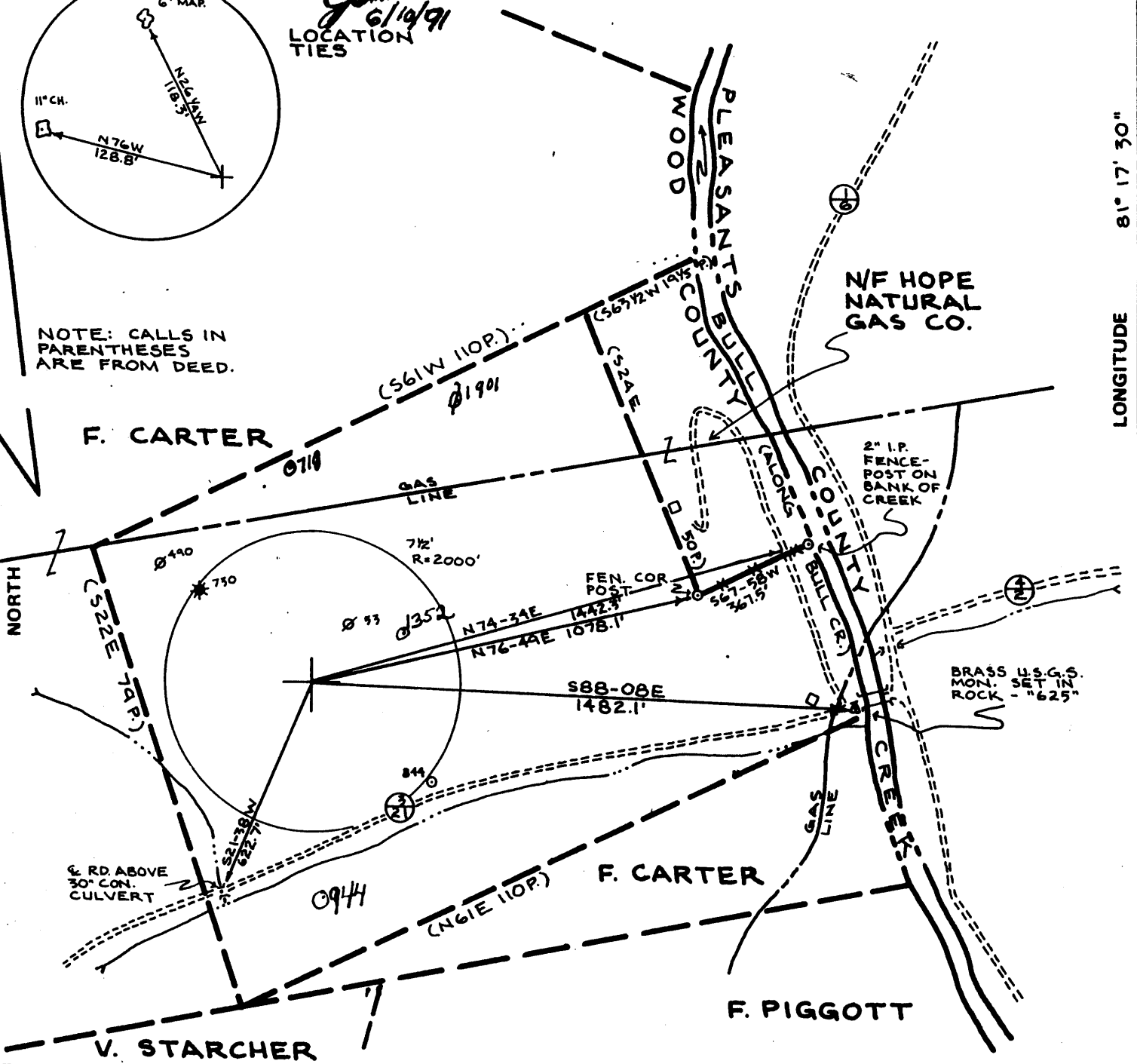


*Janice*  
6/10/91  
LOCATION TIES

NOTE: CALLS IN PARENTHESES ARE FROM DEED.



LONGITUDE 81° 17' 30"

FILE NO. 84163  
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, 19\_\_\_\_  
OPERATOR'S WELL NO. FLOYD MALONE #1  
API WELL NO. \_\_\_\_\_  
47 - 107 - 1353-Jac  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
LOCATION: ELEVATION 746 WATER SHED BULL CREEK  
DISTRICT UNION COUNTY WOOD  
QUADRANGLE WILLOW ISLAND

