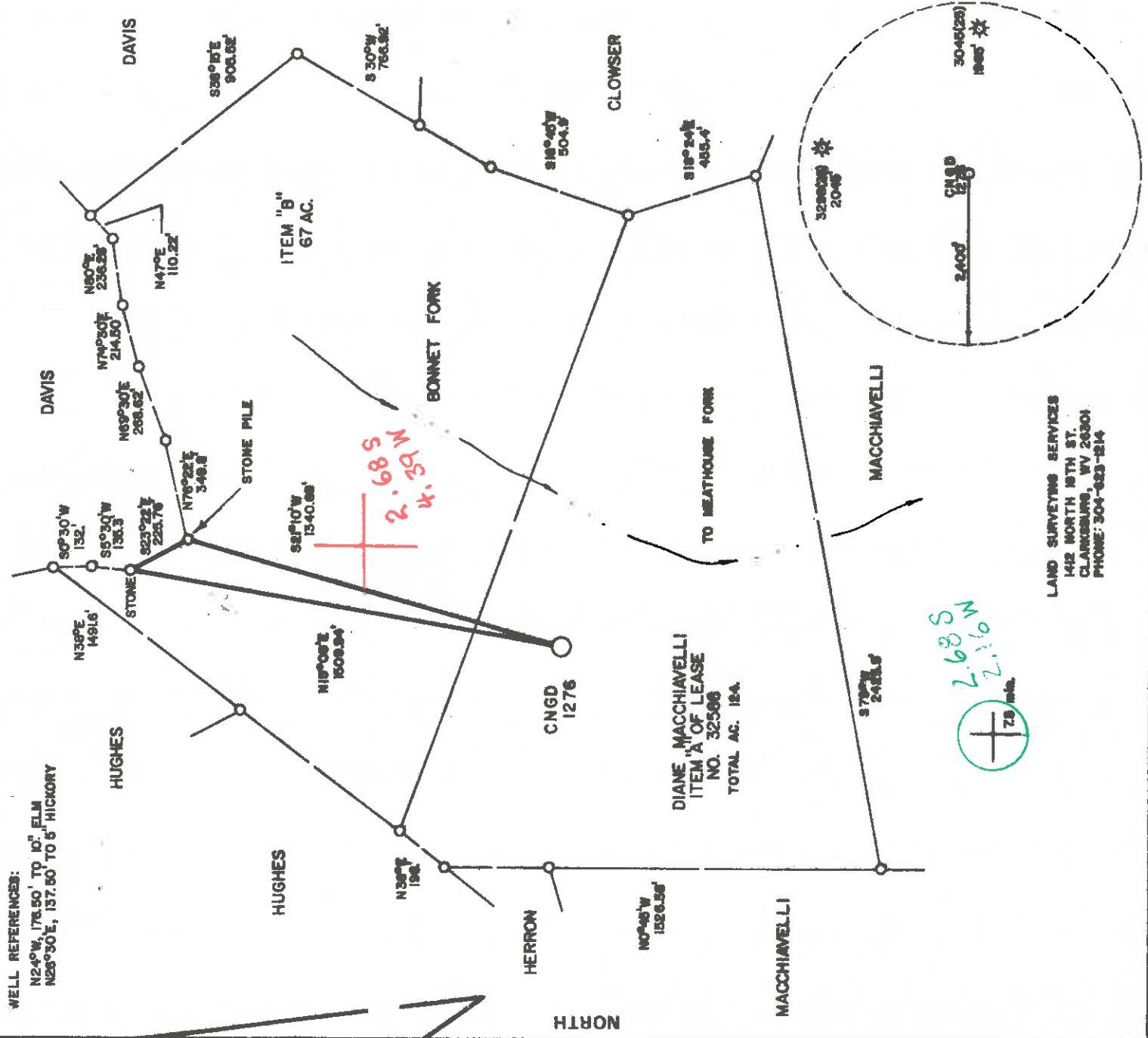


CODE 1115184

LATITUDE 39° 15' 00"

LONGITUDE 80° 32' 30"

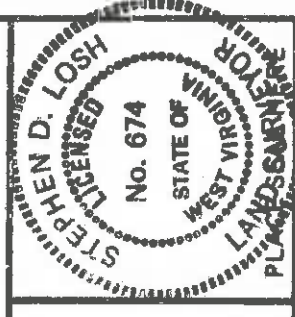
WELL REFERENCES:
N24°W, 176.50' TO 10' ELM
N26°30'E, 137.50' TO 5' HICKORY



LAND SURVEYING SERVICES
1422 NORTH 18TH ST.
CLARKSBURG, WV 26301
PHONE: 304-823-814

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1/4 IN. 200'
PROVEN SOURCE OF ELEVATION TOP OF KNOB 1361'
NORTH OF LOCATION ELEV 1482'

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) *Stephen D. Losh*
R.P.E. L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE SEPTEMBER 7, 19 84
OPERATOR'S WELL NO. CNGD 1276
API WELL NO. _____

47 - 017 - 3380
STATE COUNTY PERMIT

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION WATER SHED BONNET FORK OF MEATHOUSE FORK

DISTRICT GREENER COUNTY DOORRIDGE

QUADRANGLE 252 R4 ISMAC 75 VADIS 15 123 NE3

SURFACE OWNER DIANE MACCHIAVELLI ACREAGE 124

OIL & GAS ROYALTY OWNER Consol. Gas Transmission Corp. et al. LEASE ACREAGE 124

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 ESTIMATED DEPTH 5550'

WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS

ADDRESS PARK RIDGE CENTER BRISTOL (14G)

BRIDGEPORT, WV 26330

May 20 1984



IV-35
(Rev 8-81)

Date June 27, 1985
 Operator's Well No. CNGD WN 1276
 Farm Slusser
 API No. 47 - 017 - 3380

State of West Virginia
 Department of Mines
 Oil and Gas Division

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: 1182 Watershed Bonnet Fork of Meathouse Fork
 District: Greenbrier County Doddridge Quadrangle Big Isaac

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 Diane Macchiavelli
 ADDRESS 1445 Rhode Island Ave., NW
Washington, DC 20005
 MINERAL RIGHTS OWNER Consol. Gas Trans. Corp. et al
 ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____
 Mike Underwood ADDRESS Rt 2 Box 114
Salem, WV 26426
 PERMIT ISSUED Nov. 16, 1984
 DRILLING COMMENCED June 4, 1985
 DRILLING COMPLETED June 12, 1985

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.			
1 3/4"	159	159	To Surf.
9 5/8			
8 5/8	1645	1645	To Surf.
7			
5 1/2			
4 1/2	5489	5489	400 50/50
3			
2 1-1/2	5298	5298	-----
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5550 feet
 Depth of completed well 5556 feet Rotary X / Cable Tools _____
 Water strata depth: Fresh 80 feet; Salt _____ feet
 Coal seam depths: 175 - 178
740 - 742 Is coal being mined in the area? No

OPEN FLOW DATA
 Producing formation Alexander Pay zone depth 5328 - 5332 feet
Benson Pay zone depth 4999 - 5004 feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 421 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 500 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

(Continue on reverse side)

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

Perfco Ran Corrtlog and Perf. Alexander 5328 - 5332 (10 holes) .39 HSC
 Halliburton Foam Frac (75Q) Alexander Break 3150. Avg T PSI 3400, Avg Rate 16 BPM,
 ISI 2800, Max Sand Conc. 3#/gal, used 40,000# 20/40 Sand & 539,000 SCFM₂
 500 gals 15% FE Acid
 Perfco Perf. Benson 4999 - 5004 (10 holes) .39 HSC
 Halliburton Foam Frac (75Q) Benson Break 1600, Avg T PSI 3400, Avg Rate 16 BPM,
 ISI 2300, Max Sand Conc. 3#/gal, used 60,000# 20/40 Sand, and 567,000 SCFM₂
 500 gals 15% FE Acid

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	3	Coal 175 - 178
Sand, Shale & RR			3	175	740 - 742
Coal			175	178	
Sand, Shale & RR			178	740	Water 1/2" stream @ 80'
Coal			740	742	
Sand, Shale & RR			742	2045	
L. Lime			2045	2065	
Shale			2065	2080	
B. Lime			2080	2180	
Injun			2180	2240	
Sand, Shale			2240	5550	
LOG TOPS ✓					
Little Lime			2045	2055	TD 5554
Big Lime			2090	2192	
Big Injun			2192	2232	
Weir			2260	2398	
30'			2700	2720	
Gordon			2815	2835	
Warren			3285	3500	
Speechley			3690	3720	
Balltown			3850	3880	
Bradford			4410	4510	
Riley			4790	4815	
Benson			4995	5010	
Alexander			5325	5375	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By: *[Signature]*

Date: June 27, 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
 strata, encountered in the drilling of a well."



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 Shallow
Elevation: 1182' Watershed: Bonnet Fork of Meathouse Fork
District: Greenbrier County: Doddridge Quadrangle: Big Isaac
- 5) LOCATION: Bonnet Fork of Meathouse Fork
- 6) WELL OPERATOR CNG Development Company
Address C/O Paul W. Garrett, P.O. Box 15746
Pittsburgh, PA 15244
7) DESIGNATED AGENT Mr. Gary Nicholas
Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Mike Underwood
Address Rt. 2, Box 114
Salem, WV 26426
9) DRILLING CONTRACTOR:
Name Sam Jack Drilling
Address P.O. Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill deeper Redrill Stimulate
Plug off old formation Perforate new formation
- 11) GEOLOGICAL TARGET FORMATION, Alexander
12) Estimated depth of completed well, 5550 feet
13) Approximate trata depths: Fresh, 62, 1517 feet; salt, _____ feet.
14) Approximate coal seam depths: 177-180, 767-769 Is coal being mined in the area? Yes _____

RECEIVED

OIL & GAS DIVISION
DEPT. OF MINES

OCT 17 1984

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							
Fresh water	11-3/4	H-40	42		X	40	To surface
Coal							By Rule 15.05
Intermediate	8-5/8	X-42	23		X	1625	To surface
Production	4-1/2	J-55	10.5		X	5550	By Rule 15.05
Tubing	1-1/2	CN-55	2.75		X	200-400 sks	Depths set
Liners							By Rule 15.01
							Perforations:
							Top
							Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3380 Date November 16, 1984

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 November 16, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>200</u>	<u>15</u>	<u>MA</u>	<u>ML</u>	<u>999</u>

Margaret J. Laane
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

