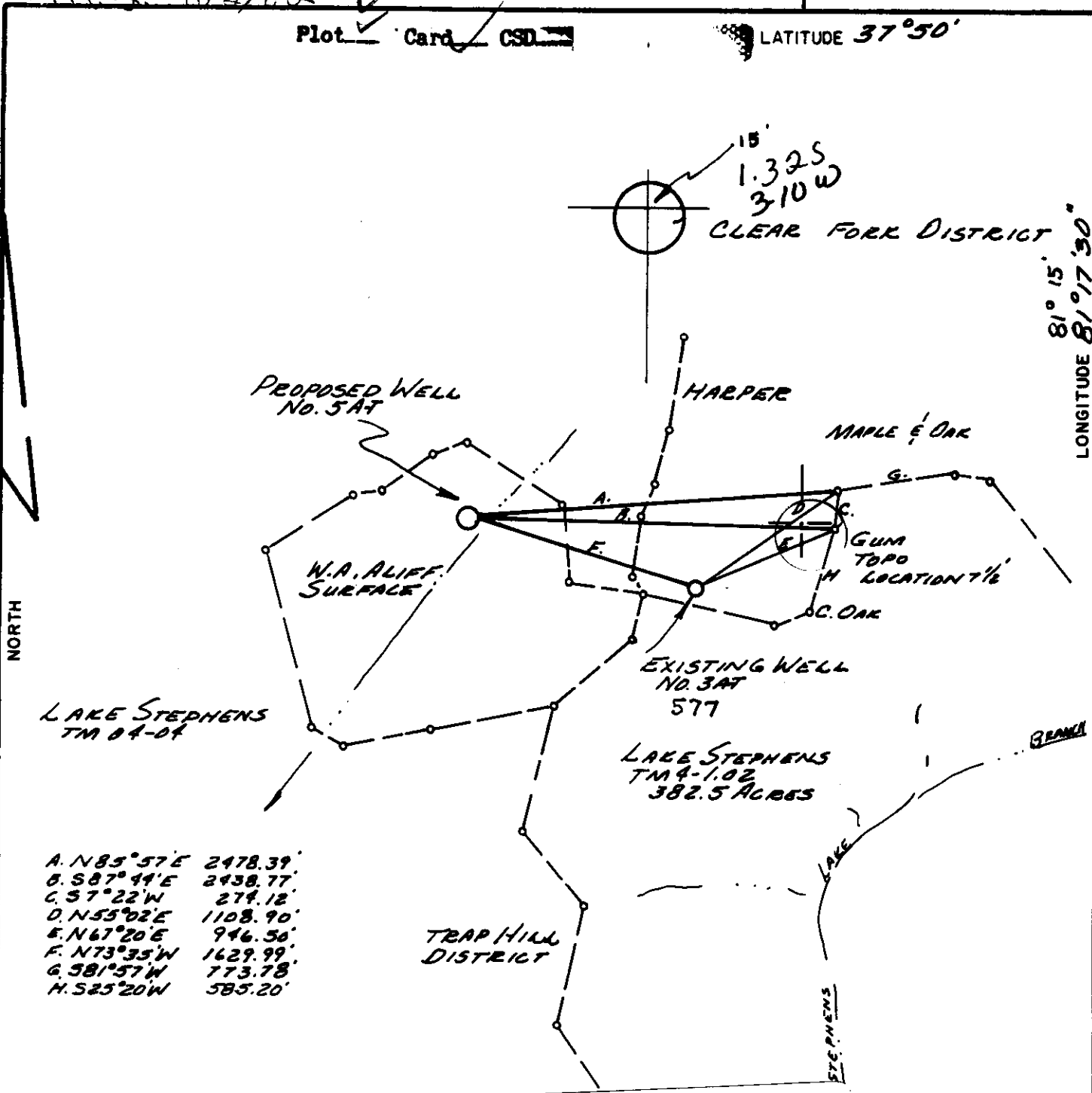


4100'

Plot  Card  CSD

LATITUDE 37° 50'



FILE NO. \_\_\_\_\_

DRAWING NO. \_\_\_\_\_

SCALE 1-1000

MINIMUM DEGREE OF ACCURACY 1-200

PROVEN SOURCE OF ELEVATION EXISTING WELL

CO: 081 PMT: 601

Loc Digitized from OGIS 7.5' Mylar

QUAD: 331 DATE: 25-MAY-90

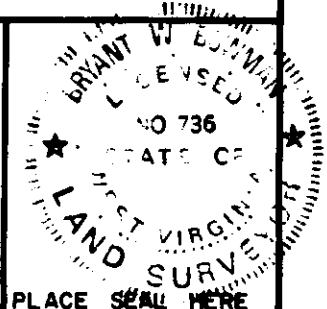
LAT: 37 50.0 Miles South: 1.33

LONG: 81 17.5 Miles West: 0.78

AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Bryan S. Bowman

R.P.E. \_\_\_\_\_ L.L.S. 736



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

FORM IV-6 (8-78)



Department of Mines  
Oil & Gas Division

DATE 4/30 19 82

OPERATOR'S WELL NO. 5AT

API WELL NO. 47-081-0601

STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL

(IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 2128 WATER SHED DINGESS BRANCH

DISTRICT TRAP HILL COUNTY RALEIGH

QUADRANGLE ECCLES 7/8' Q15' SE

SURFACE OWNER WESTERN POCAHONTAS COOP. ACREAGE 58 ±

OIL & GAS ROYALTY OWNER FCC LEASE ACREAGE 6,000 ±

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 BIG LIME ESTIMATED DEPTH 2729 JUN 22 1982

WELL OPERATOR PEAKE OPERATING CO DESIGNATED AGENT ELMID WILCOX

ADDRESS 201 DUNBAR OFFICE PARK DUNBAR, WEST VIRGINIA ADDRESS 201 DUNBAR OFFICE PARK DUNBAR, WEST VIRGINIA



RECEIVED

DEC 30 1982



OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Date December 28, 1982

Operator's

Well No. 5-AJ

Farm Jones & Gibson

API No. 47 - 081 - 0601

State of West Virginia

Department of Mines

Oil and Gas Division

JAN 10 1983

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: 2128' Watershed Dingess Branch

District: Trap Hill County Raleigh Quadrangle Eccles 7 1/2'

COMPANY Peake Operating Company

ADDRESS 423 Chas. Nat'l Plaza, Chas., WV.

