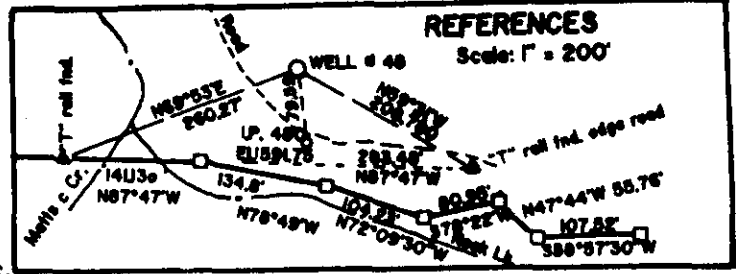


10130'

LATITUDE 37° 55'

COORDINATES		
POINT	NORTH	EAST
BRWIND 48	588360.08	3204189.83
PC 82	588677.48	3204368.78
WELL 1319	588559.74	3203106.44
WELL 1462	588524.28	3201890.99
T Rail 2117K	588270.83	3203948.46
T Rail 2117J	588254.16	3204368.78

NOTES: Coordinates based on Peabody coordinate system.

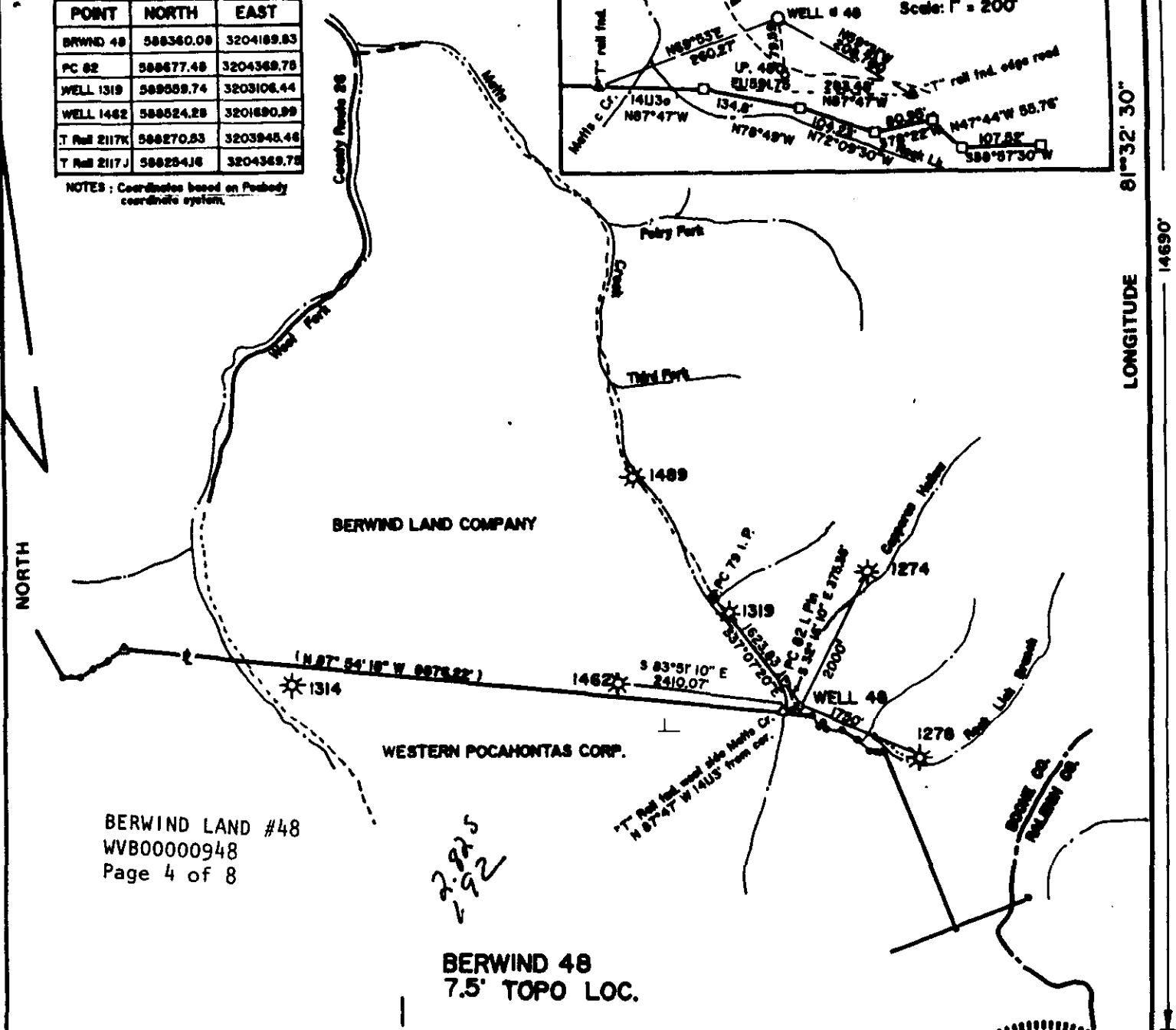


81°32'30\"

