

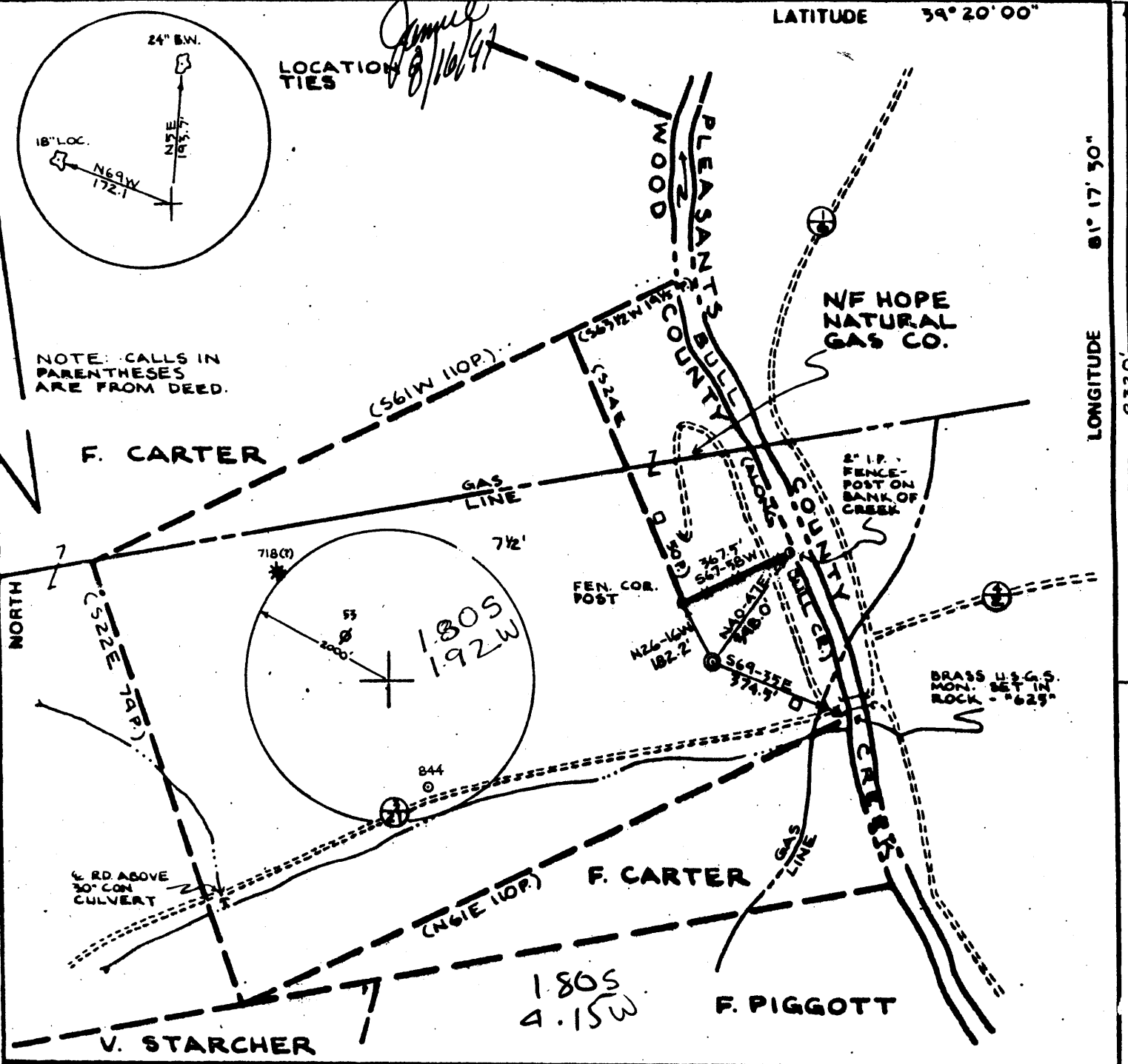
LOCATION TIES

James
8/16/47

LATITUDE 39° 20' 00"

LONGITUDE 81° 17' 30"

NOTE: CALLS IN PARENTHESES ARE FROM DEED.



