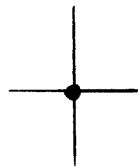


LATITUDE

39 20

81° 17' 30"

LONGITUDE



7'5 OGIS topo location

7.5' loc	<u>2.69</u>	15' loc	_____
	<u>.82</u>	(calc.)	_____

Company _____

Farm _____

Quad Willow Island

County Wood

District WALKER

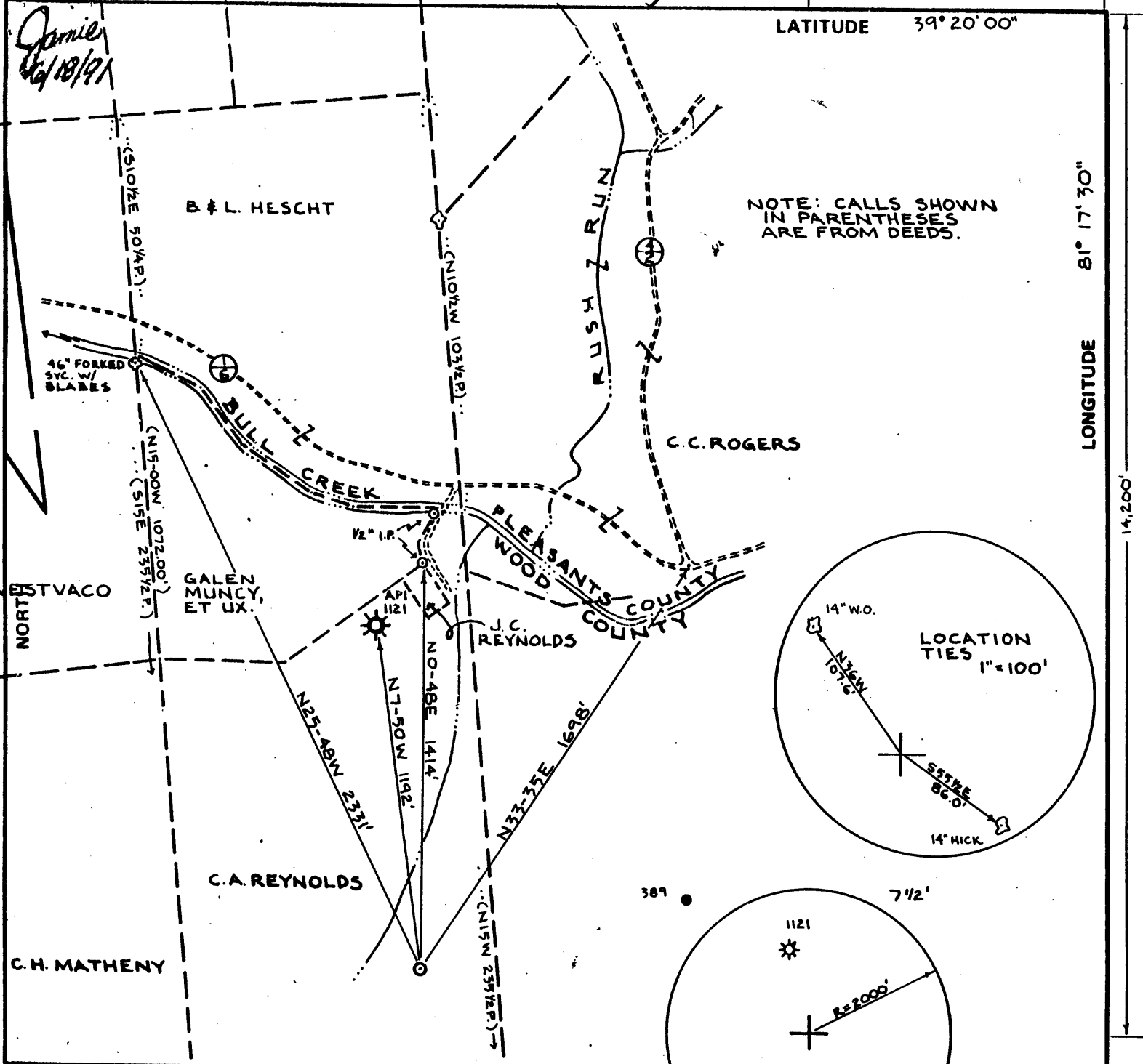
WELL LOCATION MAP

File No. 107-1350

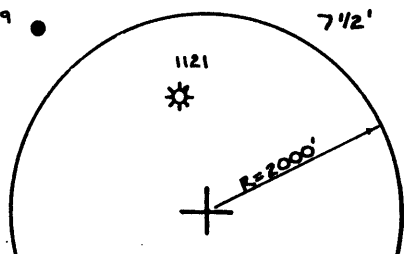
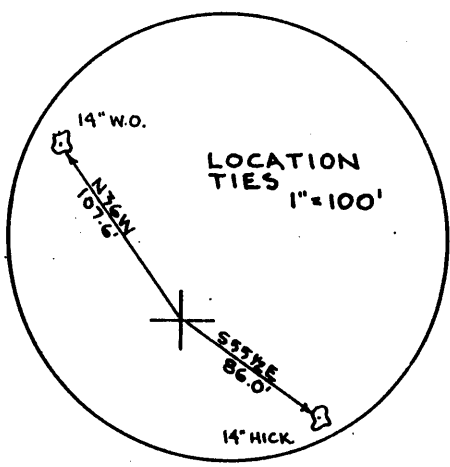
(formerly 073-938)

Janie
6/18/91

LATITUDE 39° 20' 00"



NOTE: CALLS SHOWN IN PARENTHESES ARE FROM DEEDS.



FILE NO. 84155
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
ELEV. = 687

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 12 FEBRUARY, 1984
OPERATOR'S WELL NO. REYNOLDS #1
API WELL NO. 47-107-1350-7
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
LOCATION: ELEVATION 682 WATER SHED BULL CREEK
DISTRICT WALKER COUNTY WOOD (TAXED IN PLEASANTS)
QUADRANGLE WILLOW ISLAND
SURFACE OWNER C.A. REYNOLDS ACREAGE 62.16
OIL & GAS ROYALTY OWNER C.A. REYNOLDS LEASE ACREAGE 73 1/2
LEASE NO. _____