LONGITUDE

14690'

NORTH



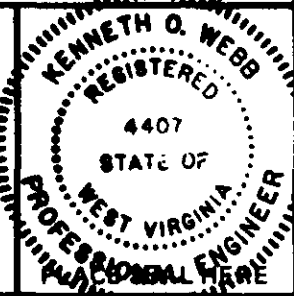
BERWIND LAND #48
WVB00000948
Page 4 of 8

*2.925
1.92*

BERWIND 48
7.5' TOPO LOC.

FILE NO. 92 - 07
 DRAWING NO. _____
 SCALE $\Gamma = 2000'$
 MINIMUM DEGREE OF ACCURACY $\frac{1}{5000}$
 PROVEN SOURCE OF ELEVATION Peabody Coal I. Pln PC 79
 Elev. 1520.7

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) *Kenneth O. Webb*
 R.P.E. WV 4407 L.L.S. _____



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



DATE FEBRUARY 28, 19 92
 OPERATOR'S WELL NO. BERWIND 48
 API WELL NO. WV800 000948
47 - 005 - 1577
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1590.6 WATER SHED MATTS CREEK
 DISTRICT CROOK COUNTY BOONE
 QUADRANGLE WHITESVILLE

SURFACE OWNER BERWIND LAND COMPANY Tract 28 ACREAGE 1151 AC. OF 8044 AC.
 OIL & GAS ROYALTY OWNER BERWIND LAND COMPANY LEASE ACREAGE 8044 AC.
 LEASE NO. WV 02189-0

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 LOWER WEIR ESTIMATED DEPTH 3402'
 WELL OPERATOR EASTERN AMERICAN ENERGY CORP DESIGNATED AGENT JOHN M. PALETTI
 ADDRESS BOX N 257 ADDRESS 601 86TH STREET
GLENVILLE, WEST VIRGINIA CHARLESTON, WEST VIRGINIA

H. T. HALL

207

1013

RECEIVED
 WV Division of
 Environmental Protection

DEC 15 1994

Permitting
 Office of Oil & Gas

07-Jan-93
 API # 47- 5-01577

State of West Virginia
 Division of Environmental Protection
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: BERWIND LAND COMPANY Operator Well No.: BERWIND LAND#48

LOCATION: Elevation: 1590.60 Quadrangle: WHITESVILLE

District: CROOK County: BOONE
 Latitude: 14690 Feet South of 37 Deg. 55Min. 0 Sec.
 Longitude 10130 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C
 P. O. BOX N
 GLENVILLE, WV 26351-0000

Agent: DONALD C. SUPCOE

Inspector: RICHARD CAMPBELL
 Permit Issued: 01/06/93
 Well work Commenced: 11-04-94
 Well work Completed: 11-13-94
 Verbal Plugging
 Permission granted on: _____
 Rotary x Cable Rig
 Total Depth (feet) 3404'
 Fresh water depths (ft) 110', 123'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? Y
 Coal Depths (ft): 70'-73', 155'-157', 223'-
 225', 228'-233' open, 358'-360' open, 398'-
 403' open, 600'-604'
 OPEN FLOW DATA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9-5/8"	673'	673'	CTS 290SXS
7"	1501'	1501'	CTS 260SXS
4-1/2"	-----	3320'	125SXS

Producing formation Lower Weir, Upper Weir Pay zone depth (ft) 3078'-3241.5'
 Gas: Initial open flow 1,299 MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 1,299 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests 15 Hours
 Static rock Pressure 420 psig (surface pressure) after 24 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: EASTERN AMERICAN ENERGY CORP.
 By: _____
 Date: December 13, 1994

