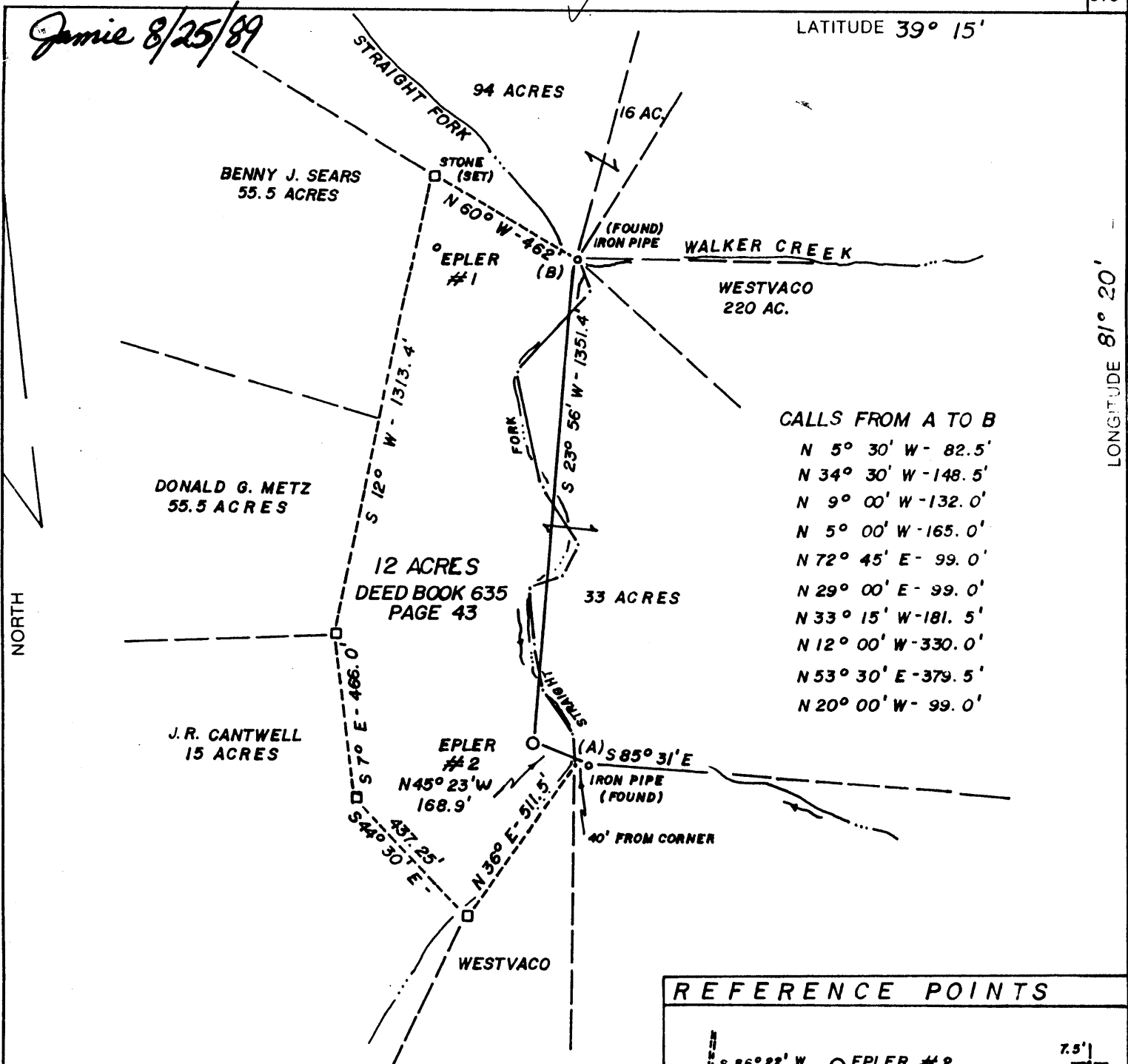


Jamie 8/25/89

LATITUDE 39° 15'

LONGITUDE 81° 20'

