



WELL COORDINATES
W. VA. STATE PLANE
N 131957.6194
E 1759492.2979

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

FILE No 9614-1
DRAWING No. EREC WVC 3586
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) William J. Whitman R.P.S.
R.P.E. _____ R.P.S. 646



PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE AUGUST 7 19 96
OPERATOR'S WELL No. WVC 3586
API WELL No. _____

WELL TYPE: OIL ___ GAS CEM LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE 47 COUNTY 047 PERMIT 01281-C

LOCATION: ELEVATION 1961.84 WATER SHED WOOLEY BRANCH OF DRY FORK
DISTRICT SANDY RIVER COUNTY McDOWELL
QUADRANGLE BRADSHAW, W. VA. - VA.

SURFACE OWNER POCAHONTAS LAND CO. ACREAGE 232
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 1800 BUCHANNON, WV 26201

SEP 04 1996

MAR 10 1997 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 3586

LOCATION: Elevation: 1,981.84 Quadrangle: BRADSHAW

District: SANDY RIVER County: MCDOWELL
Latitude: 5950 Feet South of 37 Deg. 22Min. 30 Sec.
Longitude 10200 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: 10/03/96
Well work Completed: 10/17/96
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) LTD=1845 DTD=1855
Fresh water depths (ft) _____ N/A
Salt water depths (ft) _____ N/A

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 13 3/8 | 24 | 24 | |
| 8 5/8 | 619.55 | 619.55 | 342 |
| 4 1/2 | 1800 | 1800 | 478 |
| 2 3/8 | 1773.85 | 1773.85 | |
| 5/8 RODS | 1771 | 1771 | |

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

OPEN FLOW DATA

Producing formation COAL SEAMS* Pay zone depth (ft) 1001-1659
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 24 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure 100 psig (surface pressure) after 48 Hours

* BECKLEY, FIRE CREEK, POCO #7, 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 WELLBORE.


For: EQUITABLE RESOURCES EXP. INC.

By: THOMAS H. BLAKE
Date: 2/22/97

MAR 14 1997

WVCP3586
 API # 47-047-01281 C

Perfs: Size & Type .34 12 ga Goex

Number 18

| | | | | |
|---------|--------|---|--------|------|
| Spacing | 1001 | - | 1002.5 | (4H) |
| | 1119.5 | - | 1121.5 | (4H) |
| | 1369.5 | - | 1370 | (2H) |
| | 1447.5 | - | 1448 | (2H) |
| | 1575.5 | - | 1576 | (2H) |
| | 1600.5 | - | 1601.5 | (2H) |
| | 1659 | - | 1659.5 | (2H) |

Fractured 10/17/96 by Dowell Schlumberger

70Q LE Foam Frac of Multiple Coal Seams; BKDN 1735#; Ballout w/ 700 gal
 7.5% Hcl; Rec 32 Balls w/ 17 hits; Inj Test 23.2 BPM @ 3344#, ISIP 1433#, F.G.
 = 1.48; ATP 3814#, ATR 41 BPM (min 30 & max 50 BPM), ISIP 15030, 1 min
 SIP 915#, & 5 min 892#, VOL: 808 BF, 30527# 12/20 sd, N2=1175200 SCF -
 ARO 20006 SCFM

| Formations | From | To | Thickness |
|--------------------------|------|------|-----------|
| Sand, Shale & Thin Coals | 0 | 804 | 804 |
| Welch | 804 | 806 | 2 |
| Sand, Shale & Thin Coals | 806 | 1000 | 194 |
| Beckley | 1000 | 1004 | 4 |
| Sand, Shale & Thin Coals | 1004 | 1128 | 124 |
| Fire Creek | 1128 | 1132 | 4 |
| Sand, Shale & Thin Coals | 1132 | 1369 | 237 |
| Poco #7 | 1369 | 1371 | 2 |
| Sand, Shale & Thin Coals | 1371 | 1446 | 75 |
| Poco #5 | 1446 | 1448 | 2 |
| Sand, Shale & Thin Coals | 1448 | 1574 | 126 |
| Poco #3 | 1574 | 1577 | 3 |
| Sand, Shale & Thin Coals | 1577 | 1600 | 23 |
| Poco #2 | 1600 | 1602 | 2 |
| Sand, Shale & Thin Coals | 1602 | 1659 | 57 |
| Poco #1 | 1659 | 1661 | 2 |
| Sand, Shale & Thin Coals | 1661 | 1845 | 184 |

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

AUG 29 1996

Permitting
 Office of Oil & Gas

16155 (6) 261

- 1) Well Operator: Equitable Resources Energy Company ¹⁸⁰⁰
- 2) Operator's Well Number: WVC 3586 3) Elevation: 1981.54
- Well type: (a) oil / or Gas / CBM Issued 09/04/96
 Expires 09/04/98
- (b) If Gas: Production X / Underground Storage /
 Deep / Shallow X ^{Emshaw}
- Proposed Target Formation(s): Pennsylvanian Coals ⁹⁹⁸ 2,02,4,22
- Proposed Total Depth: 1835 feet
- Approximate fresh water strata depths: 250'
- 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 3/4 | B | 35 | 38' | 38' | Drive Pipe |
| Fresh Water | 8 5/8 | M50 | 20 | 300' | 300' | Surface 76 ft ³ |
| Coal | | | | 600' | 600' | |
| Intermediate | | | | | | |
| Production | 4 1/2 | M65 | 9.5 | - | 1835 | Surface 220 ft ³ |
| Tubing | 2 3/8 | M50 | 4.6 | - | 1800 | NA |
| Liners | | | | | | |

PACKERS : Kind
 Sizes
 Depths set

For Office of Oil and Gas Use Only

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

597/26

AUG 29 1996

Permitting
Office of Oil & Gas

1) Date: August 26, 1996
2) Operator's well number WVC-3586
3) API Well No: 47 - 047 - 1281-C
State County Permit

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

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 Helmig
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

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)

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. Parkhi

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 26th day of August, 1996

My commission expires May 31, 1997 James O. Beard Notary Public