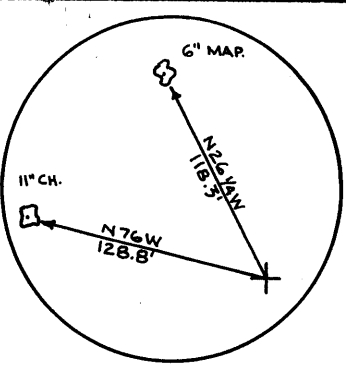
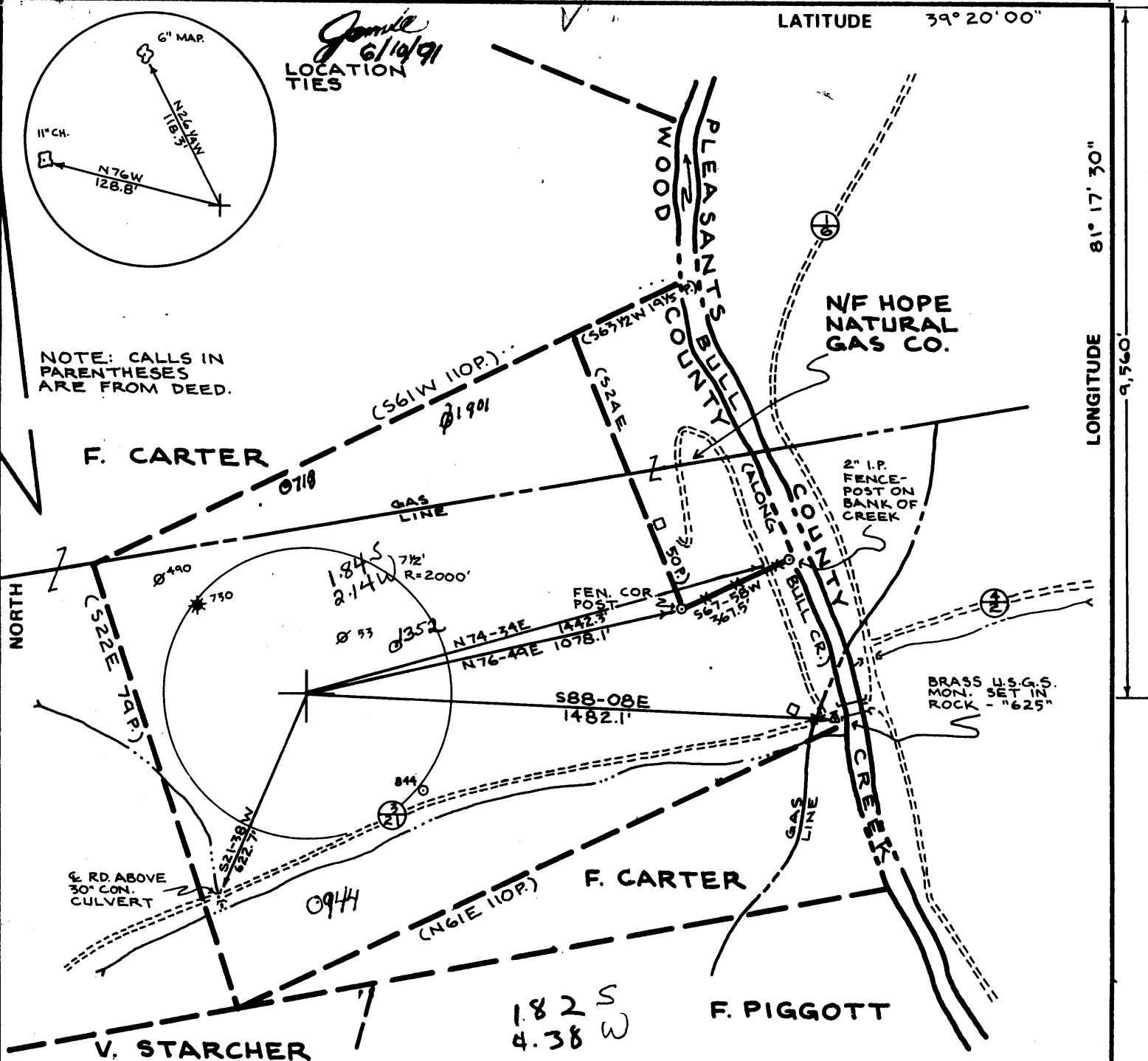
Plugging dated: 1-29-90 Cancelled

SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48AC.  
OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48AC.  
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 Oil Search Corp. SIGNATED AGENT Noble Zuckrose  
ADDRESS 7845 Emerson Ave. Parkersburg, W. Va. 26101 ADDRESS 7845 Emerson Ave. Parkersburg, W. Va. 26101

WOOD - 1353 FRAC



*Janile*  
6/10/91  
LOCATION TIES

NOTE: CALLS IN PARENTHESES ARE FROM DEED.

