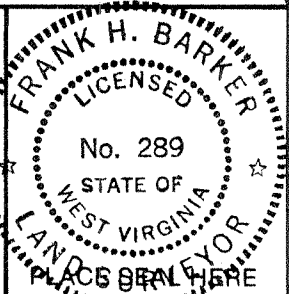


LOCATION REFERENCES
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1: 10000
 PROVEN SOURCE OF ELEVATION USGS BM
Shown Above EL. 1674

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 ENERGY.
 (SIGNED) Frank H. Barker
 R.P.E. _____ L.L.S. 289



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE APR 21 19 93
 OPERATOR'S WELL NO. 57 BW
 API WELL NO. 47-081-0955
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 2066 WATER SHED OLD SLAB FORK
 DISTRICT SLAB FORK 5 COUNTY RALEIGH
 QUADRANGLE MS GRAW Mullens, W. Va.

SURFACE OWNER WESTERN POCAHONTAS ACREAGE 27,236.96
 OIL & GAS ROYALTY OWNER TOTAL MINATOME LEASE ACREAGE 27,236.96
 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 BIG LIME ESTIMATED DEPTH 2650 FT.
 WELL OPERATOR PEAKE OPERATING COMPANY DESIGNATED AGENT TOM LIBERATORE
 ADDRESS P.O. BOX 8 669 ADDRESS P.O. BOX 8
RAVENSWOOD, WV 26164 RAVENSWOOD, WV 26164

HALLS INC. 068065 FORM WW-6

COUNTY NAME PERMIT

6-6 McGraws (248)

RECEIVED
Office of Oil & Gas
JUN 20 94
WV Division of
Environmental Protection

WR-35

RECEIVED
Office of Oil & Gas
OCT 21 93
WV Division of
Environmental Protection

07-Jun-93
API # 47- 81-00955
REVISED

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

Well Operator's Report of Well Work

Farm POCAHONTAS CO. Operator Well No.: 57-BW

LOCATION: Elevation: 2,066.00 Quadrangle: MCGRAWS
District: SLAB FORK County: RALEIGH
Latitude: 1750 Feet South of 37 Deg. 42Min. 30 Sec.
Longitude: 2150 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: PEAKE OPERATING COMPANY
P.O. BOX 8
RAVENSWOOD, WV 26164-0008

Agent: THOMAS S. LIBERATORE

Inspector: RODNEY DILLON
Permit Issued: 06/07/93
Well work Commenced: 09/14/93
Well work Completed: 09/21/93
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 2713
Fresh water depths (ft) 48
Salt water depths (ft) 965
Is coal being mined in area (Y/N)? N
Coal Depths (ft): none recognized

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
13 3/8"	28'	28'	-
9 5/8"	274'	274'	90 sks Class A
7"	1564'	1564'	240 sks Class A
4 1/2"	2403'	2403'	95 sks Pozmix

OPEN FLOW DATA

Producing formation Middle Maxton Sand Pay zone depth (ft) 2237-68
Gas: Initial open flow - - MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 500 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 28 Hour:
Static rock Pressure 225 psig (surface pressure) after 16 Hour:
and zone completed
Second producing formation Ravencliff Pay zone depth (ft) 1677-1707
Gas: Initial open flow - - MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 158 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 20 Hour:
Static rock Pressure 160 psig (surface pressure) after 24 Hour:

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 S. Liberatore

For: PEAKE OPERATING COMPANY

Reviewed TM6
Date _____

By: Thomas S. Liberatore
Date: 10/19/93

RAV 0955

See 10/27/93 batch

RECEIVED
WV DEPARTMENT OF ENERGY
Environmental Protection
MAY 21 1993
Permitting
Office of Oil & Gas

- 1) Date: May 6, 1993
- 2) Operator's well number
#57 - BW Welchlands
- 3) API Well No: 47 - 081 - 0955
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 Western Pocahontas Properties
Address P.O. Box 2827
Huntington, WV 25727
 - (b) Name ATTN: David Morrison
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Western Pocahontas Properties
Address P.O. Box 2827
Huntington, WV 25727
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name 1) Drummond Co., Inc. 2) Adventure Resources
Address P.O. Box 1549 41 Eagles Rd.
Jasper, AL 35502 Becklev, WV 2580
ATTN: Geo. Barber ATTN: Randy Hansford
- 6) Inspector Rodney Dillon
Address P.O. Box 131
Bradley, WV 25818
Telephone (304)-877-2912

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

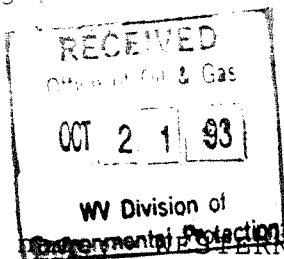
_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