DESIGNATED AGENT Floyd B. Wilcox

ADDRESS 423 Chas. Nat'l Plaza, Chas., WV.

SURFACE OWNER Western Pocahontas Corp.

ADDRESS P. O. Box 2827, Huntington, WV.

MINERAL RIGHTS OWNER Western Pocahontas Corp.

ADDRESS P. O. Box 2827, Huntington, WV.

OIL AND GAS INSPECTOR FOR THIS WORK D. Craig

Duckworth ADDRESS Mt. Lookout, WV.

PERMIT ISSUED May 27, 1982

DRILLING COMMENCED October 8, 1982

DRILLING COMPLETED October 13, 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 Cord.			
13-10"	18.5'	18.5'	
9 5/8			
8 5/8			
7	1216'	1216'	195 sks.
5 1/2			
4 1/2	2736'	2736'	50 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Lime Depth 2554 feet

Depth of completed well 2780 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 200 feet; Salt N/A feet

Coal seam depths: Sewell 650' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Ravencliff Pay zone depth <sup>1652</sup> ~~1642~~-1660 feet

Gas: Initial open flow 253 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 467 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 180 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation Big Lime Pay zone depth 2632-2771 feet

Gas: Initial open flow 97 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 467 Mcf/d Oil: Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 500 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

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

Perforated Big Lime 2632'-2771' (32 holes). Acidized with 1,000 gal. of 28% acid; 8,000 gal. 15% acid; 42 gals. of F-78; 500# of J-360. Breakdown pressure 900#, average treating pressure 600#, instant shut in pressure 450#. Average rate 5 BPM.

Perforated Ravencliff 1643'-1648' with 11 holes, 1652'-1660' with 26 holes. Fraced Ravencliff with 75 quality foam, 45,000# 20/50, 1500 gal. 15% acid, 55 gal. F-81. Breakdown pressure 800#, average treating pressure 2600#, instant shut in pressure 2000#; average rate 6 BPM.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand and shale			0	324	
Sand			324	398	
Sand and shale			398	709	
Shale			709	746	
Sandy shale			746	815	
Sand			815	900	
Sandy shale			900	1034	
Shale			1034	1229	
Sand			1229	1261	
Shale			1261	1400	
Sandy shale			1400	1446	
Princeton sand			1446	1464	
Shale			1464	1630	Gas checks:
Ravencliff			1630	1679	1628' - no gas
Red shale			1679	1812	1679' - 253 MCF
Shale			1812	2366	2560' - 207 MCF
Lower Maxton			2366	2402	2630' - 207 MCF
Shale			2402	2440	2680' - 304 MCF
Little Lime			2440	2514	2780' - 289 MCF
Pencil Cave			2514	2554	
<u>Big Lime</u>			2554	<u>2780</u>	
TD					

(Attach separate sheets as necessary)

Peake Operating Company

Well Operator

By: Clayton B. Nelson

Date: December 28, 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 ..., encountered in the drilling of a well."



Date: May 27, 19 82

Operator's Well No. Jones & Gibson #5-AJ

API Well No. 47 - 081 - 0601  
State County Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)

LOCATION: Elevation: 2128' Watershed: Dingess Branch  
District: Trap Hill County: Raleigh Quadrangle: Eccles 7 1/2'

WELL OPERATOR Peake Operating Company DESIGNATED AGENT Floyd B. Wilcox  
Address 201 Dunbar Office Park Address 201 Dunbar Office Park  
Dunbar, WV 25064 Dunbar, WV 25064

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

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

ACREAGE 58±  
SURFACE OWNER Western Pocahontas Corp.  
Address P. O. Box 2827  
Huntington, WV 25727  
ACREAGE 58±

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

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

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

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name D. Craig Duckworth  
Address P. O. Box 454  
Mt. Lookout, WV 26678

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 24, 19 64, to the undersigned well operator from Western Pocahontas Corporation  
(IF said deed, lease, or other contract has been recorded:)

Recorded on July 28, 19 64, in the office of the Clerk of the County Commission of Raleigh County, West Va., in Lease Book 31 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 the receipt of this Application by the Department.

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 lessee on or before the day of the mailing or delivery of this Permit 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  
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

**RECEIVED**  
MAY 27 1982  
OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Peake Operating Company  
Well Operator  
By Floyd B. Wilcox  
Its Attorney-in-Fact

**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, Big Lime

Estimated depth of completed well, 2729 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 50,928 feet; salt, 400 1478 feet.

Approximate coal seam depths: 650' Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

**CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor	9 5/8	H-40	36#	X		30'	30'	To surface		
Fresh Water										
Coal										
Intermediate	7"	J-55	17#	X		1224'	1224'	150 sacks as req. rule 15.01		
Production	4 1/2"	J-55	9.6#	X		2720'	2720'	300 sacks	Depths set	
Tubing	2 3/8	J-55	4.5#	X		2750'	2750'			
Liners									Perforations:	
									Top	Bottom
	Well will be stimulated									

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 PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 2-11-83.

BY [Signature]

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.

**WAIVER**

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 regulations.

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

By \_\_\_\_\_

Its \_\_\_\_\_