Plugging dated 1-29-90
Cancelled

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

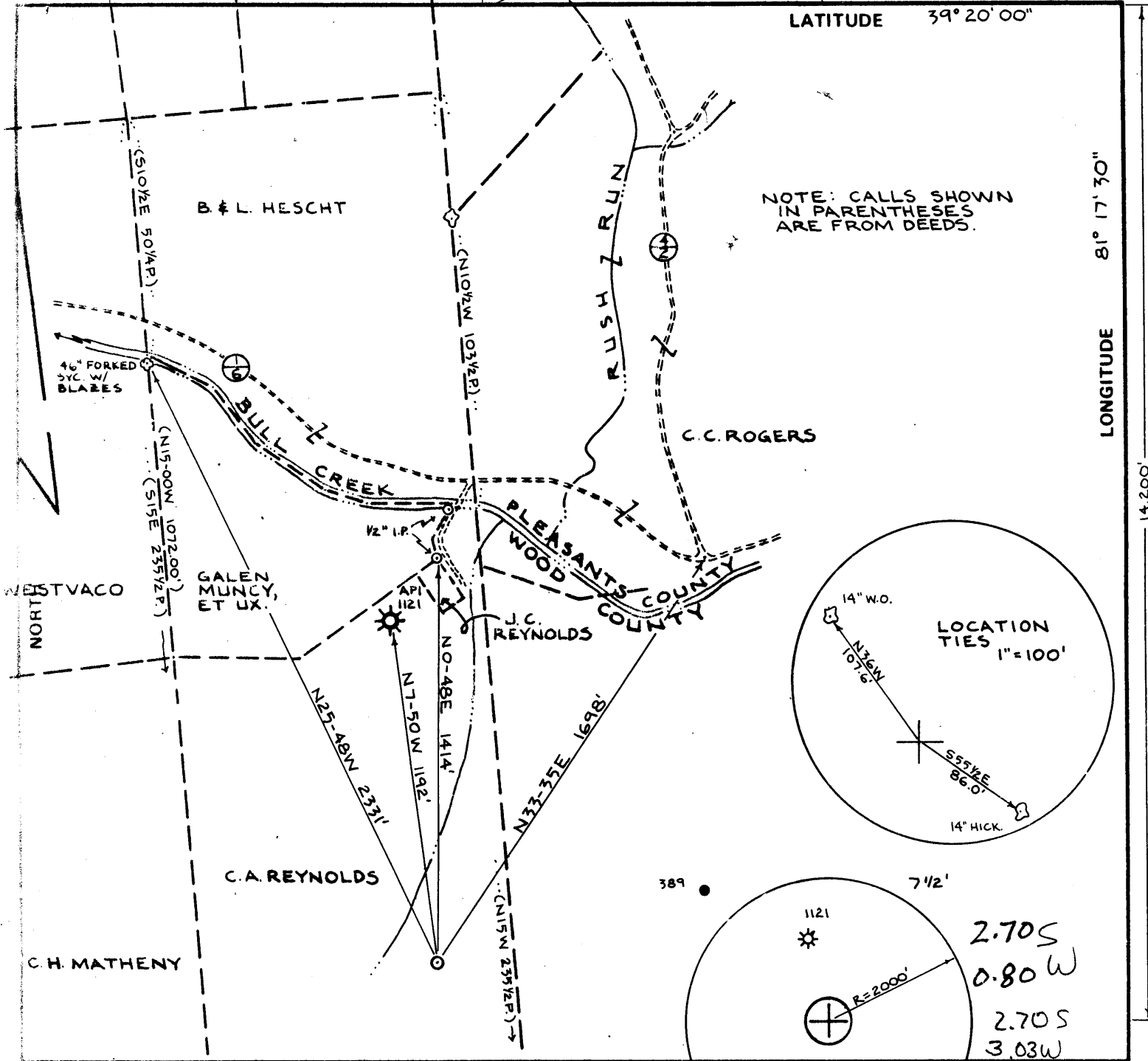
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5000'
WELL OPERATOR Dasbach Corp. DESIGNATED AGENT. Noble Zickrose
ADDRESS 7845 Emerson Ave. Parkersburg, W.V. 26101 ADDRESS 7845 Emerson Ave. Parkersburg, W.V. 26101

WOOD-1350-FRAC

LATITUDE 39° 20' 00"

LONGITUDE 81° 41' 30"

NOTE: CALLS SHOWN IN PARENTHESES ARE FROM DEEDS.



FILE NO. 84155
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY _____
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
ELEV. = 687

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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 12 FEBRUARY, 1984
 OPERATOR'S WELL NO. REYNOLDS #1
 API WELL NO. _____

