# PHOENIX IV PROJECT: THE NOBLE GAS PLASMA TECHNOLOGY

## APPENDIX B

"JOINT AFFIDAVIT OBSERVATIONS CONCERNING
THE PAPP INVENTION"

by NOLAN and HODGES

## Observations Concerning the Papp Invention

The Papp Invention is essentially a closed, reciprocating.

two cylinder engine which does not require an air supply and
does not emit exhaust gases. It is comparable to an automobile
engine in size.

The engine is powered by a suel mixture, which according to the inventor, containing sive (5) inert eases. The engine does not use any hydrocarbon-suel, except as a subricant in the crankcase. The suel is interest in the piston cavities, sup is claimed to be the weakful found as well as the fuel. There is no cooling system, and no suel tank. The only outside source of power that is utilized by this engine is two.

(2) twelve volt (12V) batteries to start the engine. Once the engine is running the two batteries can be removed. The working model is essentially the same as the working drawing size.

The speed of the engine is variable, using a rheostat, and was operated between 726 r.p.m. and 100 r.p.m. The engine runs quietly and is stable at any r.p.m. The noise level can be compared to a low r.p.m. electric motor.

The engine is attached to a new dynometer capable of rating torque, R.P.M., horsepower and torquerise which carries the brand name of "ASW" and is a DEBLASKA HOD model, serial No.

841

11-71

TEL No

The dynameter and engine was connected by a mounting
apparatus which exposes the drive line from the engine to the
dynometer. The dynometer was checked for calibration by Mr.
Dennis Hodges just prior to running the engine and was found to
be properly calibrated and properly attached to the engine. The
engine was operated for testing on 26 day of Feb.
1983. by the inventor.
The engine was operated for a total of hrs. and
minutes with no apporent heating problems and
without additional fuel.
During the testing the engine was operated at  different speeds. The first was at 700-730 r.p.m. The
different speeds. The first was at 700-730 r.p.m. The
dynometer reading were
RPM 726 Torque (foot pounds) 776 Norsepower 107 % of
Torque Rise 4/8
AtX R.P.M. the dynometer readings were:
R.P.M. X Torque (F.P.) X Horsepower X 5 of
Torque Rise X.
At X RPM, the dynometer readings were:
RPM . V Torque (F.P.) X Horsepower V 3 of Torque
Rise X

2//

15 X

The engine was also operated at RPM, with no load, with no apparent problems.

## AFFADAVIT

County of Cherokee

State of Oklahoma

We, George J. Nolan and Dennis Hodges, both of legal age and being first duly sworn state as follows: We hereby certify that we witnessed the running of the engine which is described herein on the 24 day of Fela 1983.

We also certify that everything that is stated in this document, containing THEE pages, all initialed by us, is true and correct, and that the figures written in were written by Dennis Hodges and George ]. Nolan as they witnessed them during the testing

George J/ NEIET Professor of Chemistry Mortheastern State University Tahlequah, Oklahoma

Owner-Independent Diesel Service 2101 S. Detroit Proken Arrow Oklahoma

## Acknowledgment

Sworn subscribed to before me this 26th day of

1165,2

George J. Molan, Ph.D. Professor of Chemistry

Employment: Presently employed at MSU, Professor of Chemistry, Chemistry Department.

#### EARNED DEGREES

2.5. Northeastern State College, 1958, Chemistry
2.5. University of Arkansas, Fayetteville, 1961 Chemistry
Ph.D. University of Arkansas, 1964 Chemistry

#### PROFESSIONAL EXPERIENCE

Research Chemist (1962-68). Research concerned new catalytic process for converting low molecular weight hydrocarbons to useful hydrocaron derivative and developing technology for refining coal.

Consultant for patent attorneys at Phillips Petroleum Company. Consultant for Arkola Sand and Gravel, a subsidary of Ashland Oil Company.

### RESEARCH AND PUBLICATIONS

Research: Catalysis and Electrolytic Solutions: Helped design and construct an automated catalyst testing unit which cost \$100,000: Wrote specifications for a DTA (Differential Thermal Analysis Apparatus); Constructed a TGA (Temperature Gravimetric Analysis Apparatus).

Nolan, George J., "Salt Effects in the Alkaline Hydrolysis of Potassium Ethyl Malonate," J.A.C.S. S2, 3237-S (1960).

Nolan, George J., "Salt Effects in the Reaction Between Broma and lodide lons," J.A.C.S., 82 3232-5 (1906)

Nolan, George J., "Rate of Alkaline Hydrolysis of Ethyl Alpha-Haloacetates in Pure and Mixed Solvents," J. of Phy. Chem., 65,1556-50 (1961).

Nolan, George J., "Polargraphy of U(1V) in Ethanol-Mater Systems," T. Polarog. Soc., 10(1) 7-16 (1964).

Patents: Oxidative Dehydrogenation over Stannic Phosphate
Catalyst 3,320, 329 (1967); Oxidative Dehydrogenation
of Monolefins 3,304,342 (1967); Dehydrogenation Process
and Catalyst 3,446, 869 (1969); Dehydrogenation 3, 501,
547 (1970); Oleinf Skeletal Isomerization and Catalyst,
3,448, 164, (1969); Dehydrogenation 3, 501, 548 (1970);
Dehydrogenation 3, 555, 105, (1970); Dehydrogenation of
Olefins 3,580, 969 (1971); Dehydrogenation Datalysts 3,
697, 601 (1972). There are 2 more patents that 1 do
not have the numbers of that are not included in this

Dennis L. Hodges 7306 S. 231st E. Ave Broken Arrow, Okla.

Presently owner - Independent Diesel Service EMPLOYMENT:

2101 5 Detroit

Broken Arrow, OK

1965 to 1976 Operating dynometer for United Engine Shop, 7454 E. 41st St., Tulsa, Oklahoma, EXPERIENCE:

Testing engines and Transmissions.

1976 to Present - Owner of Independent Diesel Service

LEL NO.