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 _____ 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 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 Peake Operating Company
By: Thomas [Signature]
Its: General Manager & Designated Agent
Address P.O. Box 8
Ravenswood, WV 26164
Telephone (304) 273-5371

Subscribed and sworn before me this 5 day of May, 1993
Stephen W Kelly Notary Public
My commission expires OCT 28, 1993



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

Well Operator's Report of Well Work

Farm ~~Environmental Protection~~ POCAHONTAS CO. Operator Well No.: 57-BW

LOCATION: Elevation: 2,066.00 Quadrangle: MCGRAWS

District: SLAB FORK County: RALEIGH
Latitude: 1750 Feet South of 37 Deg. 42Min. 30 Sec.
Longitude 2150 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: PEAKE OPERATING COMPANY
P.O. BOX 8
RAVENSWOOD, WV 26164-0008

Agent: THOMAS S. LIBERATORE

Inspector: RODNEY DILLON
Permit Issued: 06/07/93
Well work Commenced: 09/14/93
Well work Completed: 09/21/93

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 2713
Fresh water depths (ft) 48

Salt water depths (ft) 965

Is coal being mined in area (Y/N)? N
Coal Depths (ft): none recognized

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
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Final open flow 500 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 28 Hours
Static rock Pressure 225 psig (surface pressure) after 16 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: PEAKE OPERATING COMPANY

By: Thomas S. Liberatore
Date: 10/19/93

OCT 27 1993

Reviewed _____
P. _____

FORM WR-35
(Reverse)

PERMIT #: 47-081-0955
CO. WELL #: #57-BW
ELEVATION: 2066 GL, 2076 KB

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

09/27/93: PERFORATED THE MIDDLE MAXTON FROM 2237-2268 USING
61 HOLES.

09/28/93: FOAM-FRACTURED THE MIDDLE MAXTON SAND WITH
63,000 LBS. OF SAND, 473,000 SCF OF NITROGEN, AND
316 BBL OF WATER.

WELL LOG (all depths taken from KB)

ROCK TYPE OR FORMATION	TOP	BOTTOM	REMARKS
SAND	0	51	WTR.@ 48'
SHALE	51	211	
SAND	211	318	
SHALE	318	469	
SAND	469	496	
SHALE	496	594	
SAND	594	904	
SHALE	904	946	
SAND	946	1026	WTR.@ 965'
SHALE & SAND	1026	1210	
SAND	1210	1272	
SHALE	1272	1470	
SAND	1470	1526	
SHALE	1526	1666	
RAVENCLIFF SAND	1666	1724	
SHALE	1724	1726	
AVIS LIME	1726	1770	
SHALE	1770	2236	
MIDDLE MAXTON SAND	2236	2270	S/GAS
SHALE	2270	2506	
LOWER MAXTON	2506	2616	S/GAS: 2530'
LITTLE LIME (REYNOLDS)	2616	2684	
SHALE (PENCIL CAVE)	2684	2713	
TOTAL DEPTH (LOGGERS)	2713		

DF 334
DFT-331

17305

REC'D
WV
Environmental

FORM WW-2B MAY 21 93

081 - 0955
Issued 06/07/93
Expires Page 3 of 7
06/07/95

Permitting
Office
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

17305

- 1) Well Operator: Peake Operating Company (37100) (5) 466
- 2) Operator's Well Number: #57 - BW 3) Elevation: 2066
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep / Shallow X/
- 5) Proposed Target Formation(s): Big Lime 3-4
- 6) Proposed Total Depth: 2650 feet
- 7) Approximate fresh water strata depths: 210
- 8) Approximate salt water depths: 1066'
- 9) Approximate coal seam depths: Sewell at approx. 350 ; Beckley at 680
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: To drill a new well; stimulate by fracturing
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	12 3/4"	- -	42#	30'	30'	38CSR1811.3 cement to surface
Fresh Water	9 5/8"	J-55	36#	250'	250'	
Coal						38CSR1811.3
Intermediate	7"	J-55	17#	1500'	1500'	220 sx
Production	4 1/2"	J-55	10.5#	2650'	2650'	100 sx
Tubing						38CSR1811.3
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

226815/a

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

REVISED
FORM WR-35

- 12/15/93: Set Bridge Plug at 1810'. Perforated 4.5" casing with 4 holes at 1754'. Squeezed 8 bbls Class A cement behind 4.5" csg.
- 12/16/93: Perforated Ravencliff from 1677'-1707' using 40 holes.
- 12/17/93: Foam-Frac'd Ravencliff using 500 gal. acid, 46,300# sand, 283 bbl water, and 460,000 SCF of Nitrogen.

FORM WR-35
(Reverse)

PERMIT #: 47-081-0955
CO. WELL #: #57-BW
ELEVATION: 2066 GL, 2076 KB

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SHALE	1526	1666	
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17305