LATITUDE 39° 20' 00"

EQUIDISTANT 06.41.18

FILE NO. 84163  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF ACCURACY 1:200  
PROVEN SOURCE OF ELEVATION USGS BRASS MON.  
@ LOW WATER BR. - ELEV. = 625

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(SIGNED) William Ambrose  
R.P.E. \_\_\_\_\_ L.L.S. 568

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FORM IV-6 (8-78)



DATE 17 DEC. 1985, 19\_\_\_\_  
OPERATOR'S WELL NO. FLOYD MALONE #1  
API WELL NO. \_\_\_\_\_  
47 - 107 - 1353-146  
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 746 WATER SHED BULL CREEK  
DISTRICT UNION # COUNTY WOOD  
QUADRANGLE WILLOW ISLAND Marietta SE  
SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48AC.  
OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48AC.  
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 Cal Search Corp. AGENT Abbie Zickefoose  
ADDRESS 7845 Emerson Ave 4576 ADDRESS 7845 Emerson Ave. Parkersburg, W.V. 26101

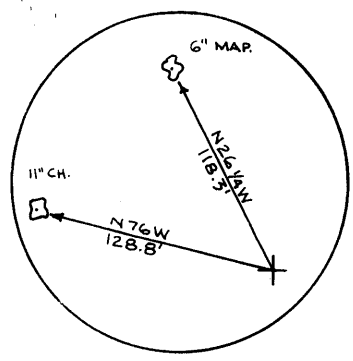
JUN 17 1991

WOOD - 1353 FRAC CR

11,230'

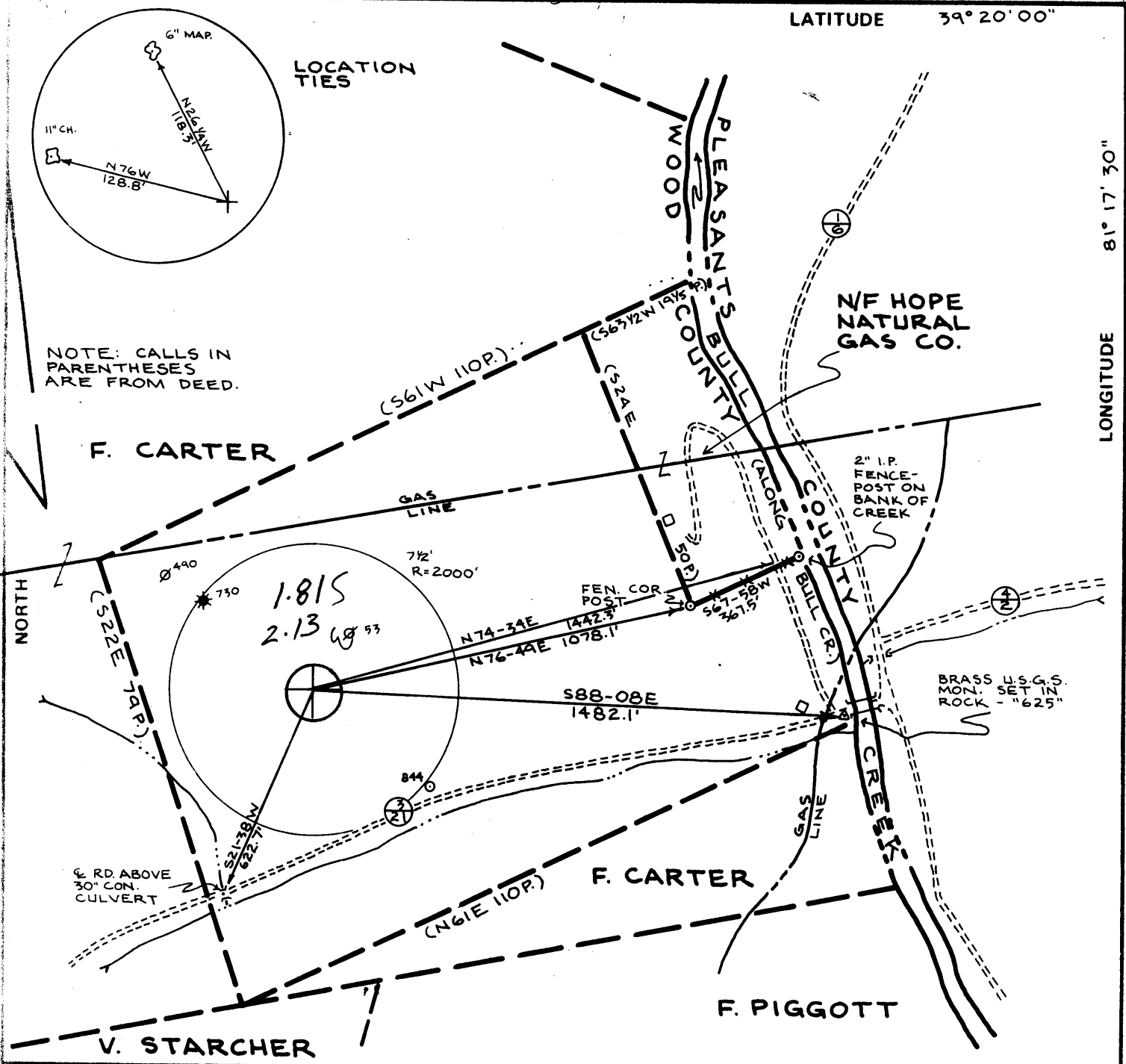
LATITUDE 39° 20' 00"

LONGITUDE 81° 17' 30"



LOCATION TIES

NOTE: CALLS IN PARENTHESES ARE FROM DEED.



