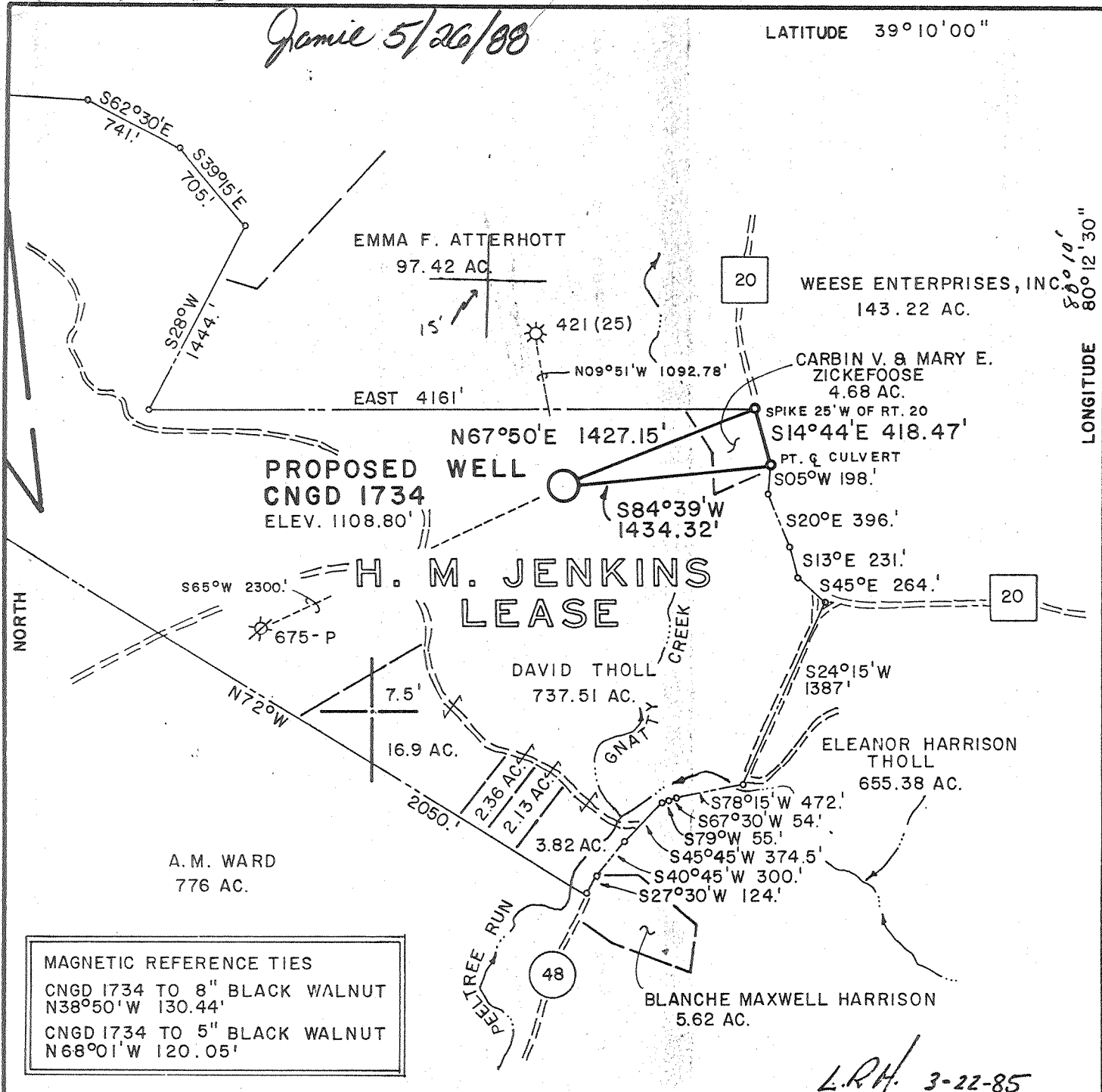


MU 4-24-85

10,090'

Jamie 5/26/88

LATITUDE 39°10'00"



LONGITUDE 80°12'30"

