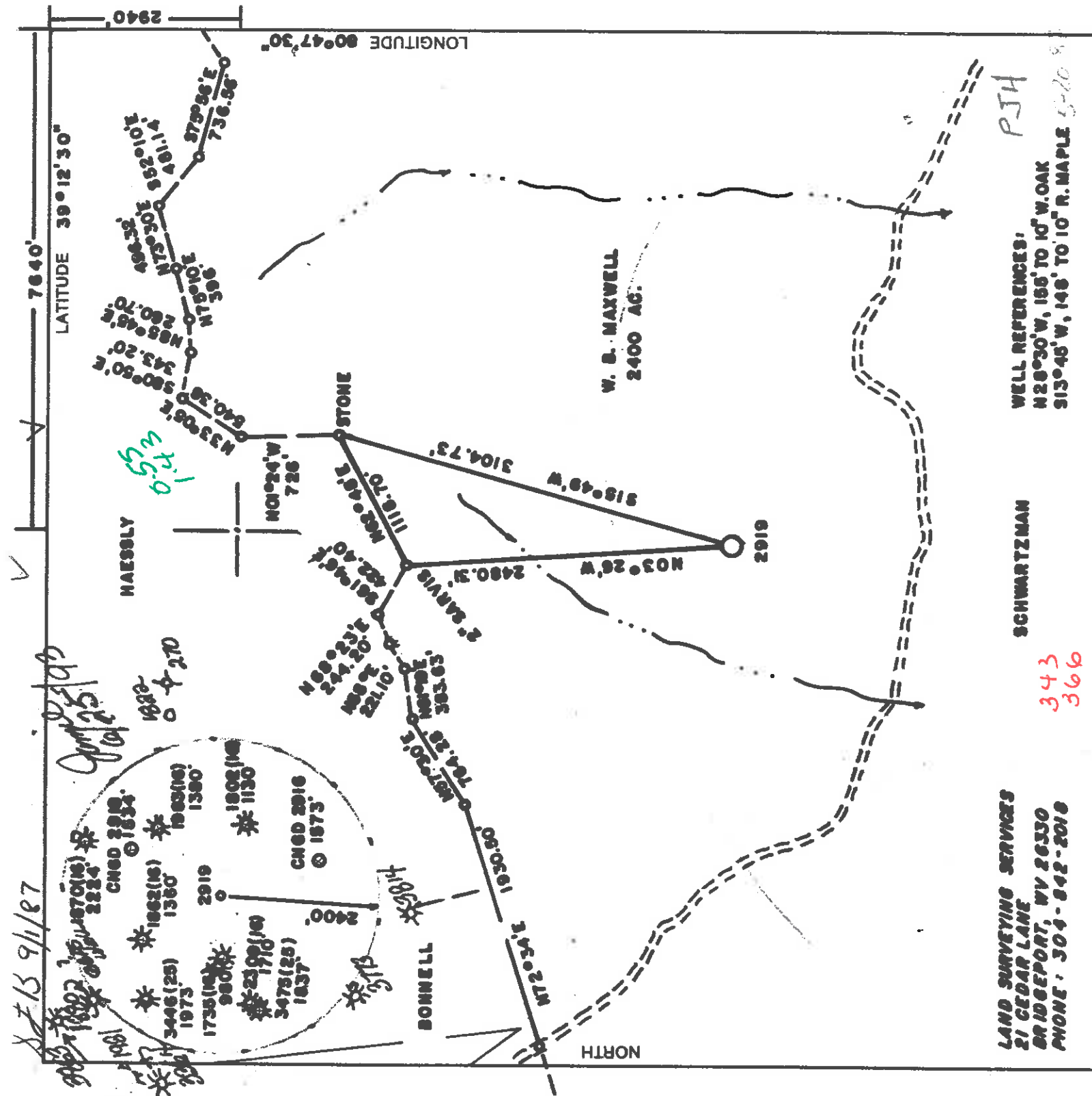


4/13 9/1/87



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

SCHWARTZMAN

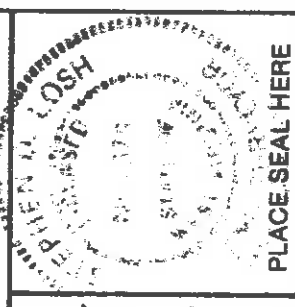
WELL REFERENCES:
N28°30'W, 155' TO 10' W. OAK
S13°45'W, 146' TO 10' R. MAPLE