47 - 107 - 1350-Frac
 STATE COUNTY PERMIT

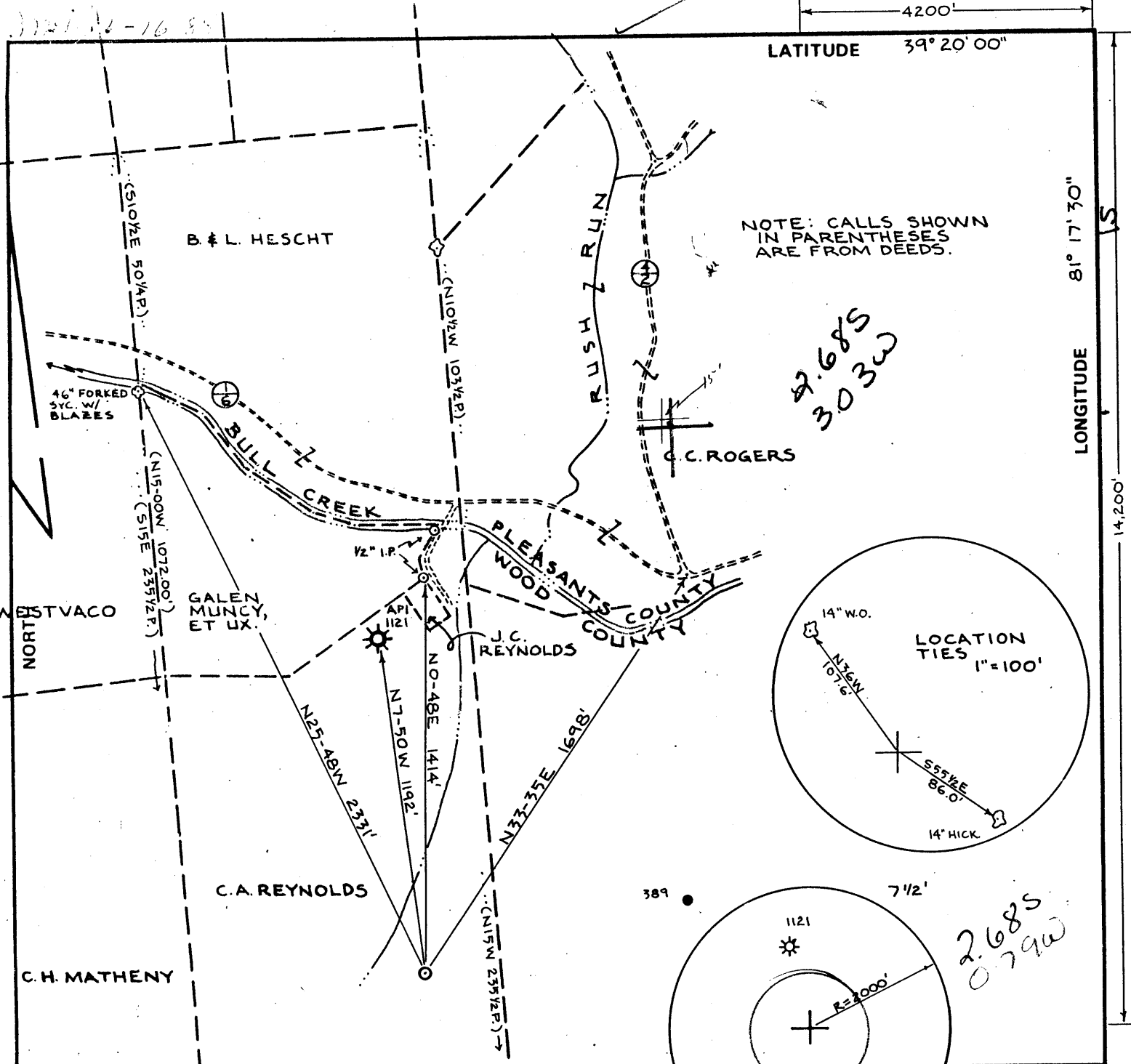
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Frac CANCELLED

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 682 WATER SHED BULL CREEK
 DISTRICT WALKER 9 COUNTY WOOD (TAXED IN PLEASANTS)
 QUADRANGLE WILLOW ISLAND Marietta SE
 SURFACE OWNER C.A. REYNOLDS ACREAGE 62.16
 OIL & GAS ROYALTY OWNER C.A. REYNOLDS LEASE ACREAGE 73 1/2
 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 HUNTER
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 ADDRESS P. BOX 1386 CHARLESTON WEST VIRGINIA 25325

WOOD - 1350-FRAC CANCELLED



FILE NO. 84155
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
 ELEV. = 687

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)

