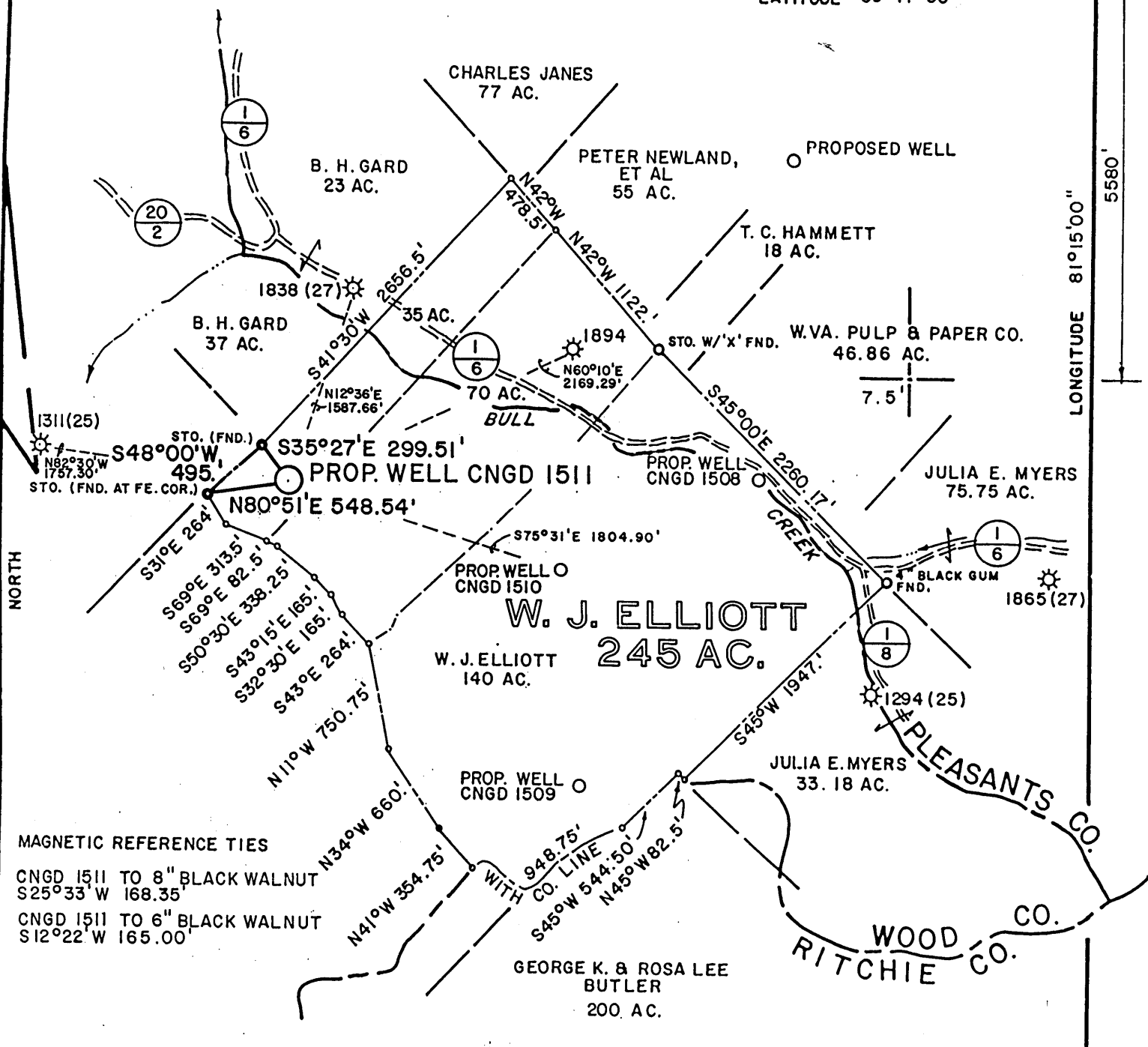


Janie 7/12/88

2540'

LATITUDE 39°17'30"

LONGITUDE 81°15'00"

