

IV-35		ARIN	Sinds of Mes	S. C. L. C.	Date	October 20	, 1982	
(Rev 8-81)		"03	Operato Well No	Operator's Well No. WK-58				
	Jack March	? 10ps	Farm	Farm Maurine S. Hadley				
	J. J. J.	CINISION	S Sebaumin o	APT No.	API No. 47 - 095 - 0915			
E201	مند و	GUS INVIO	OH HIE GER	ट्यागडाम	741.0		0994	
MN 5.4 1883	DEP	.	WELL OPERATOR OF	'S REPORT	•		,	
	DRILLIN	Operator's Operator's Well No. WK-58 Farm Maurine S. Hadley Operator's Well No. WK-58 Farm Maurine S. Hadley API No. 47 - 095 - 0915 OP WELL OPERATOR'S REPORT OF G, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE						
•								
WEIL TYPE:	Oil / (If "Gas,	Gas_x_/ " Producti	Liquid Injection on_x/Undergrou	n_/Wast und Storag	e Disposa e/Deep	l/ p/ Sha	llow_x_/)	
LOCATION: E	levation:	821.0'	Watershed	Indiana Cre	eek			
E	istrict:_	McElroy	County Tyle	er	Quadrangle	≥ Shirley	7.5'	
							•	
	_							
OMPANY	436 Boule	c. vard of the h, PA 15219	Allies	1				
)	Casing	Used in	Left	Cement fill up	
DESIGNATED A	P. 1	0. Box 1550		Tubing	Drilling	in Well	Cu. ft.	
ADDRESS_			•	Size - 20-16 -	·	•		
SURFACE OWNE				Cond.				
				13-10"	222'	222'	95 sks RCF	
			Hadley, et al	9 5/8				
ADDRESS Mid				8 5/8	1827 '	1827'	+10 sx pozmlx 100 sx Class	
OIL AND GAS		3rd St	reet	7				
Lowther			rne, WV 26149	5 1/2				
PERMIT ISSUE				4 1/2	4935 '	4935'	655 sx pozmix	
DRILLING COM		July 13, 19		3				
DRILLING COM		July 20, 19		2			·	
IF APPLICABL CONTINUOUS P				Tinora				
REWORKING.	VERBAL PE			Liners used				
ON N	/A			<u> </u>				
GDOLOGICAL T	'ARGET FOF	WATION	Elk		Dept	h 5600'	feet	
Depth o	f amplet	ed well5	904 feet F	otary x	_/ Cable	⊇ T∞ls		
Water s	trata der	th: Fresh	None Reported feet;	Salt_Repor	ne rted_fæt	- 11		
			ord	=		ed in the	area? No	
OPEN FLOW DA	TA)		
Produci	ng format	ion Commine	led Benson & Rile	Pav	zone dent	•	301 foot	
			0 Mcf/d					
			.89) Fcf/d					
			ow between initi					
Static			psig(surface					
			iple completion-		2.c, a.c.	100	12 2100 11	
					zone den	-h	feet	
			Mcf/d					
			Mcf/d					
			ow between initi					
Static			psig(surface					
		1						

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

Perfs: Benson 4813'-4818'

21 holes

9 holes,

Avg. press. 2500 psi; Avg. rate 25 BPM

Riley 4391'-4395' 24406'-4410' 4418'-4422'

9 holes 9 holes

Avg. press. 2900 psi; Avg. rate 24 BPM

Fractured:

7/28/82

Halliburton

2 stage frac job

1st stage 20,000 lbs. 20/40 2nd stage 25,000 lbs. 20/40

KC1, Nitrogen, J-266, W-22, U-42

WELL LOG

		•	•
FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEET	REMARKS Including indication of all fresh
Shale Sand and shale Shale and siltstone Sand Shale Sand Shale Sand Shale Sand and shale Little Lime Shale Big Lime Shale Big Injun Shale and siltsonte Gordon Shale 5th Sand Shale and siltstone Riley Shale Benson Shale and siltstone TD TWO bralle	0' 336' 428' 554' 574' 794' 806' 1016' 1034' 1141' 1706' 1722' 1788' 1820' 1836' 1954' 2540' 2548' 2732' 2744' 4640' 4812' 4818'	336' 428' 554' 574' 794' 806' 1016' 1034' 1141' 1706' 1722' 1788' 1820' 1836' 1954' 2540' 2548' 2732' 2744' 4640' 4660' 4812' 4818' 5904'	* Electric Logs tops? * Gas \$ 3904 \ 3050 \ \warman \warman \warman \ 2854 \ \expl. \nabla 3.
540°4 995 0 395			production 1984-1999 117, 226 mcf

(Attach separate sheets as necessary)

K	EPCO, INC.		
M311 01	EPCO, INC. cerator		
By:	6247	Operations	Manager
Date:	October 20,	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 con!, encountered in the drilling of a well." $f_{Q_{p_i}}$