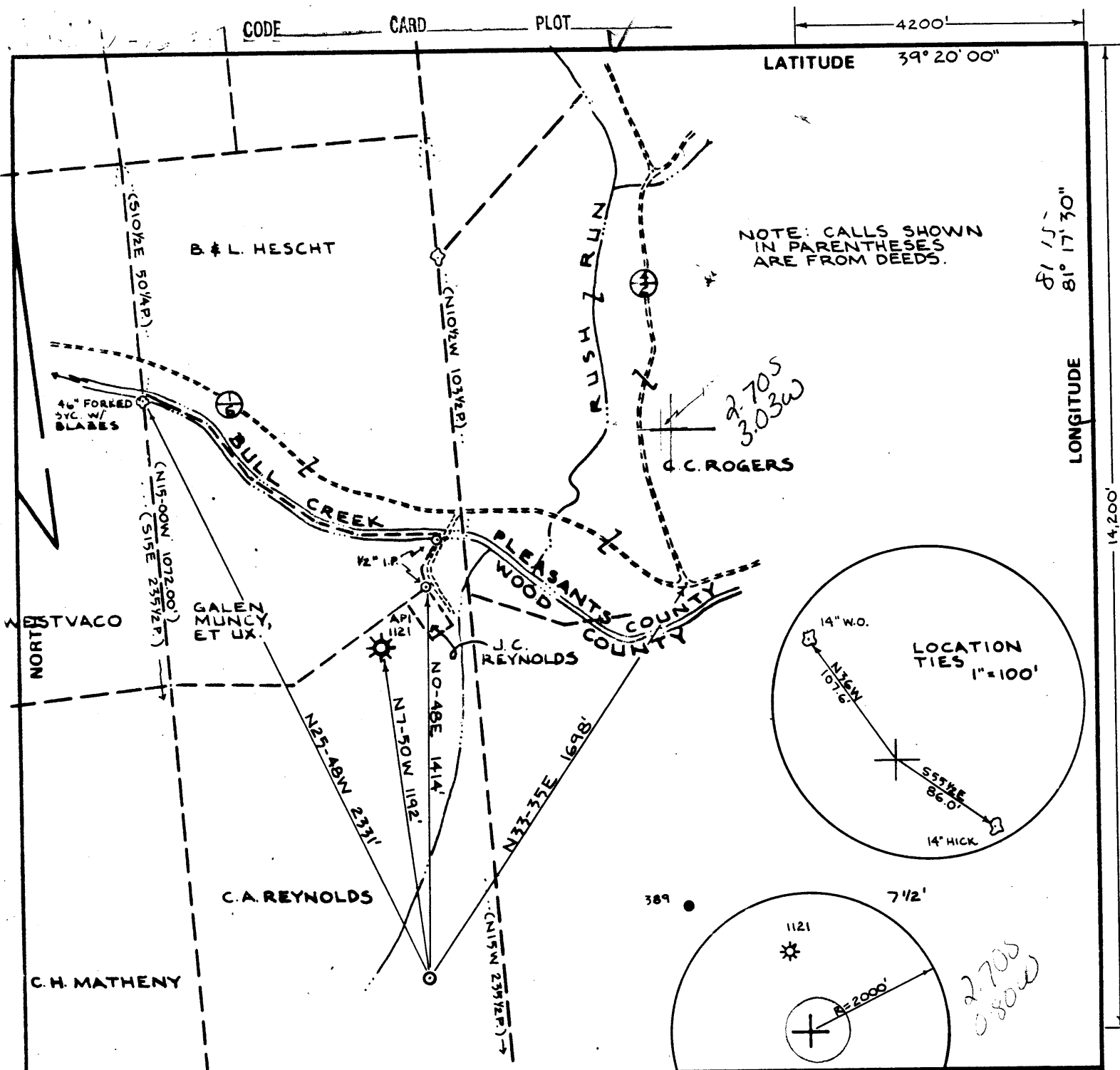


DATE 12 FEBRUARY, 1984
 OPERATOR'S WELL NO. REYNOLDS #1
 API WELL NO. _____
47 - 107 - 1350-Frac.
 STATE COUNTY PERMIT

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 682 WATER SHED BULL CREEK
 DISTRICT WALKER 9 COUNTY WOOD (TAXED IN PLEASANTS)
 QUADRANGLE WILLOW ISLAND 486 073 SE9
 SURFACE OWNER C.A. REYNOLDS ACREAGE 62.16
 OIL & GAS ROYALTY OWNER C.A. REYNOLDS LEASE ACREAGE 73 1/2
 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 HUNTER OCT 5 1987
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 201 ADDRESS P. BOX 1386 CHARLESTON WEST VIRGINIA 25325

WOOD - 1350



FILE NO. 84155
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
ELEV. = 687

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

PLACE SEAL HERE

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 FORM IV-6 (8-78)

