

**RECEIVED**

FEB 08 1985  
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OIL & GAS DIV.  
DEPT. OF MINES



1) Date: January 28, 19 85  
2) Operator's Well No. WK-342  
3) API Well No. 47 - 085 - 7337  
State County Permit

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

- 4) WELL TYPE: A Oil  / Gas  /  
B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 854.90 Watershed: Poplarlick Run  
District: Clay County: Ritchie Quadrangle: Pennsboro 7.5'
- 6) WELL OPERATOR Kepeco, Inc.  
Address 436 Boulevard of the Allies  
Pittsburgh, PA 15219 *25900*
- 7) DESIGNATED AGENT E. L. Stuart  
Address P. O. Box 1550  
Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Samuel Hersman  
Address P. O. Box 66  
Smithville, WV 26178
- 9) DRILLING CONTRACTOR:  
Name Unknown  
Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 5995 feet
- 13) Approximate trata depths: Fresh, 318 feet; salt, 1389 feet.
- 14) Approximate coal seam depths: -- Is coal being mined in the area? Yes  / No  /

15) 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	348'20	348'20	CTS by rule 1505	Sizes
Fresh water									
Coal									
Intermediate	8-5/8	J-55	23	X		1480	1480	Circulate 400 sx m/as required by rule 1501	Depths of
Production	4-1/2	J-55	10.5	X			5900		
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-085-7337

March 8, 19 85  
Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 8, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
87	MA	MA	MA	4101

*Margaret J. Hass*  
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File  
11/24/2023





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OIL & GAS DIV  
DEPT. OF MINES

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) WELL TYPE: \_\_\_\_\_

2) LOCATION: \_\_\_\_\_

3) WELL OPERATOR: \_\_\_\_\_

4) OIL & GAS INSPECTOR TO BE NOTIFIED: \_\_\_\_\_

5) PROPOSED WELL WORK: \_\_\_\_\_

6) GEOLOGICAL TACKET INFORMATION: \_\_\_\_\_

7) LITHOLOGICAL INFORMATION: \_\_\_\_\_

8) APPROXIMATE DEPTH OF STRATIGRAPHIC UNITS: \_\_\_\_\_

9) APPROXIMATE COAL STRATA DEPTHS: \_\_\_\_\_

10) CASING AND TUBING PROGRAM: \_\_\_\_\_

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

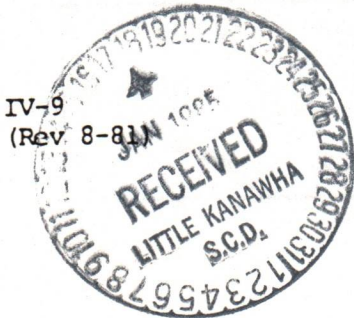
OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_



IV-9  
(Rev. 8-81)



DATE January 16, 1985  
WELL NO. WK-342  
API NO. 47 - 085 - 7337

State of West Virginia  
Department of Mines  
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Kepeco, Inc. DESIGNATED AGENT E. L. Stuart  
436 Boulevard of the Allies P. O. Box 1550  
Address Pittsburgh, PA 15219 Address Clarksburg, WV 26301  
Telephone 412-471-7600 Telephone 304-624-6576  
LANDOWNER Marie D. Perkins SOIL CONS. DISTRICT Little Kanawha  
Revegetation to be carried out by E. L. Stuart (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 1/24/85 (Date)

*field review*

Lawall K. Atkinson  
(SCD Agent)

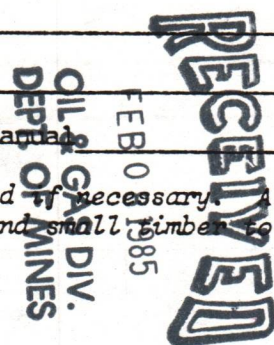
ACCESS ROAD

Structure Steel Road Culverts (A)  
At natural drains  
Spacing According to O & G Manual  
Page Ref. Manual 2-7 to 2-11  
Structure Drainage Ditch (B)  
Along access road  
Spacing Inside road cuts  
Page Ref. Manual 2-12 to 2-15  
Structure Cross Drains (C)  
Spacing As noted on sketch  
Page Ref. Manual 2-1 to 2-4

LOCATION

Structure Diversion Ditch (1)  
Material Earth  
Page Ref. Manual 2-12 to 2-15  
Structure Sediment Barrier (2)  
Material Hay or straw bales staked  
Page Ref. Manual 2-16 to 2-20  
Structure \_\_\_\_\_ (3)  
Material \_\_\_\_\_  
Page Ref. Manual \_\_\_\_\_

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.