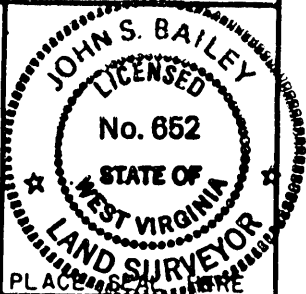


MAGNETIC REFERENCE TIES

CNGD 1511 TO 8" BLACK WALNUT
S25°33' W 168.35'
CNGD 1511 TO 6" BLACK WALNUT
S12°22' W 165.00'

FILE NO. MSES 84-562
DRAWN BY SARC
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION RD. INT. PLEAS. CO. RTS. 1/6 & 1/8; EL. 823.'

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 NOVEMBER 6 1984
OPERATOR'S WELL NO. CNGD 1511
API WELL NO. 47-107-1338-Frac.
STATE WOOD COUNTY FRAC PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1073.4' WATER SHED BULL CREEK
DISTRICT WALKER COUNTY WOOD
QUADRANGLE WILLOW ISLAND, W.VA. - OH 7.5' 1957 (1976)
SURFACE OWNER W.J. ELLIOTT ACREAGE 245 AC.
OIL & GAS ROYALTY OWNER W.J. ELLIOTT LEASE ACREAGE 245 AC.
LEASE NO. 76360
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 3900' MAR 17 1989
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15219 BRIDGEPORT, WV 26330