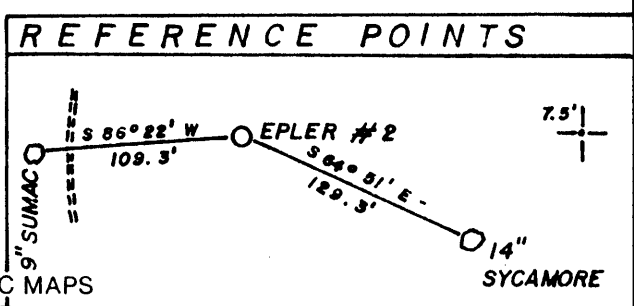


- CALLS FROM A TO B**
- N 5° 30' W - 82.5'
 - N 34° 30' W - 148.5'
 - N 9° 00' W - 132.0'
 - N 5° 00' W - 165.0'
 - N 72° 45' E - 99.0'
 - N 29° 00' E - 99.0'
 - N 33° 15' W - 181.5'
 - N 12° 00' W - 330.0'
 - N 53° 30' E - 379.5'
 - N 20° 00' W - 99.0'

(NO WELLS WITHIN 1200')

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BM 731'

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) Paul K. Marshall
 R.P.E. _____ L.L.S. 580



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE December 27 19 84
 OPERATOR'S WELL NO. Epler #2
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 676 WATERSHED WALKER CREEK
 DISTRICT WALKER COUNTY WOOD
 QUADRANGLE PETROLEUM 7.5'
 SURFACE OWNER WALTER, DALE, FRED EPLER & EVELYN WATERS ACREAGE 12 ACRES
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 12 ACRES

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 MARCELLUS ESTIMATED DEPTH 5000'
 WELL OPERATOR COASTAL CORPORATION DESIGNATED AGENT WILLIAM CARPENTER
 ADDRESS 3501 EMERSON AVENUE ADDRESS SAME
PARKERSBURG, WV 26101

SEP 30 1991

FORM IV-6 (8-78)

COUNTY NAME

PERMIT

Jamie 8/25/89

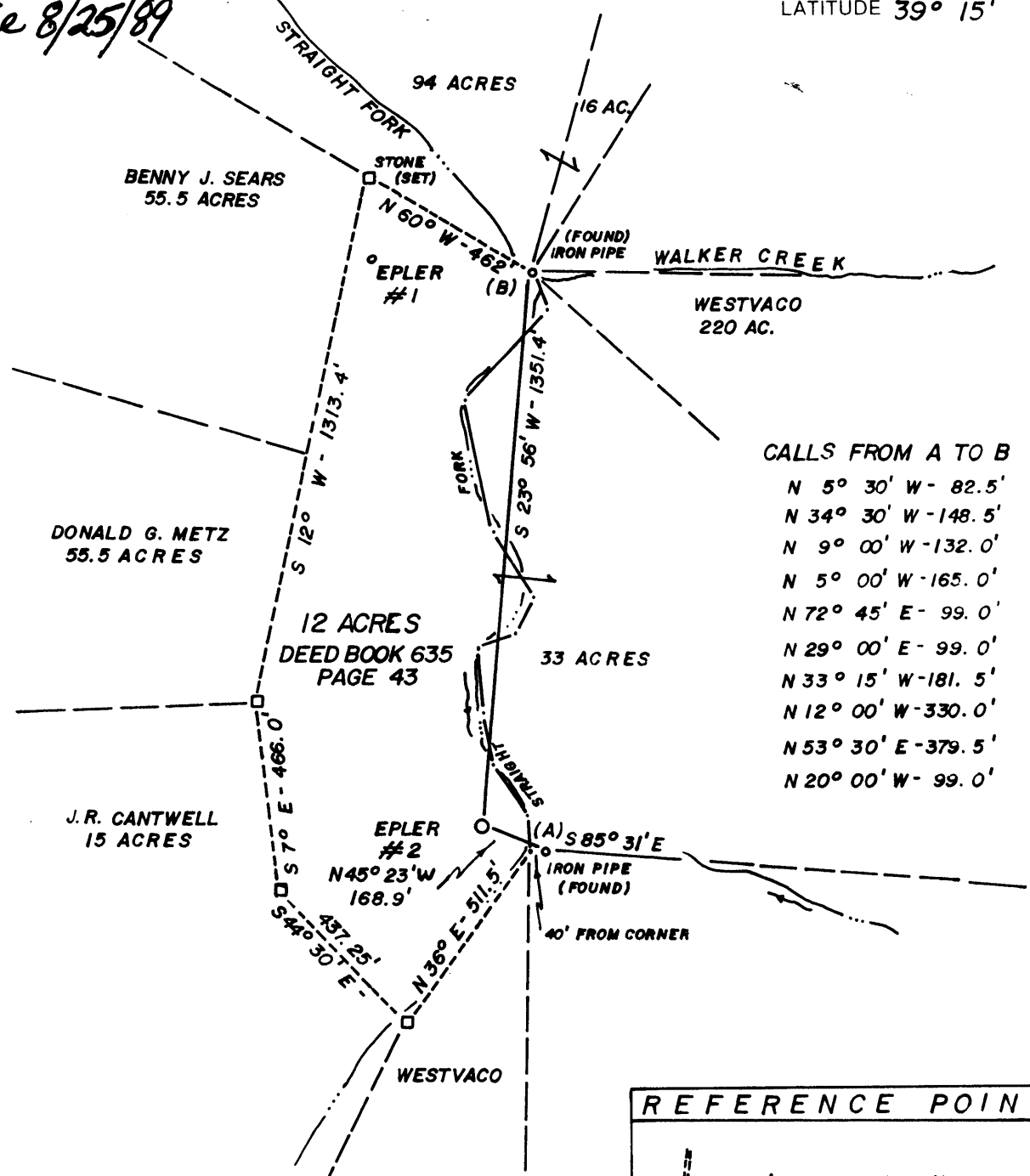
LATITUDE 39° 15'