REVEGETATION

Treatment Area I

Lime according to soil test to correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or Straw 2.0 Tons/acre  
Seed\* Ky 31 Tall Fescue 40 lbs/acre  
Birdsfoot Trefoil 10 lbs/acre  
Dom Rye Grass 10 lbs/acre

Treatment Area II

Lime according to soil test to correct to pH 6.5  
Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)  
Mulch Hay or Straw 2.0 Tons/acre  
Seed\* Ky 31 Tall Fescue 40 lbs/acre  
Birdsfoot Trefoil 10 lbs/acre  
Dom Rye Grass 10 lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY SJK PNT  
MSES Consultants, Inc. 11/24/2023  
ADDRESS 609 West Main Street  
Clarksburg, WV 26301  
PHONE NO. 304-624-9700 or  
304-842-3325 (24-hour)

NOTES: Please request landowner's cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.



FARM Ruth Spencer DISTRICT Clay COUNTY Ritchie

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

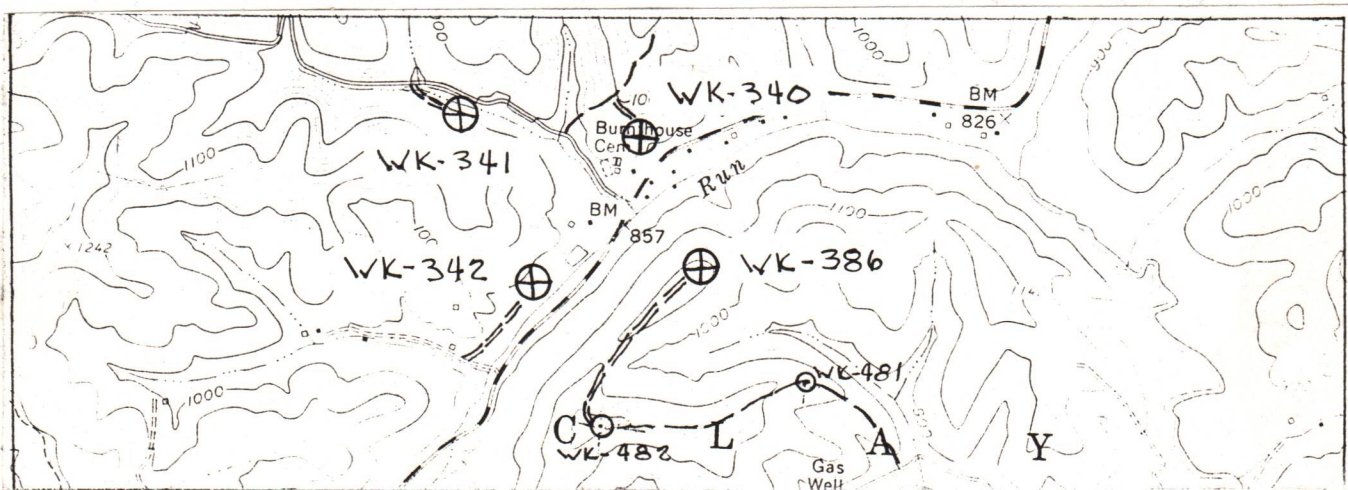
QUADRANGLE Pennsboro 7.5'

**LEGEND**

Well Site ⊕

Access Road ===

SCALE: 1" = 2000'



WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wells, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

