

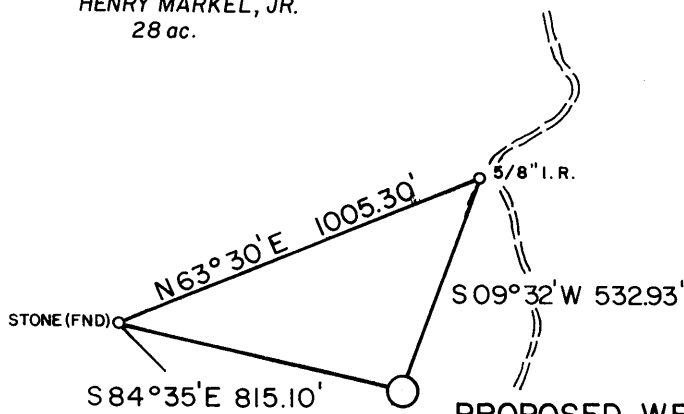
10,900'

(+) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

LATITUDE 39° 22' 30"

Janie 1/22/90

HENRY MARKEL, JR.
28 ac.

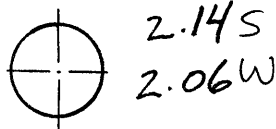


PROPOSED WELL
CNGD 3687 REV.
EL. 1088.21'

BASIL MORRIS
46.34 ac.

RUTH G. ADKINS
237.77 ac.

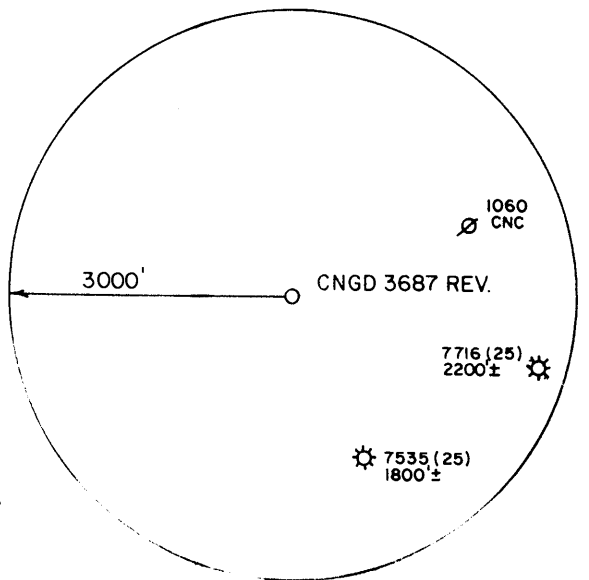
S 45° E 1179.40'



REFERENCE TIES

N 09° 30' E 226.90' TO A 12" PINE
N 13° 38' E 238.16' TO A 20" DBL. POP.

*(5' loc
5.02 S
4.29 W*



LONGITUDE 80° 57' 30"

11,375'

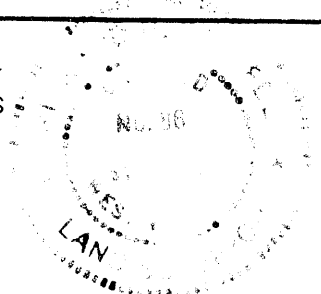
MSES consultants, inc.

FILE NO. MSES 89 - 899
DRAWN BY HDW / RVS
SCALE 1" = 500'
MIN. DEGREE OF ACCURACY 1 IN 2500
PROVEN SOURCE OF ELEVATION:
ROAD JCT. 7300' N.W. OF LOCATION
EL. 772'

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) Richard R. Casted

R.P.E. _____ L.L.S. 864



**STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION**



DATE OCTOBER 12, 19 89
OPERATOR'S WELL NO. CNGD 3687 REV.
API WELL NO. 47 - 095
STATE LAN COUNTY 1370 PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1088.21' WATERSHED BRUSH RUN OF McKIM CREEK
DISTRICT MEADE COUNTY TYLER
QUADRANGLE PENNSBORO, 7.5' West Union NEAREST TOWN HEBRON
SURFACE OWNER D. E. WILLIAMS ACREAGE 20
OIL & GAS ROYALTY OWNER D. E. WILLIAMS LEASE ACREAGE 238

LEASE NO. DV 32502

PROPOSED WORK: DRILL 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 BENSON ESTIMATED DEPTH 5225'
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT RODNEY J. BIGGS
ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK
P.O. BOX 15746 ROUTE 2 BOX 698
PITTSBURGH, PA. 15244 BRIDGEPORT, W.V. 26330

FORM IV-6

COUNTY PERMIT

6-6 unnamed (2)

JAN 26 1990

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

Well Operator's Report of Well Work

Farm name: WILLIAMS, DONALD E. ETAL. Operator Well No.: CNGD 3687-REV.

