

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1-2500'

CO: 081 PMT: 577  
 Loc Digitized from OGIS 7.5' Mylar  
 QUAD: 331 DATE: 25-MAY-90  
 LAT: 37 50.0 Miles South: 1.41  
 LONG: 81 17.5 Miles West: 0.49

APPLIED FOR  
 2  
 PLACE SEAL HERE

PROVEN SOURCE OF ELEVATION HIGH POINT WEST OF LOCATION

MINES (SIGNED) Bryan D. Bowman  
 R.P.E. \_\_\_\_\_ L.L.S. 736

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



DATE 8-11 1981  
 OPERATOR'S WELL NO. 3AT  
 API WELL NO. 47-081-0577  
 STATE COUNTY PERMIT

Department of Mines  
 Oil & Gas Division

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS", PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 2360 WATER SHED STEPHENS BRANCH  
 DISTRICT TRAPHILL COUNTY RALEIGH  
 QUADRANGLE ECLESTON 415' SE  
 SURFACE OWNER WESTERN POCAHONTAS CORP. ACREAGE 51.90  
 OIL & GAS ROYALTY OWNER WESTERN POCAHONTAS CORP. LEASE ACREAGE 996.99  
 LEASE NO. 31-195  
 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 RAVENCLIFF ESTIMATED DEPTH 1915'  
 WELL OPERATOR PEAKE OPERATING CO. DESIGNATED AGENT FLOYD WILCOX  
 ADDRESS 201 DUNBAR DEEKE PARK DUNBAR, W.VA. ADDRESS 201 DUNBAR DEEKE PARK DUNBAR, W.VA.

UCT 22 981  
 6-6 un named  
 2490'



WV O&G Comm

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JUL 28 1982



IV-35  
(Rev 8-81)

OIL & GAS DIVISION  
DEPT. OF MINES  
State of West Virginia  
Department of Mines  
Oil and Gas Division

Date \_\_\_\_\_  
Operator's \_\_\_\_\_  
Well No. #3-AJ  
Farm Jones & Gibson  
API No. 47 - 081 - 0577

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 2360 Watershed Stephens Branch  
District: Trap Hill County Raleigh Quadrangle Eccles 7-1/2'

COMPANY Peake Operating Company  
ADDRESS Suite 423 Charleston National Plaza  
Charleston, W. Va. 25301  
DESIGNATED AGENT Floyd B. Wilcox  
ADDRESS Suite 423 Charleston National Plaza  
Charleston, W. Va. 25301  
SURFACE OWNER Western Pocahontas Corp.  
ADDRESS Box 2827, Huntington, WV 25727  
MINERAL RIGHTS OWNER Western Pocahontas Corp.  
ADDRESS Box 2827, Huntington, WV 25727  
OIL AND GAS INSPECTOR FOR THIS WORK Rue  
Schoolcraft ADDRESS Pineville, WV  
PERMIT ISSUED October 9, 1982  
DRILLING COMMENCED January 20, 1982  
DRILLING COMPLETED January 26, 1982  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	24'	24'	
9 5/8			
8 5/8			
7	1385'	1385'	
5 1/2			
4 1/2	2885'	2885'	
3			
2 3/8		2865'	
Liners used			

GEOLOGICAL TARGET FORMATION Big Lime Depth 2687 - TD feet  
Depth of completed well 2929 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 200, 433 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? No.

OPEN FLOW DATA

Producing formation Big Lime (TUBING) Pay zone depth 2778-2786 feet  
Gas: Initial open flow 50 (net) Mcf/d Oil: Initial open flow -- Bbl/d  
Final open flow 220 Mcf/d Final open flow -- Bbl/d  
Time of open flow ~~between initial and final tests~~ 4 hours  
Static rock pressure 555 psig (surface measurement) after 7 <sup>days</sup> ~~hours~~ shut in  
(If applicable due to multiple completion--)  
Second producing formation Ravencliff (CASING) Pay zone depth 1752-85 feet  
Gas: Initial open flow 95 Mcf/d Oil: Initial open flow -- Bbl/d  
Final open flow 95 Mcf/d Oil: Final open flow -- Bbl/d  
Time of open flow ~~between initial and final tests~~ 4 hours  
Static rock pressure 170 psig (surface measurement) after 7 <sup>days</sup> ~~hours~~ shut in

220  
95  
(315) mcf total open flow -

AUG 9 1982

(Continue on reverse side)

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

Perforated Big Lime 5/12/82; 2778-80 (4 holes); 2780-82 (8 holes); 2782-86 (8 holes).  
 Acidized Big Lime 5/12/82: 18,000 gals. of 15% gelled acid; 1,000 gals. of 28% acid; 42 gals. of F78 surfactant; and 500 lbs. of J360 gelling agent. Breakdown pressure - 250 lbs., average treating pressure - 300 lbs., instant shut-in pressure - 200 lbs.; average rate BPM - 5 barrels per minute.