FILE NO. 84164
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BRASS MON.
LOW WATER BR. - ELEV. = 625

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) William Ambrose
 R.P.E. _____ L.L.S. 568

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 17 DEC. 1985
 OPERATOR'S WELL NO. FLOYD MALONE #2
 API WELL NO. _____

47 - 107 - 1352-TRAC
 STATE COUNTY PERMIT
R. Mark Sledge

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 704' WATER SHED BULL CREEK
 DISTRICT UNION COUNTY WOOD
 QUADRANGLE WILLOW ISLAND Marietta SE
 SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48 AC.
 OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48 AC.
 LEASE NO. _____
 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 _____ 0WVO 6-6 Waverly (071)
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000
 WELL OPERATOR GASSEARCH CORP DESIGNATED AGENT Stable Zickelrose
 ADDRESS 7045 EMERSON AVENUE ADDRESS 7045 Emerson Ave
PARKERSBURG, W. 26101 4576

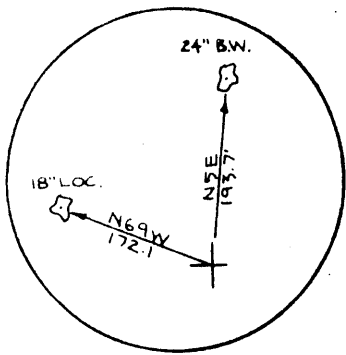
WOOD - 1352 - 10

AUG 2 1997

10,100'

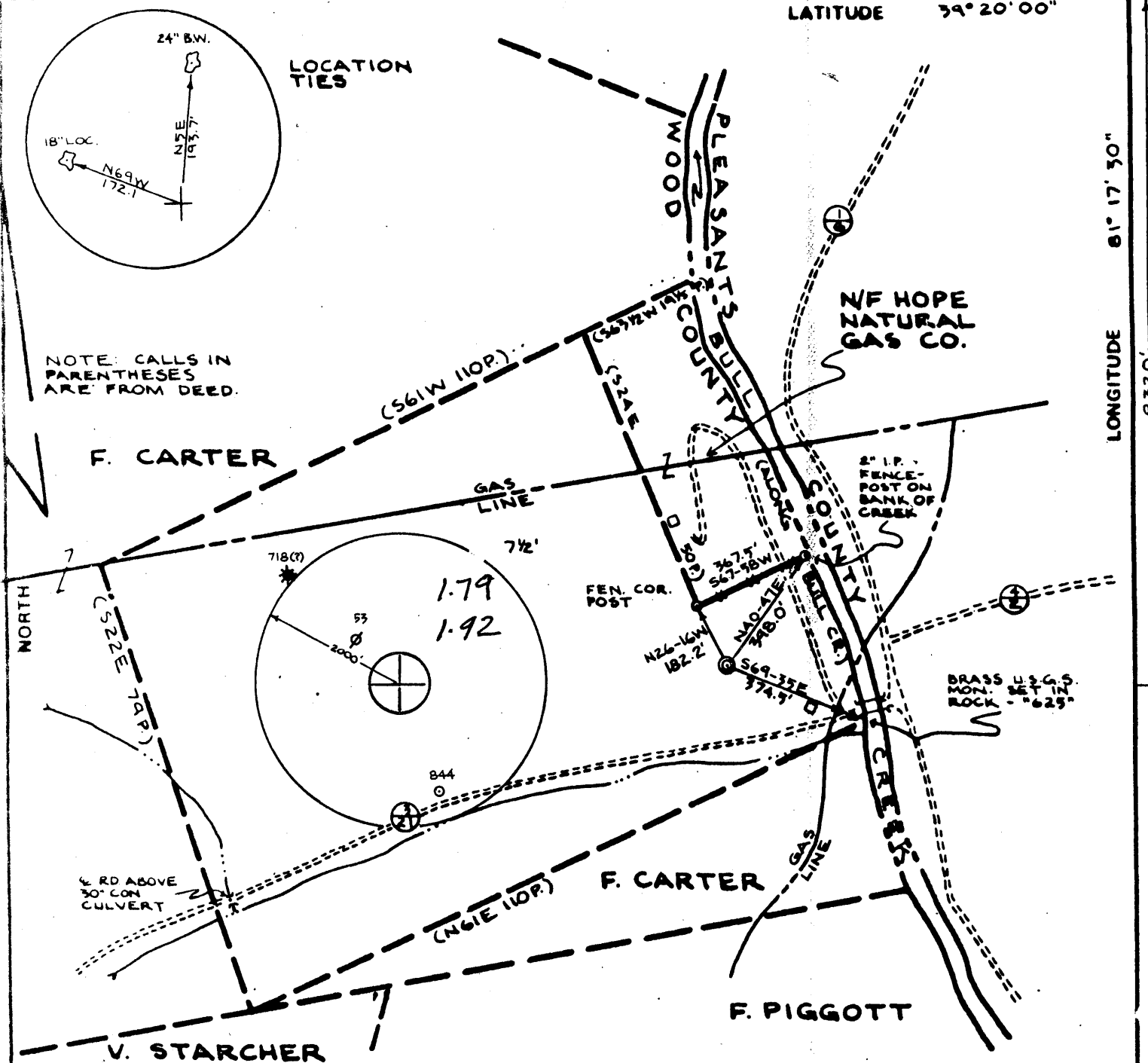
LATITUDE 39° 20' 00"

