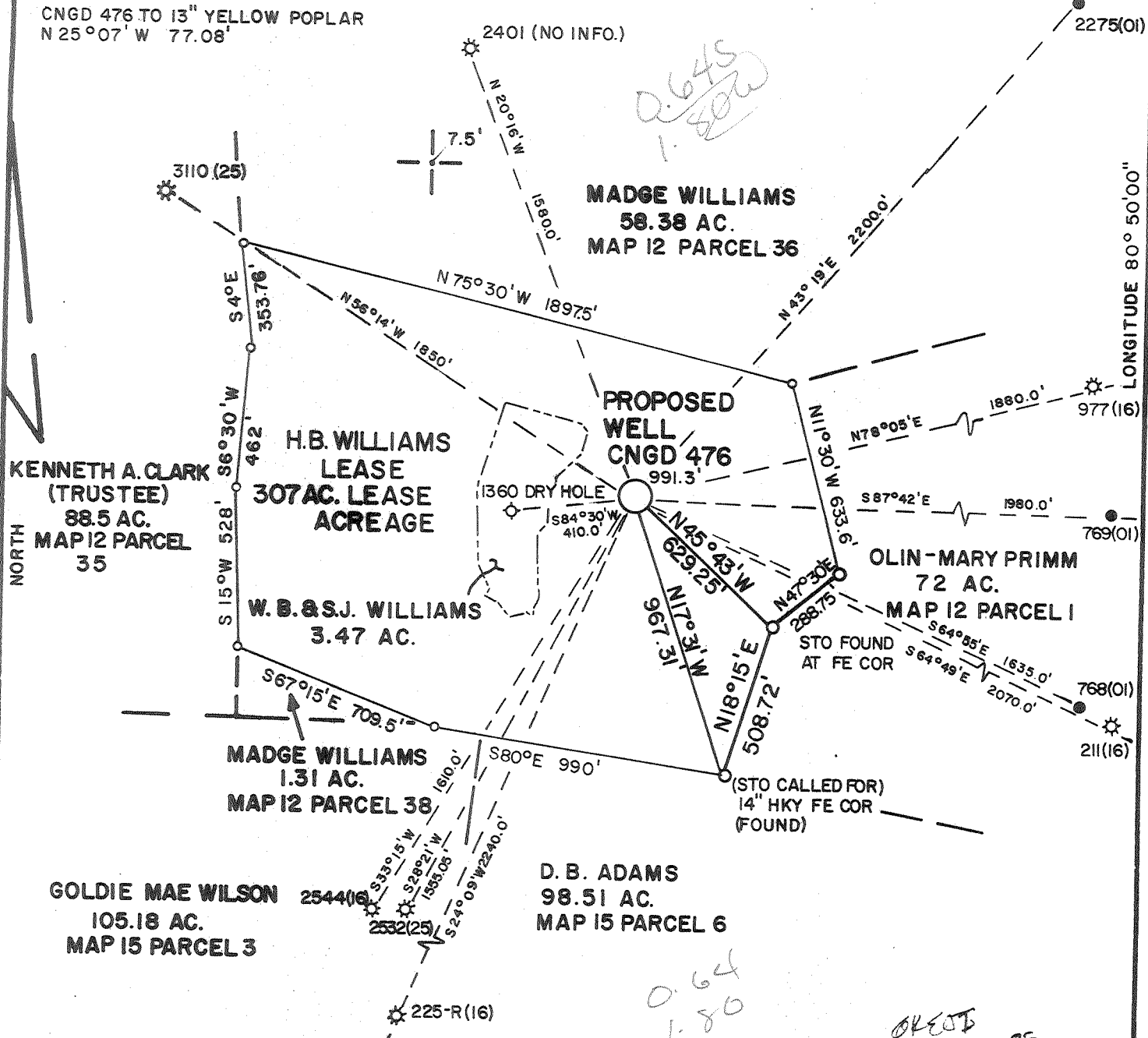


REFERENCE WELL TIES:

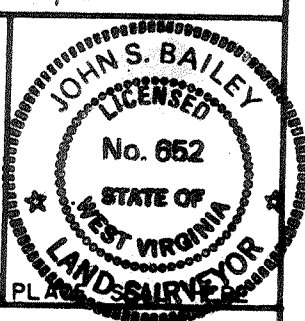
CNGD 476 TO 13" TRIP. SCARLET OAK  
N 75° 55' W 89.60'

CNGD 476 TO 13" YELLOW POPLAR  
N 25° 07' W 77.08'



FILE NO. MSES 84-476  
 DRAWN BY JLB  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION RD. INT. 2000'S OF LOCATION ELEV. 865

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) John S. Bailey  
 R. P. E. \_\_\_\_\_ L. L. S. 652



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



Department of Mines  
 Oil & Gas Division

DATE DECEMBER 4, 1984  
 OPERATOR'S WELL NO. CNGD 476  
 API WELL NO. 47-017-3420-W  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 991.3' WATER SHED \_\_\_ CABIN RUN \_\_\_  
 DISTRICT CENTRAL COUNTY DODDRIDGE  
 QUADRANGLE OXFORD, WV 7.5' 1964 (1976)  
 SURFACE OWNER MADGE WILLIAMS ACREAGE 54.91  
 OIL & GAS ROYALTY OWNER W.H. WILLIAMS ESTATE LEASE ACREAGE 387  
 LEASE NO. 23460  
 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 5400'

CNG Producing Company  
 Rt. 2, Box 698  
 Bridgeport, wVa. 26330-0698  
 . DESIGNATED AT  
 . ADDRESS Rodney J. Biggs  
 Same Address  
 PH: 304. 623-8840

DODD 3420

*OKED 1-23-85*

1970-3-11-12

9,500

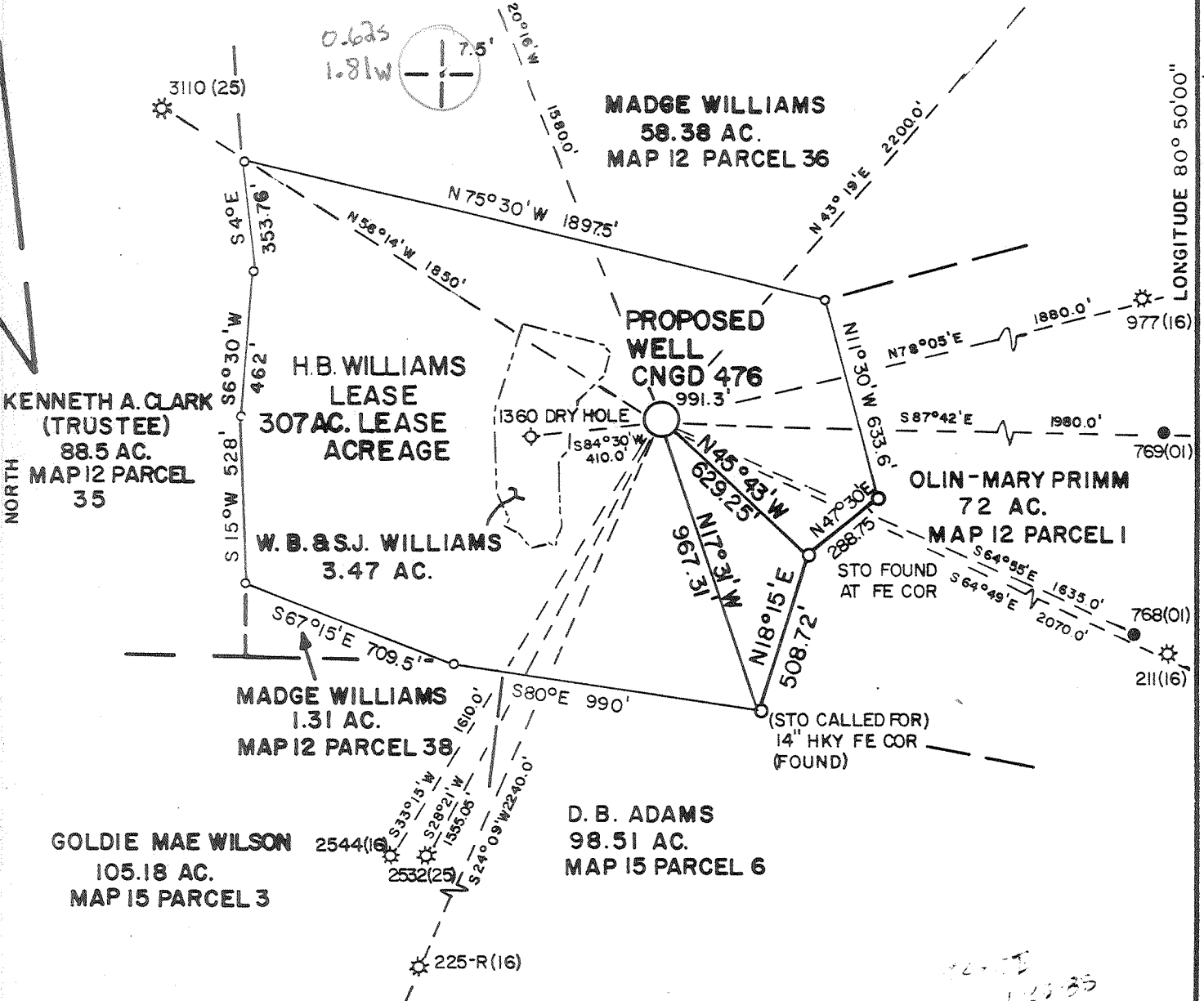
REFERENCE WELL TIES:

CNGD 476 TO 43" TRIP SCARLET OAK  
N 75° 55' W 89.60'

CNGD 476 TO 13" YELLOW POPLAR  
N 25° 07' W 77.08'

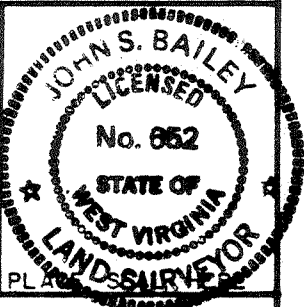
LATITUDE 39° 15' 00"

LONGITUDE 80° 50' 00"



FILE NO. MSES 84-476  
 DRAWN BY JLB  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION RD. INT. 2000'S OF LOCATION ELEV. 865

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) John S. Bailey  
 R.P.E. \_\_\_\_\_ L.L.S. 652



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



Department of Mines  
 Oil & Gas Division

DATE DECEMBER 4, 1984  
 OPERATOR'S WELL NO. CNGD 476  
 API WELL NO. 47-017-3420  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 991.3' WATER SHED CABIN RUN  
 DISTRICT CENTRAL COUNTY DODDRIDGE  
 QUADRANGLE OXFORD, WV 7.5' 1964 (1976) Holbrook 15' Nc2  
 SURFACE OWNER MADGE WILLIAMS ACREAGE 54.91  
 OIL & GAS ROYALTY OWNER W.H. WILLIAMS ESTATE LEASE ACREAGE 387  
 LEASE NO. 23460  
 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 5400' MAR 25 1985  
 WELL OPERATOR CNG DEVELOPMENT CO. DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2 BOX 698  
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330  
6-6 Straight Fork - Bluestone Creek (133)

JAN 17 1996

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Permitting Office of Oil & Gas Well Operator's Report of Well Work

Farm name: WILLIAMS, ROBERT C Operator Well No.: CNGP 476 W

LOCATION: Elevation: 991.30 Quadrangle: OXFORD

District: CENTRAL County: DODDRIDGE
Latitude: 3250 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 9500 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: CNG PRODUCING COMPANY
ROUTE 2, BOX 698
BRIDGEPORT, WV 26330-0698

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 09/07/95
Well work Commenced: 10/2/95
Well work Completed: 10/30/95
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 5273'
Fresh water depths (ft)
Salt water depths (ft)

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Includes entry for Re-Ran 1.5" Tbg. with 5224' used and 5224' left.