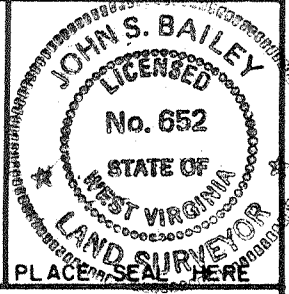
1008'6"

MAGNETIC REFERENCE TIES
 CNGD 1734 TO 8" BLACK WALNUT
 N38°50'W 130.44'
 CNGD 1734 TO 5" BLACK WALNUT
 N68°01'W 120.05'

L.R.H. 3-22-85

FILE NO. MSES 85-616
 DRAWN BY SARC
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION BM 1850' SE OF LOCA.
ELEV. 1080.'

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)



DATE JANUARY 30, 19 85
 OPERATOR'S WELL NO. CNGD 1734
 API WELL NO. 47-033-3194-P
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 1108.80' WATER SHED GNATTY CREEK
 DISTRICT ELK COUNTY HARRISON
 QUADRANGLE BROWNTON, WV 7.5'
 SURFACE OWNER DAVID THOLL ACREAGE 737.51
 OIL & GAS ROYALTY OWNER HARRIETT M. JARVIS HEIRS LEASE ACREAGE 1545 ±
 LEASE NO. 69284
 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 FIFTH SAND ESTIMATED DEPTH 3000'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