PJH

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION TOP OF KNOS 3060' M. OF LOCATION ELEV. 1384'

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. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE APRIL 24 19 87
OPERATOR'S WELL NO. 468-2919-W
API WELL NO. 47-017-3589-7

WELL TYPE: OIL _____ GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 1206' WATERSHED SOUTH FORK OF HUGHES RIVER
DISTRICT SOUTHWEST COUNTY DODDRIIDGE
QUADRANGLE OXFORD 15 m. COUNTY DODDRIIDGE NE
SURFACE OWNER BEATRICE H. SCHWARTZMAN
OIL & GAS ROYALTY OWNER W. B. MAXWELL LEASE NO. COTC 41998

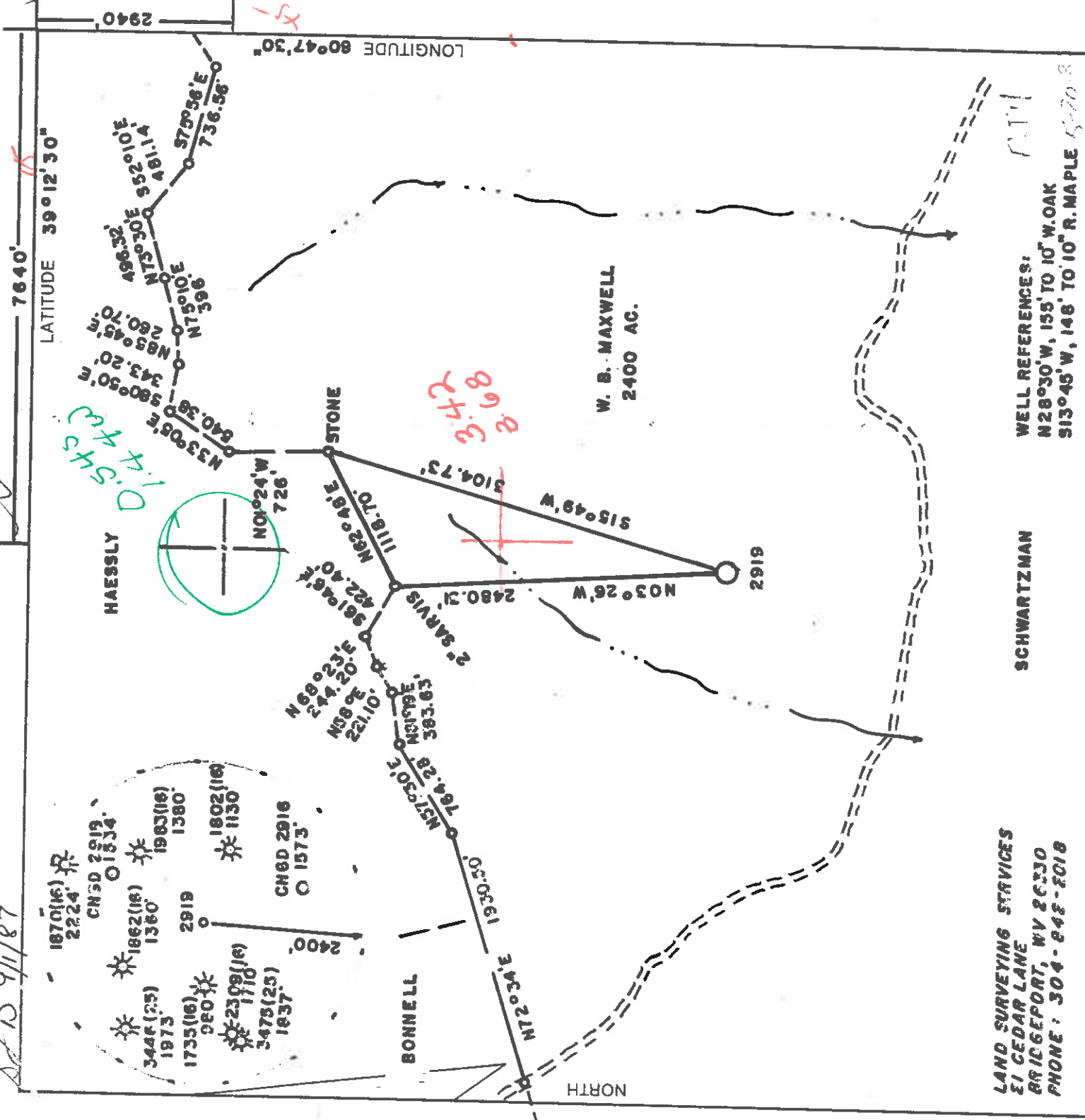
PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5365'
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT _____
ADDRESS _____ AT. 2, BOX 698

