale } Gantz	1820	1856	
Gantz	1856	1870	
Shale	1870	1880	
Fifty Foot	1880	1927	Slight Show of Gas
Shale	1927	1934	
Thirty Foot	1934	1980	
Shale	1980	2083	
Gordon	2083	2089	
Shale	2089	2170	
Fourth	2170	2181	
Shale	2181	2295	
Fifth "A"	2295	2320	
Shale	2320	2340	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

061 846

Fifth	2340	2390	
Shale	2390	2422	
Bayard	2422	2435	
Shale	2435	2451	
Elizabeth	2451	2468	
Base of Sand	2468		
TD (Logger)	2553		

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JAN 19 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

164

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1) Date: September 24, 1987  
 2) Operator's Well No. Lyons #1  
 3) API Well No. 47 State 061 County 0846 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  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 1040 Watershed: Unnamed Run and Monongahela River 483  
 District: Union 7 County: Monongalia 061 Quadrangle: Morgantown North
- 6) WELL OPERATOR Noumenon Corp CODE: 34710 7) DESIGNATED AGENT Stephen K. Shuman, Pres.  
 Address P.O. Box 842 624 Address 256 High Street  
Morgantown, WV 26505 Morgantown, WV 26505
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Donald Ellis  
 Address 2604 Crabapple Lane  
Fairmont, WV 26554
- 9) DRILLING CONTRACTOR: Name Putnam Drilling  
 Address P.O. Box 465  
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 320
- 12) Estimated depth of completed well, 2900 feet
- 13) Approximate trata depths: Fresh, 920 feet; salt, \_\_\_\_\_ feet.
- 14) Approximate coal seam depths: 570, 809-815, 905-911 Is coal being mined in the area? Yes \_\_\_\_\_ / No   
From memo. 344 From memo. 346
- 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		
Conductor	11 3/4"		42	X		30'		Kinds
Fresh water								
Coal								Sizes <u>38CSR18-11.3</u>
Intermediate	8 5/8"	J-55	23	X		970'	970'	CTS <u>38CSR18-11.2.2</u>
Production	4 1/2"	K-55	10.5	X			2700'	1500'
Tubing								Depths set <u>38CSR18-11.1</u>
Liners								Perforations: Top _____ Bottom _____

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-061-0846 Date September 30 19 87

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 September 30, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond	Agent	Plat	Casing	Fee	WPP	SAE	Other
				<u>232</u> <u>1326</u>			

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

Director, Division of Oil and Gas

File

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