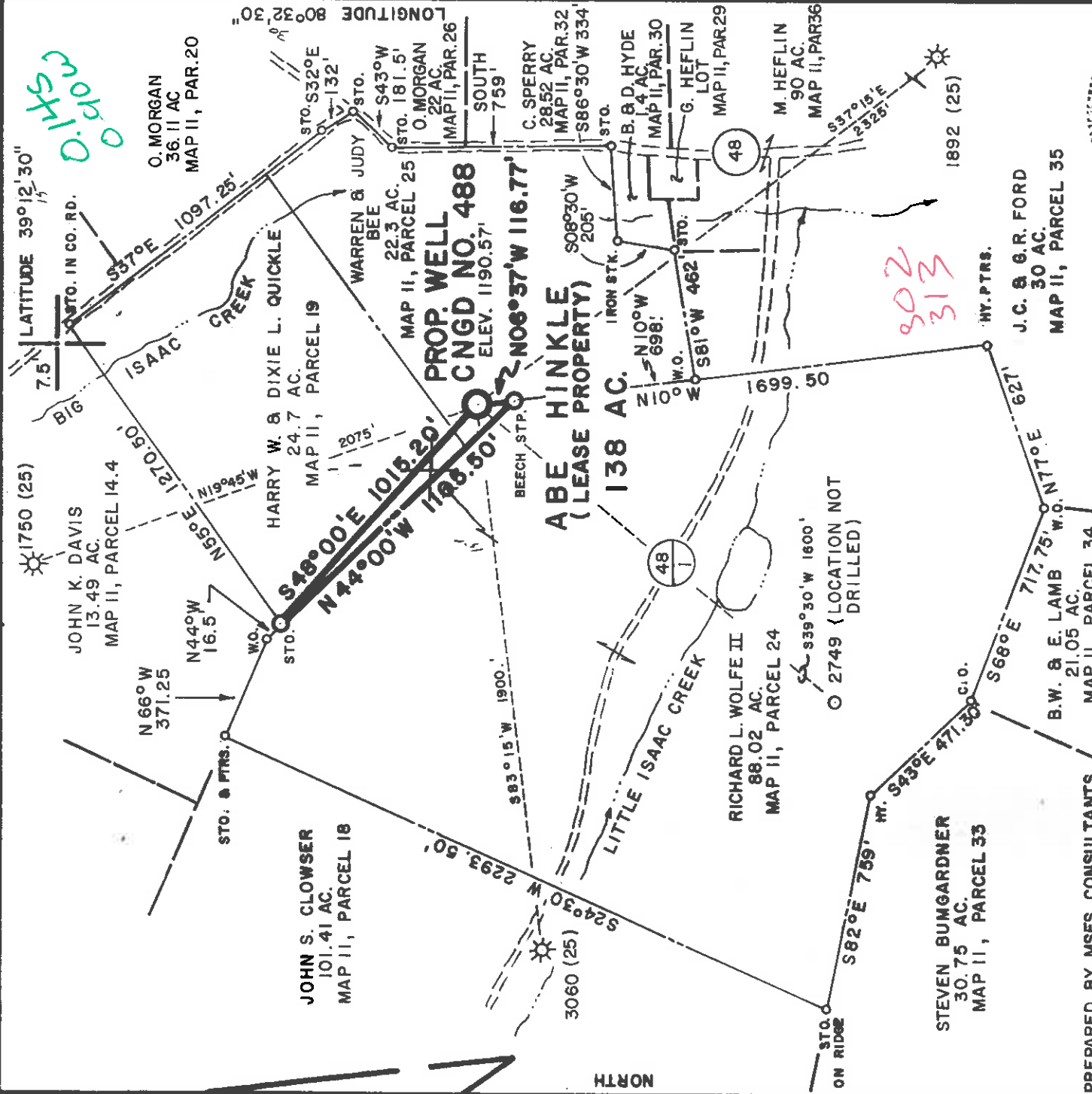


D000 3297

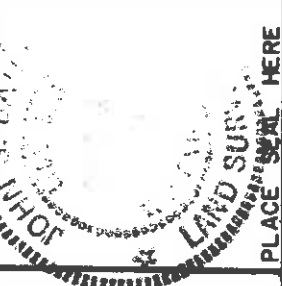


4,790

790

LATITUDE 39°12'30"