MAY 27 1988

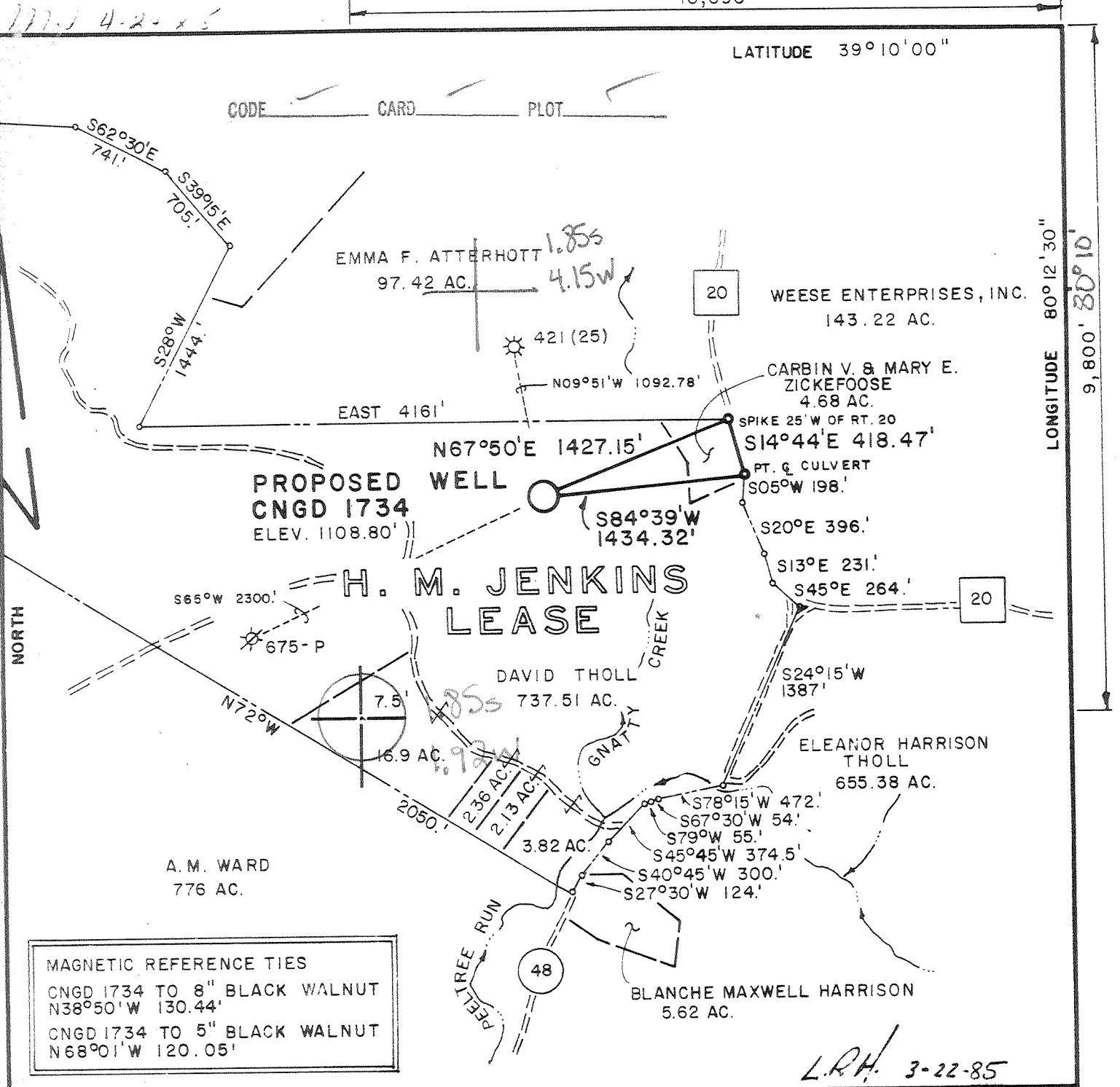
033-3194

10,096'

LATITUDE 39°10'00"

LONGITUDE 80°12'30"

CODE CARD PLOT



PROPOSED WELL
CNGD 1734
 ELEV. 1108.80'

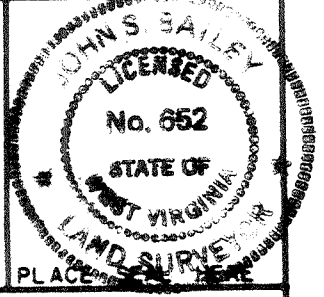
H. M. JENKINS LEASE

MAGNETIC REFERENCE TIES
 CNGD 1734 TO 8" BLACK WALNUT
 N38°50'W 130.44'
 CNGD 1734 TO 5" BLACK WALNUT
 N68°01'W 120.05'

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 (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 JANUARY 30 19 85
 OPERATOR'S WELL NO. CNGD 1734
 API WELL NO. 47-033-3194
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X)
 LOCATION: ELEVATION 1108.80' WATER SHED GNATTY CREEK
 DISTRICT ELK 5 COUNTY HARRISON
 QUADRANGLE BROWNTON, WV 7.5' 266 Phillip 104 WCY
 SURFACE OWNER DAVID THOLL ACREAGE 737.51
 OIL & GAS ROYALTY OWNER HARRIETT M. JARVIS HEIRS LEASE ACREAGE 1545 ±
 LEASE NO. 69284
 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 FIFTH SAND ESTIMATED DEPTH 3000'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

MAY 06 1985

033-3194

66 Elk Creek (Overfield) (155) Blaine, WV

RECEIVED

IV-35
(Rev 8-81)

JUL 10 1985
OIL & GAS DIV.
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date May 31, 1985
Operator's _____
Well No. CNGD WN 1734
Farm H M Jenkins
API No. 47 - 033 - 3194

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: 1108.8 Watershed Gnatty Creek
District: Elk County Harrison Quadrangle Brownton, WV

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 David Tholl
ADDRESS Rt 2 Box 209
Lost Creek, WV 26385
MINERAL RIGHTS OWNER Harriett M. Jarvis, hrs
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
Stephen Casey ADDRESS Rt. 2 Box 232-D
Jane Lew, WV 26378
PERMIT ISSUED 4-29-85
DRILLING COMMENCED 5-14-85
DRILLING COMPLETED 5-17-85
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
13-10"			
9 5/8			
8 5/8	1185	1185	To Surf.
7			
5 1/2			
4 1/2	2491	2491	250
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Fifth Sand Depth 3000 feet
Depth of completed well 2600 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 95 feet; Salt _____ feet
Coal seam depths: 225 - 228 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation 5th Sand Pay zone depth 2324 - 32
Lower 5th Sand 2363 - 74 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 103 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 50 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

JUL 22 1985

(Continue on reverse side)