LONGITUDE 81° 17' 30"



LOCATION TIES

NOTE: CALLS IN PARENTHESES ARE FROM DEED.



FILE NO. 84164
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BRASS MON.
 ● LOW WATER BR. - ELEV. = 625

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) William Ambrose
 R.P.E. _____ L.L.S. 568

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



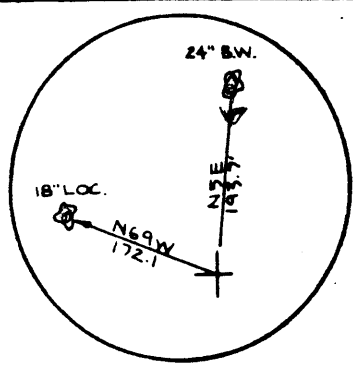
DATE 17 DEC. 1985, 19____
 OPERATOR'S WELL NO. FLOYD MALONE #2
 API WELL NO. _____
47 - 107 - 1352-P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 704' WATERSHED BULL CREEK
 DISTRICT UNION COUNTY WOOD
 QUADRANGLE WILLOW ISLAND
 SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48 AC.
 OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48 AC.
 LEASE NO. _____
 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 5000
 WELL OPERATOR CUYAHOGA EXPLORATION DESIGNATED AGENT ROGER ANTHONY HUNTER
 ADDRESS PO BOX 309 JERICHO, NY 11753 ADDRESS P.O. BOX 1386 CHARLESTON 201 WEST VIRGINIA 25325