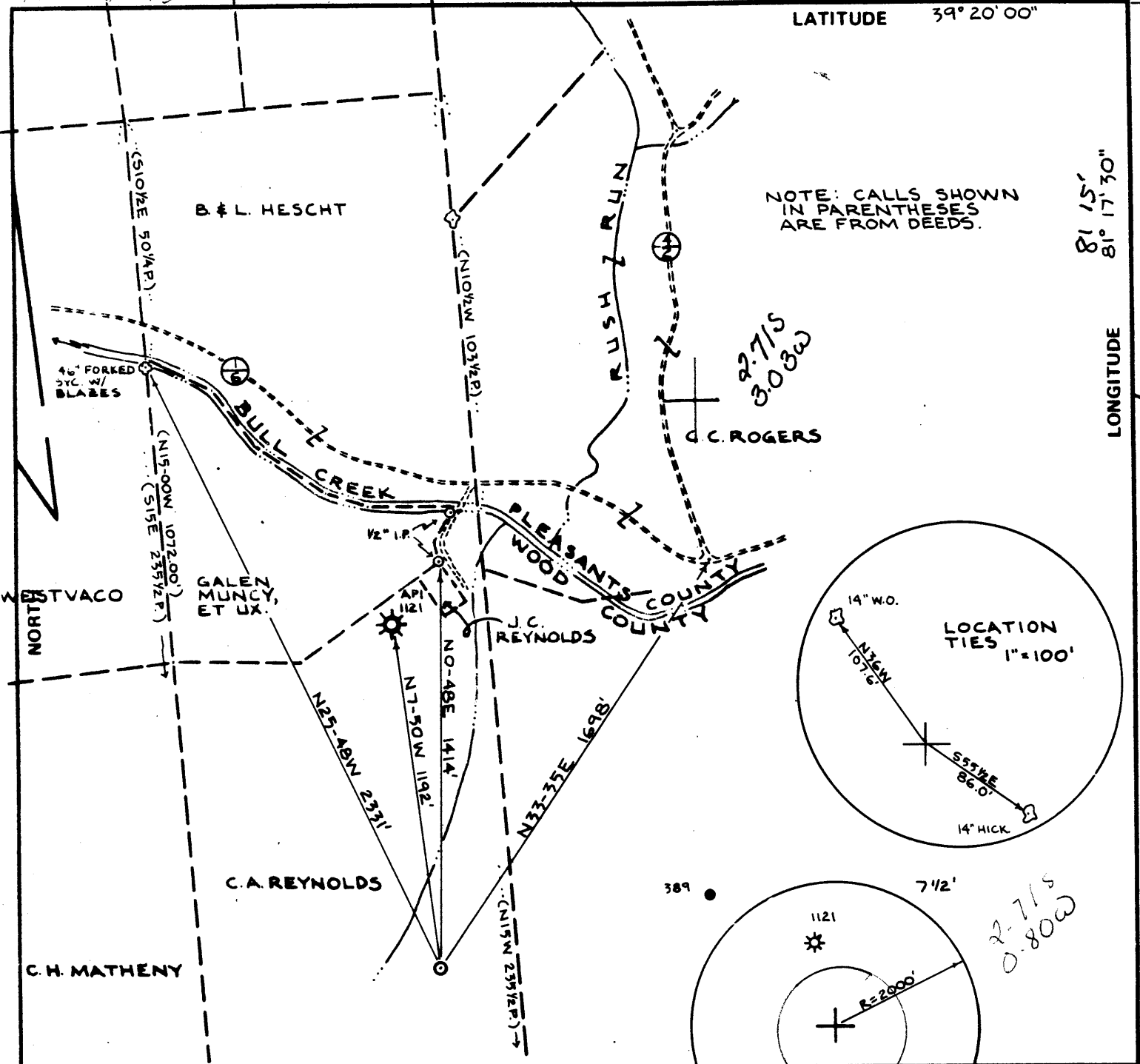


DATE 12 FEBRUARY, 1984
 OPERATOR'S WELL NO. REYNOLDS #1
 API WELL NO. 47-107-1350
 STATE WV COUNTY WOOD PERMIT 1350

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 682 WATER SHED BULL CREEK
 DISTRICT WALKER 9 COUNTY WOOD (TAXED IN PLEASANTS)
 QUADRANGLE WILLOW ISLAND 686 Marietta 151 SE9 E
 SURFACE OWNER C. A. REYNOLDS 0.13 ACREAGE 62.16
 OIL & GAS ROYALTY OWNER C. A. REYNOLDS LEASE ACREAGE 73 1/2
 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 HUNTER
 ADDRESS ROUTE 1 MARIETTA OHIO 45750 ADDRESS P.O. BOX 1386 CHARLESTON WEST VIRGINIA 25325
 9 1985