LONGITUDE 80°42'30"



DATE JANUARY 5, 19 84  
 OPERATOR'S WELL NO. CNGD NO. 488  
 API WELL NO. 47-017-3297-F  
 STATE WV COUNTY PUTNAM PERMIT 47-017-3297-F

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 D. Bailey  
 R. P. E. \_\_\_\_\_ L. L. S. 652

PREPARED BY MSES CONSULTANTS. FILE NO. MSES-84-281  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1" IN 200'  
 PROVEN SOURCE OF ELEVATION INT. RT. 48 & RT. 48/1  
 ELEV. 958'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV - 6  
 (8-76)

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 ( IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1190.57' WATER SHED BIG ISAAC CREEK  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7.5' (1976)  
 SURFACE OWNER WARREN & JUDY BEE ACREAGE 22.3 AC.  
 OIL & GAS ROYALTY OWNER ABE HINKLE LEASE NO. 44519 LEASE ACREAGE 138 AC.

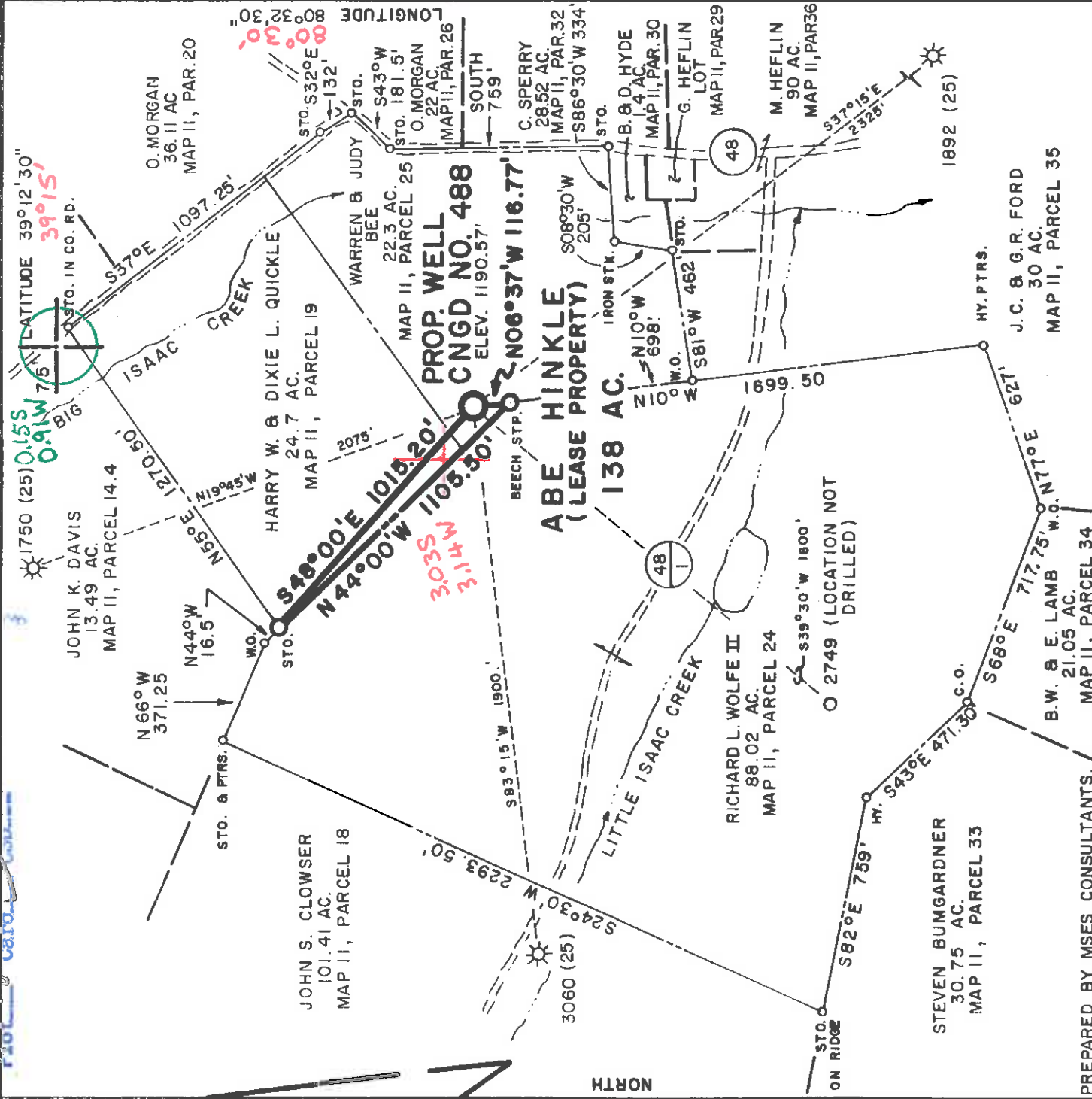
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER  PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG  ESTIMATED DEPTH 5550'  
 TARGET FORMATION ALEXANDER DESIGNATED AGENT \_\_\_\_\_ ADDRESS \_\_\_\_\_