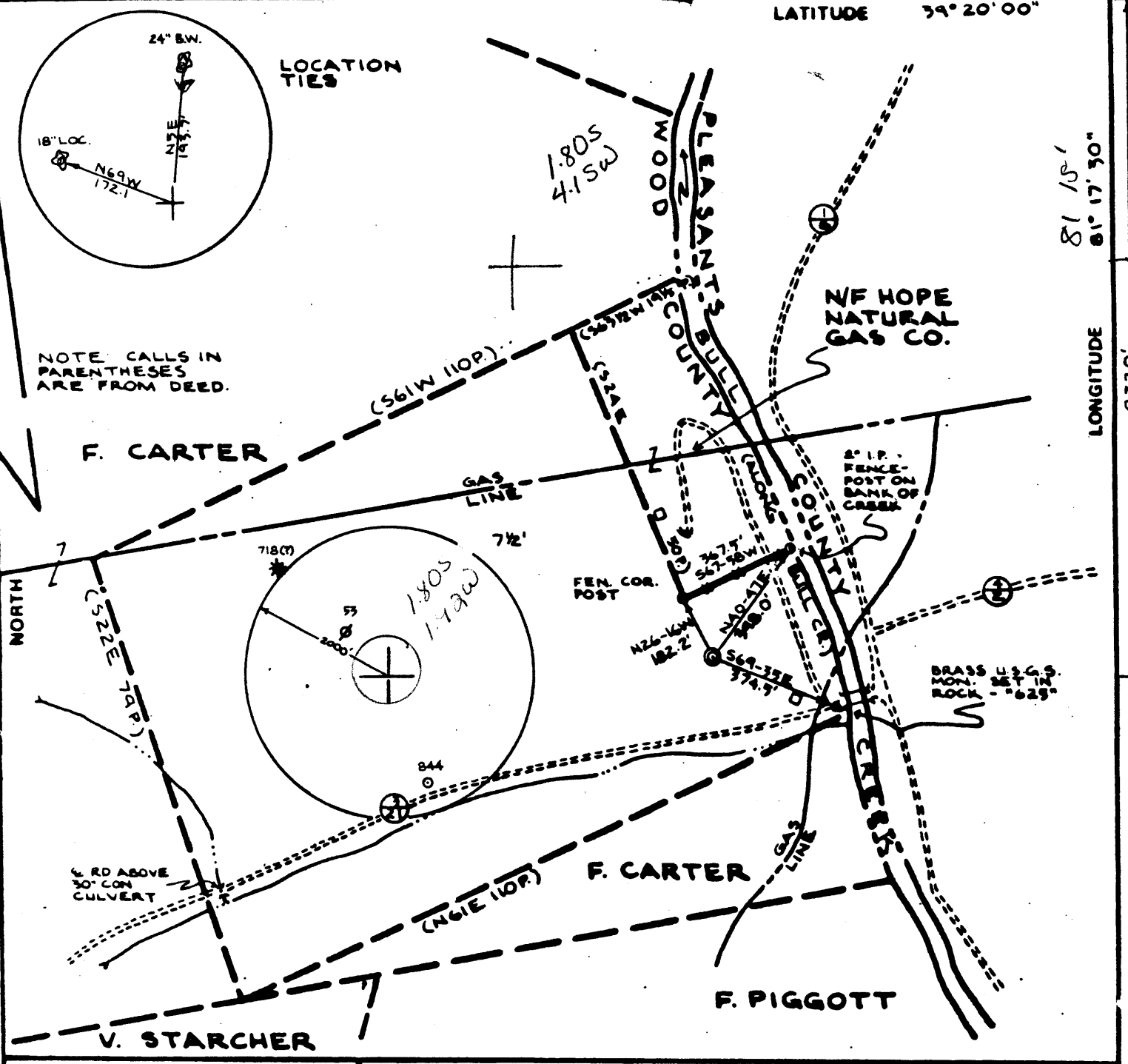
FEB 02 1986

WOOD - 1352 - 1



LOCATION TIES

NOTE: CALLS IN PARENTHESES ARE FROM DEED.



FILE NO. 84164
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BRASS MON.
 (+) LOW WATER DB. - ELEV. = 625

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) William Ambrose
 R.P.E. _____ L.L.S. 568

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



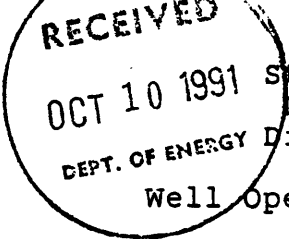
DATE 17 DEC. 1985, 19____
 OPERATOR'S WELL NO. FLOYD MALONE #2
 API WELL NO. _____
47 - 107 - 1352
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 704' WATER SHED BULL CREEK
 DISTRICT UNION # COUNTY WOOD
 QUADRANGLE WILLOW ISLAND 686 Marietta 151 SE 9
 SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48 AC.
 OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48 AC.
 LEASE NO. _____
 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 5000
 WELL OPERATOR GUYAHOGA EXPLORATION DESIGNATED AGENT ROGER ANTHONY HUNTER
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 ADDRESS P.O. BOX 1386 CHARLESTON WEST VIRGINIA 25325

MAR 11 1985



State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Reviewed: JMG Recorded: _____

Well Operator's Report of Well Work

Farm name: KELLEY, LOIS M. Operator Well No.: MALONE 2

LOCATION: Elevation: 704.00 Quadrangle: WILLOW ISLAND

District: UNION County: WOOD
Latitude: 9320 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 10100 Feet West of 81 Deg. 17 Min. 30 Sec.