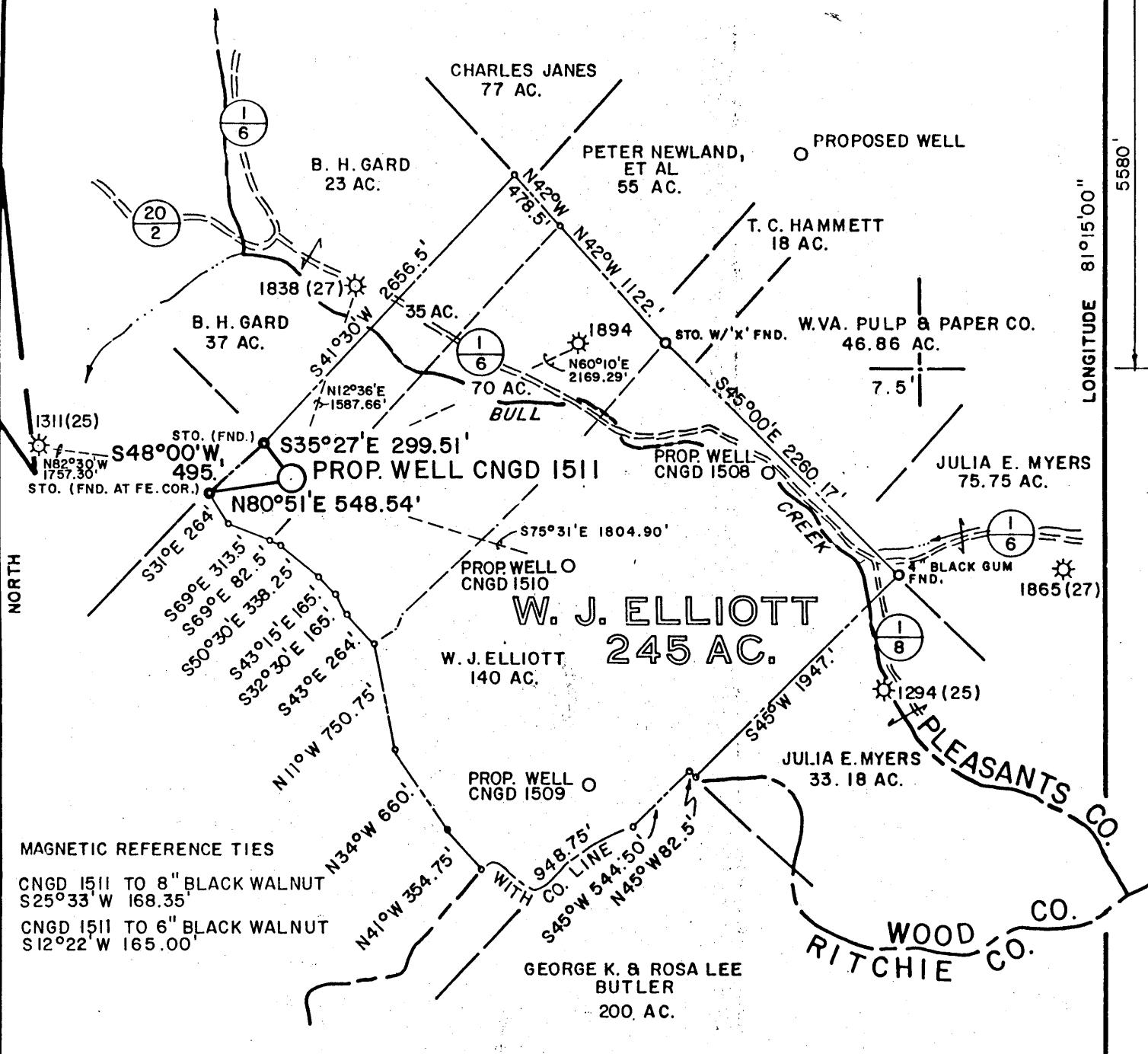
WOOD - 1338 FRAC - P

Janis 7/12/88

2540'

LATITUDE 39°17'30"

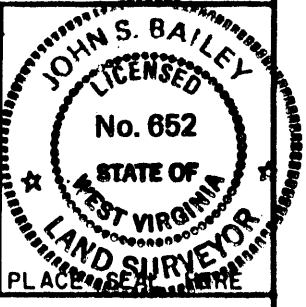
LONGITUDE 81°05'00"



MAGNETIC REFERENCE TIES
 CNGD 1511 TO 8" BLACK WALNUT
 S25°33' W 168.35'
 CNGD 1511 TO 6" BLACK WALNUT
 S12°22' W 165.00'

FILE NO. MSES 84-562
 DRAWN BY SARC
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION RD. INT. PLEAS. CO. RTS. 1/6 & 1/8; EL. 823.

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 NOVEMBER 6 1984
 OPERATOR'S WELL NO. CNGD 1511
 API WELL NO. 47-107-1338-Frac.
 STATE WOOD COUNTY PLUG PERMIT

