

*Janie
9/4/96*

7.5" LOC.

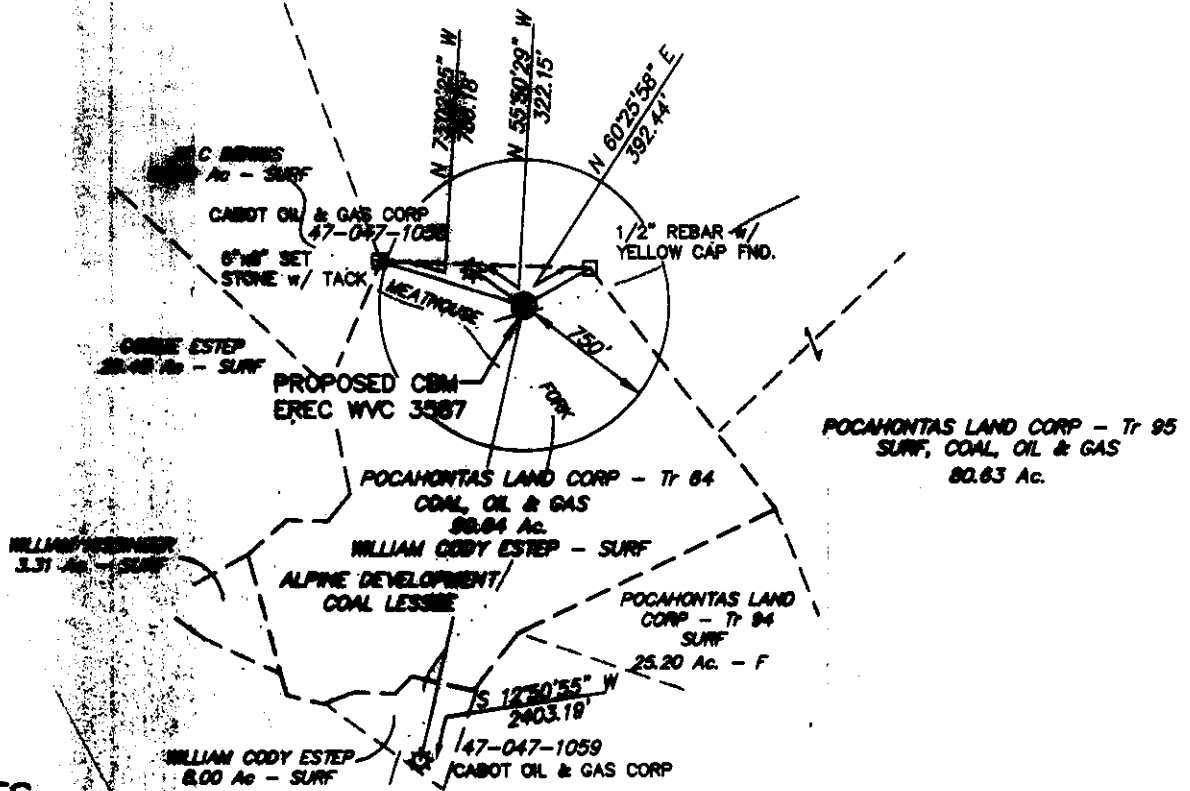
0.015
1.6 (W)

LATITUDE 37° 22' 30"

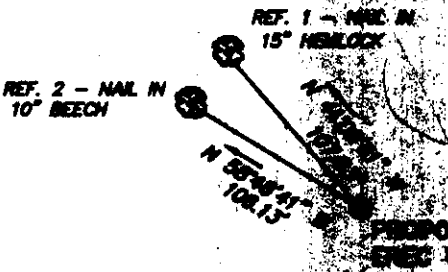
LONGITUDE 81° 50' 00"

POCAHONTAS LAND CORP - Tr 63
SURF, COAL, OIL & GAS
113.4 Ac.
ALPINE DEVELOPMENT - COAL LESSEE

NORTH



REFERENCES



POCAHONTAS LAND CORP.
Tr 87 - SURF
295.92 Ac.

WELL COORDINATES
W. VA. STATE PLANE

N 137660.7734
E 1749578.3710

NOTE: NO POSSIBLE WATER SOURCES LOCATED
WITHIN 1000' OF PROPOSED LOCATION.

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

FILE No 9614-2
DRAWING No. EREC WVC 3587
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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE
DEPARTMENT OF MINES
(SIGNED) William J. Whitman
R.P.E. R.P.S. 646



PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE AUGUST 22 19 96
OPERATOR'S WELL No. WVC 3587
API WELL No.

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL STATE 47 COUNTY 047 PERMIT 01282-C
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1493.91 WATER SHED MEATHOUSE FORK OF PANTHER CREEK
DISTRICT SANDY RIVER COUNTY McDOWELL
QUADRANGLE BRADSHAW, W. VA. - VA.