Company: GASSEARCH CORPORATION
7845 EMERSON AVENUE
PARKERSBURG, WV 26101-0000

Agent: NOBLE ZICKEFOOSEE

Inspector: GLEN P. ROBINSON
Permit Issued: 08/19/91
Well work Commenced: 8/20/91
Well work Completed: 8/29/91
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 3799
Fresh water depths (ft) 105
Salt water depths (ft) 1588
Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Table with 4 columns: Casing & Tubing Size, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Back to Surface. Rows include 9 5/8", 7", 4 1/2" casing sizes.

OPEN FLOW DATA

Producing formation BALLTOWN, SPEECHLY Pay zone depth (ft) SEE TREATMENT
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 0 Hours
Static rock Pressure 0 psig (surface pressure) after 0 Hours
Second producing formation GORDON, GANTZ Pay zone depth (ft) SEE TREATMENT
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 500 MCF/d Final open flow SHOW Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 700 psig (surface pressure) after 48 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED 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: GASSEARCH CORPORATION
By: Noble Zickfoose
Date: 10-8-91

TREATMENT SUMMARY

- 1st Stage: Balltown (3468' to 3764') 20 holes, 500 gal. 15% HCL
838 MCFN₂ at 48 MCFPM
- 2nd Stage: Speechly (3001' to 3418') 20 holes, 600 gal. 15% HCL
828 MCFN₂ at 48 MCFPM
- 3rd Stage: Gordon, Gantz (2183' to 2472') 20 holes, 542 gal.
15% HCL. 1,030 MCFN₂ at 48 MCFPM

WELL LOG

Note: ~~Information taken from completion report of 1986.~~

? where?
we don't have

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
First Salt	955	1003
Second Salt	1127	1210
Third Salt	1284	1296
Maxon	1418	1446
Big Injun-Squaw	1550	1727
Weir	1795	1823
Welsh Stray	2003	2005
Berea	2071	2073
Devonian Shale	2073	TD
Gantz	2185	2184
Thirty Foot	2292	2338
Gordon	2442	2477
Speechly-Balltown	3532	3556

12828

RECEIVED



1) Date: January 24, 1985
 2) Operator's Well No. Floyd Malone #2
 3) API Well No. 47 - 107 - 1352
 State County Permit

FEB 12 1985

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

**OIL & GAS DIV.
 DEPT. OF MINES**

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 704' Watershed: Bull Creek
 District: Union County: ~~Pleasants~~ Wood Quadrangle: Willow Island
- 6) WELL OPERATOR Cuyahoga Exp. & Dev. Corp. 7) DESIGNATED AGENT Roger Hunter
 Address Route 1 Address P. O. Box 1386
Marietta, OH 45750 72125 Charleston, WV 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson 9) DRILLING CONTRACTOR:
 Address Rt. #1, #6 Mt. Pleasants Estates Name not yet determined
Minerals Wells, WV 26149
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale/Benson Formation
- 12) Estimated depth of completed well, 5,000 feet
 13) Approximate trata depths: Fresh, 100 feet; salt, 1,500 feet.
 14) Approximate coal seam depths: not applicable 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	11 3/4		38.0	X		60'	60'		Kinds
Fresh water	9 5/8		36.0	X		200'	200'	100 sacks	<i>CTS by rule 15.05</i>
Coal									
Intermediate	7		20.0	X		2500'	2500'	300 sacks	<i>was required by rule 15.01</i>
Production	4.6		10.5	X		5000'	5000'	300 sacks	
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1352 Date March 1, 1985

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 1, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>52</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>1219</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