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

TELEPHONE: (304) 348-3092



Date: Apri	16	, 19	82
Operator's Well No	WK-58		
API Well No.	47	005	09011

State ' County

Permit

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

		AS WELL PERMIT APPLICATION
WELL TYPE:	Oil/ Gas X	
WEEE TITE.		// Underground storage/ Deep/ Shallow /)
LOCATION:	Elevation: 821.0-	
	*	County: Tyler Quadrangle: Shirley 7.5 min.
WELL OPERATOR		DESIGNATED AGENT Kepco, Inc.
•		Address % E. L. Stuart
_	ittsburgh, PA 15219	
OIL & GAS ROYALTY OWNE	R <u>Maurine S. Hadley</u>	and COAL OPERATOR
Address	Betty Lou Robinson	Agent for others Address
	Middlebourne, WV	•
Acreage -	144.0	COAL OWNER(S) WITH DECLARATION ON RECORD:
•	Maurine S. Hadley	
Addless _	Middlebourne, WV	Address Middle Bourne, wv 20149
Acreage	137.38	Name
FIELD SALE (IF		Address
-	Unknown at this ti	
		COAL LESSEE WITH DECLARATION ON RECORD:
OIL & GAS INSPI	ECTOR TO BE NOTIFIED	NameNameNameNameNAME NameNAME NameNAME NameNAME NAME NAME NAME NAME NAME NAME NAME
		APR 2 6 1982
Address	R/ Ø./ B6 x 1028 3	APR 2 6 1982
		OIL AND GAS DIVISION W DEPARTMENT OF MINES
_		26145
		te for oil or gas purposes at the above location under a deed X lease
other contract	/ datedJuly 1	, 19, to the undersigned well operator from
(IF said deed, lease	, or other contract has been	recorded:)
		office of the Clerk of the County Commission of Tyler County, West
Va., in <u>Deed</u>	Book 226 at 1	page 380 . A permit is requested as follows:
PROPOSED WO	RK: Drill X / Drill deepe	r/ Redrill/ Fracture or stimulate/
	Plug off old formation	Perforate new formation/
	Other physical change in	well (specify)
		-
	-planned as shown on the	ne work order on the reverse side hereof.
The above named	coal operator, coal owner(s), an	d coal lessee are hereby notified that any objection they wish to make or are required to
make by Code \$22-4		artment of Mines within fifteen (15) days after the receipt of this Application by the
Department.		
Copies of this Perr	nit Application and the enclosed	I plat and reclamation plan have been mailed by registered mail or delivered by hand to
	n operator, coal owner(s), and of Mines at Charleston, West Vi	coal lessee on or before the day of the mailing or delivery of this Permit Application to
		rginia.
PLEASE SUBMIT OGEOPHYSICAL LOTO:		Kepco, Inc.
WEST VIRGINIA	OIL AND GAS	Well Operator
CONSERVATION		N / N - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
SION		By H. E. Gardner

PROPOSED WORK ORDER

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

DRILLING CO	ONTRAC	TOR (IF	KNOWN	i)	Un	known at t	his time		
				Ad	dress				
								·	
GEOLOGICAI	L TARGE	T FORM	IATION,	E1	k				
Estimate	d depth	of compl	eted wel	l,		<u>5600</u> fee	et Rotary	y <u>x</u> / Cat	ole tools/
Approxi	mate wate	er strata	depths:	Fresh	ı,	30 feet	; salt, <u>20</u>	050 feet.	
Approxi	mate coal	l seam de	pths: 4	00 '	and	600' Is coal	being mined	in the area? Yes	/ No <u>X</u> /
CASING AND	TUBING	G PROGI	RAM						
CASING OR TUBING TYPE		CIFICATI Grade	ONS Weight per ft	New	Used	FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	11-3/4						20'		
Conductor	11-3/4	п-40	4 211		X		20		Kinds
Fresh Water									
Coal		<u> </u>				_			Sizes
Intermediate	8-5/8"	 		Х		1200'	1200'	Circulate	
Production	4-1/2"	J - 55	10.5#	X			5500'	550 SX	Depths set
Tubing	ļ	<u> </u>						Gros rey	641-le 15:07
Liners								D	Perforations:
									Top Bottom
"Rec prev Code A	clamation iously paid > \$22-4-8a separate F	Plan", a d on the s a from the Form Iv-2	pplicable ame well se owner	to the foot and	e recla ee req y wate uired :	amation required by Code ser well or dwelf for fracturing o	ed by Code \$ 22-4-12a, and lling within 20 r stimulating a	wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the confect of the propose well where fracturing a Form IV-2 filed in confect of the propose to the propose to the propose well where fracturing a Form IV-2 filed in confect of the propose to the propos	ion 23, (iv) unless consent required by d well.
		- 4-75	T THE V	NELL !	SITE.	22			
ras poduát A	AUCT OF T	208027 2080270		ace V	VITH (CHAPTER 22.			
ALL PROPERTY		and the second	ns. 7745		HON	(10 HENDER	re		
ARTICLE 4 C	dr	illing	·	7H.13	PERMI	T SHALL EXPI	ĭ		
APPROVED F	OK We WAY	E NOT C	CMINED	iced i	βY				
IF OPERATION	No	1/p							
BY									
••••••		••••	• • • • • • • • •	••••	• • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••		••••••
								al owner or coal lessed fifteen (15) days of a	
						WAI	VER		
The undersig	ned has n	o objection	on to the	work	Dropo	vers the area of	the well location	on, the well location h	well location has examined this as been added to the mine map. operator has complied with all
								Mourine	Hadley
Date: Ap	ril s	7/	, 19	82	_		Ву	Maurine S.	Hadley
		·-•					Its	Owner	