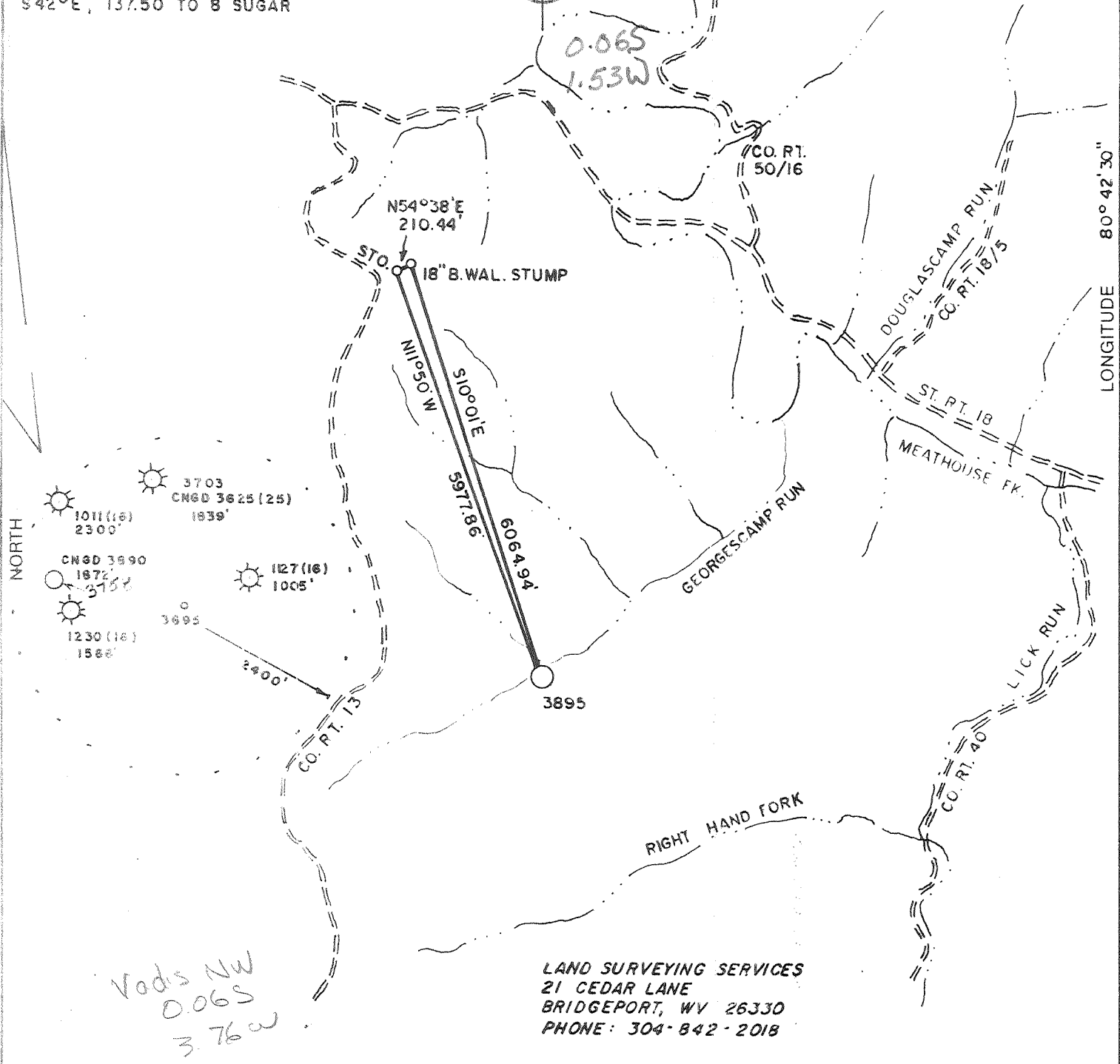


WELL REFERENCES:  
 S43°30'W, 213' TO 10" B. WALNUT  
 S42°E, 137.50' TO 8" SUGAR

8150' LATITUDE 39° 15' 00"

*Janice 11/22/89*



LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

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

FILE NO. _____ DRAWING NO. _____ SCALE <u>1" = 2000'</u> MINIMUM DEGREE OF ACCURACY <u>1 in 200'</u> PROVEN SOURCE OF ELEVATION <u>EXIST. WELL 1127</u> <u>ELEV. - 892.23'</u>	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) _____ R.P.E. _____ L.L.S. <u>674</u> <b>STEPHEN D. LOSH</b>	PLACE SEAL HERE
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STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE OCTOBER 23, 19 89  
 OPERATOR'S WELL NO. 3895  
 API WELL NO. 47-017-3762  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 921' WATERSHED GEORGESCAMP RUN  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5 min.