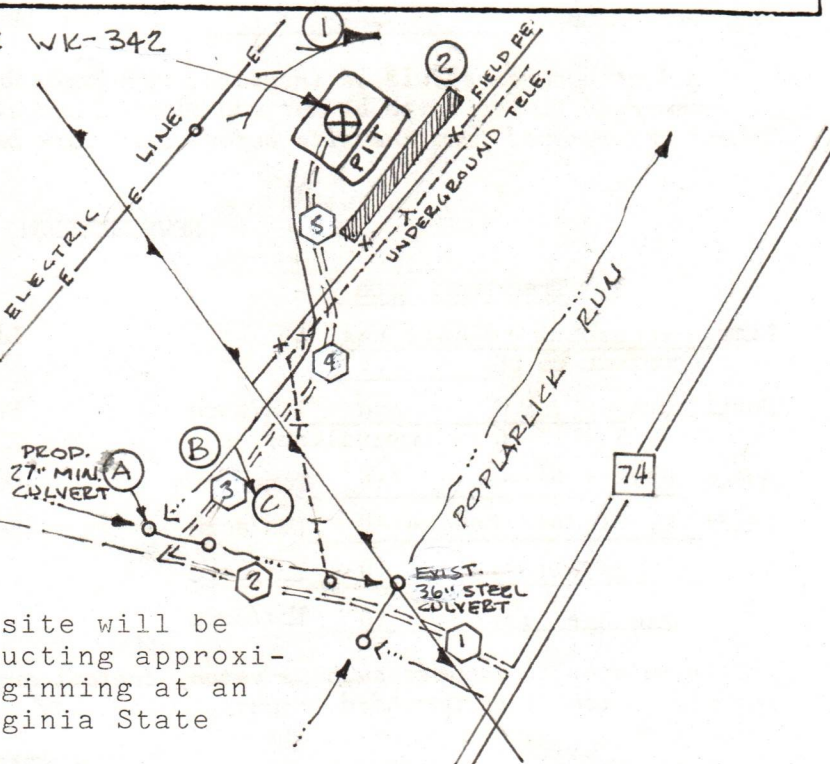
LEGEND

- Property boundary ————
- Road = = = = =
- Existing fence — x — x —
- Planned fence — / — / —
- Stream ~ ~ ~ ~ ~
- Open ditch — ···· —
- Diversion // // // // //
- Spring ○ →
- Wet spot ☹
- Building ■
- Drain pipe — ○ — ○ — ○ —
- Waterway <= = = =

WELL SITE WK-342

ROAD	GRADE	CROSS DRAIN SPACING
1 150'	8%	400'
2 150'	0 to 1%	
3 275'	"	
4 275'	1%	
5 150'	1%	

AS PER SCD AGENT



Comments: Access to the well site will be gained by upgrading and constructing approximately 1000' of access road beginning at an intersection point in West Virginia State Route 74.

11/24/2023

The access road will be sloped 2-3% towards the open ditch. All outlets of drainage structures and ditches will be in a stable area. All brush and timber will be removed from the area to be disturbed prior to any earth moving activities. Topsoil will be stockpiled for use in reclaiming. The road and well site will be brought to desired grade with erosion control structures being installed in conjunction with the grading. All cuts will be 2:1 slope or less.



1) Date: January 28, 1985  
 2) Operator's Well No. WK-342  
 3) API Well No. 47 - 085 - 7337  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OFFICE OF OIL & GAS  
 NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED  
 (i) Name Marie O. Perkins  
 Address Route 2  
Pennsboro, WV 26415  
 (ii) Name Billy B. Harper  
 Address Route 2, Box 122  
Pennsboro, West Virginia 26415  
 (iii) Name \_\_\_\_\_  
 Address \_\_\_\_\_

5(i) COAL OPERATOR  
 Address \_\_\_\_\_  
 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name No Declaration on Record  
 Address \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

**P 406 838 630**  
 RECEIPT FOR CERTIFIED MAIL  
 NO INSURANCE COVERAGE PROVIDED -  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
**P 406 838 631**  
 RECEIPT FOR CERTIFIED MAIL  
 NO INSURANCE COVERAGE PROVIDED -  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

TO THE	Sent to	Marie O. Perkins
	Street and No.	Route 2
	P.O., State and ZIP Cod.	Pennsboro, WV 26415
	Postage	\$ .54
	Certified	.75
	Special Delivery Fee	
	Restricted Mail Fee	
	Return Receipt Showing to whom and Date Delivered	.60
	Return Receipt Showing to whom, Date, and Address of Delivery	
	<b>TOTAL Postage and Fees</b>	<b>\$ 1.89</b>
	Postmark or Date	FEB 7 1985

TO THE	Sent to	Billy B. Harper
	Street and No.	Route 2, Box 122
	P.O., State and ZIP Cod.	Pennsboro, WV 26415
	Postage	\$ .54
	Certified	.75
	Special Delivery Fee	
	Restricted Mail Fee	
	Return Receipt Showing to whom and Date Delivered	.60
	Return Receipt Showing to whom, Date, and Address of Delivery	
	<b>TOTAL Postage and Fees</b>	<b>\$ 1.89</b>
	Postmark or Date	

WHICH FORM ACTION  
 WK-342  
 erator for a Depart and d Const by ha befor  
 S Form 3800, Feb. 1982

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 FEB 09 1985  
 OIL & GAS DIV.  
 DEPT. OF MINES

or other contract or contracts providing for f for compensation to the owner of the oil or gas to the volume of oil or gas so extracted, prod  
 If the answer above is No, nothing add you may use Affidavit Form IV-60.

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by  
Mr. B. L. Wolcott  
 this 7 day of February, 1985.  
 My commission expires OCT 31, 1994.  
Robert V. Staley  
 Notary Public, \_\_\_\_\_ County,  
 State of West Virginia

WELL OPERATOR Kepeco, Inc.  
 By Bd Wolcott  
 Its Operations Manager  
 Address 436 Blvd. of the Allies  
Pittsburgh, PA 15216  
 Telephone (412) 391-7760

11/24/2023



I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book Page</u>
Ruth and Harley E. Spencer	Kepeco, Inc.	1/8	165/643

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458061982

DEPT. OF MINES  
OIL & GAS DIV.