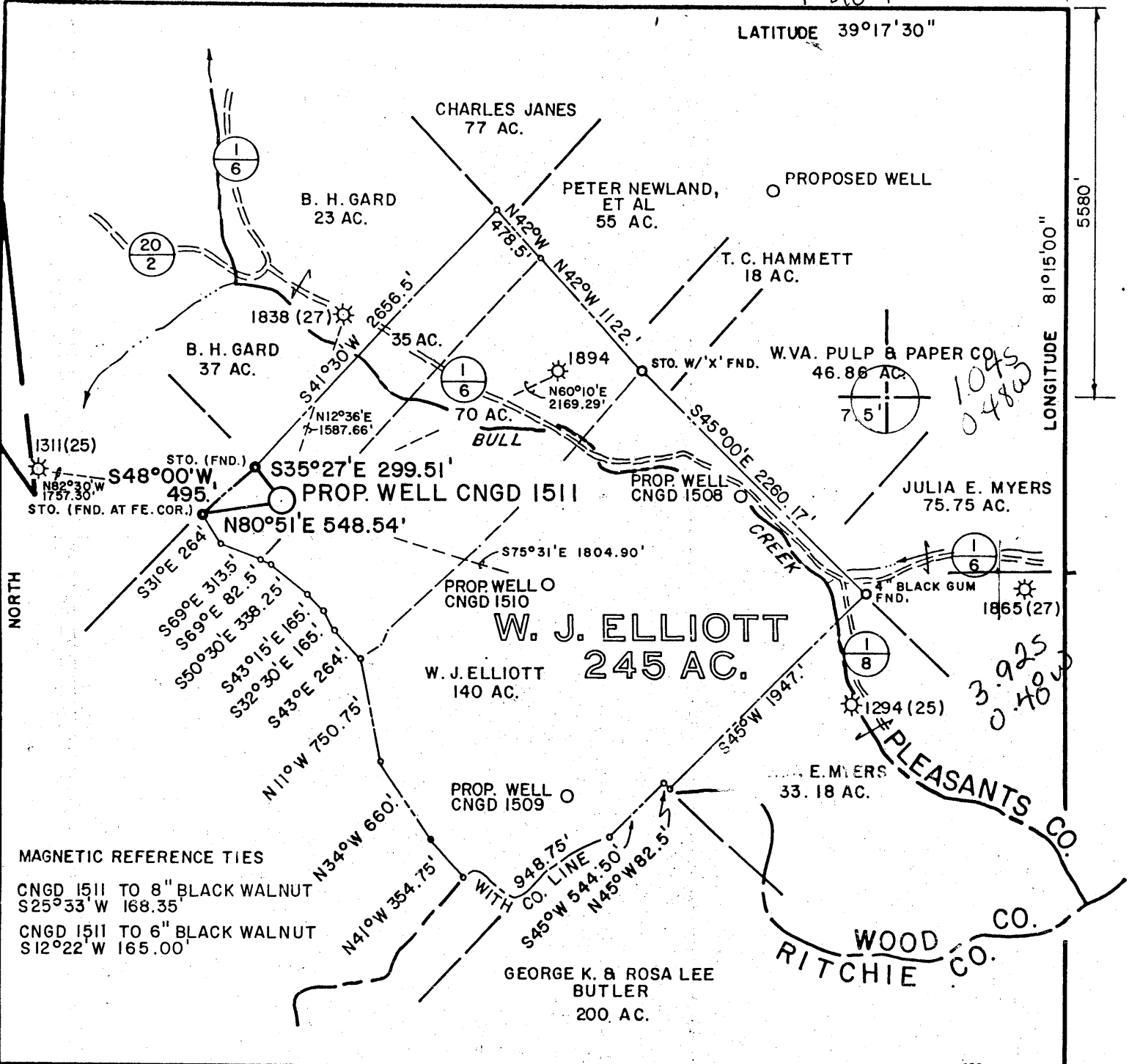
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1073.4' WATER SHED BULL CREEK
 DISTRICT WALKER COUNTY WOOD
 QUADRANGLE WILLOW ISLAND, W. VA. - OH 7.5' 1957 (1976)
 SURFACE OWNER W.J. ELLIOTT ACREAGE 245 AC.
 OIL & GAS ROYALTY OWNER W.J. ELLIOTT LEASE ACREAGE 245 AC.
 LEASE NO. 76360
 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 3900' JUL 15 1988
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15219 BRIDGEPORT, WV 26330

WOOD - 1338 Frac - P

will 12/17/84

39 20 | 2540'

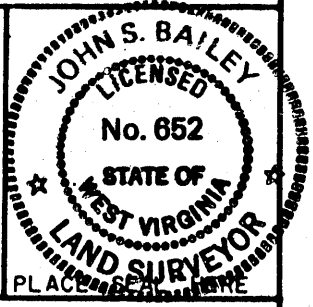
LATITUDE 39°17'30"



MAGNETIC REFERENCE TIES
 CNGD 1511 TO 8" BLACK WALNUT
 S25°33' W 168.35'
 CNGD 1511 TO 6" BLACK WALNUT
 S12°22' W 165.00'

FILE NO. MSES 84-562
 DRAWN BY SARC
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION RD. INT. PLEAS. CO. RTS. 1/6 & 1/8; EL. 823.'