BRIDGEPORT, WV 26330

DWUC 616 Straight East - Bunting Creek (133)

0000 COUNTY NAME 3589 PERMIT

Sept 13 9/1/87



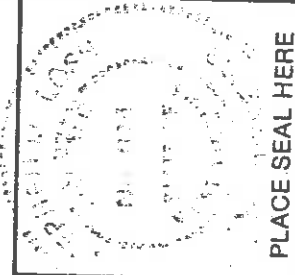
LAND SURVEYING SERVICES
 51 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-848-8018

WELL REFERENCES:
 N28°30'W, 155' TO 10\" W.OAK
 S13°45'W, 148' TO 10\" R. MAPLE

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION TOPOF KNOR 3050' N.
 OF LOCATION ELEV. - 1384

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) *Stephen D. Losh*
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

PLACE SEAL HERE

DATE APRIL 24, 19 87
 OPERATOR'S WELL NO. 2919
 API WELL NO. _____

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

LOCATION: ELEVATION 1206' WATER SHED SOUTH FORK OF HUSHES RIVER
 DISTRICT SOUTHWEST COUNTY DODD RIDGE

QUADRANGLE OXFORD 7.5 Min. 526
 SURFACE OWNER BEATRICE H. SCHWARTZMAN
 OIL & GAS ROYALTY OWNER W.B. MAXWELL

LEASE NO. COTC 41998
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

LEASE ACREAGE 2400
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5365'

WELL OPERATOR ONE DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER RT. 2, BOX 698
 BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

SEP 21 1987

6-6 Straight Fork-Bluestone Creek (133)

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

Well Operator's Report of Well Work

Farm name: SCHWARTZMAN, BEATRICE H. Operator Well No.: CNGP 2919W

LOCATION: Elevation: 1,206.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 2940 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 7640 Feet West of 80 Deg. 47 Min. 30 Sec.

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

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD
Permit Issued: 06/28/93
Well work Commenced: 08/02/93
Well work Completed: 10/01/93
Verbal Plugging
Permission granted on: _____ Rig
Rotary Cable
Total Depth (feet) _____
Fresh water depths (ft) _____

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

Casing & Tubing Size	Used in	Left	Cement Fill Up
	Drilling	in Well	Cu. Ft.
1 1/2	5161	5161	

OPEN FLOW DATA

Producing formation Benson 4814-19
 Gas: Initial open flow _____ MCF/d Oil: _____ MCF/d Initial open flow _____ Bbl/ Hour
 Final open flow 246 MCF/d Final open flow NA Bbl/ Hour
 Time of open flow between initial and final tests _____ Hour
 Static rock Pressure 650 psig (surface pressure) after 48 Hour
 *Commingle with existing production
 Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: _____ MCF/d 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 WEL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Reviewed TMG
Recorded _____

For: RJ Rodney J. Biggs, Manager
CNG PRODUCING COMPANY

By: Rod Biggs
Date: October 4, 1993

NOV 17 1993

Perforated Benson 4814-19, 18 holes, .39" HSC

Frac with 70Q Foam - Break 2580, Ave HHP 1 pump, Ave Rate 24, Ave. Pres. 3000,
Max. Tr. Pres. 3300, Total Acid 500 gal, Total Sand 50,000#, Max. Conc. 4#/gal,
Total Fl. 225, SL Fluid 138 BBL Foam, ISIP 1050/2400 (Foam)*, 5 min 2200 (Foam)
(*Flushed with 17 bbl Foam and 20 bbl Water)