FILED



IV-35  
(Rev 8-81)

Date July 8, 1985  
Operator's  
Well No. WK-342  
Farm Perkins #1  
API No. 47-085-7337

State of West Virginia  
Department of Mines  
Oil and Gas Division

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: 854.90 Watershed Poplarlick Run  
District: Clay County Ritchie Quadrangle Pennsboro 7.5

COMPANY Kepeco, Inc.  
ADDRESS 436 Blvd. of Allies, Pgh. PA 15219  
DESIGNATED AGENT E. L. Stuart  
ADDRESS P.O.Box 1550, Clarksburg, WV 26301  
SURFACE OWNER Marie Perkins  
ADDRESS Rt.2, Pennsboro, WV 26415  
MINERAL RIGHTS OWNER Ruth & Harley Spencer  
ADDRESS 3205 Ouster St., Parkersburg, WV 26101  
OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman  
ADDRESS Box 66, Smithville, WV 26718  
PERMIT ISSUED ~~1-28-85~~ 3-8-85  
DRILLING COMMENCED 5-30-85  
DRILLING COMPLETED 6-7-85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11-3/4"	202	202	110 sks
9 5/8			
8 5/8	1530	1530	210 sks Class A
7			
5 1/2	5805	5805	410 sks 50/50 Poz Cement
4 1/2			
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Rhinestreet Shale Depth 5610 feet  
Depth of completed well 5834 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 200 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: 295' Is coal being mined in the area? NO

OPEN FLOW DATA  
Producing formation Riley, Benson, Alexander, Rhinestreet/ Pay zone depth 5714 feet  
Gas: Initial open flow -0- Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 358 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1325 psig (surface measurement) after 48 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation \_\_\_\_\_ Pay zone depth 11/24/2023 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

(Continue on reverse side)

RIT 7337



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

Perforated 6-13-85 with Perfco Wireline Co.

4377'-4400' 29 holes  
 4742'-4746' 13 holes  
 5025'-5032' 15 holes  
 5611'-5714' 32 holes

Fractured 6-12-85 with Halliburton Services, waterfrac with Nitrogen assist.

1st stage - 20,000 lbs 20/40 sand, press 3200 psi, rate 28 BPM  
 2nd stage = 30,000 lbs 20/40 sand, press 2300 psi, rate 20 BPM  
 3rd stage - 35,000 lbs 20/40 sand, press 2050 psi, rate 20 BPM  
 4th stage = 22,500 lbs 20/40 sand, 5000 lbs 80/100 sand, press 2600 psi, rate 34 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
Fill and Red Rock			0	15	
Red Rock and Shale			15	100	
Sand			100	140	
Red Rock and Shale			140	200	
Sand			200	295	Fresh water at 270'
Coal			295	298	
Sand and Shale			298	320	
Red Rock and Shale			320	510	
Sand and Shale			510	565	
Shale			565	680	
Sand and Shale			680	934	
Sand			934	996	
Sand and Shale			996	1155	
Shale and Red Rock			1155	1245	
Sand and Shale			1245	1340	
Sand			1340	1370	
Sand and Shale			1370	1460	
Shale			1460	1545	
Sand			1545	1595	
Shale			1595	1635	
Maxton Sand			1635	1658	From electric log
Sand and Shale			1658	1738	
Big Lime			1738	1820	
Big Injun			1820	1915	
Shale			1915	2170	
Weir			2170	2223	
Shale			2223	2310	
Berea			2310	2312	
Shale			2312	2722	
Fifth Sand			2722	2733	
Shale			2733	4377	
Riley			4377	4405	
Shale			4405	4740	
Benson			4740	4746	Show gas 4745'
Shale			4746	5024	
Alexander			5024	5032	
Shale			5032	5610	
Rhinestreet Shale			5610	5834	

TD

5834'  
(Attach separate sheets as necessary)

Kepeco, Inc.  
 Well Operator  
 By: Walter G. Cannon  
 Date: 7-7-85 11/24/2023

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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

RECEIVED

JUN 4 - 1985

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-7337 ~~85-7336~~ Wrong Permit #

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Repro Inc.  
 Address \_\_\_\_\_  
 Farm Marie O. Perkins  
 Well No. WK-342  
 District Clay County Ritchie  
 Drilling commenced 5-30-85  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water 35' 1" STREAM feet feet  
 Salt water \_\_\_\_\_ feet feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
<del>16</del> <u>11 3/4"</u>	<u>202'</u>	<u>202</u>	<u>C.T.S.</u>
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names James Bell / J. Simmons / H. Siers