LOCATION: Elevation: 1088.21 Quadrangle: PENNSBORO

District: MEADE County: TYLER
Latitude: 11375 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10900 Feet West of 80 Deg. 57 Min. 30 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: GLEN P. ROBINSON
Permit Issued: 01/19/90
Well work Commenced: 08/09/90
Well work Completed: 08/18/90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5230'
Fresh water depths (ft) _____

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.
8 5/8"	131	131	To Surf.
5 1/2"	1660	1660	To Surf.
3 1/2"	5168	5168	50 sks

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4938-48
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
12/7/90 Final open flow 148 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 1/2 Hours
Static rock Pressure 1440 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: Rodney J. Biggs, Manager
CNG DEVELOPMENT CO. A DEL. CORP.

By: Rodney J. Biggs
Date: December 10, 1990

JAN 18 1991

Perforated Benson 4938-48, 30 shots, .30 2 1/8" HSC

30# Gel Frac Benson - Breakdown -, Ave HHP 1675, Ave Rate 22.6, Ave Pres. 3033,
Max Ir Pres. 4050, Total Sand 28,100, Max Conc. 3#/gal, Total Fluid 564 bbl, SL Fl 290 bbl,
ISIP 1050, 5 min 900, Total Nit. N/A.

Shale & RR	0	1900
Big Lime & Injun	1900	2044
Sand & Shale	2044	5230

LOG TOPS

Little Lime	1905	1925
Big Lime	1930	
Big Injun		2148
Weir	2422	2466
Berea	2523	2558
4th Sand	2938	2953
Warren	3519	3588
Speechley	3864	3948
Bradford	4494	4681
Riley	4749	4852
Benson	4934	4977

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

Issued 11/19/90
Expires 11/19/92
538

- 1) Well Operator: CNG DEVELOPMENT COMPANY 10110 (4)
- 2) Operator's Well Number: CNGD 3687 3) Elevation: 1088.21
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5225 feet
- 7) Approximate fresh water strata depths: n/a
- 8) Approximate salt water depths: 1222, 1562
- 9) Approximate coal seam depths: 566
- 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

RECEIVED
JAN 02 1990

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	11 3/4	H-40	42	120	120	To surface
Coal						To surface
Intermediate	8 5/8	X-42	23	1660	1660	38CSR18-11.2.2 & 38CSR18-11.3
Production	4 1/2	J-55	10.5	5225	5225	200-400 sks 38CSR18-11.1
Tubing	1 1/2	CN-55	2.75	5100	5100	
Liners						

10070

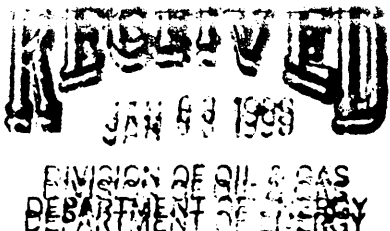
PACKERS : Kind _____
Sizes _____
Depths set _____

RECEIVED
JAN 03 1990

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 Surety Agent
(Type)

033637



Date: December 20, 1989
Operator's well number
CNGD 3687
API Well No: 47 - 095 - 1370
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 Donald E. Williams
Address 5640 Pipers Waite
Sarasota, FL 34235
 - (b) Name Carl D. Williams
Address 2309 Lehigh Ave.
Bradenton, FL 34207
 - (c) Name William C. Williams
Address 3203 Angletterre Blvd.
Akron, OH 44312
- 6) Inspector Glen P. Robinson
Address Rt. 1, #6 Mt. Pleasant Est.
Mineralwells, WV 26150
Telephone (304)- 489-9162
- 4) (d) ~~Surface Owners cont.~~
Name George E. Williams
Address 2216 Green St., NE
Hartville, OH 44632
- 5) (A) Coal Owner(s) with Declaration
Name same as Surface Owners
Address _____
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.

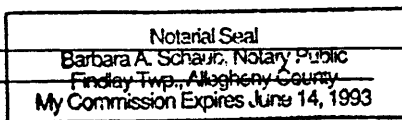
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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 20 day of December, 1989

My commission expires _____



Notary Public