SURFACE OWNER WILLIAM CODY ESTEP ACREAGE 90.64
OIL & GAS ROYALTY OWNER POCAHONTAS LAND CO. LEASE ACREAGE 15,397.43
LEASE No. 497880L

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 1-7 383

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION PENNSYLVANIAN COAL ESTIMATED DEPTH SEP 6 1996
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

Enviro

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

MAR

Well Operator's Report of Well Work

Farm Name: ESTEP, WILLIAM CODY Operator Well No.: WVC 3587

LOCATION: Elevation: 1,493.91 Quadrangle: BRADSHAW

District: SANDY RIVER County: MCDOWELL
Latitude: 50 Feet South of 37 Deg. 22Min. 30 Sec.
Longitude 8500 Feet West of 81 Deg. 50 Min. 0 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: 09/21/96
Well work Completed: 09/24/96
Verbal Plugging
Permission granted on:
Rotary x Cable Rig
Total Depth (feet) LTD=1685 DTD=1683
Fresh water depths (ft) 71'/105'/1026'

Salt water depths (ft) N/A

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

Size	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8		34	34	
8 5/8		320	320	196
4 1/2		1601	1601	474
2 3/8		1461	1461	
5/8 RODS		1454	1454	

OPEN FLOW DATA

Producing formation COAL SEAMS Pay zone depth (ft) 848-1396
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow 42 MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure 160 psig (surface pressure) after 48 Hours
 * SEWELL "B", WELCH, LITTLE RALEIGH, BECKLEY, FIRECREEK, POCO #9, POCO #5, POCO #4, & POCO #3
 Second producing formation POCO #3 Pay zone depth (ft) POCO #3
 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.

Thomas H. Blake
For: EQUITABLE RESOURCES EXP. INC.

By: THOMAS H. BLAKE

Date: 2/27/97

MAR 14 1997

WVCP3587
API # 47-047-01282 C

Perfs: Size & Type .34 12 ga Goex

Number 16

Spacing	848	-	848.5	(2H)
	997.5	-	999	(4H)
	1049.5	-	1050	(2H)
	1287.5	-	1288.5	(3H)
	1359	-	1359	(1H)
	1394.5	-	1396	(4H)

Fractured 10/11/96 by Dowell Schlumberger

70Q LE Foam Frac of Multiple Coal Seams; BKDN 2740#; Ballout w/ 700 gal
7.5% Hcl; Rec 32 Balls w/ 16 hits; ATP 3836#, ATR 16.4 BPM, Max press
4056#, ISIP 1319, 1 min SIP 1318#, & 5 min 1231#, VOL: 1405 BF, 16200#
12/20 SD, N2=640000 SCF - ARO 25100 SCFM

Formations	From	To	Thickness
Sand, Shale & Thin Coals	0	611	611
Welch	611	616	5
Sand, Shale & Thin Coals	616	997	381
Fire Creek	997	1000	3
Sand, Shale & Thin Coals	1000	1394	394
Poco #3	1394	1396	2
Sand, Shale & Thin Coals	1396	1685	289

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

14155 (6) 261

- 1) Well Operator: Equitable Resources Energy Company Eastern Reg.
- 2) Operator's Well Number: WVC 3587 3) Elevation: 1493.41
- 4) Well type: (a) Oil / or Gas X CBM
(b) If Gas: Production X / Underground Storage /
Deep / / Shallow X
- Proposed Target Formation(s): Pennsylvanian Coals
- Proposed Total Depth: 1680 feet
- Approximate fresh water strata depths: 250
- Approximate salt water depths: Unknown
- 9) Approximate coal seam depths: See Attached Drilling Progress
- 10) Does land contain coal seams tributary to active mine? Yes / No X
- 11) Proposed Well Work: Drill - Stimulate And Complete
- 12)

Issued 09/04/96
Expires 09/04/98
Bradshaw
Gasper C
2-99
1-61
RECEIVED
WV Division of
Environmental Protection
AUG 29 1996
Permitting
Office of Oil & Gas

22509

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	3.5	38'	38'	Drive Pipe
Fresh Water	8 5/8	M50	20	300'	300'	To surface 76 ft ³
Coal						
Intermediate						
Production	4 1/2	M65	9.5	-	1660'	To surface 200 ft ³
Tubing	2 3/8	M50	4.6	-	1630	N4
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)

9/75/26

RECEIVED
WV Division of
Environmental Protection

AUG 29 1996

Permitting
Office of Oil & Gas

1) Date: August 26, 1996
2) Operator's well number
WVC-3587
3) API Well No: 47 - -047 - 1282-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 William Cody Estep
Address Box 133 Estep Ridge
Jolo, WV 24850
(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 Pocahontas Land Corp.
Address P.O. Box 1517
Bluefield, WV 24701
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name Alpine Development
Address P.O. Box 303
Welch, WV 24801

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. 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 28th day of August, 1996

My commission expires May 31, 1997 James G. Peters Notary Public