Remarks: Ran 202 foot of 11 3/4" casing - Halliburton ran 110 sacks cement (neat) with 370 cc Plug down at 9:30 A.M.  
Waiting on cement at time of visit

5-31-85  
DATE

Samuel W. Henry  
DISTRICT WELL INSPECTOR

1172412023







STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS WELLS DIVISION

**RECEIVED**  
JUN 19 1985  
OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-7337

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Keeco, Inc.  
 Address \_\_\_\_\_  
 Farm Marie O. Perkins  
 Well No. WK-342  
 District Clay County Putnam  
 Drilling commenced 5-30-85  
 Drilling completed 6-8-85 Total depth 5830  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer _____
16			Size of _____
13			
10			Depth set _____
8 1/4			
6 3/8			Perf. top _____
<del>5 7/8</del> <u>4 1/2"</u>	<u>5805</u>	<u>5805</u>	
3			Perf. bottom _____
2			
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names \_\_\_\_\_

Remarks: T.D. and complete hole at depth of 5830 foot on 6-8-85  
Ran 5805 foot of 4 1/2" casing - ran 410 sacks cement

6-11-85  
DATE

Samuel W. Reynolds  
DISTRICT WELL INSPECTOR







STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS WELLS DIVISION

9 SEP 85 1:20

RECL. - CHAS.

INSPECTOR'S WELL REPORT

Permit No. 85-7337

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Kepeco Inc.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>Perkins</u>	16			
Well No. <u>WK-342</u>	13			Size of _____
District <u>Clay</u> County <u>Ritchie</u>	10			
Drilling commenced _____	8 1/4			Depth set _____
Drilling completed _____ Total depth _____	6 3/4			
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names \_\_\_\_\_

Remarks: *With Eldon Morris of Kepeco Inc. make inspection of site on reclamation. Found reclamation OK. can release as soon as IV 35 is filed.*

9-6-85  
DATE

Samuel N. [Signature]  
DISTRICT WELL INSPECTOR

1-17-2023







INSPECTOR'S PERMIT SUMMARY FORM

(3-8-85)

WELL TYPE \_\_\_\_\_  
ELEVATION 854  
DISTRICT CLAY  
QUADRANGLE PENNSBORO 7.5  
COUNTY RITCHIE

API# 47-085 - 7337  
OPERATOR KEPCO, INC  
TELEPHONE \_\_\_\_\_  
FARM MARIE O. PERKINS  
WELL # WK-342

SURFACE OWNER \_\_\_\_\_ COMMENTS \_\_\_\_\_ TELEPHONE \_\_\_\_\_

TARGET FORMATION \_\_\_\_\_ DATE APPLICATION RECEIVED \_\_\_\_\_

DATE STARTED \_\_\_\_\_

LOCATION 5-22-85 NOTIFIED 5-22-85 DRILLING COMMENCED 5-30-85

WATER DEPTHS 35' <sup>1"STREAM</sup>, 270' <sup>3/4"STREAM</sup>, \_\_\_\_\_, \_\_\_\_\_

COAL DEPTHS \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

CASING

Ran 202' feet of 1 1/4" "pipe on 5-31-85 with 110 SACKS fill up  
Ran 1530 feet of 8 5/8" "pipe on 6-4-85 with 310 SACKS fill up  
Ran 5805 feet of 4 1/2" "pipe on 6-8-85 with 410 SACKS fill up  
Ran \_\_\_\_\_ feet of \_\_\_\_\_ "pipe on \_\_\_\_\_ with \_\_\_\_\_ fill up

TD 5830 feet on 6-8-85

**RECEIVED**  
DEPARTMENT OF ENERGY  
OIL AND GAS

PLUGGING

APR 15 1986

Type	From	To	Pipe Removed

Pit Discharge date: \_\_\_\_\_ Type \_\_\_\_\_

Field analysis                      ph \_\_\_\_\_                      fe \_\_\_\_\_                      cl \_\_\_\_\_

Well Record received \_\_\_\_\_

Date Released 4-9-86

*Samuel N. Hersman*  
Inspector's signature

11/24/2023



API# 47 085 - 7337

LIST ALL VISITS FOR THIS PERMIT

	DATE	TIME	PURPOSE	COMMENTS
1	5-22-85		visit - check brush work	
2	5-31-85		visit - Running surface casing	
3	6-5-85		visit - Pick up casing report	
4	6-11-85		visit - Pick up T.D. Report	
5	9-6-85		visit - check reclamation status	
6	4-9-86		Make Final inspection	
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Notes