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 DRAWING NO. \_\_\_\_\_  
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 @ LOW WATER BR. - ELEV. = 625

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 (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 #1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1353 - Frac  
 STATE COUNTY PERMIT

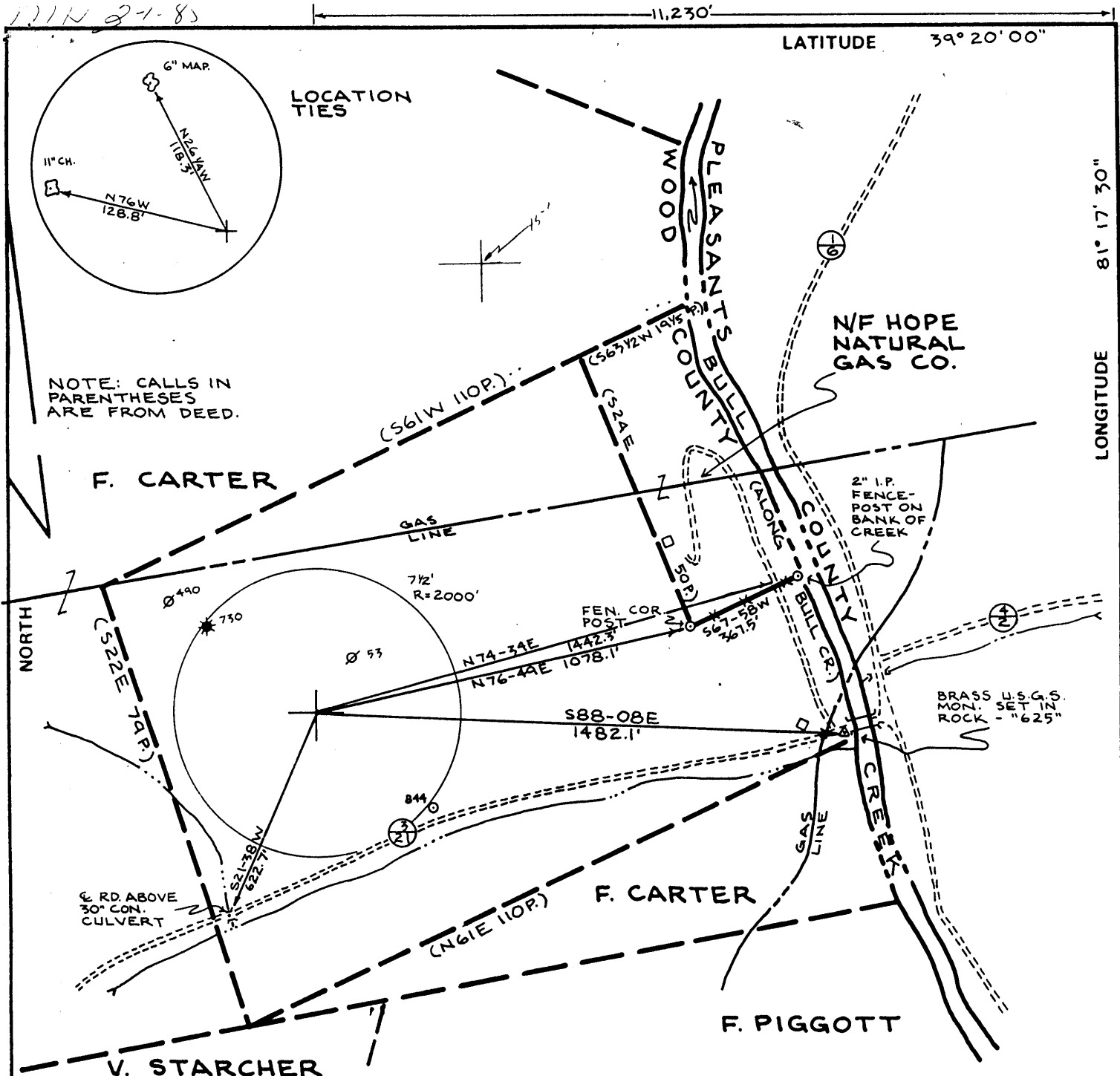
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

Plug  
 FRAC CANCELLED

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 746 WATERSHED BULL CREEK  
 DISTRICT UNION 8 COUNTY WOOD  
 QUADRANGLE WILLOW ISLAND  
 SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48AC.  
 OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48AC.  
 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 EXPLORATIONS DESIGNATED AGENT ROGER HUNTER  
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 ADDRESS P.O. BOX 1386 CHARLESTON WEST VIRGINIA 25325

WOOD - 1353 FRAC CAN



LATITUDE 39° 20' 00"

LONGITUDE 81° 17' 30"

LOCATION TIES

NOTE: CALLS IN PARENTHESES ARE FROM DEED.