CNG Producing Company  
 Rt. 2, Box 698, Crosswind Corp. Park  
 Bridgeport, W.Va. 26330  
 ATTN: PRINTING CO. meathouse For Charleston, WV (412) 304-623-8840  
 Rodney J. Biggs, Agent  
 Same Address  
 PH: 304-623-8840

4,790

790



LATITUDE  $39^{\circ}12'30''$   
 LONGITUDE  $80^{\circ}32'30''$   
 $39^{\circ}15'$   
 $0.91W$   
 $0.55$   
 BIG

PROP. WELL  
 CNGD NO. 488  
 ELEV. 1190.57'

ABE HINKLE  
 (LEASE PROPERTY)  
 138 AC.  
 $N44^{\circ}00'W$  1108.30'  
 $S48^{\circ}00'E$  1016.20'  
 $3.035$   
 $3.14W$

FILE NO. MSES-84-281  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION INT. RT. 48 & RT. 48/1 ELEV. 955'

PREPARED BY MSES CONSULTANTS.

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

PLACE SEAL HERE

DATE JANUARY 5 19 84  
 OPERATOR'S WELL NO. CNGD NO. 488  
 API WELL NO. **47-017-3297**  
 STATE COUNTY PERMIT



Department of Mines  
 Oil & Gas Division

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  SHALLOW   
 ( IF "GAS", PRODUCTION  STORAGE  DEEP   
 LOCATION: ELEVATION 1190.57' WATER SHED BIG ISAAC CREEK  
 DISTRICT GREENBRIER 4 COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7.5' (1976) @ Verde 151 NB 3  
 SURFACE OWNER WARREN & JUDY BEE <sup>13</sup> ACRES 22.3 AC.  
 OIL & GAS ROYALTY OWNER ABE HINKLE LEASE ACREAGE 138 AC. LEASE NO. 44519

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 ALEXANDER 142 ESTIMATED DEPTH 5550'  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS ONE PARK RIDGE CENTER ADDRESS CROSSWIND CORPORATE PARK  
 PITTSBURGH, PA 15224 ROUTE 2, BOX 698  
 BRIDGEPORT, WV 26330

ALLEN BLUEPRINT Co. *Edg* E. J. I. Meathouse Fort. Bristol (146) *Edm 3/4/81*  
 6-6  
 APR 2 1984  
 Charleston, WV



JAN 17 1996

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

Permitting  
Farm Name: Oil & Gas, WARREN & JUDY Operator Well No.: CNGP 488W  
Well Operator's Report of Well Work

LOCATION: Elevation: 1,190.57 Quadrangle: BIG ISAAC  
District: GREENBRIER County: DODDRIDGE  
Latitude: 790 Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude 4790 Feet West of 80 Deg. 32 Min. 30 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD  
Permit Issued: 10/06/95  
Well work Commenced: 11/3/95  
Well work Completed: 11/27/95  
Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary Cable \_\_\_\_\_  
Total Depth (feet) 5500'  
Fresh water depths (ft) \_\_\_\_\_

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

OPEN FLOW DATA

Producing formation 5th Sand  
Gas: Initial open flow N/A MCF/d Oil: N/A MCF/d Initial open flow N/A Bbl/ Hour  
Final open flow 267 MCF/d Final open flow N/A Bbl/ Hour  
Time of open flow between initial and final tests 4 Hour  
Static rock Pressure 200 psig (surface pressure) after 12 Hour  
\* Commingle with existing production  
Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/ Hour  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/ Hour  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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

MA-12-18  
March 1996

CNGP 488M

11/3/95 - Allegheny Perforated:

5th Sand, 2988-2998, 30 holes

11/6/95 - NOWSCO Fraced:

Plug	3060'
Total Fluid	465 bbls
Total Sand	5,000 80/100, 20,000 20/40
Avg. Rate	29
Avg. Press.	1750

11/27/95 - F.O.F. = 267 MCFD

11/27/95 - T.B.I.L.