**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 085 - 7337 -			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103		Section of NGPA	Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5610 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Kepeco, Inc.		039431	
	Name		Seller Code	
	436 Boulevard of the Allies			
	Street			
	Pittsburgh	PA	15219	
	City	State	Zip Code	
5.0 Location of this well: (Complete (a) or (b).) (a) For onshore wells (35 letters maximum for field name.)	Clay District			
	Field Name			
	Ritchie	PA		
	County	State		
(b) For OCS wells:	Area Name			
	Block Number			
	Date of Lease:			
	Mo. Day Yr.			
	OCS Lease Number			
(c) Name and identification number of this well: (35 letters and digits maximum.)	Perkins #2 (WK-342)			
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Name			
	Buyer Code			
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	25 Million Cubic Feet			
	(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	3 . 0 1 7	0 . 2 4 1	3 . 2 5 8
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	3 . 0 1 7	0 . 2 4 1	3 . 2 5 8
9.0 Person responsible for this application:	B. L. Wolcott			
Agency Use Only	Name		Title	
Date Received by Juris. Agency	Signature			
Date Received by FERC	7-8-85		(412) 391-7760	
	Date Application is Completed		Phone Number	



APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
 PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
 (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion-tight formation gas
108	0	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)
1			
2			
3			
4			
5			
6			

Remarks:



# 3188-24

FORM IV-48WC  
(02-84)  
WK-342

STATE OF WEST VIRGINIA

JUL 30 1985

DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: July 8, 1985

Applicant's Name: Kepeco, Inc. 25900

Address: 436 Blvd. of the Allies  
Pittsburgh, PA 15219

Gas Purchaser Contract No. \_\_\_\_\_

Date of Contract \_\_\_\_\_  
(Month, day and year)

First Purchaser: Not yet designated P629

Address: \_\_\_\_\_  
(Street or P.O. Box)

(City) (State) (Zip Code)

FERC Seller Code 039431

AGENCY USE ONLY  
WELL DETERMINATION FILE NUMBER  
950715 -1030-085- 7337  
Use Above File Number on all  
Communications Relating to This Well

Designated Agent: E. L. Stuart

Address: P.O. Box 1550  
Clarksburg, WV 26301

FERC Buyer Code \_\_\_\_\_

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: B. L. Wolcott  
(Print)

Operations Manager  
(Title)

Signature: B. L. Wolcott

Address: 436 Blvd. of the Allies  
(Street or P.O. Box)  
Pittsburgh, PA 15219

Telephone: 412 391-7760  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
  - 102-2 2.5 Mile Test
  - 102-3 1000 Foot Deeper Test
  - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
  - 103 New Onshore Production Well
- 107 High Cost Natural Gas
  - 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressured Brine
  - 107-2 Coal Seams
  - 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
  - 108- Stripper Well
  - 108-1 Seasonally Affected
  - 108-2 Enhanced Recovery
  - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY  
**QUALIFIED**  
11/24/2023

RECEIVED

JUL 15 1985

OIL & GAS DIV.  
DEPT. OF MINES

Date Received

Determination Date



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date July 8 1985

Operator's Well No. WK-342  
API Well No. 47 - 085 - 7337  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

WELL OPERATOR Kepeco, Inc.  
ADDRESS 436 Boulevard of the Allies  
Pittsburgh, PA 15219  
GAS PURCHASER Not yet designated  
ADDRESS \_\_\_\_\_

DESIGNATED AGENT E. L. Stuart  
ADDRESS P.O. Box 1550  
Clarksburg, WV 26301  
LOCATION: Elevation 854.9'  
Watershed Poplarlick Run  
Dist. Clay County Ritchie Quad. Pennsboro  
Gas Purchase Contract No. \_\_\_\_\_  
Meter Chart Code N/A  
Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: May 30, 1985

Indicate the bottom hole pressure of the well and explain how this was calculated:

$$BHP = P_I + P_I(e^X - 1)$$

$$P_I = 1325 \text{ psi}$$

$$X = \frac{GL}{53.34T} = 0.100$$

$$G = 0.54$$

$$L = 5714'$$

$$T = 577^\circ R$$

$$X = 2.71828$$

$$BHP = 1464 \text{ psig}$$

AFFIDAVIT

I, B. L. Wolcott, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

B. L. Wolcott  
Operations Manager

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF ALLEGHENY, TO WIT:

I, EARL W. Beckett, a Notary Public in and for the state and county aforesaid, do certify that B. L. Wolcott, whose name is signed to the writing above, bearing date the 11th day of July, 1985, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 11th day of July, 1985. My term of office expires on the 4th day of August, 1988.

