

RECEIVED Division of Energy

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Permitting Well Operator's Report of Well Work Oil and Gas. Section

Farm name: LEACH, JO ANNE

Operator Well No.: 2-E-115

LOCATION:

Elevation: 1382.00 Quadrangle: WALLACE

District: SARDIS

County: HARRISON

Latitude: 12685 Feet South of 39 Deg. 25Min. 0 Sec. Longitude 4225 Feet West of 80 Deg. 25 Min. 0 Sec.

Company: EXCEL ENERGY, INC

P. O. BOX 1020

BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: STEVE CASEY

Permit Issued: 05/30/90 Well work Commenced: 07/12/90 Well work Completed: _07/19/90

Verbal Plugging

Permission granted on:

Rotary X Cable
Total Depth (feet) Fresh water depths (ft)

140, 495, 850 Salt water depths (ft)

N/A Is coal being mined in area (Y/N)? N Coal Depths (ft): 468-479

Charge-Charge	Casing	Used in	Left	Cement Fill Up Cu. Ft.	
THE STREET, ST	Tubing	Drilling	in Well		
ne decision against	Size	İ			
de dissession education	11 3/4"	42			
O'- Chinos Gaussia Column	8 5/8"	1408	1408	CTS	
CHARLES CHEMICS STREET	4 1/2"	3868	3868	510 sks	
This enterth experies		Children surgicing	and an analysis of an		
Section Constitute and Principal Section (Constitution Constitution Co					

OPEN FLOW DATA

Balltown,

Producing formation Speechley, Elizabeth Pay zone depth (ft)3260-3726 Gas: Initial open flow Show MCF/d Oil: Initial open flow Bbl/d Bbl/d Static rock Pressure 200 psig (surface pressure) after 24 Hours Second producing formation Fifth Sand Pay zone depth (ft)1902-2834

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow Commingled MCF/d Final open flow _______
Time of open flow hetween initial and final tests ______ Bbl/d Static rock Pressure 200 psig (surface pressure) after 24 Hours

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	AUG 6 1990
		100 0 100A
	By: \ Basala	
	Date: July 27, 1990	

FURT IV-35 (PEVEISE)

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

		400 bbl 75 Q Foam. WELL LOG.
STAGE	ΤV	(1906-1996) 13 holes, 300 sks sand, 500 gal 15% HCL, 400 bbl 75 O Foam.
STAGE	III	(2421-2834) 16 holes, 300 sks sand, 750 gal 15% HCL, 10 perf balls, 600 bbl 75 Q Foam.
STAGE	II	(3263-3454) 12 holes, 250 sks Sand, 500 gal 15% HCL,
STAGE		(3723-3776) 13 holes, 350 sks Sand, 500 gal 15% HCL,

FORMATION COLOR HARD OR SOFT	TOP FEET	DOITION FEET	Including indication of all fresh and salt water, coal, oil and gas
Fill Shale Sand Sand & Shale Coal & Shale Sand & Shale Red Rock Sand & Shale Sand Shale Big Lime Big Injun Sand & Shale Shale Shale Shale Sand Shale Shale Shale Shale Sand Shale	0 10 20 60 468 479 701 1119 1160 1235 1820 1900 1950 2003 2420 2700 3750 3780	10 20 60 468 479 701 1119 1160 1235 1820 1900 1950 2003 2420 2700 3750 3780 3977	½" H ₂ O @ 140 1½" @ 495 1½" @ 850 (slight increase Gas Show 6/10 2" H ₂ O DTD

52501

ECEIVED Desued 05

APR 1 1 1990

	DEPART	STA	TE OF WEST ENERGY, DI	VIRGINIA OF O	L AND GAS			
l) Well Or	erator:		ork permit	APPLICATION 14570		54		
					3) E]	levation: 13		
4) Well ty	/pe: (a)	0il_/	or Ga	s <u>X</u> /				
	(b)	If Gas:	Productio Dee	n <u>X</u> / Undergr p/	ound Storag			
5) Propose	Proposed Target Formation(s): Balltown 433							
6) Propose	Proposed Total Depth: 4000 feet							
7) Approxi	Approximate fresh water strata depths: N/A							
8) Approxi								
9) Approxi								
10) Does la								
				ulate a new				
12)								
		CASI	G AND TUB	ING PROGRAM				
TYPE	<u></u>	PECIFICAT	TIONS	FOOTAGE IN	TERVALS	CEMEN'		
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.		
Conductor	11 3/4"		42#	30 °	***			
Fresh Water								
Coal					ck S	3681811.3		
Intermediate	8 5/8"		23.#	1440'	1440	345 sks		
Production	4 1/2"	J - 55	10.50#	3810'	3810 '	400 sks		
Tubing				of the state of th	یا	36581811.1		
Liners			560					
Dep	zes_ pths set _							
G.	Fy	di niviso	n of Oil a	nd Gas Use	Only	11		