F. CARTER

NW HOPE NATURAL GAS CO.

NORTH

V. STARCHER

F. PIGGOTT

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 R.P.E. \_\_\_\_\_ L.L.S. 568

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 FORM IV-6 (8-78)



DATE 17 DEC. 1985, 19\_\_\_\_  
 OPERATOR'S WELL NO. FLOYD MALONE #1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1353 - Frac  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

FRAC CANCELLED

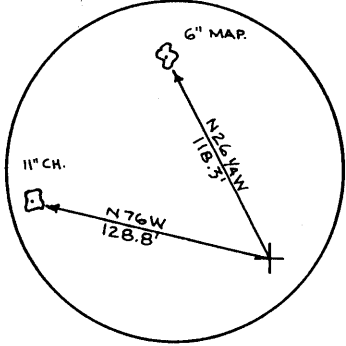
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 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
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 DISTRICT UNION COUNTY WOOD  
 QUADRANGLE WILLOW ISLAND  
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 WELL OPERATOR CUYAHOGA EXPLORATIONS DESIGNATED AGENT ROGER HUNTER  
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 ADDRESS P.O. BOX 1386 CHARLESTON WEST VIRGINIA 25325

177N 8-1-85

11,230'

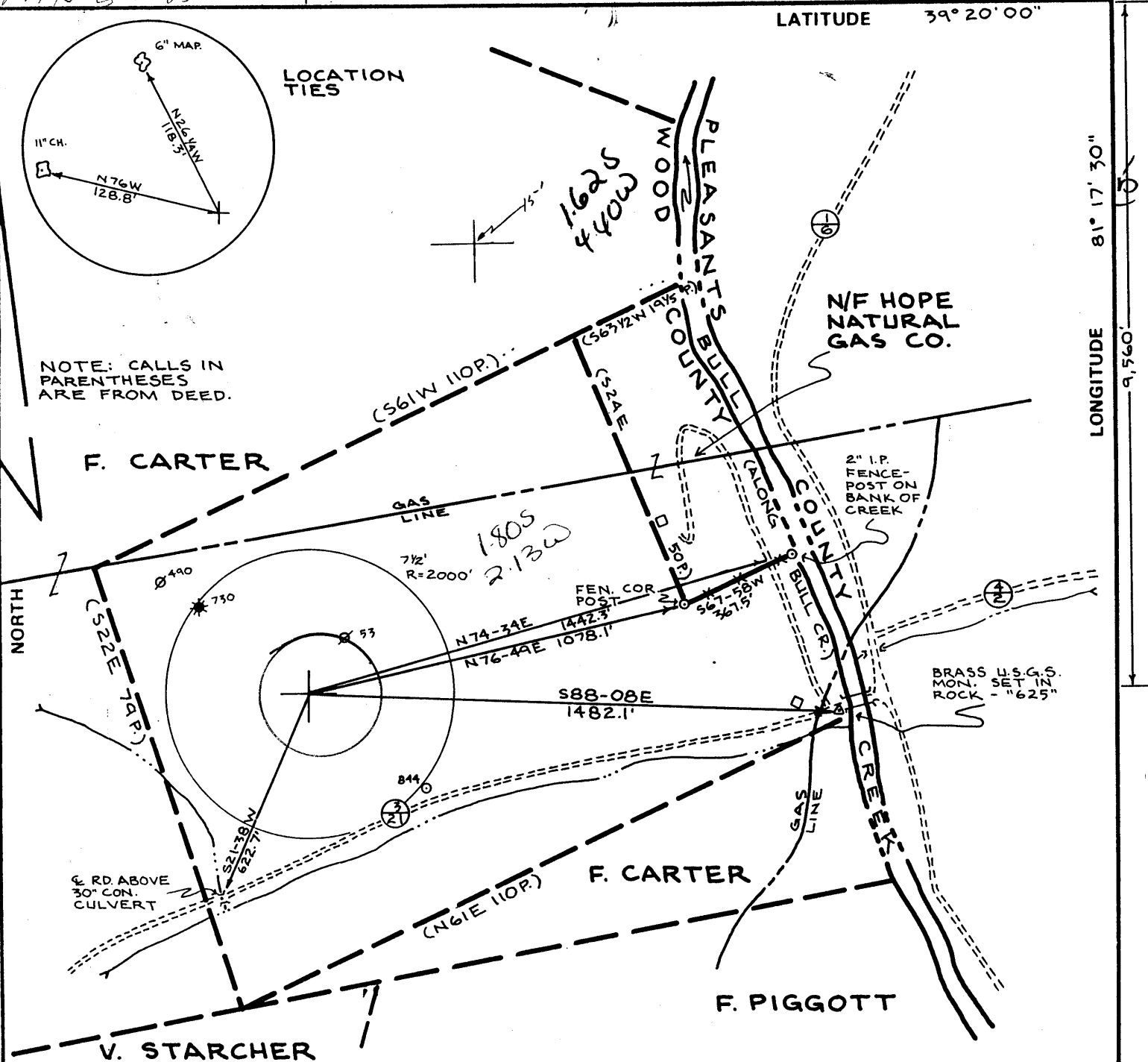
LATITUDE 39° 20' 00"