(NOTARIAL SEAL)

Earl W. Beckett  
Notary Public  
EARL W. BECKETT, Notary Public  
Pittsburgh, Alleg  
My Commission Expires August 4, 1988

11/24/2023



**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 085 - 7337 -				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA	3 Category Code			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5610 feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Kepeco, Inc.</u> Name <u>436 Boulevard of the Allies</u> Street <u>Pittsburgh</u> PA <u>15219</u> City State Zip Code			039431 Seller Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Clay District</u> Field Name <u>Ritchie</u> PA County State				
(b) For OCS wells:	Area Name _____ Block Number _____  Date of Lease:           Mo. Day Yr. OCS Lease Number _____				
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Perkins #2 (WK-342)</u>				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Name _____ Buyer Code _____				
(b) Date of the contract:	 Mo. Day Yr.				
(c) Estimated total annual production from the well:	25 Million Cubic Feet				
		(a) Base Price	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	_____	_____	_____	<u>3 . 3 0 0</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>D E R E G</u>	_____	_____	<u>D E R E G</u>
9.0 Person responsible for this application:	<u>B. L. Wolcott</u> Operations Manager Name Title <u>B. L. Wolcott</u> Signature <u>7-8-85</u> Date Application is Completed <u>(412) 391-7760</u> Phone Number				
Agency Use Only	Date Received by Juris. Agency <u>JUL 15 1985</u> Date Received by FERC				



APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
(Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
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107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressed brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	6	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)
1			
2			
3			
4			
5			
6			

Remarks:



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION

get s/A  
JUL 30 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: July 8, 19 85

Applicant's Name: Kepeco, Inc. **25900**

Address: 436 Blvd. of the Allies  
Pittsburgh, PA 15219

Gas Purchaser Contract No. \_\_\_\_\_

Date of Contract \_\_\_\_\_  
(Month, day and year)

First Purchaser: Not yet designated **P629**

Address: \_\_\_\_\_  
(Street or P.O. Box)  
\_\_\_\_\_  
(City) (State) (Zip Code)

FERC Seller Code 039431

AGENCY USE ONLY  
WELL DETERMINATION FILE NUMBER  
850715 - 1073-085 - 7337  
Use Above File Number on all  
Communications Relating to This Well

Designated Agent: E. L. Stuart

Address: P.O. Box 1550  
Clarksburg, WV 26301

FERC Buyer Code \_\_\_\_\_

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: B. L. Wolcott  
(Print)

Signature: B. L. Wolcott

Operations Manager  
(Title)

Address: 436 Blvd. of the Allies  
(Street or P.O. Box)  
Pittsburgh, PA 15219

Telephone: 412 391-7760  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
  - 102-2 2.5 Mile Test
  - 102-3 1000 Foot Deeper Test
  - 102-4 New Onshore Reservoir
- 103 New Onshore Production Well
  - 103 New Onshore Production Well
- 107 High Cost Natural Gas
  - 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressured Brine
  - 107-2 Coal Seams
  - 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

- 108 Stripper Well Natural Gas
  - 108- Stripper Well
  - 108-1 Seasonally Affected
  - 108-2 Enhanced Recovery
  - 108-3 Temporary Pressure Buildup

AGENCY USE ONLY  
**QUALIFIED**  
11/24/2023

RECEIVED

JUL 15 1985

OIL & GAS DIV.  
DEPT. OF MINES

Date Received

Determination Date



DEVIATION FROM SHALE GAMMA RAY LOG ANALYSIS  
 APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
 PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Kepeco, Inc. Agent: E. L. Stuart  
 Type Determination being sought - 107 (Devonian Shale)  
 API Well No.: 47-085-7337 Well Name: Perkins #2 (WK-342)  
 West Virginia Office of Oil and Gas County: Ritchie  
 References: SJA File No.

Vol.      Page      Line     

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 148 \* API Units
2. Remarks:

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value =  $\frac{148}{0.7}$  \* API Units
2. Calculation:  $\frac{0.7 \text{ (GR Value at Base Line)}}{0.7 \text{ (} \underline{148} \text{ *)}} = \underline{103.6}$  API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
2312'	5831'	3519'	51'

Total Devonian Interval 3519'

Total Less Than 0.7 (Shale Base) 51'

% Less Than 0.7 (Shale Base Line) =  $\frac{.0145}{.0145} \times 100 = \underline{1.45\%}$

\*Marked on log included with analysis.

\*\*Top of Devonian Section Recorded on First Interval in this log.

\*\*\*Lesser of 10 or 30' of Devonian Section Recorded as last Interval in this log.

11/24/2023



DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. WK-342

API Well No.

