



IV-35 (Rev 8-81)

RECEIVED
AUG 2 4 1984

## State of West Birginia

Department of Mines Gil und Gas Pivision

Date	July 23,	1984
Operato		
Well No		JK-853
Farm_	Spurlock	
ADT No.	47 - 017	3307

OIL & GAS DIVISION

DEPT. of MINES

WELL OPERATOR'S REPORT

OF

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Underground	/ Wast nd Storag	e Disposa: e/ Deep	L/ p/ Sha	llow <u>x</u> /)
LOCATION: Elevation: 1258 Watershed Pik	e Fork			<del>.</del>
District: McClellan County Doddr			€ Folsom	7.5
COMPANY Kepco, Inc.				
ADDRESS 436 Blvd. of the Allies Pitts. PA15219				Cement
DESIGNATED AGENT E. L. Stuart	Casing	Used in	Left	fill up
ADDRESS Box 1550 Clarksburg WV 26301	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER Charles F. Michels Howard Spurlock	Size 20-16			
ADDRESS	Cond.			
MINERAL RIGHTS OWNER C.W. Mutschelknaus et al	13-10*	38	38	10 SK
ADDRESS Rt. 1, Box 52 Salem WV 26426	9 5/8			390 SK
OIL AND GAS INSPECTOR FOR THIS WORK Mike	8 5/8	1737	1737	Neat
Underwood ADDRESS Rt. 2, Box 114 Salem WV 26426	7			
PERMIT ISSUED April 12, 1984	5 1/2			320 SK
DRILLING COMMENCED June 10, 1984	4 1/2	5386	5386	Pozmix
DRILLING COMPLETED June 17, 1984	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
GEOLOGICAL TARGET FORMATION Benson		D	- E206	
Depth of completed well 5958 feet R	V		th 5306	fæt
-				
Water strata depth: Fresh 135' feet;		WALKETT STREET, STREET		
Coal seam depths: 445'	is war	pend "m	er ni næ	arear NO
OPEN FLOW DATA	_		4257	5220
Producing formationBalltown, upper Benson,		•		06 feet
Gas: Initial open flow 0 Mcf/d				
Final open flow 184 Mcf/d				***************************************
Time of open flow between initi			The second secon	
Static rock pressure 1325 psig(surface		rent) afte	r_48_hou	ırs shut in
(If applicable due to multiple completion-				
Second producing formation				feet
Gas: Initial open flow Mcf/d			-	Bbl/d
Final open flow Mcf/d				
Time of open flow between initi		· ·		
Static rock pressure psig(surface	measureme	ent) after	hou	urs shut in

FORM IV-35 (REVETAR)

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

Perforated June 26, 1984 Young Wireline Co.

 Balltown
 4257-4262
 Avg Press 2850 psi
 Avg Rate 20 BPM

 Upper Benson
 5220-5230
 Avg Press 3300 psi
 Avg Rate 23 BPM

 Benson
 5306-5311
 Avg Press 2975 psi
 Avg Rate 20 BPM

Fractured June 26, 1984 Halliburton Service Waterfrac with nitrogen assist

 Balltown
 25000 lbs 20/40 sand

 Upper Benson
 20000 lbs 20/40 sand

 Benson
 27500 lbs 20/40 sand

#### WELL LOG

			<u> </u>		
EXPLANTION CO.			REMARKS		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fre		
	·		and salt water, coal, oil and ga		
Sand & Shale	0	65			
Sand	65	135	Fresh Water @ 135'		
Sand & Shale	135	185	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Shale & Red Rock	185	445			
Coal	445	448			
Shale	448	470			
Sandy Shale	470	760			
Sand	760	810			
Sandy Shale	810	910			
Shale & Red Rock	910	975			
Sandy shale	975	1045			
Shale & Red Rock	1045	1385			
Sand	1385	1415			
Shale	1415	1545			
Sand	1545	1610			
Sandy Shale	1610	1700			
Sand	170 <b>0</b>	1755			
Sandy Shale	175 <b>5</b>	1975			
Sand	1975	2025			
Sand & Shale	2025	2177	· •		
Little Lime	2177	2192			
Big Lime	2209	2278			
Big Injun	2278	2376			
Berea	2702	2761			
Gantz	2870	2882			
Gordon	2952	2973			
5th Sand	3078	3094			
Warren	3621	3651			
Speechley	3671	3728			
Balltown	4256				
Bradford	4592	4262			
Riley	5106	4665			
Upper Benson	5220	5158			
Benson	5300	5231			
Alexander	5500	5310			
Shale	5514	5514	· ·		
	2214	5958	TOTAL DEPTH		
		FIRM TO			

(Attach separate sheets as necessary)

Kepco, Inc.	
Well Operator	
By: Adadosh	Operations Manager
Date: July 23, 1984	Speciations Manager

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 and, encountered in the drilling of a well."