LONGITUDE 81° 17' 30"



LOCATION TIES

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 FORM IV-6 (8-78)

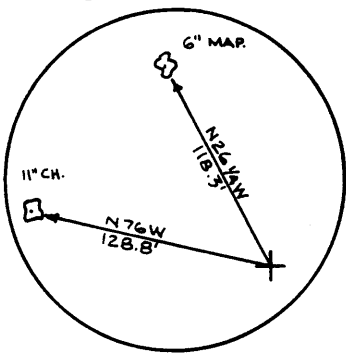


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 OPERATOR'S WELL NO. FLOYD MALONE#1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1353 - Frac.  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

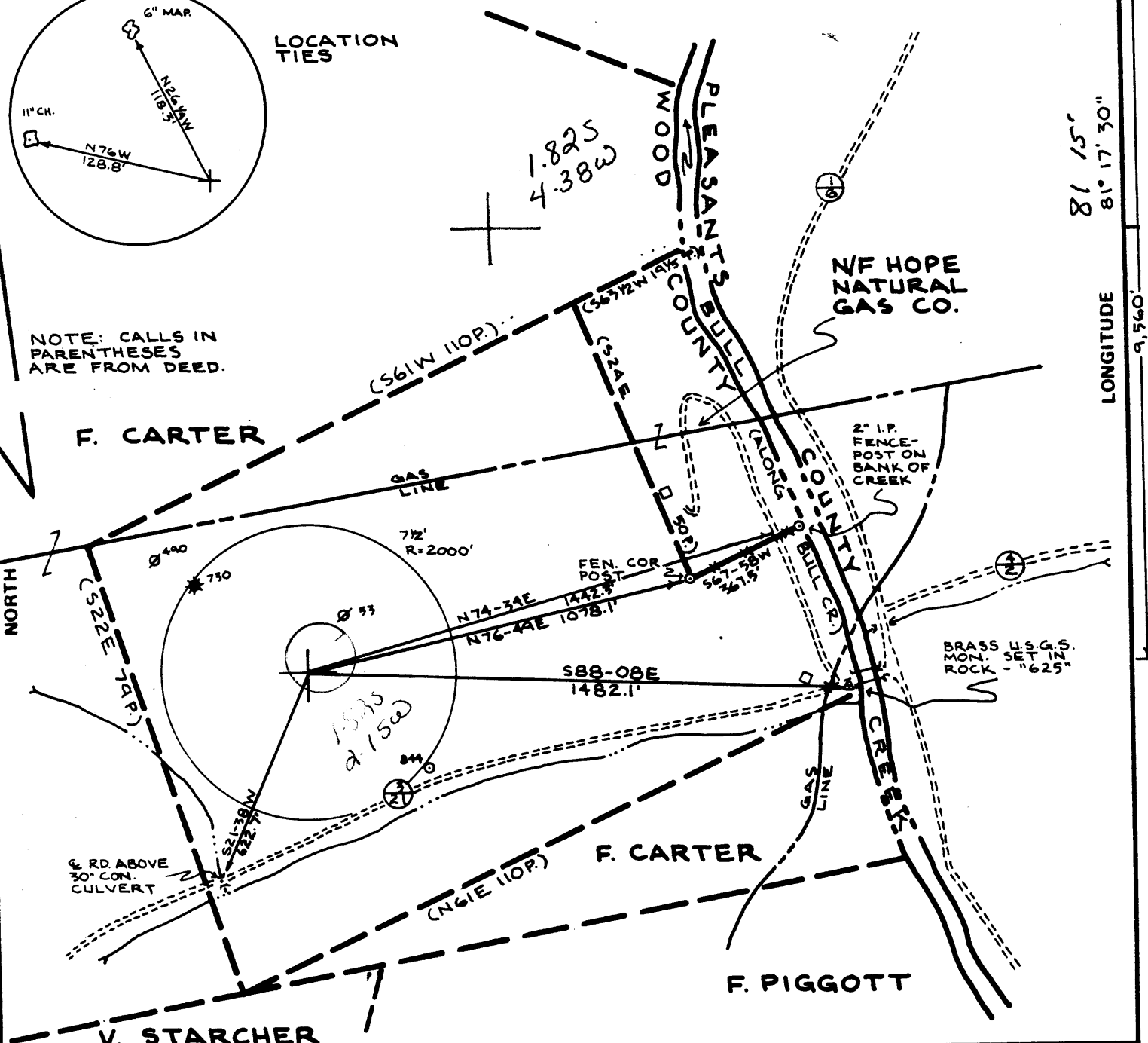
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 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 746 WATER SHED BULL CREEK  
 DISTRICT UNION 8 COUNTY WOOD  
 QUADRANGLE WILLOW ISLAND 486 073 a  
 SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48AC.  
 OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48AC.  
 LEASE NO. \_\_\_\_\_  
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OCT 5 1987  
 PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000  
 WELL OPERATOR CUYAHOGA EXPLORATIONS DESIGNATED AGENT ROGER HUNTER  
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 201 ADDRESS P.O. BOX 1386 CHARLESTON WEST VIRGINIA 25325

