



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

FILE No 9614-4  
 DRAWING No. EREC WVC 3585  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 2500  
 PROVEN SOURCE OF ELEVATION USGS BM 151 RHP.  
1959, EL. 2156

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) [Signature] R.P.S.

R.P.E. \_\_\_\_\_ R.P.S. 646

WILLIAM J. WHITMAN  
 REGISTERED  
 No. 646  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL SURVEYOR

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE AUGUST 7 19 96  
 OPERATOR'S WELL No. WVC 3585  
 API WELL No. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1817.06 WATER SHED OZLEY BRANCH OF DRY FORK  
 DISTRICT SANDY RIVER COUNTY McDOWELL  
 QUADRANGLE BRADSHAW, W. VA. - VA.

SURFACE OWNER POCAHONTAS LAND CO. TRACT 118 ACREAGE 190.22  
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CO. LEASE ACREAGE 15,379.43  
 LEASE No. 497880L

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 6-6 383

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_

TARGET FORMATION PENNSYLVANIAN COAL ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQUITABLE RESOURCES ENERGY CO. DESIGNATED AGENT DAVID DEAN  
 ADDRESS 1989 EAST STONE DR. ADDRESS P.O. DRAWER 40  
KINGSPORT, TN 37660 BUCHANNON, WV 26201

SEP 06 1996

MA 10097

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

Office of Oil and Gas Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND COMPANY Operator Well No.: WVC 3585

LOCATION: Elevation: 1,817.06 Quadrangle: BRADSHAW

District: SANDY RIVER County: MCDOWELL  
Latitude: 4600 Feet South of 37 Deg. 22Min. 30 Sec.  
Longitude 8900 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: EQUITABLE RESOURCES EXP.  
1989 E. STONE DR., P.O. BOX 1983  
KINGSPORT, TN 37662-1983

Agent: DAVID A. DEAN

Inspector: OFIE HELMICK  
Permit Issued: 09/04/96  
Well work Commenced: 9/29/96  
Well work Completed: 10/18/96  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable Rig  
Total Depth (feet) LTD=1731 DTD=1727  
Fresh water depths (ft) 56'/1140'

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8	24	24	
8 5/8	319	319	179
4 1/2	1688	1688	459
2 3/8	1616.95	1616.95	
2 5/8	1611.1	1611.1	

OPEN FLOW DATA

Producing formation COAL SEAMS\* Pay zone depth (ft) 824-5-1507.  
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 37 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 90 psig (surface pressure) after 48 Hours

\* BECKELY, FIRE CREEK, POCO #5, POCO #3, POCO #2, POCO #1

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 WELLS.

For: THOMAS H. BLAKE EQUITABLE RESOURCES EXP. INC.

By: THOMAS H. BLAKE

Date: 2/27/97

WVCP3585  
API # 47-047-01280 C

Perfs: Size & Type .34 12 ga Goex

Number 17

Spacing	824.5 -	826.5 (4H)
	965 -	968 (5H)
	1294 -	1294.5 (2H)
	1421.5 -	1423 (3H)
	1443 -	1443.5 (2H)

Fractured 10/18/96 by Dowell Schlumberger

70Q LE Foam Frac of Multiple Coal Seams; BKDN 1555#; Ballout w/ 700 gal  
7.5% Hcl; Rec 30 Balls w/ 15 hits; Inj Test 24.5 BPM @ 3364#, ISIP 1705#, F.G.  
= 2.19; ATP 3650#, ATR 48 BPM (min 30 & max 63 BPM), ISIP 1140#, 1 min  
SIP 1112#, & 5 min 1066#, VOL: 731 BF, 30246# 12/20 sd, N2=1129000 SCF -  
ARO 25793 SCFM

Formations	From	To	Thickness
Sand, Shale & Thin Coals	0	526	526
Sewell A	526	527	1
Sand, Shale & Thin Coals	527	646	119
Welch	646	648	2
Sand, Shale & Thin Coals	648	824	176
Beckley	824	828	4
Sand, Shale & Thin Coals	828	964	136
Fire Creek	964	968	4
Sand, Shale & Thin Coals	968	1292	324
Poco #5	1292	1294	2
Sand, Shale & Thin Coals	1294	1420	126
Poco #3	1420	1423	3
Sand, Shale & Thin Coals	1423	1442	19
Poco #2	1442	1443	1
Sand, Shale & Thin Coals	1443	1507	64
Poco #1	1507	1509	2
Sand, Shale & Thin Coals	1509	1727	218

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
Office of Oil & Gas  
WELL WORK PERMIT APPLICATION

16155 (6) 261

- 1) Well Operator: Equitable Resources Energy Company - Eastern Region
- 2) Operator's Well Number: WVC 3585 3) Elevation: 1817.06
- Well type: (a) Oil / or Gas X CBM Issued 09/04/96  
Expired 09/04/98  
(b) If Gas: Production X / Underground Storage /  
Deep / Shallow X Bradshaw 751  
3.75, 3.97  
= negr  
= ec
- Proposed Target Formation(s): Pennsylvanian Coal 998
- Proposed Total Depth: 1680 feet
- Approximate fresh water strata depths: 153'
- 8) Approximate salt water depths: Unknown
- 9) Approximate coal seam depths: See Attached Drilling Prognosis
- 10) Does land contain coal seams tributary to active mine? Yes / No X
- 11) Proposed Well Work: Drill - Stimulate - Complete
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 7/4	B	35	38'	38'	Drive Pipe
Fresh Water	8 5/8	M50	20	300'	300'	To surface 76 ft <sup>3</sup>
Coal						
Intermediate						
Production	4 1/2	M65	9.5	-	1660'	To surface 200 ft <sup>3</sup>
Tubing	2 3/8	M50	4.6	-	1630'	NA
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Office of Oil and Gas Use Only

5473/28

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

(Type)

RECEIVED  
Division of  
Environmental Protection  
AUG 29 1996  
Permitting  
Office of Oil & Gas

Page 1 of \_\_\_\_\_  
Form WW2-A  
(6/94)  
File Copy

1) Date: August 26, 1996  
2) Operator's well number  
WVC-3585  
3) API Well No: 47 - 047 - 1280-C  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Pocahontas Land Corp.  
Address P.O. Box 1517  
Bluefield, WV 24701  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mr. Ofie Helmic  
Address P.O. Box 398  
Brenton, WV 24818  
Telephone (304) - 543-0764

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Pocahontas Land Corp.  
Address P.O. Box 1517  
Bluefield, WV 24701  
Name Coal Lessee-Alpine Development  
Address P.O. Box 303  
Welch, WV 24801  
(c) Coal Lessee with Declaration  
Name B & D Chickapen Coal Co.  
Address P.O. Box 282  
Raysal, WV 24879

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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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 Equitable Resources Energy Co, Eastern Region  
By: Michael P. Jankowski  
Its: Manager - Drilling & Production  
Address 1989 East Stone Drive, P.O. Box 1983  
Kingsport, Tennessee 37662-1983  
Telephone (423) 224-3800

Subscribed and sworn before me this 26<sup>th</sup> day of August, 1996

My commission expires May 31, 1997  
Donald A. Peter Notary Public