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

Allegheny Nuclear ran CCl & Perf. 5th Sand 2324 - 32; 5 holes .39
Lower 5th Sand 2363 - 74, 7 holes .39
 Halliburton Water Frac 5th Sand & Lower 5th Sand - Gel 20# premixed, Break 2950,
 Break rate (bpm) 25, Avg psi 3250, Max psi 3600, Avg rate (bpm) 23, 25,000# 20/40,
 22,000# 10/20 Sand, SL Fluid (bbl) 532, Total Fluid (bbl) 687, ISIP 2040,
 4 min (psi) 1900, FDP-323 (parafin inhibitor) 180#

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Fill			0	5	Damp @ 15'
Clay			5	15	1-1/2" stream water @95'
DK Shale			15	18	
Sand & Shale			18	225	
Coal			225	228	
Sand, Shale & RR			228	1380	
Shale & Lime & RR			1380	1450	
Big Lime & Injun			1450	1598	
Sand & Shale			1598	2600	
					Bayard @ TD.
<u>LOG TOPS</u>					
B. Lime/B. Injun			1436	1612	
Berea/Gantz A			1774	1876	
50'			1884	1963	
30'			1988	2050	
Gordon St./Gordon			2066	2158	
4th/4th A			2180	2562	
5th			2320	2344	
Lower 5th			2362	2392	
Bayard			2400	2432	

(Attach separate sheets as necessary)

GNG DEVELOPMENT COMPANY

Well Operator

By:

Sary A. [Signature]

Date:

May 31, 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: April 1, 19 85
 2) Operator's Well No. 1734
 3) API Well No. 47 - 033-3194
 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: 1108.8 Watershed: Gnatty Creek
 District: Elk County: Harrison Quadrangle: Brown-ton, WV
- 6) WELL OPERATOR CNG Development Company 10110 7) DESIGNATED AGENT Gary Nicholas
 Address c/o Paul W. Garrett, 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 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name Sam Jack Drilling Co.
 Address Rt. 2, Box 232-D Address P.O. Box 48
Jane Lew, WV 26378 Buckhannon, WV 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, 5th Sand
 12) Estimated depth of completed well, 2580 feet
 13) Approximate trata depths: Fresh, 640, 1080 feet; salt, _____ feet.
 14) Approximate coal seam depths: 230 Is coal being mined in the area? Yes _____ X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	Kinds
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									
Fresh water	1-3/4	H-40	42	X		40	40	To Surface	By Rule 15.05
Coal									Sizes
Intermediate	8-5/8	X-42	23	x		1150	1150	To Surface	By Rule 15.05
Production	4-1/2	J-55	10.5	X		2580	2580	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 47-033-3194 Date April 29, 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 April 29, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>28</u>	<u>SW</u>	<u>MH</u>	<u>MH</u>	<u>7581</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

OIL & GAS DIVISION
 DEPT. OF MINES
 APR 10 1985
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: THOLL, DAVID Operator Well No.:1734
WATER SHED: Gnatty Creek
LOCATION: Elevation: 1108.80 Quadrangle: BROWNTON
District: ELK County: HARRISON
Latitude: 9800 Feet South of 39 Deg. 10 Min. 0 Sec.
Longitude 10090 Feet West of 80 Deg. 12 Min. 30 Sec.
Company: CNG Development Company Coal Operator: David M. Tholl
Rt. 2, Box 698 or Owner P. O. Box 757
Bridgeport, WV 26330 Buckhannon, WV 26201

Asent: Coal Operator
Inspector: Stephen Casey or Owner
Permit Issued: 05/27/88

RECEIVED
AUG 01 1988

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Harrison ss:

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Kenny Wright and Alfred Construction, Inc. being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by CNG Development Company, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 7th day of July, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
90 sks common cement	2443	1900	4 1/2" casing	1301'
Gel	1900	1190	8 5/8" csg.	1185
40 sks common cement	1190	1056		
Gel	1056	50		
20 sks common cement	50	0		

MAJ 8/8/88

Description of monument: 48" x 8" Cap - Vent Hole on Side. Plate Reads:
CNGD 1734 47-033-3194-P

and that the work of plugging and filling said well was completed on the 7th day of July, 1988.

And further deponents saith not.

W. J. Palms AUG 12 1988

Sworn and subscribe before me this 20th day of July, 1988
My commission expires: 07/11/93

Mary Ellen Ellifitt
Notary Public