SURFACE OWNER ROBERT S. MAXWELL ACREAGE 872.83  
 OIL & GAS ROYALTY OWNER LEWIS MAXWELL LEASE ACREAGE 307  
 LEASE NO. OXY F/1

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 ALEXANDER ESTIMATED DEPTH 5175'  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY BIGGS  
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698  
PITTSBURGH, PA 15244 142 BRIDGEPORT, WV 26330

COUNTY NAME  
 PERMIT

6-6 Smithton-Flint-Sedalia (099) DEC 08 1990

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MAY 25 1990

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

DIVISION OF OIL & GAS Well Operator's Report of Well Work

DEPARTMENT OF ENERGY  
Farm Name: MAXWELL, ROBERT S. ETUX. Operator Well No.: CNGD 3895

LOCATION: Elevation: 921.00 Quadrangle: NEW MILTON

District: NEW MILTON County: DODDRIDGE  
Latitude: 420 Feet South of 39 Deg. 15Min. 0 Sec.  
Longitude 8150 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: CNG DEVELOPMENT CO. A DEL  
P. O. BOX 15746  
PITTSBURGH, PA 15244-0000

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD  
Permit Issued: 12/04/89  
Well work Commenced: 01/08/90  
Well work Completed: 01/13/90  
Verbal Plugging  
Permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5201  
Fresh water depths (ft) \_\_\_\_\_  
Damp 900 & 949'  
Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11"	192	192	To Surf.
8 5/8"	1349	1349	To Surf.
4 1/2"	5124	5124	300 sks
2 3/8"	4841	4841	----

OPEN FLOW DATA

Producing formation Alexander Benson Pay zone depth (ft) 4878-4933  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
5/3/90 Final open flow 411 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock Pressure 1125 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
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: 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: John F. Nichols, VP Production  
CNG DEVELOPMENT CO. A DEL. CORP.

By: John F. Nichols  
Date: May 9, 1990

JUN 14 1990

Perforated Alex. 4927 - 4933, 5 holes; 4912 - 4918, 5 holes; 4897 - 4900, 3 holes;  
4878 - 4884, 10 holes, .39 HSC

Foam Frac Alex. - Break 2000#, Avg. TPSI 3196, Avg Rate 20 BPM, HHP used 1040,  
ISI 2300, Max Sand Conc. 4# Gal, Used 500 gals 15% HCL, 5000# 80/100 Sand, 40,000#  
20/40 Sand, 540,000 SCFN<sub>2</sub>

Perforated Benson 4594 - 4599, 20 holes, .39 HSC

Foam Frac (70Q) Benson - Break 2380, Avg TPSI 3278, Ave Rate 20 BPM, HHP used 1068,  
ISI 2470, Max Sand Conc. 4#/gal, Used 500 gal 15% HCL, 5000# 80/100 Sand, 54,500#  
20/40 Sand, 610,000 SCFN<sub>2</sub>

Clay & Fill	0	25	Damp @ 900'
Sd, Sh & RR	25	1523	Damp @ 949'
L. Lime	1523	1530	
Sd & Sh	1530	1542	
B.Lime & Injun	1542	1728	
Sd & Sh	1728	5201	

LOG TOPS

Big Lime	1574	1674
Big Injun	1674	1728
Weir	1876	1970
Berea	2086	2094
Gordon Gp.	2262	2320
Warren	2955	2986
Warren Marker	2986	
U. Speechley	3000	3100
Bradford Marker	4208	
Benson	4592	4630
Alexander	4840	4946

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

017 3762  
 Issued 12/04/89  
 Page 1 of 1  
 expires 12/04/91

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

- 1) Well Operator: CNG DEVELOPMENT COMPANY <sup>142</sup> 10110 (6) 510
- 2) Operator's Well Number: CNGD 3895 3) Elevation: 872.8
- 4) Well type: (a) Oil    / or Gas X /  
 (b) If Gas: Production X / Underground Storage    /  
 Deep    / Shallow X /
- 5) Proposed Target Formation(s): Alexander 489
- 6) Proposed Total Depth: 5175 feet
- 7) Approximate fresh water strata depths: - 82', 119', 339'
- 8) Approximate salt water depths: -
- 9) Approximate coal seam depths: -
- 10) Does land contain coal seams tributary to active mine? Yes    / No X /
- 11) Proposed Well Work: Drill new well
- 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						
Fresh Water	11 3/4	H-40	42	200	200	To surface
Coal						To surface
Intermediate	8 5/8	X-42	23	1300	1300	38CSR18-11.2.2 & 38CSR18-11.3
Production	4 1/2	J-55	10.5	5175	5175	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75	5000	5000	
Liners						

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PACKERS : Kind             
 Sizes             
 Depths set           

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

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

3415  
 29

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NOV 16 1989

DIVISION OF OIL & GAS 3)  
DEPARTMENT OF ENERGY

Date: November 3, 1989  
Operator's well number  
CNGD 3895  
API Well No: 47 - 017 - 3762  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Robert S. Maxwell et ux  
Address New Milton Star Route  
West Union, WV 26456
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Robert L. Holland, Jr. Agent  
Address 105 High St., P. O. Box 425  
West Union, WV 26456  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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  
X 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)  
X 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 CNG Development Company  
By: [Signature]  
Its: Supervisor Purchasing/Production Services  
Address One Park Ridge Center, P. O. Box 15746  
Pittsburgh, PA 15244  
Telephone (412) 787-4117

Subscribed and sworn before me this 3 day of November, 1989

[Signature]  
My commission expires \_\_\_\_\_

Notarial Seal  
Barbara A. Schaub, Notary Public  
Findlay Twp., Allegheny County  
My Commission Expires June 14, 1993

Notary Public