FILE NO. 84155
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
ELEV. = 687

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)

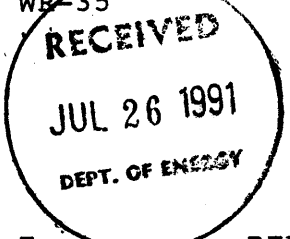


STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 12 FEBRUARY, 1984
 OPERATOR'S WELL NO. REYNOLDS #1
 API WELL NO. _____
47 - 077 - 7938
 STATE COUNTY PERMIT
107 - 1350

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 682 WATER SHED BULL CREEK
 DISTRICT WALKER 9 COUNTY WOOD (TAXED IN PLEASANTS)
 QUADRANGLE WILLOW ISLAND 686 Marietta 15' SE 9
 SURFACE OWNER C.A. REYNOLDS 073 ACREAGE 62.16
 OIL & GAS ROYALTY OWNER C.A. REYNOLDS LEASE ACREAGE 73 1/2
 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 HUNTER
 ADDRESS ROUTE 1 MARIETTA ADDRESS P.O. BOX 1386 CHARLESTON
201 OHIO 45750 WEST VIRGINIA 25325

JAN 28 1985



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

Well Operator's Report of Well Work

Farm Name: REYNOLDS, C A Operator Well No.: REYNOLDS 1

LOCATION: Elevation: 720.00 Quadrangle: WILLOW ISLAND

District: WALKER County: WOOD
Latitude: 14200 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 4200 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: 06/19/91
Well work Commenced: 01/21/85
Well work Completed: 03/28/85
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 3526'
Fresh water depths (ft) 65

Salt water depths (ft) N/A

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			to surface
9-5/8"	206'	206'	
7"	1750'	1750'	184.5 c.f.
4-1/2"		3030'	142.8 c.f.

OPEN FLOW DATA

Producing formation Warren-Gordon 30 ft. Pay 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 4 Hours
Static rock Pressure 660 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, Agent
Date: 07/22/91

AUG 5 1991

Treated: 07/18/91

Warren - 2721' to 2844', 20 holes, 500 gal. 15% HCL, 800 MCFN₂
at 48 mpm, 10 perf balls

Gordon, 30 ft. Sand - 2196' to 2376', 20 holes, 500 gal 15% HCL,
1,000 MCFN₂ at 48 mpm, 15 perf balls

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
No Record	0	792
1st Salt Sand	792	850
2nd Salt Sand	910	944
3rd Salt Sand	1020	1070
Big Injun Squaw	1384	1552
Weir	1667	1686
Berea	1954	1958
Gantz	2056	2072
30 Foot Sand	2190	2220
Gordon	2340	2384
Warren	2700	3030

Note: Drill pipe stuck at 3526', twisted off. Left 16 collars in hole.
Tried to recover pipe, could not. Set 4-1/2" at 3030'

107-1350 F
Issued 06/19/91
Expires 06/19/93
Page of

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

4576

- 1) Well Operator: GasSearch Corporation - 19005 (9) 685
- 2) Operator's Well Number: Reynolds #1 3) Elevation: 720
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Warren ⁴²⁶
- 6) Proposed Total Depth: 3526' 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 /
- 11) Proposed Well Work: Stimulate existing well
- 12)

CASING AND TUBING PROGRAM

Well was never completed

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	9-5/8"			206'	206'	to surface
Fresh Water						
Coal						
Intermediate	7"			1750'	1750'	to surface
Production	4-1/2"	J-55	10.5		3030'	120 sacks
Tubing						
Liners						

See note

Spotted from Well Record

RECEIVED
Division of Energy

PACKERS : Kind None
Sizes None
Depths set

MAY 28 91

2518
15

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent
 (Type)