570'

LONGITUDE 81° 20'

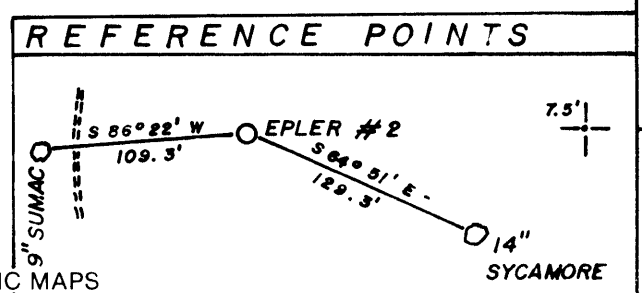
14,540'

NORTH



- CALLS FROM A TO B**
- N 5° 30' W - 82.5'
 - N 34° 30' W - 148.5'
 - N 9° 00' W - 132.0'
 - N 5° 00' W - 165.0'
 - N 72° 45' E - 99.0'
 - N 29° 00' E - 99.0'
 - N 33° 15' W - 181.5'
 - N 12° 00' W - 330.0'
 - N 53° 30' E - 379.5'
 - N 20° 00' W - 99.0'

(NO WELLS WITHIN 1200')



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BM 731'

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 (SIGNED) Paul K. Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE December 27, 19 84
 OPERATOR'S WELL NO. Epler #2
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 676' WATERSHED WALKER CREEK
 DISTRICT WALKER COUNTY WOOD
 QUADRANGLE PETROLEUM 7.5'
 SURFACE OWNER WALTER, DALE, FRED EPLER & EVELYN WATERS ACREAGE 12 ACRES
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 12 ACRES