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JUN 13 1984

IV-35 (REV 8-81)

State of West Virginia Department of Mines Oil and Gas Division

Date May 31, 1984 Operator's Well No. CNGD 488 Farm Hinkle API No. 47 - 017 - 3297

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: 1190.57 Watershed Big Isaac Creek District: Greenbrier County Doddridge Quadrangle Big Isaac 7.5' (1976)

COMPANY CNG DEVELOPMENT COMPANY ADDRESS P.O. BOX 15746, PITTSBURGH, PA 15275 DESIGNATED AGENT GARY A. NICHOLAS ADDRESS RT. 2, BOX 698, BRIDGEPORT, WV 26330 SURFACE OWNER WARREN & JUDY BEE ADDRESS RT 3 BOX 26, SALEM, WV 26426 MINERAL RIGHTS OWNER ABE HINKLE heirs c/o Joan B. Cecil, Agent ADDRESS 17 Meadowcrest Lane, Bridgeport, WV 26330 OIL AND GAS INSPECTOR FOR THIS WORK H.M. Underwood ADDRESS Rt 2 Box 114, Salem, WV 26426 PERMIT ISSUED 03/26/84 DRILLING COMMENCED 05/04/84 DRILLING COMPLETED 05/08/84

Table with 4 columns: Casing Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft.

GEOLOGICAL TARGET FORMATION Alexander Depth 5550 feet 5550 feet of completed well 5565 feet Rotary X / Cable Tools Water strata depth: Fresh 285' feet; Salt 95' 650' feet; Coal seam depths: 93 - 95 710 - 714 Is coal being mined in the area? No

OPEN FLOW DATA Producing formation Alexander Pay zone depth 4872 - 5012 Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 1202 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests hours Static rock pressure 1625 psig (surface measurement) after 24 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 JUN 25 1984 Static rock pressure psig (surface measurement) after hours shut in (Continue on reverse side)

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

Allegheny Perforated; 5198 - 5507, <sup>→ ALEX.</sup> 12 holes (.39")  
 Halliburton Water Fractured with 750 gal MOD acid, 52,500# 20/40 sand, and Enwar  
 Allegheny Perforated; 4872 - 5012, 10 holes (.39")  
 Halliburton water fractured with 500 gal MOD acid, 50,000# 20/40 sand and Enwar  
 → <sup>Ben soft</sup>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
K.B. to G.L.			0	10	95' - 1/2" stream water
R.R., Sd & Sh			10	93	285' - 1" stream water
Coal			93	95	650' - 1 1/2" stream water
R.R., Sd & Sh			95	710	Coal - 93' - 95'
Coal			710	714	710' - 714'
R.R., Sd & Sh			714	2035	
B. Lime / B. Injun			2035	2240	
Sd & Sh			2240	4960	
Benson			4960	4980	
Sd & Sh			4980	5565	T.D. Alex @ T.D.
<u>LOG TOPS</u>					
Big Injun			2122	2224	
Weir			2266	2372	
Gantz			2465	2499	
50'			2558	2605	
30'			2665	2697	
Gordon Stray/Gordon			2712	2866	
4th			2875	2923	
5th			2954	3006	
Bayard			3031	3053	
Warren			3285	3376	
Upper Speechley			3561	3617	
Speechley			3673	3750	
Balltown			3815	3974	
Bradford			4392	4474	
Benson			4975	4998	
Alexander			5270	5411	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY  
 Well Operator \_\_\_\_\_  
 By: \_\_\_\_\_  
 Date: May 31, 1984

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  
 ... encountered in the drilling of a well."