FILE COPY



1)	Date:	March	13		 . 19	84
2)	Operator's					
	Well No	JK-8	50			
3)	API Well No	47 _		017	 3307	

County

Permit

State

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

### APPLICATION FOR A WELL WORK PERMIT

4) WELL				-					
	В	(If "Gas				/ Underground st	orage	/ Deep	_/ Shallow x/)
5) LOCA	TION:	Elevation	3.0 - 7 - 7				Pike Fork		
		District:				County: <u>Dodd</u>	dridge	Quadrangle:	Folsom 7.5
6) WELL	OPERAT				es, I	nc. 7	) DESIGNATE	DAGENT Richar	d Reddecliff
Add	dress _		P.O. Box				Address	P.O.	Box 48
			Buckhanı	ion,	WV 2	<u>6201                                    </u>		Buc	khannon, WV 26201
8) OIL & Name	3.6		TO BE NOTE	FIED		9	) DRILLING C		lling Company
	dress	Rt.#	2, Box	114			Address	P.O. E	
			m, WV 2				Addiess	Buckha	
10) PROP	OCED WE	T WORK	. D-ill	x	_/ Drill	<b></b>	/ D.1.33		
10) FROF	OSED WE	LL WORK						/ Stimulate	
						Perforat			
III CEOX	OCICAI T	יו ידייור) וו				n well (specify) kander			WAR 2 7 1934
			ORMATION		5450				
· ·	-		pleted well,		50	feet	0		OIL & GAS DIVISIO
			is: Fresh, _			feet; salt,_		feet.	DERJ. OF MIN
, -			depths: $\frac{47}{}$	2		Is coal	being mined in th	e area? Yes	DE No. OF IVI
15) CASIN	NG AND T								
CASING OR TUBING TYPE	PE	S	PECIFICATION Weight	s		FOOTAGE IN	TERVALS	CEMENT FILL-UP	PACKERS
	Siza			New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	113,	/4 H-4	10 42	x		30	. 0	. 0 sks.	Kinds
Fresh water	85,	/8 ERV	V 23	Lx_		Noo 1358	M00/35	8 TO surface	NEAT
Coal	85,	/8 ERV	V 23	x		1400	1400	To surface	Sizes
Intermediate						•		T-V-3WL-GUE	
Production	41/2	J-5	55 10.5	×		5400	5400	325 sks.	Depths set
Tubing	1						3 100	19	ea by rule 15.0,
Liners								1 01 001	Perforations:
								1	Top Bottom
					3 1			_1	1
			***************************************	WF 67 1		OFFICE USE OF	VI V		
	***************************************				<del></del>	DRILLING PER			
						DRALLERING I EN	TABE R		•
Permit numb	er4	7-017-	3307					April 12	2, 19 84
								Dat	
This permit o	covering the	e well oper	ator and we	l locatio	on shown	below is evidence of	permission grant	ed to drill in accordan	ce with the pertinent legal re-
quirements si	ubject to th	e condition	ns contained	herein a	ind on th	e reverse hereof. Noti	fication must he o	given to the District Oil	and Cas Inspector (Defer to
no. <i>8) Prior</i> listrict oil ar	to the cons	ector 24 ho	roads, locat	ions and	l pits for rmitted u	any permitted work. A cork has commenced.	In addition, the w	rell operator or his con-	tractor shall notify the proper
everse hereo	od work is a	s described	i in the Notic	e and A	pplicatio	n, plat, and reclamati	on plan, subject t	to any modifications ar	nd conditions specified on the
Permit expire	Α	pril 1	2, 1986			umlass well w		landa da di	
CHINE CAPITO	-S					unless well w	ork is commenced	prior to that date and	prosecuted with due diligence.
Bogdwxx;	A A	gent: 👉	Plat:	Casin	g	Fee			
		Un l	mII	ha	// /	1171	-0		<i>)</i>
L	1-1	_/	IIN	<u>'''</u>	7 1/	LIT 7	1/21-	14/1	/_
							1 /WZOKI	161 J. XJ	USIE.
1000		C -1.	•		4	•	//Adm	inistrator, Office of O	il and Gas
NOTE: Kee	p one copy	of this pe	rmit posted	at the di	rilling loc	ation.	//		
· · · · · · · · · · · · · · · · · · ·			4h	* *		DF 165 A D 155			File