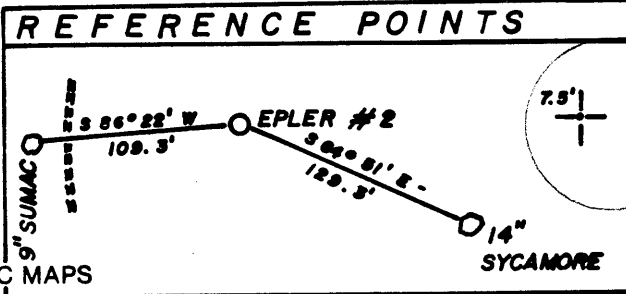
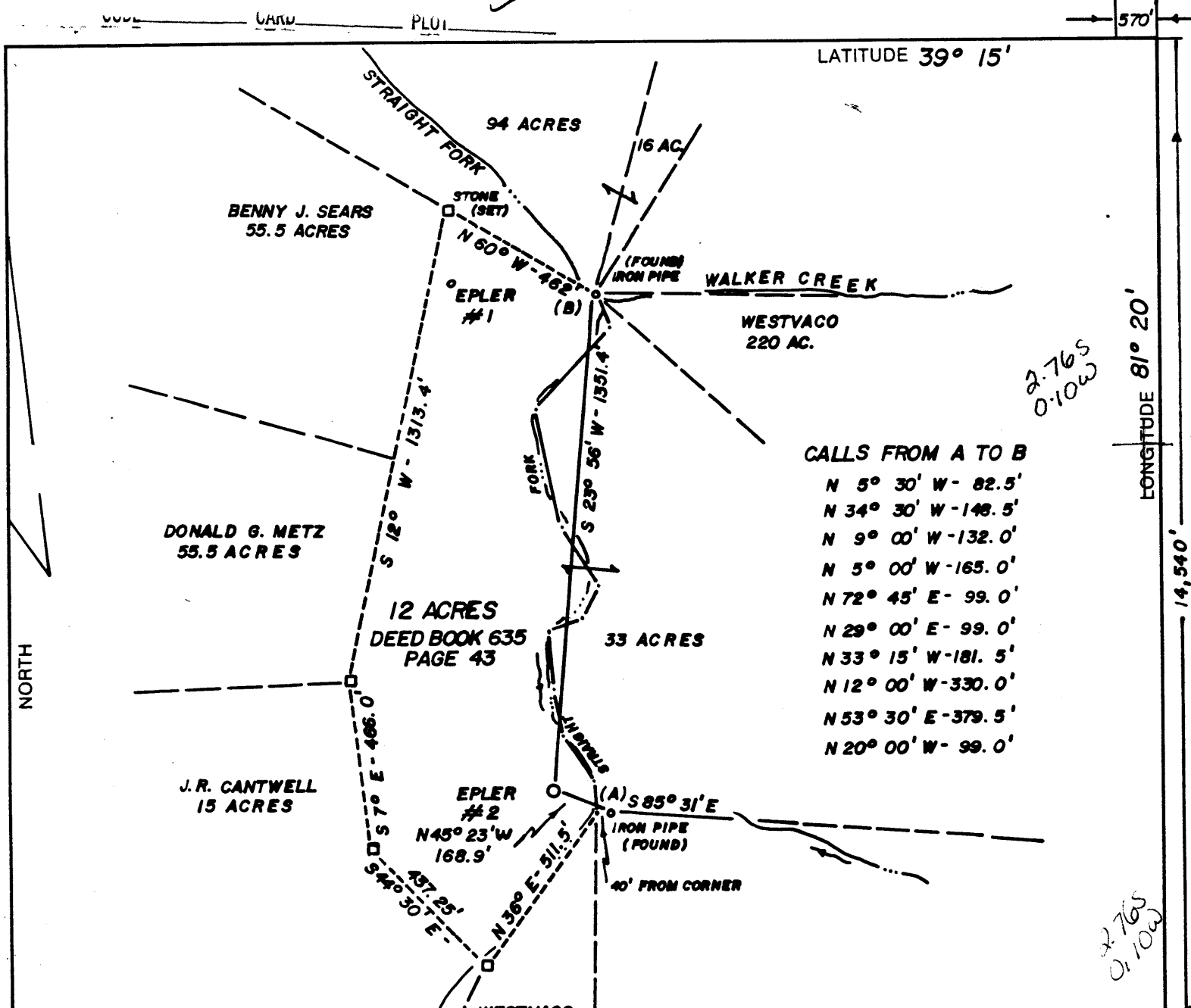
PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 5000'
 WELL OPERATOR COASTAL CORPORATION DESIGNATED AGENT WILLIAM CARPENTER
 ADDRESS 3501 EMERSON AVENUE ADDRESS SAME
PARKERSBURG, WV 26101

SEP 1 1989

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT



(NO WELLS WITHIN 1200')

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BM 731'

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) Paul K. Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE December 27, 1984
 OPERATOR'S WELL NO. Epler #2
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 676 WATER SHED WALKER CREEK
 DISTRICT WALKER 9 COUNTY WOOD
 QUADRANGLE PETROLEUM 7.5' 544 Elizabeth 15' 0.36 Nc 2
 SURFACE OWNER WALTER, DALE, FRED EPLER & EVELYN WATERS ACREAGE 12 ACRES
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 12 ACRES

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 MARCELLUS ESTIMATED DEPTH 5000'
 WELL OPERATOR COASTAL CORPORATION DESIGNATED AGENT WILLIAM CARPENTER
 ADDRESS 3501 EMERSON AVENUE ADDRESS SAME
105 PARKERSBURG, WV 26101

APR 01 1985

FORM IV-6 (8-78)

