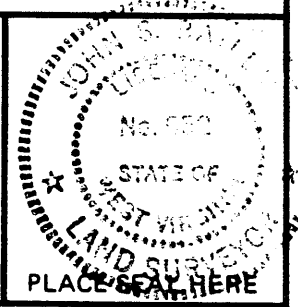


**NOTE**  
NO OTHER WELLS WITHIN  
2400' FOUND.

PLAT PREPARED BY MOUNTAIN STATE ENVIRONMENTAL SERVICE

FILE NO. MSES-82-13  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF  
ACCURACY 1 PART IN 200  
PROVEN SOURCE OF  
ELEVATION NW-SIDE BRIDGE ABT.  
RT. 18, U.S.G.S.-1937, ELEV. 710.00'

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 DEPART-  
MENT OF MINES.  
(SIGNED) John L. Bailey  
R.P.E. \_\_\_\_\_ L.L.S. 652



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE APRIL - 6, 1982  
OPERATOR'S WELL NO. WK - 59  
API WELL NO.  
47 - 095 - 0995  
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 941.00' WATER SHED INDIAN CREEK  
DISTRICT MC ELROY COUNTY TYLER  
QUADRANGLE SHIRLEY 75' (1961) West Union 15' NE  
SURFACE OWNER MAURINE S. HADLEY ACREAGE 129.99  
OIL & GAS ROYALTY OWNER MAURINE S. HADLEY, 1/2 INT. & OTHERS LEASE ACREAGE 124.00  
LEASE NO. \_\_\_\_\_  
PROPOSED WORK: DRILL X 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 ELK ESTIMATED DEPTH 5600' G-6 Big Mose 5 (94)  
WELL OPERATOR KEPCO, INC. DESIGNATED AGENT KEPCO, INC. E. L. STUART  
ADDRESS 436 BLVD. OF THE ALLIES ADDRESS 436 BLVD. OF THE ALLIES PO. BOX. 1550  
PITTSBURGH, PA. 15219 PITTSBURGH, PA. 15219 CLARKSBURG, WVA 26301

JUN 2 1982



Date October 10, 1982  
Operator's  
Well No. WK-59  
Farm Maurine S. Hadley  
API No. 47 - 095 - 0995

State of West Virginia  
Department of Mines  
Oil and Gas Division

**RECEIVED**  
JUN 19 1983  
OIL & GAS DIVISION  
DEPT. OF MINES  
JUN 27 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: 941.0' Watershed Indian Creek  
District: McElroy County Tyler Quadrangle Shirley 7.5'

COMPANY Kepeco, Inc.  
ADDRESS 436 Boulevard of the Allies  
Pittsburgh, PA 15219  
DESIGNATED AGENT E. L. Stuart  
ADDRESS P.O. Box 1550  
Clarksburg, W.VA. 26301  
SURFACE OWNER Maurine S. Hadley  
ADDRESS Middlebourne, West Virginia 26149  
MINERAL RIGHTS OWNER Maurine S. Hadley et al  
ADDRESS Middlebourne, West Virginia 26149  
OIL AND GAS INSPECTOR FOR THIS WORK Robert  
Lowther ADDRESS 3rd Street  
Middlebourne, WV 26149  
PERMIT ISSUED April 26, 1982  
DRILLING COMMENCED July 7, 1982  
DRILLING COMPLETED July 10, 1982  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size - 20-16 - Cond.			
13-10"	33'	33'	11 sks
9 5/8			
8 5/8	1207'	1207'	300 sks pozmix
7			
5 1/2			
4 1/2	1948'	1948'	200 sks pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5600' feet  
Depth of completed well 1976' feet Rotary X / Cable Tools     
Water strata depth: Fresh No Record feet; Salt None feet  
Coal seam depths: No record Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1897'-1907' feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1500 Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 8 hours  
Static rock pressure 700 psig (surface measurement) after 48 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation    Pay zone depth    feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow    Mcf/d Oil: Final open flow    Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure    psig (surface measurement) after    hours shut in

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

Perf: 1897'-1907' 21 holes Avg. press. 1600 psi., 48 BPM

Fractured 7/23/82 Halliburton

one stage frac using 500 gallons 15% HCl acid and no sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			0'	416'	
Sand and shale			416'	508'	No record of water
Shale and siltstone			508'	634'	
Sand			634'	654'	
Shale			654'	874'	
Sand			874'	886'	
Shale			886'	1096'	
Sand			1096'	1114'	
Shale			1114'	1221'	
Sand and shale			1221'	1786'	
Little Lime			1786'	1802'	
Shale			1802'	1868'	
Big Lime			1868'	1894'	
<u>Big Injun</u>			1894'	1976'	
TD				1976'	

production 1984-1999  
74,269 mcf

(Attach separate sheets as necessary)

KEPCO, INC.

Well Operator

By: [Signature] Operations Manager

Date: October 10, 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."



Date: April 6, 19 82

Operator's Well No. WK-59

API Well No. 47 095 0995 State County Permit

FORM IV-2 (Obverse) (12-81)

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 /)

LOCATION: Elevation: 941.0-feet Watershed: Indian Creek District: McElroy County: Tyler Quadrangle: Shirley 7.5 min.

WELL OPERATOR Kepco, Inc. Address 436 Blvd. of the Allies Pittsburgh, PA 15219 DESIGNATED AGENT Kepco, Inc. Address %E. L. Stuart P.O.Box 1550;Clarksburg,WV 26301

OIL & GAS ROYALTY OWNER Maurine S. Hadley and Betty Lou Robinson, Agent for others Address Middlebourne, WV 26149

COAL OPERATOR Address

Acreage 124.00

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Maurine S. Hadley Address Middlebourne, WV 26149

Name Maurine S. Hadley Address Middlebourne, WV 26149

Acreage 129.99

FIELD SALE (IF MADE) TO: Address Not known at this time

Name Address

OIL & GAS INSPECTOR TO BE NOTIFIED

Name William Blosser Robert Lowther Address P.O. Box 1028 3RD STREET COLfax, WV / 26566 MIDDLEBOURNE, W.V. 26149

COAL LESSEE WITH DECLARATION ON RECORD Name

Address APR 26 1982

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 X / lease other contract / dated July 1, 19 80, to the undersigned well operator from

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

Recorded on July 1, 19 80, in the office of the Clerk of the County Commission of Tyler County, West Va., in Deed Book 226 at page 373. 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

Kepeco, Inc. Well Operator By H. E. Gardner Operations Manager

**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) Unknown at this time  
Address \_\_\_\_\_  
\_\_\_\_\_

GEOLOGICAL TARGET FORMATION, Elk

Estimated depth of completed well, 5600 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 40; 130 feet; salt, 2125 feet.

Approximate coal seam depths: 600' and 700' 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		
Conductor	11-3/4"	H-40	42#		X		20'		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8-5/8"	J-55	23#	X		1200'	1200'	Circulate	
Production	4-1/2"	J-55	10.5#	X			5500'	550 Sx	Depths set
Tubing								or as req by rule 15.07	
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 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 1-21-83  
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 X / 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: April 21, 19 82

By Maurine S. Hadley  
Its Owner