Page 1 of _____
Form WW2-A
(09/87)
File Copy

RECEIVED

Division of Energy 1)
MAY 28 91 2)
Permitting 3)
Oil and Gas Section

Date: 05/20/91
Operator's well number
Reynolds #1
API Well No: 47 - 107 - 1350 - frac
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name C.A. Reynolds
Address Route #1
Waverly, WV 26184
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
- Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Glen P. Robinson
Address Route #1
Belleville, WV 26133
Telephone (304)-863-8766

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
x 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:
X Personal Service (Affidavit attached)
____ Certified Mail (Postmarked postal receipt attached)
____ Publication (Notice of Publication attached)

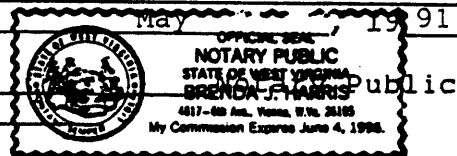
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and 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 Zuckoo
Its: Agent
Address 7845 Emerson Avenue
Parkersburg, WV 26101
Telephone (304) 464-4666

Subscribed and sworn before me this 20th day of May 1991

Brenda J. Harris
My commission expires June 4, 1996



FORM WW-2 (B) FILE COPY
RECEIVED
 SEP 29 1987



1) Date: September 11, 1987
 2) Operator's Well No. Reynolds # 1
 3) API Well No. 47 107 1350-FRAC
 State County Permit

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, 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: 720 Watershed: Bull Creek
 District: Walker 9 County: Wood 107 Quadrangle: Willow Island
- 6) WELL OPERATOR Cuyahoga Exp & DV CODE: 12125 7) DESIGNATED AGENT Roger Hunter
 Address Rte # 1 Address P.O. Box 1386
Marietta, Ohio 45750 Charleston, WV 25325
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Glen Robinson
 Address _____
- 9) DRILLING CONTRACTOR: Name _____
 Address _____
- 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, Gordon S.S.
- 12) Estimated depth of completed well, 3030 feet
- 13) Approximate trata depths: Fresh, 100 feet; salt, 1500 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		206'	206'	Back to Surface	Kinds
Fresh water									Sizes
Coal									
Intermediate	7"		20	X		1750'	1750'	185 CF	
Production	4 1/2"		10.5	X		3030'	3030'	143 CF	Depths set
Tubing									Perforations:
Lin...									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1350-FRAC Date September 29 19 87

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>232</u> <u>755</u>	WPCP: <input checked="" type="checkbox"/>	SAE: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
---	--	---	---	-------------------------------	---	--	--

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.



1) Date: November 21, 19 84
 2) Operator's Well No. Reynolds #1
 3) API Well No. 47 - 073 - 1938
 State County Permit
47-107-1350
 Corrected Permit Number

RECEIVED

NOV 29 1984

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 X / Gas X
 B (If "Gas", Production / Underground storage / Deep / Shallow X)
 5) LOCATION: Elevation: 720 Watershed: Bull Creek
 District: Jefferson Walker County: Pleasants Wood Quadrangle: Willow Island
 6) WELL OPERATOR Cuyahoga Exploration & Dev. 7) DESIGNATED AGENT Roger Hunter
 Address Route #1 Address P.O. Box 1386
Marietta, OH 45750 12125 Charleston, WV 25325
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name Not yet determined
 Address General Delivery Address
Middlebourne, WV 26149
 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation X /
 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 strata depths: Fresh, 100 feet; salt, 1,500 feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling		
Conductor	11 3/4		38	X		60'	60'	Kinds <u>CTS by rule</u> <u>15.05</u>
Fresh water	9 5/8		36	X		200'	200'	
Coal								Sizes
Intermediate	7		20	X		2500'	2500'	Depths set <u>as required by</u> <u>rule 10.01</u>
Production	4 1/2		10 1/2	X		5000'	5000'	
Tubing								Top Bottom
Liners								

OFFICE USE ONLY
 DRILLING PERMIT

Permit number ~~47-073-1938~~ 47-107-1350 Date January 21, 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 January 21, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>52</u>	<u>JD</u>	<u>MW</u>	<u>MW</u>	<u>1132</u>

Margaret J Hassi
 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