Perforated Injun 2002-24, 23 holes, .39" HSC

Frac - Break 2340, Ave HHP 1300, Ave Rate 25.5, Ave Pres. 2050, Max Tr. Pres. 2250,
Total Acid 500 gal, Total Sand 35,000#, Max. Conc. 4#/gal, Total Fl. 388,
SL Fluid 291, ISIP 1510, 5-min 1170, Total N2 @ 150 SCF/Bbl

TB 5393

DF 424

DFT 429

71521

RECEIVED

IV-35
(Rev 8-81)

FEB 01 1988
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia
Department of Mines
Oil and Gas Division

Date January 21, 1988
Operator's
Well No. 2919
Farm W. B. Maxwell
API No. 47 - 017 - 3589

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: 1206 Watershed South Fork of Hughes River
District: Southwest County Doddridge Quadrangle Oxford

COMPANY CNG Development Company
ADDRESS P.O. Box 15746
Pittsburgh, PA 15244
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698
Bridgport, WV 26330
SURFACE OWNER Beatrice H. Schwartzman
ADDRESS 2520-30th St., N.W.
Washington, DC 20008
MINERAL RIGHTS OWNER W. B. Maxwell
Union Nat'l Bank
ADDRESS A/I/F Maxwell Hrs. P.O. Box 1450,
Clarksburg, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK

Mike Underwood ADDRESS Rt. 2, Box 114
Salém, WV 26426
PERMIT ISSUED Sept. 14, 1987
DRILLING COMMENCED Nov. 16, 1987
DRILLING COMPLETED Nov. 20, 1987

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1396	1396	To Surf.
7			
5 1/2			
4 1/2	5380	5380	530 sks
3			
2 1/2	5161	5161	----
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale

Depth of completed well 5393 feet Rotary x / Cable Tools 5365 feet
Water strata depth: Fresh 45 feet; Salt 130 feet;
Coal seam depths: 45 - 48 feet
Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5154-5195 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 919 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 4 hours
Static rock pressure 150 psig (surface measurement) after 1 hours shut in
(If applicable due to multiple completion--)

Second producing formation

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 Mcf/d Oil: Final open flow 0 Bbl/d
Time of open flow between initial and final tests 0 hours
Static rock pressure 0 psig (surface measurement) after 0 hours shut in

FEB 8 1988

(Continue on reverse side)

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

Perforated Alexander 5154-5195, 23 holes, .39 HSC

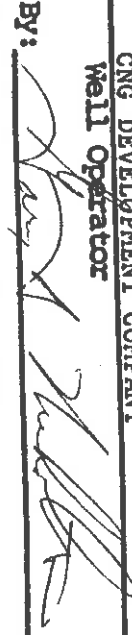
Foam Frac - Ave HHP 2 pumps, Ave Rate 20, Ave Pr 1900, Max Tr Pr 2770, Total Sand 120,000#, Max Conc. 6, Total Acid 500' gal, Total Fluid 570 bbl, SL Fluid 359 bbl, ISIP 1525, 5 min 1275, Total Nit. 790,000 SCF.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresi and salt water, coal, oil and ga:
KB - GL			0	10	Damp @ 45' 1/2" stream @ 130'
Soil, Sand, Shale & RR			10	45	
Coal			45	48	Coal 45 - 48
Sand, Shale & RR			48	1863	
Lime & Injun			1863	2008	
Sand & Shale			2008	2445	
Berea			2445	2450	
Sand & Shale			2450	3263	
Warren			3263	3322	
Sand & Shale			3322	3632	
Speechley			3632	3740	
Sand & Shale			3740	3975	
Balltown			3975	4013	
Sand & Shale			4013	4211	
Bradford			4211	4250	
Sand & Shale			4250	5037	
Leopold			5037	5089	
Sand & Shale			5089	5133	
Alexander			5133	5393	
✓ LOG TOPS					
Big Lime			1900	1970	
Big Injun			1970	2045	
Weir			2202	2324	
Berea			2400	2406	
Warren			3250	3324	
U Speechley			3340	3436	
Speechley			3726	3772	
Balltown			4226	4270	
Bradford			4454	4487	
Riley			4805	4830	
Benson			4886	4934	
Alexander			5134	5230	

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FEB 01 1988
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator _____
By: 
Date: January 21, 1988