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

OPEN FLOW DATA

Producing formation Balltown Pay zone depth (ft) 3790-3841
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow \* 400 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1180 psig (surface pressure) after 12 Hours
\* Commingle with existing production
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: CNG PRODUCING COMPANY

By: Rodney J. Biggs, Production Manager, Appalachian Region
Date: 01/15/96

JAN 20 1996

NR 112

CNGP 476

10/2/95 - Pulled 1.5" Tubing

10/9/95 - Allegheny Perforated:

Balltown, 3790-3841, 30 holes

10/9/95 - Nowsco Fraced:

Break	2100#
Avg. Psi	2190#
Avg. Rate	24.1 bpm
ISIP	1550#
Total Acid	1000 gal.
Total Water	551 bbls.
Total sand	125 sks, 20/40

10/27/95 - Re-Ran 1.5" Tubing

10/27/95 - F. O. F. = 400 MCFD

10/30/95 - T.B.I.L.



IV-35  
(Rev 8-81)

**RECEIVED**  
MAY 16 1985

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date May 8, 1985  
Operator's  
Well No. CNGD WN 476  
Farm H. B. Williams  
API No. 47 - 017 - 3420

OIL & GAS DIVISION  
DEPT. OF MINES

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: 991.5 Watershed Cabin Run  
District: Central County Doddridge Quadrangle Oxford, WV 7.5

COMPANY CNG DEVELOPMENT COMPANY  
ADDRESS P. O. Box 15746  
Pittsburgh, PA 15244  
DESIGNATED AGENT Gary A. Nicholas  
ADDRESS Rt. 2 Box 698  
Bridgeport, WV 26330  
SURFACE OWNER Madge Williams  
ADDRESS Rt. 1 Box 212  
W. Union, WV 26456  
MINERAL RIGHTS OWNER W. H. Williams Estate  
ADDRESS Rt. 1 Box 212  
West Union, WV 26456  
OIL AND GAS INSPECTOR FOR THIS WORK      
Mike Underwood ADDRESS Rt. 2 Box 114  
Salem, WV 26426  
PERMIT ISSUED 3-20-85  
DRILLING COMMENCED 4-16-85  
DRILLING COMPLETED 4-22-85  
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.			
<del>11-3/4</del> 13-1/4	240	240	To Surf.
9 5/8			
8 5/8	1985	1985	To Surf.
7			
5 1/2			
4 1/2	5377	5377	300 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5400 feet  
Depth of completed well 5401 feet Rotary x / Cable Tools      
Water strata depth: Fresh     feet; Salt     feet  
Coal seam depths:     Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Alexander Pay zone depth 5228 - 5241 feet  
Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow 335 Mcf/d Oil: Final open flow     Bbl/d  
Time of open flow between initial and final tests     hours  
Static rock pressure 170 psig (surface measurement) after 1 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation     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

MAY 28 1985  
(Continue on reverse side)

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

Hitwell Surveys ran Corrlog & Perforated Alexander 5228 - 5231 (4 holes) and 5236 - 5241 (6 holes) (.49) HSC

Halliburton Foam Frac (75Q) Alexander - Break 2800, Avg. TPSI 3000, Avg Rate 16 BPM, ISI 1150, 5 min 1050, used 500 gals 15% HCL & 70,000# 20/40 Sand. 760,000 SCFN<sub>2</sub>  
Ran 1 Qt. of Radioactive Beads

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	10	Hole Damp @ 1540'
Sand, Shale & RR			10	1956	
Lime & Shale			1956	1965	
Sand, Shale & Lime			1965	2005	
Big Lime & Injun			2005	2128	
Sand & Shale			2128	5401	Alex. @ TD.
<u>LOG TOPS</u>					
Big Injun				2122	
Weir			2230	2418	
Berea			2478	2482	
Warren			3320	3450	
Speechley			3768	3825	
Balltown			4082	4200	
Bradford			4266	4440	
Benson			4510	4550	
Riley			4920	4924	
Leopold			5120	5128	
Alexander			5165	5252	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By:

*Gary A. [Signature]*

Date:

May 8, 1985

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: February 20, 19 85  
 2) Operator's Well No. 476  
 3) API Well No. 47 - 017 - 3420  
 State            County            Permit           