Perforated Ravencliff 5/13/82: 1752-56 (14 holes); 1778-79 (2 holes); 1779-84 (20 holes); and 1784-85 (2 holes).

Dowell frac'd Ravencliff 5/14/82: Used 850# of J-266 treating fluid gelling agent, 60,000# of 20/50, 1000 gals. of 15% HCL, 50 gals. of F-75 surfactant, 44# of J-218 breaker type, 55 gal. L53 W, 3 gal. A200, 50 perf balls. Breakdown pressure was 1500 lbs. average treating press 1450#, instant shut in pressure 1500#, hydraulic HP 675, average rate BPM 19#/min.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Depths from DF 3' above G. L.					
Overburden			0	10	
Sand and Shale			10	310	Water at 200'
Sandstone - hard			310	433	
Red shale			433	435	Water at 433
Sandstone - hard			435	490	
Sand & shale			490	626	
Sandstone			626	823	
Sand & shale - hard			823	1143	
Shale			1143	1156	
Sand and shale			1156	1337	
Shaley sand			1337	1385	
Shale			1385	1427	
Red Shale			1427	1470	
Sandy shale			1470	1518	
Sand and shale			1518	1613	Small temp. show 1550'
*Shale			1613	1672	Slight temp. show c. 1770'
*Sand and shale			1672	1745	Strong temp. show 2780'
*Ravencliff			1745	1789	Gas check 1777 10 Mcf
Red shale			1789	1816	Gas check 1827 95 Mcf
Sand and shale			1816	2500	Gas check 2752 53 Mcf
					Gas check 2804 103 Mcf
Shale			2500	2562	
*Little Lime			2562	2640	
*Pencil Cave			2640	2687	
*Big Lime			2687	2929 (T. D.)	
*Log tops					
Packer set at 2685' (6/3/82)					

(Attach separate sheets as necessary)

Peake Operating Company

Well Operator

By: Floyd B Wilcox

Floyd B. Wilcox

Date: July 26, 1982

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



Well No. #3-AJ  
Farm Jones & Gibson  
API #47 - 081 - 0577  
Date September 23, 1981

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas x /

(If "Gas", Production x / Underground storage \_\_\_ / Deep \_\_\_ / Shallow x /

LOCATION: Elevation: 2360' Watershed: Stephens Branch  
District: Trap Hill County: Raleigh Quadrangle: Eccles 7 1/2

WELL OPERATOR Peake Operating Company  
Address 201 Dunbar Office Park  
Dunbar, WV 25064

DESIGNATED AGENT Floyd B. Wilcox  
Address 201 Dunbar Office Park  
Dunbar, WV 25064

OIL AND GAS ROYALTY OWNER Western Pocahontas Corp.  
Address P. O. Box 2827  
Huntington, WV 25727  
Acreage 496

COAL OPERATOR Beckley Coal Mining Company  
Address P. O. Box 145  
Glen Daniels, WV 25844

SURFACE OWNER Western Pocahontas Corp.  
Address P. O. Box 2827  
Huntington, WV 25727  
Acreage 54.9

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME Western Pocahontas Corp.  
Address P. O. Box 2827  
Huntington, WV 25727  
NAME Attn: Jose Bollar  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
NAME N/A  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME Beckley Coal Mining Company  
Address P. O. Box 145  
Glen Daniels, WV 25844  
Attn: Doug Eppling

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Deo Mace  
Address Route 1, box 65  
Sand Ridge, WV 25274  
Telephone 927-1090 or 655-8693

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SEP 24 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease x / other contract \_\_\_ / dated May 12, 1981, to the undersigned well operator from Western Pocahontas Corporation.

(If said deed, lease, or other contract has been recorded:)

Recorded on July 23, 1981, in the office of the Clerk of County Commission of

Raleigh County, West Virginia, in 31 Book at page 195. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_ / Plug off old formation \_\_\_ / Perforate new formation \_\_\_ / Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

**BLANKET BOND**

By: Floyd B. Wilcox  
Peake Operating Company  
Well Operator  
Its: Attorney In Fact

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Unknown

Address \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Ravencliff  
Estimated depth of completed well 1915 feet. Rotary  / Cable tools  /  
Approximate water strata depths: Fresh, 60 feet; salt, 500 feet.  
Approximate coal seam depths: Sewell: 708', Beckley: 1008'  
Is coal being mined in this area: Yes  / No  /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling	Left in Well		
Conductor	16"	K-55	23#	X		30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermed.	7"	K-55	17#	X		1530'	1530'	150 sacks as req. rule 15.01	
Production	4 1/2"	K-55	9.5#	X		1905'	1905'	300 sacks	Depths set
Tubing	2 3/8"	K-55	4.6#	X		1860'	1860'		
Liners									Perforations:
									Top Bottom


**NOTE:** Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All conditions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if operations have not commenced by 6-9-82.

  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator      / owner      / lessee      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: \_\_\_\_\_, 19\_\_\_\_.

By: \_\_\_\_\_

Its: \_\_\_\_\_