alk Ply

Well Work Permit (

Reclamation Fund &

WECE

	_	2 2 2			
	. *			>	
		/ RECEIVED		no.	. 10 1000
	1 of	1	1)	Date: Apri	1 10, 1990
	WW2-A	APR 1 1 1990		Operator's well number	
(09/8			4.	Rittenhouse E-API Well No: 47 - (<u>-115</u>
F.11e	Copy	DEPT. OF ENERGY	3)		
				State - Cor	unty - Permit
		CENEE OF	r r n a m		
				VIRGINIA	
		DEPARTMENT OF ENERGY	Y, DI	VISION OF OIL AND GAS	
		NOMICO AND ADDITORN		00 3 17011 110011 0001110	
		NOTICE AND APPLICATI	IUN F	OR A WELL WORK PERMIT	
A 1	C.176200 0	wner(s) to be served:	_	E) (-) G1 O	_
4)				• • • • • • • • • • • • • • • • • • •	
		Jo Anne Leach			
		Rt. 1, Box 320		Address	
		Lumberport, WV 263		(b) Conl Oumon(a) wid	bb Daalamatia
	(D) Name.			(b) Coal Owner(s) wit	in Declaration
	Address _			Name N/A	
	/ - \			Address	*
	(C) Name				
	Address	W-11-10-10-10-10-10-10-10-10-10-10-10-10-		Name	
				Address	
<i>C</i> 3	T			(-) 01 1	^
6)	Inspector	Stephen Casey		(c) Coal Lessee with	Declaration
	Address	Rt. 2, Box 232-D		NameAddress	
	m-3	Jane Lew, WV 26378		Address	
	rerebuoue	(304)- <u>745-4888</u>	***********		
		mo mile person(s) Nami	מע אם	OTTE MANE NOMEON MIAMA	
		10 .THE PERSON(S) NAME	ED AB	OVE TAKE NOTICE THAT:	
	T	:-			
				other continuing cont	
				extract oil and gas <u>OF</u>	
				ed by Chapter 22B, Art	cicle 1,
Sect:	ion 8(a) o	f the Code of West V	ırgın	ia (see page 2)	
_	1 certify	that as required und	der C	hapter 22B of the West	<u> Virginia Code</u>
				application, a locati	
accor				on the above named	l parties,by:
	***************************************	onal Service (Affiday			
				stal receipt attached;)
	Publ	ication (Notice of Pu	ublic	ation attached)	
				22B and 38 CSR 11-18,	
to th				it issued under this a	
				t I have personally ex	
				on this application	
attad	chments, a	nd that based on my :	inqui	ry of those individual	ls immediately
respo	onsible fo	r obtaining the infor	rmati	on, I believe that the	∍ information
is t	cue, accur	ate. and complete.			
	I am awar	e that there are sign	nific	ant penalties for subr	mitting false
info	rmation, i	ncluding the possibil	lity	of fine and imprisonme	ent.
	**************************************	Well Opers	zy6r ,	/ Excel Energy, Inc.	
1 Alexander	NOTARY F	PUBLIC & By:	J. 10		.L. Barnett
10000 AND 1	STATE OF WES	TARGES Its:	حر ٠	President	
了程程是我	GWENDOLYN I PLOLES			P.O. Box 1020	
1 Commence	[©] Selagroom, ₩.	Va. 166770		Bridgeport, WV 26	330
Lucia	My Countrience Expires	Telebrone		(304) 842-6927	
Subso	cribed and	sworn pefore me this	s <u>10</u>	thday of Apr	<u>il</u> , 19 <u>90</u>
		\mathscr{G}	1.	10.	
1		Hurndoles	- 1	Wears/	Notary Public
Mar or	ommiccion	oversiros U.	. ^	1000	