1) Date: February 6, 1984

2) Operator's Well No. 488

3) API Well No. 47-017-3297  
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  B (If "Gas", Production  Undergraduate storage  Deep  Shallow   
Elevation: 1190.57 Watershed: Big Isaac Creek  
District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7.5' (1976)  
6) WELL OPERATOR CNG Development Company 7) DESIGNATED AGENT Mr. Gary Nicholas  
Address One Park Ridge Center, P.O. Box 15746 Address Crosswind Corporate Park  
Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330  
8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Mr. H. M. Underwood 9) DRILLING CONTRACTOR:  
Address Rt. 2, Box 114 Name Sam Jack Drilling Company  
Salem, WV 26426 Address P. O. Box 48  
Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill  deeper  Redrill  Stimulate   
Plug off old formation  Perforate new formation   
Other physical change in well (specify) Alexander

11) GEOLOGICAL TARGET FORMATION, 5550 feet  
12) Estimated depth of completed well, 5550 feet  
13) Approximate strata depths: Fresh, 286, 661 feet; salt, N/A feet.  
14) Approximate coal seam depths: 715-720 feet. Is coal being mined in the area? Yes  No

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	Left in well
Conductor									
Fresh water	<u>11-3/4</u>	<u>H-40</u>	<u>42</u>	<input checked="" type="checkbox"/>		<u>30</u>	<u>30</u>	<u>To surface</u>	<u>By Rule 15.05</u>
Coal									
Intermediate	<u>8-5/8</u>	<u>X-42</u>	<u>23</u>	<input checked="" type="checkbox"/>		<u>1150</u>	<u>1150</u>	<u>To surface</u>	<u>By Rule 15.05</u>
Production	<u>4-1/2</u>	<u>J-55</u>	<u>10.5</u>	<input checked="" type="checkbox"/>		<u>5550</u>	<u>5550</u>	<u>200-400</u>	<u>Depth set</u>
Tubing	<u>1-1/2</u>	<u>CN-55</u>	<u>2.75</u>	<input checked="" type="checkbox"/>				<u>OR AS</u>	<u>SEE BY RULE 15.0</u>
Liners									

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-017-3297

March 26, 1984  
Date

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 26, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>BLANKET</u>	<u>SO</u>	<u>MA</u>	<u>MA</u>	<u>04519</u>

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

Administrator, Office of Oil and Gas

File

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





017-03297 F

RECEIVED  
WV Division of  
Environmental Protection

FORM WW-2B SEP 29 1995

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

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
Permitting  
WELL WORK PERMIT APPLICATION  
Office of Oil & Gas  
Well Operator: CNG Producing Company 146 10900 (4) 252 Expires 10/06/95

21203

Operator's Well Number: CNGP 488M 3) Elevation: 1190.57'

Well type: (a) Oil \_\_\_ / or Gas X /

(b) If Gas: Production X / Underground Storage \_\_\_  
Deep \_\_\_ / Shallow \_\_\_  
422

- 5) Proposed Target Formation(s): 4th Sand, 5th Sand
- 6) Proposed Total Depth: 2902-2908, 2994-3004 feet
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: \_\_\_\_\_
- 9) Approximate coal seam depths: \_\_\_\_\_
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No \_\_\_

11) Proposed Well Work: Perforate and Frac proposed intervals. Clean well Up. Commingle with existing production.

12) \_\_\_\_\_

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water						
Coal						
Intermediate	8 5/8"			1430'	1430'	To Surface
Production	4 1/2"			5579'	5579'	585 sks.
Tubing						
Liners						

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

1611 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond  Agent

**RECEIVED**  
WV Division of  
Environmental Protection

SEP 29 1995

1) Date: 9/25/95  
2) Operator's well number  
CNEP 488W  
3) API Well No: 47 - 017 - 3297W  
State - County - Permit

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 Warren & Judy Bee  
Address Rt. 3, Box 26  
Salem, WV 26426

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(b) Coal Owner(s) with Declaration  
Name Abraham Hinkle Heirs  
Address c/o Joan B. Cecil, Agent  
17 Meadowcrest Lane, Bridgeport, WV 26330

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Mike Underwood  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

Telephone (304) - 782-1043  
Cellular Phone (304) - 288-4604

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 CNE 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 25th day of September, 1995

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



OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
NANCY D. COLTON  
RT. 2, BOX 691D  
BRIDGEPORT, WV 26301  
My Commission Expires 09-26-2003