

IV-35
(Rev 8-81)

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OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date June 29, 1984
Operator's
Well No. JK-862 WK-440
Farm Adams, C.
API No. 47 - 017 - 3310

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas," Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1077 Watershed A Branch of Straight Fork
District: Southwest County Doddridge Quadrangle Oxford 7.5

COMPANY Kepeco, Inc.
ADDRESS 436 Blvd. of the Allies
Pittsburgh, PA 15219
DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48
Buckhannon, WV 26201
SURFACE OWNER Coy Adams,
ADDRESS _____
MINERAL RIGHTS OWNER W. R. Brown, hrs. et al
ADDRESS c/o Mrs. James Sneddon
1656 Jackson St. Charleston, WV 25303
OIL AND GAS INSPECTOR FOR THIS WORK Mike
Rt. 2 Box 114
Underwood ADDRESS Salem, WV 26426
PERMIT ISSUED April 12, 1984
DRILLING COMMENCED May 18, 1984
DRILLING COMPLETED May 23, 1984
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 Cond.			
13-10"	30'	30'	10 sks Class "A"
9 5/8			
8 5/8	1483'	1483'	365 sks Neat
7			
5 1/2			
4 1/2	5128'	5128'	480 sks Pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Elk Depth 5013 feet
Depth of completed well 5563 feet Rotary / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt 1725 feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Elk, Bradford Pay zone depth 5013, 3910 feet
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 160 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 8 hours
Static rock pressure 1450 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

(Continue on reverse side)

OCT 09 1984

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

Perforated 6-5-84 Perfco Wireline

Bradford 3910'-4350' Avg. press 2900 psi Avg rate 18 BPM
~~Elk~~ *alex* 5013'-5062 Avg. press 1900 psi Avg. rate 25 BPM

Fractured 6-5-84 Halliburton Services, Water frac with Nitrogen assist

Bradford 10,000 lbs. 20/40 sand
 Elk 32,500 lbs. 20/40 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
Clay			0	15	From Driller's Log
Sand			15	40	
Red Rock			40	55	
Shale			55	80	
Sand			80	115	
Shale			115	200	
Red Rock/Shale			200	695	Damp @ 500'
Sand			695	720	
Shale			720	800	
Red Rock/Shale			800	945	
Sand and Shale			945	1250	
Sand			1250	1310	
Shale			1310	1510	
Sand			1510	1554	From Electric Log
Shale			1554	1647	
Sand			1647	1723	
Lime & Shale			1723	1836	Salt water @ 1725'
Big Lime			1836	1896	
Big Injun			1896	1964	
Shale			1964	2114	
Weir			2114	2234	
Shale			2234	2352	
Berea			2352	2355	
Sandy Shale			2355	3550	
Balltown			3550	3660	
Shale			3660	3910	
Bradford			3910	3960	
Shale			3960	4742	
Benson			4742	4760	
Shale			4760	5010	
1st Elk <i>alex</i>			5010	5061	
Shale			5061	5516	
TD				5516	

Elk @ TD

(Attach separate sheets as necessary)

KEPCO, INC.
 Well Operator
 By: *[Signature]*
 Date: June 29, 1984

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."



1) Date: March 14, 19 84
 2) Operator's Well No. JK-862
 3) API Well No. 47 - 017 - 3310
 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 X
 B (If "Gas", Production X / Underground storage / Deep / Shallow X)
 5) LOCATION: Elevation: 1077 Watershed: A Branch of Straight Fork
 District: Southwest County: Doddridge Quadrangle: Oxford 7.5
 6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name S.W. Jack Drilling Company
 Address EC # 2, Box 292-D Salem WV Address P.O. Box 48
Jane Lew, WV 26378 782-1043 Buckhannon, WV 26201
 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5000 feet
 13) Approximate strata depths: Fresh, 550 feet; salt, 0 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No X

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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	113/4	H-40	42	X		30	0	0 sks.	Kinds
Fresh water	85/8	ERW	23	X		1000	1000	To surface	NEAT Sizes
Coal	85/8	ERW	23	X		1000	1000	To surface	
Intermediate									
Production	4 1/2	J-55	10.5	X		4950	4950	325 sks.	Depths set
Tubing									or as req. by rule Perforations: 15.0'
Liners									
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3310 Date April 12, 19 84

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 April 12, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>LS</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>1478</u>
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T. J. [Signature]
 Administrator, Office of Oil and Gas

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