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

One Stage Frac

Lower Weir/Upper Weir; 18 holes (3078'-3241.4'). Fraced w/energized water, 30 lbs. gel/1000 gals, 50,000 lbs of 20/40 sand, 500 gals of 15% HCl acid and 120,000 scf of N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
RIVER ROCK & FILL			0	30	1/2" H2O @ 100'
SAND			30	70	2" H2O @ 123'
COAL			70	73	
SANDY SHALE			73	80	
SAND & SHALE			80	123	GAS CHECKS
SANDY SHALE			123	146	961'-NO SHOW
SAND			146	155	1149'-NO SHOW
COAL			155	157	1338'-NO SHOW
SANDY SHALE			157	223	1500'-NO SHOW
COAL			223	225	1643'-2/10 = 1" w/h20
SANDY SHALE			225	228	1795'-2/10 = 1" w/h20
OPEN HOLE			228	233	2016'-70/10 = 2" w/h20
SAND & SANDY SHALE			233	358	2238'-65/10 = 2" w/h20
OPEN HOLE			358	360	2491'-70/10 = 2" w/h20
SAND			360	398	2712'-70/10 = 2" w/h20
OPEN HOLE			398	403	2901'-70/10 = 2" w/h20
SAND			403	600	3059'-70/10 = 2" w/h20
COAL			600	604	3342'-68/10 = 2" w/h20
SANDY SHALE			604	940	DC-50/10 = 2" w/h20
SAND			940	995	
SHALE			995	1024	
SALT SAND			1024	1603	
SAND & SHALE			1603	2007	
AVIS LIMESTONE			2007	2065	
MAXTON INTERVAL			2065	2491	
SANDY SHALE			2491	2530	
SHALE			2530	2558	
LITTLE LIME			2558	2656	
BIG LIME			2656	2981	
BIG INJUN			2981	3042	
SANDY SHALE			3042	3111	
UPPER WEIR			3111	3127	
SANDY SHALE			3127	3260	
LOWER WEIR			3260	3275	
SHALE			3275	3406	
			TOTAL DEPTH	3406	

(Attach separate sheets as necessary)

JUN 1 1985

1) Date: December 16, 1992
2) Operator's well number
Berwind Land #48 WVB00000948
3) API Well No: 47 - 005 - 1577
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 Berwind Land Company
Address 1050 One Valley Square
Charleston, WV 25301
~~XXXXXXXXXX~~ Attn: Ray Brainard
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name Eastern Associated Coal Company
Address 800 Laidley Tower
Charleston, WV 25301
(b) Coal Owner(s) with Declaration
Name Berwind Land Company
Address 1050 One Valley Square
Charleston, WV 25301
~~XXXXXXXXXX~~ Attn: Ray Brainard
Address _____

6) Inspector Richard S. Campbell
Address P.O. Box 168
Hamlin, WV 25523
Telephone (304)-824-5828

(c) Coal Lessee with Declaration
Name Eastern Associated Coal Company
Address 800 Laidley Tower
Charleston, WV 25301

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 XXX 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 8 on the above named parties, by:

- Personal Service (Affidavit attached)
- ~~XXXX~~ 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 EASTERN AMERICAN ENERGY CORPORATION
By: John M. Paletti - John M. Paletti
Its: Designated Agent
Address 501 56th Street
Charleston, WV 25304
Telephone (304)925-6100

Subscribed and sworn before me this 16th day of December, 1992

Ange Williams Notary Public
My commission expires November 26, 1996

- DEC 16 92
 Well Operator: Eastern American Energy Corporation
 Permitting
 Well Operator's Well Number: Berwind Land #48 3) Elevation: 1590.6'
 Issued 01/06/93
 Expires 01/06/95
- 4) Well type: (a) Oil___/ or GasXX/
 (b) If Gas: ProductionXX/ Underground Storage___/
 Deep___/ ShallowXX/
- 5) Proposed Target Formation(s): Lower Weir
- 6) Proposed Total Depth: 3402 feet
- 7) Approximate fresh water strata depths: 278', 402', 463', 533'
- 8) Approximate salt water depths: 1304', 1512', 2230'
- 9) Approximate coal seam depths: 26'-30', 69'-72', 156'-159', 202'-206'
 (POSSIBLE OPEN SHAFT), 239'-243', 347'-350', 463'-466', 611'-614'
- 10) Does land contain coal seams tributary to active mine? Yes___/ No XX/
- 11) Proposed Well Work: Drill and complete new well.
- 12) Deepest Red Rock: None listed.
- 13) Offsets: Boo-1274, 1278, 1319, 1462, 1480, 1485.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	F-25	32.0	40'		C.S.
Fresh Water <i>Coal</i>	8-5/8"	F-25	20.0	664'	664'	C.T.S. 38CSR18-11.3 38CSR18-11.2.2
Coal	9-5/8"	F-25	26.0			C.T.S.
Intermediate	*7"	" H-40	17.0			C.T. 9-5/8"
Production	4-1/2"	J-55	10.5	3,317	3,317	38CSR18-11.1
Tubing						
Liners						

16567

* OPTIONAL: Based upon coal or water being encountered below the 9-5/8" casing.

PACKERS: Kind _____
 Sizes _____
 Depths set _____

11/6/2
 49

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)

JSR/kd