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 NOVEMBER 6, 1984
 OPERATOR'S WELL NO. CNGD 1511
 API WELL NO. 47-107-1338-Frac.
 STATE WOOD COUNTY WOOD PERMIT 8073

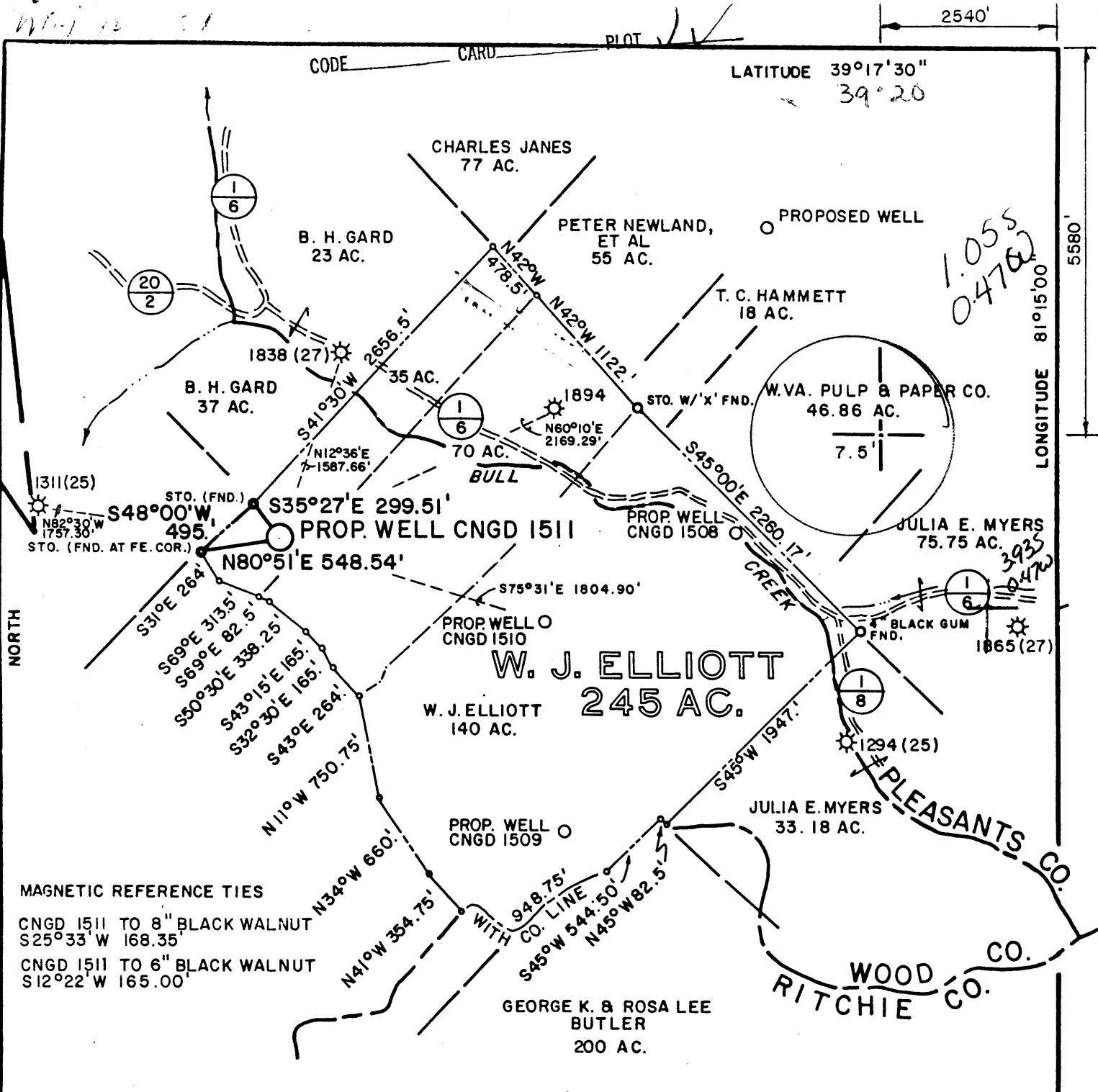
Department of Mines
 Oil & Gas Division

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1073.4' WATER SHED BULL CREEK
 DISTRICT WALKER 9 COUNTY WOOD
 QUADRANGLE WILLOW ISLAND, W. VA. - OH 7.5 1957 (1976) 686 073 SE9
 SURFACE OWNER W. J. ELLIOTT ACREAGE 245 AC.
 OIL & GAS ROYALTY OWNER W. J. ELLIOTT LEASE NO. 76360 LEASE ACREAGE 245 AC.
 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 DEVONIAN SHALE ESTIMATED DEPTH 3'
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GAR HOLAS
 ADDRESS ONE PARK RIDGE CENTER PITTSBURGH, PA 15219 142 ADDRESS RT. 2, BOX 698 BRIDGEPORT, WV 26330