WOOD - 1353



LOCATION TIES

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 FORM IV-6 (8-78)



DATE 17 DEC. 1985, 19\_\_\_\_  
 OPERATOR'S WELL NO. FLOYD MALONE#1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1353  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

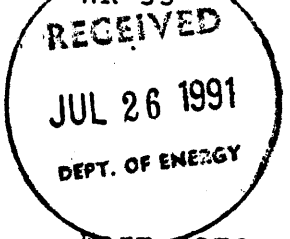
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 LOCATION: ELEVATION 746 WATER SHED BULL CREEK  
 DISTRICT UNION 8 COUNTY WOOD  
 QUADRANGLE WILLOW ISLAND Marietta 15' SE9  
 SURFACE OWNER LOIS MAXINE KELLEY, ET AL. ACREAGE 48AC.  
 OIL & GAS ROYALTY OWNER FLOYD H. MALONE, ET AL. LEASE ACREAGE 48AC.  
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 WELL OPERATOR CUYAHOGA EXPLORATIONS DESIGNATED AGENT ROGER HUNTER  
 ADDRESS ROUTE 1 MARIETTA ADDRESS P.O. BOX 1386 CHARLESTON  
201 OHIO 45750 WEST VIRGINIA 25325

MAR 11 1985

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

Well Operator's Report of Well Work



Farm name: KELLEY, LOIS MSXINE Operator Well No.: MALONE 1

LOCATION: Elevation: 746.00 Quadrangle: WILLOW ISLAND

District: UNION County: WOOD  
Latitude: 9560 Feet South of 39 Deg. 0 Min. 0 Sec.  
Longitude 11230 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: 06/10/91  
Well work Commenced: 03/25/85  
Well work Completed: 04/18/85  
Verbal Plugging  
Permission granted on:  
Rotary x Cable Rig  
Total Depth (feet) 3825'  
Fresh water depths (ft) 42'

Salt water depths (ft) 1580'

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): NONE

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. to surface
9-5/8"	208'	208'	
7"	1961'	1961'	153.6 c. f.
4-1/2"		3825'	214 c. f.

OPEN FLOW DATA

Producing formation Balltown, Speechley, Gordon zone depth (ft) See Treatment  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 1,000 MCF/d Final open flow Mist Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 863 psig (surface pressure) after 48 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ 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 Zickefoose  
Date: 07/22/91

AUG 5 1991

Treated: 07/17/91

- Balltown - 3460' to 3732', 20 holes, 500 gal. 15% HCL, 800 MCFN<sub>2</sub> at 48 mpm, 10 perf balls.
- Speechly - 3249' to 3403', 20 holes, 500 gal. 15% HCL, 800 MCFN<sub>2</sub> at 48 mpm, 10 perf balls.
- Gordon - 2498' to 2523', 20 holes, 500 gal. 15% HCL, 1000 MCFN<sub>2</sub> at 48 mpm, 15 perf balls

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
No Record	0	1006
1st Salt Sand	1006	1052
2nd Salt Sand	1183	1255
3rd Salt Sand	1327	1355
Maxon	1461	1498
Big Injun - Squaw	1588	1796
Weir	1865	1884
Welsh Stray	2062	2064
Berea	2128	2132
Gantz	2241	2253
Thirty Foot	2357	2394
Gordon	2498	2533
Speechly/Balltown	3400	3800
TD		3825

410 + 10 + 0 FT

*[Faint, mostly illegible text and markings at the bottom of the page, possibly bleed-through or secondary data.]*



