

TAAL	State of West Virgini
Reviewed TM6	DEPARTMENT OF ENERGY Division of Oil and G
Recorded	· · · · · · · · · · · · · · · · · · ·

Well Operator's Report of Well Work

Farm name: ARBOGAST, ARLET JR. ETUX Operator Well No.: B. LYNCH * E-173

Elevation: 1362.00 Quadrangle: BIG ISAAC LOCATION:

> GREENBRIER District: County: DODDRIDGE 14400 Feet South of 39 Deg. 15Min. 0 Sec. Latitude:

Longitude 1600 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EXCEL ENERGY, INC

P. O. BOX 1020

BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: MIKE UNDERWOOD

Permit Issued: 09/26/91 Well work Commenced: 10/10/91 Well work Completed: 10/16/91 Verbal Plugging

Permission granted on:
Rotary x Cable
Total Depth (feet) Rig 5685 dtd Fresh water depths (ft) 90,260

Salt water depths (ft)

Is coal being mined in area (Y/N)? x Coal Depths (ft): 1060+65

Casing & Tubing	Used in Drilling		Cement Fill Up Cu. Ft.
Size			
11 3/4"	Conductor	_	_
8 5/8"	1416'	1416"	cts
4 1/2"	5512'	5512'	300sks
	-		

OPEN FLOW DATA

Producing formationAlexander Pay zone depth (ft)5433-39 Gas: Initial open flowshow MCF/d Oil: Initial open flow n/a Bb1/d Final open flow 1690 MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Static rock Pressure 1600 psig (surface pressure) after Hours

Second producing formation Benson Pay zone depth (ft)5088-5106 Gas: Initial open flow show MCF/d Oil: Initial open flow n/a Bbl/d Final open flowcommingledCF/d Final open flow show Time of open flow between initial and final tests 6 Bbl/d Hours Static rock Pressurecomminglersig (surface pressure) after 24

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EXCEL ENERGY, INC

Date:

DETAILS OF PERFORMIED INTERVALS, FINCTURING OR STITULATING, PHYSICAL CHARGE, EIC.

- I. (5433-5439) 18 holes, 500 gal 15% HCL, 350 sks sand, 473 bbl gelled $\rm H_2O$, 60 mcf $\rm N_2$
- II. (5088-5106) 36 holes, 750 gal 15% HCL, 550 sks sand, 648 bbl. gelled $\rm H_{2}O$, 80 mcf $\rm N_{2}$

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	DOTION FEET	Judiciation of all fres and salt water, coal, oil and ga
SAND SAND & SHALE SAND SNAD & SHALE COAL SAND & SHALE LITTLE LIME SHALE BIG LIME INJUN SAND SHALE SAND SHALE BENSON SAND SHALE SAND (ALEXANDER) SHALE	0 15 420 455 1060 1065 2134 2150 2174 2250 2332 2912 2930 5085 5110 5430 5470	15 420 455 1060 1065 2134 2150 2174 2250 2332 2912 2930 5085 5110 5430 5470 5686	H ₂ 0 @ 90', 260' 1/2" oil @ 2230 gas show gas show DTD

FORM WW-2B SEP 19 1991

017-3914 Issued 09/26/91 Page_of Cypres 09/26/93

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND G

WELL WORK PERMIT APPLICATION Well Operator: EXCEL ENERGY, INC. 16570 (4) 252 1) Operator's Well Number: E-173 3) Elevation: 1362' 2) 4) Well type: (a) Oil__/ or Gas_X/ (b) If Gas: Production X / Underground Storage_ Deep__/ Shallow X Proposed Target Formation(s): Benson/Alexander 5) 6) Proposed Total Depth: 5800 feet 7) Approximate fresh water strata depths: 129' 8) Approximate salt water depths: None 9) Approximate coal seam depths: None Does land contain coal seams tributary to active mine? Yes__/ No_X/ 10) 11) Proposed Well Work: Drill and stimulate a new well. 12) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT Weight For Left in Fill-up Size Grade per ft. drilling well (cu. ft.) Conductor 9 5/8" 30' 30' ~ Fresh Water Coal Intermediate 7 " 17# 1350' 1350' to surface Production 4 1/2" J-55 10.50# 5780' 5780 ° 500 sks Tubing Liners PACKERS : Kind Sizes Depths set

Fee(s) pa

Well Work Permit ()

WW-2B | Bond

For Divison of Oil and Gas Use Only

Reclamation Fund

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	WW2-A	2)		
(09/8	$SFP I_{0.10}$		Betty Lynch E-173	
File	SEP 19 199;	3)	API Well No: 47 - 017 - 3914	}
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			VIRGINIA	
	DEPARTMENT OF EN	ERGY, DI	VISION OF OIL AND GAS	
	NOTICE AND APPLI	CATION F	OR A WELL WORK PERMIT	
	**************************************	**************************************		
4)	Curface Owner(c) to be cor	wod.	E\ (a) Coal Operation.	
7)	Arlet J. & Debra M. A	rbogast .Tr); (a) Coal Operator:	
	(a) Name Barbara Arbogast		.Name	
	Address Rt 3 Box 92		5) (a) Coal Operator: NameAddress	
	Salem, W. Va. 26426			
	(b) Name		(b) Coal Owner(s) with Declaration	on
	Address		• •	
			Name Willis O. Tetrick	
			Address <u>PO Box 267</u>	
	(c) Name		Clarksburg, WV 26301	
	Address		Name	
			Address	
6)	Inspector Mike Underwood	1	(c) Coal Lessee with Declaration	
0)	Address P+ 2 Par 1	3 E		
	Address Rt.2, Box 1	.33	Name	
	Satem, wv 2	0420	Address	
	Telephone $(304) - 782 - 1043$			
	TO THE PERSON(S)	NAMED ABO	OVE TAKE NOTICE THAT:	
	TO THE PERSON(S)	NAMED ABO	OVE TAKE NOTICE THAT:	
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