47 - 085 - 7337  
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 107

DESIGNATED AGENT E. L. Stuart

ADDRESS P.O. Box 1550  
Clarksburg, WV 26301

LOCATION Elevation 854.9'  
Watershed Poplarlick Run

Dist. Clay County Ritchie Quad. Pennsboro

Gas Purchase Contract No. \_\_\_\_\_

Meter Chart Code N/A

Date of Contract \_\_\_\_\_

WELL OPERATOR Kepeco, Inc.

ADDRESS 436 Boulevard of the Allies  
Pittsburgh, PA 15219

GAS PURCHASER Not yet designated

ADDRESS \_\_\_\_\_

\* \* \* \* \*

Date surface drilling began: May 30, 1985

Indicate the bottom hole pressure of the well and explain how this was calculated.

$BHP = P_I + P_I(e^X - 1)$

$X = \frac{GL}{53.34T} = 0.100$

$P_I = 1325 \text{ psi}$

G = 0.54  
T = 577°R  
L = 5714  
X = 2.71828  
BHP = 1464 psig

AFFIDAVIT

I, B. L. Wolcott, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(1)(A) has been filed, or as indicated by the report described in subparagraph (3)(1)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

B. L. Wolcott  
Operations Manager

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF ALLEGHENY, TO-WIT:

I, Earl W. Beckett, a Notary Public in and for the state and county aforesaid, do certify that B. L. Wolcott, whose name is signed to the writing above, bearing date the 11th day of July, 1985, has acknowledged the same before me, in my county aforesaid.

11/24/2023

Given under my hand and official seal this 11th day of July, 1985.  
My term of office expires on the 4th day of August, 1988.

(NOTARIAL SEAL)

Earl W. Beckett  
Notary Public



MW 3-8-85

10,950'

LATITUDE 39°20'00"

LONGITUDE 80°55'00"

5,100'

L. C. WELLS ET. AL.  
246.87 AC.

6

ELM STUMP

N80°00'W 775.50'  
N62°00'W 660'

S60°00'W 803.90'

FE. INT. & STO. PTRS.  
W/ 3 HACKS

PROP. WELL  
WK-341  
N122°35'W 2034.70'

PROP. WELL  
WK-340

POPLARLICK RUN  
N36°30'W 2145'

C. HURST  
20.44 AC.

S15°00'E 3135'

B. B. HARPER  
105.24 AC.

PROPOSED WELL  
WK-342  
EL. 854.90'

N79°12'E 1844.00'

N 61°00'E 1534.50'

S. MOORE  
117 AC.

S43°00'W 280.50'  
BEECH SHAG HY. STUMP

N15°00'E 1386'  
S29°09'E 1585.60'

PROP. WELL  
WK-482

N50°00'W 1122.00'

D.L. WESTFALL  
130 AC.

FE. POST COR.

PROP. WELL  
WK-481

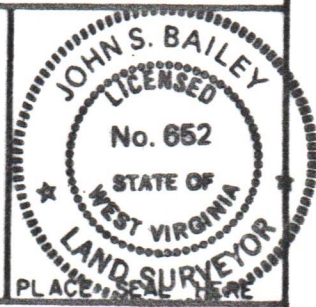
L. JONES ET. AL.  
66.95 AC.

WELL REFERENCE TIES  
WK-342 TO UTILITY POLE N27°04'E 168.20'  
WK-342 TO UTILITY POLE S 81° 30'W 102.10'

FILE NO. MSES 85-607  
DRAWN BY \_\_\_\_\_  
SCALE 1"=1000'  
MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
PROVEN SOURCE OF ELEVATION BM EL 857' BRIDGE ON RT. 74 OVER POPLARLICK RUN

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 MINES.

(SIGNED) John S. Bailey  
R.P.E. \_\_\_\_\_ L.L.S. 652



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



DATE JANUARY 15, 19 85  
OPERATOR'S WELL NO. WK-342  
API WELL NO. 47-085-7337  
STATE COUNTY PERMIT

Department of Mines  
Oil & Gas Division

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)

LOCATION: ELEVATION 854.90' WATER SHED POPLARLICK RUN  
DISTRICT CLAY COUNTY RITCHIE  
QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER MARIE O. PERKINS ACREAGE 126.71  
OIL & GAS ROYALTY OWNER RUTH B HARLEY E SPENCER LEASE NO. KW-694  
LEASE ACREAGE 163

11/24/2023

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 DEVONIAN SHALE ESTIMATED DEPTH 5995'  
WELL OPERATOR KEPCO, INC. DESIGNATED AGENT E.L. STUART  
ADDRESS 436 BLVD. OF THE ALLIES ADDRESS P.O. BOX 1550  
PITTSBURGH, PA. 15219 CLARKSBURG, W.V. 26301