RECEIVED  
MAY 23 1991  
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY

107-1353 - Frac.  
Issued 06/10/91

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

Expires 06/10/93

- 1) Well Operator: GasSearch Corporation <sup>4576</sup> - 19005 (8) 685
- 2) Operator's Well Number: Malone #1 3) Elevation: 746
- 4) Well type: (a) Oil X/ or Gas X/  
(b) If Gas: Production X/ Underground Storage     /  
Deep     / Shallow X/
- 5) Proposed Target Formation(s): 432  
Speechly
- 6) Proposed Total Depth: 3833 feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes     / No X/
- 11) Proposed Well Work: Stimulate existing well
- 12) Well near Hwy 10.  
See well record.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	9-5/8"			205'	205'	to surface
Coal						
Intermediate	7"			1961'	1961'	153.6 C.F. to surface
Production	4-1/2"	J-55	10.5		3825'	to 2120'
Tubing						214. C.F.
Liners						

PACKERS : Kind None  
Sizes       
Depths set     

For Division of Oil and Gas Use Only

Fee(s) paid:      Well Work Permit      Reclamation Fund      WPCP     

Plat      WW-9      WW-2B      Bond C D Blanket Agent       
(Type)

12315-

0002517



- 1) Date: 5/14/91
- 2) Operator's well number Malone #1
- 3) API Well No: 47 - ~~107~~ - 1353 -FRAC  
State - County - Permit

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

- |  |  |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Lois Maxine Kelley</u><br/>Address <u>Route #3, Box 387</u><br/><u>St. Marys, WV 26170</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____<br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____<br/>Address _____</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Glen P. Robinson</u><br/>Address <u>Route #1</u><br/><u>Belleville, WV 26133</u><br/>Telephone (304)- <u>863-8766</u></p>   |  |

**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.

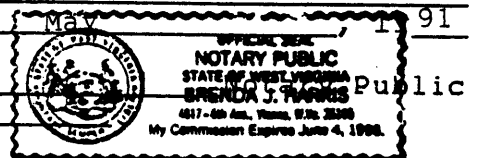
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator GasSearch Corporation  
 By: Noble Zucko  
 Its: Agent  
 Address 7845 Emerson Avenue  
Parkersburg, WV 26101  
 Telephone 304-464-4666

Subscribed and sworn before me this 14th day of May 1991

Brenda J. Harris  
 My commission expires June 4, 1996



FORM WW-2(B) FILE COPY  
 (Obverse) RECEIVED  
 7/85 SEP 29 1987



1) Date: September 11, 1987  
 2) Operator's Well No. Malone # 1  
 3) API Well No. 47-107-1353-**FRAC**  
     State County Permit

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   
           B (If "Gas", Production  / Underground storage  / Deep  / Shallow  685
- 5) LOCATION: Elevation: 746 Watershed: Bull Creek  
               District: Union B County: Wood 107 Quadrangle: Willow Island
- 6) WELL OPERATOR Cuyahoga Ex&Dev CODE: 12125 7) DESIGNATED AGENT Roger Hunter  
   Address Rte # 1 Address P.O. Box 1386  
           Marietta, Ohio 45750 Charleston, W.V. 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
   Name Glen Robinson Name C. D. Drilling  
   Address Rte # 1 Address  
           Mineral Wells, W.V. 26150
- 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
- 12) Estimated depth of completed well, 3825' feet
- 13) Approximate trata depths: Fresh, 42 feet; salt, 1327 feet.
- 14) Approximate coal seam depths: N/A 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	9 5/8"		36	X		205'	205'	Back to Surf	Kinds
Fresh water									Sizes
Coal									
Intermediate	7"		20	X		1961'	1961'	154 c.f.	
Production	4 1/2"		10.5	X		3825'	3825'	214 c.f.	Depths set
Tubing									
Lin...									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-107-1353-FRAC Date September 29 1987

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 29, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>332</u> <u>755</u>	WFOP: <input checked="" type="checkbox"/>	SAE: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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*[Signature]*  
 Director, Division of Oil and Gas  
 File

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

10910

FILE COPY  
**RECEIVED**

FEB 12 1985

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



1) Date: January 24, 19 85  
 2) Operator's Well No. F. Malone #1  
 3) API Well No. 47 - ~~XXX~~ -107 - 1353  
 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   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )  
 5) LOCATION: Elevation: 746 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 Charleston, WV 25325  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson 9) DRILLING CONTRACTOR:  
 Address Rt. #1, #6 Mr. Pleasants Estates Name not yet determined  
Mineral Wells, WV. 26150  
 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		
Conductor	11 3/4		38.0	X		60'	60'	Kinds <u>CTS NEAT</u>
Fresh water	9 5/8		36.0	X		200'	200'	
Coal								
Intermediate	7		20.0	X		2500'	2500'	Depths set <u>as required by rule 15.01D</u>
Production	4.5		10.5	X		5000'	5000'	
Tubing								Perforations:
Liners								Top Bottom

**OFFICE USE ONLY  
DRILLING PERMIT**

Permit number 47-107-1353 Date March 1, 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 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>MP</u>	<u>MU</u>	<u>MU</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