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 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: 991.5 Watershed: Cabin Run  
 District: Central County: Doddridge Quadrangle: Oxford WV. 7.5
- 6) WELL OPERATOR CNG Development Company 10110  
 Address One Park Ridge Center P.O. Box 10110  
Pittsburgh, PA 15244
- 7) DESIGNATED AGENT Gary Nicholas  
 Address Crosswind Corporate Park Rte 2 Box 698  
Bridgeport W. VA 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Mike Underwood  
 Address Rte 2 Box 114  
Salem, W. VA. 26426
- 9) DRILLING CONTRACTOR:  
 Name Sam Jack Drilling Company  
 Address p.o. Box 48  
Buckhannon, W. VA 26201
- 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, Alexander
- 12) Estimated depth of completed well, 5400 feet
- 13) Approximate strata depths: Fresh, 3190 feet; salt,            feet.
- 14) Approximate coal seam depths:            Is coal being mined in the area? Yes            / No -

**RECEIVED**  
 FEB 27 1985  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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								Kinds
Fresh water	11-3/4	H-40	42	X		<u>22040</u>	<u>22040</u>	To Surface By Rule 15.05
Coal								Sizes
Intermediate	8-5/8	X-42	23	X		1925	1925	To Surface By Rule 15.05
Production	4-1/2	J-55	10.5	X		5400	5400	200-400 Depths set
Tubing	1 1/2	CN-55	2.75	X				By Rule 15.01
Liners								Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3420 Date March 20, 19 85

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 March 20, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>28</u>	Agent: <u>✓</u>	Plat: <u>MP</u>	Casing: <u>MP</u>	Fee: <u>6966</u>
-----------------	-----------------	-----------------	-------------------	------------------

*Margaret J. Hesse*  
 Administrator, Office of Oil and Gas

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

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

File

017-3420-W

AUG 22 1995

FORM WW-2B

Page \_\_\_ of \_\_\_

Permitting  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
Office of Oil & Gas  
STATE OF WEST VIRGINIA  
WELL WORK PERMIT APPLICATION

Issued 09/07/95  
Expires 09/07/97

- 1) Well Operator: CNG Producing Company 1011° ① 526
- 2) Operator's Well Number: CNGP 476W 3) Elevation: 991.3'
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow \_\_\_ /  
433  
Proposed Target Formation(s): Balltown
- Proposed Total Depth: 3768-3818 feet
- Approximate fresh water strata depths: \_\_\_\_\_
- Approximate salt water depths: \_\_\_\_\_
- Approximate coal seam depths: \_\_\_\_\_
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No \_\_\_ /
- 11) Proposed Well Work: Squeeze cement to cover interval. Perforate and Frac zone. Clean well up and commingle with existing production.
- 12)

21035

CASING AND TUBING PROGRAM

O.K.M.W.

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"	H-40		250'	250'	to surface
Fresh Water						38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate	8 5/8"	X-42		1995'	1995'	to surface
Production	4 1/2"	J-55		5378'	5378'	300 sks.
Tubing						38CSR18-11.1
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

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

01658  
36



RECEIVED WV Division of Environmental Protection

AUG 22 1995

- 1) Date: 8/18/95
2) Operator's well number CNGP 476W
3) API Well No: 47 - 017 - 3420W State - County - Permit

Permitting Office of Oil & Gas STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: (a) Name Robert C. Williams, Address Rt. 1, Box 212, West Union, WV 26456
5) (a) Coal Operator: Name, Address
(b) Coal Owner(s) with Declaration Name None, Address
(c) Coal Lessee with Declaration Name, Address
6) Inspector Mike Underwood, Address, Telephone (304)-288-1604 (cellular)

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
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)
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 Producing Company
By: Rodney J. Biggs
Its: Designated Agent - Production Manager, Appalachian Region
Address Rt. 2, Box 698, Crosswind Corp. Park, Bridgeport, WV 26330
Telephone (304) 623-8840

Subscribed and sworn before me this 18th day of August, 1995

Nancy D. Colton
My commission expires 09-26-2003