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

FORM 785
(Obverse)
7/85



1) Date: Aug 21, 19 87
2) Operator's Well No. CNGD 2919
3) API Well No. 47 017 County 3589 Permit

AUG 28 1987

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

4) WELL TYPE: A Oil Gas B (If "Gas", Production / Shallow /
Underground storage _____
Watershed: South Fork of Hughes River
5) LOCATION: Elevation: 1206 District: Southwest County: Doddridge Quadrangle: Oxford 525
6) WELL OPERATOR: CNG Development Co. CODE: 10110 7) DESIGNATED AGENT GARY NICHOLAS
Address: c/o Cheryl S. Hartle 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: Mike Underwood 9) DRILLING CONTRACTOR: Sam Jack Drilling Co.
Name: Mike Underwood Name: Sam Jack Drilling Co.
Address: Route 2, Box 114 Address: P.O. Box 48
Salem, WV 26426 Buckhannon, WV 26201

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

11) GEOLOGICAL TARGET FORMATION, Alexander
12) Estimated depth of completed well, 5365 feet
13) Approximate trata depths: Fresh, 350 feet; salt, _____ feet.
14) Approximate coal seam depths: _____ 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		
Conductor	11-3/4	H-40	42	X		40	
Fresh water							To surface
Coal							By rule <u>38 CSR-18-11.3</u>
Intermediate	8-5/8	X-42	23	X		1400	By rule <u>38 CSR-18-11.3</u>
Production	4-1/2	J-55	10.5	X		5365	Depths set <u>38 CSR-18-11.1</u>
Tubing	1-1/2	CN-55	2.75	X		200 - 400	By rule <u>38 CSR-18-11.1</u>
Liners							Perforations: _____
							Top _____
							Bottom _____

OFFICE USE ONLY
DRILLING PERMIT
Permit number 47-017-3589 Date September 14 19 87

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 September 14, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: Agent: [Signature] Casing: [Signature] Fee: 2000 Other: [Signature]
01005

NOTE: Keep one copy of this permit posted at the drilling location. Director, Division of Oil and Gas File

27421

RECEIVED
WV Division of
Environmental Protection

FORM WW-2B

JUN 10 83

Permitting
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

017-3589-F
Issued 6/28/93
Page 1 OF 2
Expired 6/28/95

146
CNG Producing Company / 0110
D 525

1) Well Operator: CNG Producing Company / 0110
2) Operator's Well Number: CNGP 2919W
3) Elevation: 1206'

Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow

Proposed Target Formation(s): Benson / Big Injun

Proposed Total Depth: 4819 / 2016 feet

Approximate fresh water strata depths: NA.

Approximate salt water depths: _____

Approximate coal seam depths: _____

Does land contain coal seams tributary to active mine? Yes No

11) Proposed Well Work: Lay down Tubing. Set Frac Plug at 4830'. Perf and Frac Benson. Set Bridge Plug below Big Injun. Squeeze cement to cover interval. Perf and Frac Big Injun. Clean well up. Drill out plugs. Run Tubing. Commingle production.
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"			1396	1396	To Surface
Production	4 1/2"			5380	5380	530 sks
Tubing	2 1/2"			5161	5161	---
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

11000
Fee(s) paid: _____
Plat _____
For Division of Oil and Gas Use Only
Well Work Permit _____ Reclamation Fund _____ WPCP
Bond _____
Agent _____

JUN 1 9 33

1) Date: 5-11-93
2) Operator's well number
CNGP 2919W
3) API Well No: 47 - 017 - 3589-FRAC
State - County - Permit

Office of Oil & Gas
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

Permitting?
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Beatrice H. Schwartzman
Address 2520-30th St., N.W.
Washington, DC 20008
- (b) Name _____
Address _____
- (c) Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name Beatrice H. Schwartzman
Address 2520-30th St., N.W.
Washington, DC 20008
- Name Union National Bank of WV
Address A/I/E W. B. Maxwell Heirs
P. O. Box 1450, Clarksburg, WV 26301
- (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304) 782-1043

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. Bliga
Its: Designated Agent - District Manager, Production
Address Rt. 2, Box 698, Crosswind Cdrp. Park
Bridgmont, WV 26301
Telephone (304) 623-8840

Subscribed and sworn before me this 11th day of May, 1993

Nancy D. Colton Notary Public
My commission expires September 26, 1993