COUNTY NAME PERMIT



IV-35
(Rev 8-

RECEIVED
MAY 2 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date 5/13/85
Operator's Well No. #2
Farm Epler
API No. 47 -107 - 1364

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

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

LOCATION: Elevation: 676 Watershed Walker Creek
District: Walker County Wood Quadrangle Petroleum

COMPANY The Coastal Corporation
ADDRESS 3501 Emerson Ave., #4B
DESIGNATED AGENT William E. Carpenter
ADDRESS 3501 Emerson Ave., #4B
SURFACE OWNER Fred Epler
ADDRESS 517 Ellis Ave., Parkersburg, WV
MINERAL RIGHTS OWNER Fred Epler
ADDRESS 517 Ellis Ave., Parkersburg, WV
OIL AND GAS INSPECTOR FOR THIS WORK
Glen Robinson ADDRESS Mineral Wells, WV
PERMIT ISSUED _____
DRILLING COMMENCED 3/29/85
DRILLING COMPLETED 4/5/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	30	none
9 5/8	252	252	94
8 5/8			
7	1861	1861	59
5 1/2			
4 1/2	4864	4864	336
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4800 feet
Depth of completed well 4864 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 105 feet; Salt 1650 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 3554-4830 feet
Gas: Initial open flow 750 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 346 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 1025 psig (surface measurement) after 24 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

(Continue on reverse side)

JUN 0 2 1985

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

The Epler #2 was fractured in three stages from ^{Huron → Rhinestreet} 3554-4830. Each stage consisted of 550,000 scf and treated acid was used for break-down.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock, Sand, Shale			surface	1438	
Maxon			1438	1463	
Shale			1463	1600	
Big Lime			1600	1629	
Shale			1629	1745	
Big Injun			1745	1750	
Shale			1750	1767	
Squaw			1767	2161	
Shale			2161	2165	
Berea			2165	2272	
Shale			2272	2278	
Fifty Foot			2278	2399	
Shale			2399	2426	
Thirty Foot			2426	2544	
Shale			2544	2568	
Gordon			2568	3051	
Shale			3051	3062	
Warren			3062	3428	
Shale			3428	3462	
Speechley			3462	4274	
Shale			4274	4298	
Riley			4298	4474	
Shale			4474	4477	
Benson			4477	4789	
Shale			4789	4833	

TD. 4864
Rhinestreet
@TD

4684
676
4008
3500
508

2500
676
4176

2272
2312

(Epler ftg 376-)

(Attach separate sheets as necessary)

The Coastal Corporation

Well Operator

By: William E. Carpenter
Date: 5/12/85

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



1) Date December 27, 19 84
2) Operator's Well No. Epler #2
3) API Well No. 47 = 107 - 1364
State County Permit

RECEIVED
MAR 25 1985

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

- OIL & GAS DIVISION
DEPT. OF MINES
- WELL TYPE: A X / Gas X
B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 676' Watershed: Walker Creek
District: Walker County: Wood Quadrangle: Petroleum 7.5'
- 6) WELL OPERATOR Coastal Corporation 7) DESIGNATED AGENT William Carpenter
Address 3501 Emerson Avenue Address Same
Parkersburg, W.V. 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
Name Glen P. Robinson Name Coastal Corporation
Address Route 1, #6 Mt. Pleasant Estate Address See Above
Mineral Wells, W.V. 26150
- 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, Marcellus
- 12) Estimated depth of completed well, 5000' feet
- 13) Approximate strata depths: Fresh, 140' feet; salt, _____ feet.
- 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No X /
- 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		Kinds	Depths
Conductor										
Fresh water	<u>9 5/8"</u>			<u>X</u>			<u>250'</u>	<u>CTS</u>		<u>By Rule 15.05</u>
Coal										<u>Sizes</u>
Intermediate	<u>7"</u>			<u>X</u>			<u>1750'</u>			<u>By Rule 15.01</u>
Production	<u>4 1/2"</u>			<u>X</u>			<u>5000' 500</u>	<u>sacks or by</u>		<u>Depths set</u>
Tubing								<u>Rule 15-03</u>		
Liners										<u>Perforations:</u>
										<u>Top Bottom</u>

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-107-1364 Date March 25, 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 25, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>40</u>	<u>SW</u>	<u>Int.</u>	<u>Int.</u>	<u>1085</u>

James Tephahob
Administrator, Office of Oil and Gas

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