DEC 23 1986

WOOD-1338



FILE NO. MSES 84-562

DRAWN BY SARC

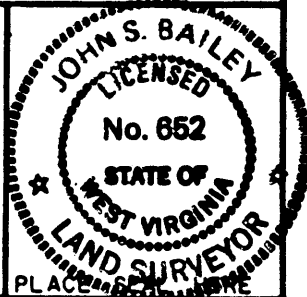
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 PART IN 200

PROVEN SOURCE OF ELEVATION RD. INT. PLEAS. CO. RTS 1/6 & 1/8; EL. 823.

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 NOVEMBER 6 1984

OPERATOR'S WELL NO. CNGD 1511

API WELL NO.

47-107-1338

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 1073.4' WATER SHED BULL CREEK

DISTRICT WALKER COUNTY WOOD

QUADRANGLE WILLOW ISLAND, W. VA. - OH 7.5' 1957 (1976) Marquette & SEQ

SURFACE OWNER W. J. ELLIOTT ACREAGE 245 AC.

OIL & GAS ROYALTY OWNER W. J. ELLIOTT LEASE ACREAGE 245 AC.

LEASE NO. 76360

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 DEVONIAN SHALE ESTIMATED DEPTH 3900'

WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS

ADDRESS ONE PARK RIDGE CENTER ADDRESS RT. 2, BOX 698
PITTSBURGH, PA 15219 BRIDGEPORT, WV 26330

JAN 7 1985

142



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APR 5 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date February 19, 1985
Operator's
Well No. CNGD WN 1511
Farm W. J. Elliott
API No. 47 - 107 - 1338

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil x / Gas / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1073.4 Watershed Bull Creek
District: Walker County Wood Quadrangle Willow Island

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 W. J. Elliott

ADDRESS Rt. 3 St. Marys, WV 26170

MINERAL RIGHTS OWNER W. J. Elliott

ADDRESS Rt. 3 St. Marys, WV 26170

OIL AND GAS INSPECTOR FOR THIS WORK

Glen Robinson ADDRESS Rt. 1 #6 Mt. Pleasant Est Mineralwells, WV 26150

PERMIT ISSUED 12-17-84

DRILLING COMMENCED 1-14-85

DRILLING COMPLETED 1-19-85

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

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 11-3/4" X 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3900 feet

Depth of completed well 3594 feet Rotary x / Cable Tools

Water strata depth: Fresh 180 feet; Salt 1025 feet

Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3026-3210 / 1924-20 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow (est) 25 Mcf/d Final open flow 25 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure (est) 185 psig (surface measurement) after 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

OCT 1985

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

Perfco Perforated Shale ^{Huron} 3026-3210; 22 holes (.39)
 1924-20, ^{up to} 25 holes (.39)
 Halliburton Frac 1st Stage - Break 2750, 10 pumps, Avg. BPM 75,000, Avg. PSI 2850,
 500 gal MOD 202 Acid, ISIP 1800, 5 min 1600,
 2nd Stage - Break 2950, 10 pumps, Avg. BPM 60,000, Avg. PSI 3500,
 500 gal MOD 202 Acid, ISIP 1950, 5 min 1650

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	5	Water @ 180'
Sh, Sd & RR			5	960	410' - 1/2" stream 1025' - 3" stream
Big Lime & Injun			960	1140	
Sand and Shale			1140	3594	Huron @ T.D.
<u>LOG TOPS</u> ✓					
BIG INJUN				1215	
BEREA			1574	1580	

Flow test by log:
 1580
 2850

(Attach separate sheets as necessary)

Sam A. Miller
 Well Operator

By: _____
 Date: February 19, 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..."

RECEIVED

NOV 28 1984



1) Date: November 16, 19 84
2) Operator's Well No. 1511
3) API Well No. 47 - 107 - 1338
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL & GAS DIVISION
DEPT. OF MINES
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil X / Gas
B (If "Gas", Production / Underground storage / Deep / Shallow)
5) LOCATION: Elevation: 1073.4 Watershed: Bull Creek
District: Walker County: Wood Quadrangle: Willow Island
6) WELL OPERATOR CNG Development Company
Address c/o Paul W. Garrett, P. O. Box 15746 Pittsburgh, PA 15244 10/110
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. Glen P. Robinson
Address Rt. 1, #6, Mt. Pleasant Estate Mineralwells, WV 26150
9) DRILLING CONTRACTOR:
Name Sam Jack Drilling Co.
Address P. O. Box 48 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, Devonian Shale
12) Estimated depth of completed well, 3900 feet
13) Approximate trata depths: Fresh, 2325 feet; salt, - feet.
14) Approximate coal seam depths: - Is coal being mined in the area? Yes / No X

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom). Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, and Liners.

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1338 Date December 17, 19 84

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 December 17, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee. Values: 28, MN, MN, MW, 970.

Margaret J. Hassel
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



1) Date: November 3, 1986
2) Operator's Well No. 1511
3) API Well No. 47 -107-1338-F State County Permit

FORM WW-2 (B) FILE COPY

RECEIVED NOV 18 1986

STATE OF WEST VIRGINIA
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
DEPARTMENT OF ENERGY 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: 1073.4 Watershed: Bull Creek
6) WELL OPERATOR: CNG Development Co. 10110 7) DESIGNATED AGENT: Gary Nicholas
8) OIL & GAS INSPECTOR TO BE NOTIFIED: Glen P. Robinson
9) DRILLING CONTRACTOR: Sam Jack Drilling Co.
10) PROPOSED WELL WORK: Drill deeper / Redrill / Stimulate X /
11) GEOLOGICAL TARGET FORMATION: Devonian Shale 401
12) Estimated depth of completed well, feet
13) Approximate strata depths: Fresh, salt, feet.
14) Approximate coal seam depths: Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom). Includes handwritten note 'See Existing Well Record'.

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1338-F Date December 12 19 86

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 December 12, 1988 unless well work is commented prior to that date and prosecuted with due diligence.

Table with columns: Bond, Agent, Plat, Casing, Fee, WPCP, S&E, Other. Includes handwritten initials and numbers.

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

Director, Division of Oil and Gas File

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

RECEIVED
AUG 31 1988

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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: ELLIOTT, W. J. Operator Well No.: CNGD 1511
Watershed: Bull Creek
LOCATION: Elevation: 1073.40 Quadrangle: WILLOW ISLAND
District: WALKER County: WOOD
Latitude: 5580 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 2540 Feet West of 81 Deg. 15 Min. 0 Sec.
Company: CNG Development Company Coal Operator: W. J. Elliott
Rt. 2, Box 698 or Owner Rt. 3
Bridgeport, WV 26330 St. Marys, WV 26170
Agent: Coal Operator
Inspector: Glen P. Robinson or Owner
Permit Issued: 07/13/88

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Wood ss:

_____ and _____ Halliburton _____ 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 2nd day of August, 1988, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
90 sks cement	3218	1126		11" - 267
6% Gel	1126	570		8 5/8 - 1206
Cut 4.5" @ 570'			570	3010
60 sks cement	570	370		
6% Gel	370	120		
60 sks cement	120	0		

Description of monument: 48" x 8" cap - Vent Hole on Side; Plate Reads: CNGD WN 1511 47-107-1338-P

and that the work of plugging and filling said well was completed on the 2nd day of August, 1988.

And further deponents saith not.

Sworn and subscribe before me this 18th day of August, 1988
My commission expires: 02/11/93

Roof Riggs
Nathan Ratal
Mary Ellen Elliott
Notary Public