

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

Well Operator's Report of Well Work

Farm name: LEACH, JO ANNE Operator Well No.: 1-E-114 LOCATION: Elevation: 1120.00 Quadrangle: WALLACE District: SARDIS County: HARRISON 13750 Feet South of 39 Deg. 25Min. 0 Sec. 3650 Feet West of 80 Deg. 25 Min. 0 Sec. Latitude: Longitude Company: EXCEL ENERGY, INC P. O. BOX 1020 Casing Used in BRIDGEPORT, WV 26330-1020 Left Cement |Fill Up Tubing | Drilling Agent: HARRY L. BARNETT in Well|Cu. Ft. Size Inspector: STEVE CASEY Permit Issued: 05/30/90 11 3/4" Well work Commenced: 06/09/90 Well work Completed: -06/15/90Verbal Plugging 1123' Permission granted on: Rotary X Cable Ri Total Depth (feet) 3600 Fresh water depths (ft) 4 1/2" 3532' 3532" |560 sks Salt water depths (ft) Is coal being mined in area (Y/N)? Coal Depths (ft): 125-130, 160-163 OPEN FLOW DATA Producing formation Speechley & Elizabeth Pay zone depth (ft) 2822-34f Gas: Initial open flow Show MCF/d Oil: Initial open flow Bbl/d Final open flow 582 MCF/d Final open flow Bbl/d Hours Time of open flow between initial and final tests Static rock Pressure 160 psig (surface pressure) after 24 Hours Hours Big Injun Second producing formation & Fifth Sand Pay zone depth (ft) 1575-251 Gas: Initial open flow Show MCF/d Oil: Initial open flow Bbl/d Final open flow Comingled MCF/d Final open flow Time of open flow between initial and final tests Bbl/d Static rock Pressure Comingled sig (surface pressure) after ___ Hours 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. RECEIVED For: EXCEL ENERGY, Division of Energy Permitting

Oil and Gas Section

PUR (PE)

gal 15% HCL.

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

STAGE I	(2822'-3460') 20 holes, 450 sks sand, 650 bbl 75Q foam, 750	
	gal 15% HCL, 10 perf balls.	
STAGE II	(2297'-2503') 21 holes, 300 sks sand, 600 bbl 75Q foam, 750 qal 15% HCL, 10 perf balls.	
	(2094'-2231') 14 holes, 250 sks sand, 450 bbl 75Q foam, 500	
STAGE III	(2094'-2231') 14 holes, 250 sks sand, 450 pb1 750 loam, 500 qal 15% HCL.	
CMACD TU	(1578'-1655') 14 holes, 300 sks sand, 400 bb1 75Q foam, 500	
STAGE IV	(15/6 -1055) 14 hotes, 500 SKS Sand, 400 BB1 /50 10dm, 500	

WELL LOG .

				REWKS
FORMATION COLOR	NARD OR SOFT	TOP FEET	DOTTOM FEET	
Fill		0	10	•
Sand & Shale		10	125	
Coal		125	130	1/2" stream water @ 130'
Sand & Shale		130	160	
Coal		160	163	
Sand & Shale		163	300	
Red Rock & Sh	ale	300	415	
Sand & Shale		415	1447	1/2" stream water @ 1155'
Little Lime		1447	1454	
Shale		1454	1483	
Big Lime		1483	1550	Tipopera de la companio del companio de la companio del companio de la companio della companio de la companio della companio d
Big Injun		1550	1610	
Shale		1610	2108	
Sand		2108	2194	
Shale & Sand		2194	2301	To de constante de la constant
Sand	•	2301	2430	
Shale		2430	3085	
Speechley		3085	3118 3424	· ·
Shale	•	3118	3424	
Balltown Shale		3424 3460	3600	DTD
Slidie		3400	3000	DID
		-		
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FORM WW-2B

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Expres 05/30/92

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL WELL WORK PERMIT APPLICATION

1) Well Op	erator:	Excel En	्रिश् ergy, Inc.	16570	(7) 65	4
		,			3) E]	levation: <u>112</u>
4) Well ty	oe: (a)	0il/	or Gas	5 <u>X</u> /		
	(b)	If Gas:	Production Deep	n <u>X</u> / Undergr o/	round Storac Shallo	
5) Proposed	d Target	Formation	n(s): <u>Ba</u>	litown <3		
6) Proposed	d Total D	epth:	3800	feet		
7) Approxim	mate fres	h water s	strata depi	hs: 150	940	
8) Approxim	mate salt	water de	epths:	N/A	1190'	
9) Approxim	mate coal	seam dep	oths:	380' <i>Ø</i>	207-215	-
10) Does lar	nd contain	n coal se	eams tribut	ary to acti	ive mine? Y	es/ No_X
11) Proposed	Well Wo	rk: Dril:	l and stim	ılate a new	well.	
12)						
		CASIN	IG AND TUBI	NG PROGRAM		
TYPE	SI	PECIFICAT	CIONS	FOOTAGE IN	TERVALS	CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"		42#	30'	-	
Fresh Water					· · · · · · · · · · · · · · · · · · ·	21.00
Coal		The Political and the second depolitical and the			CK S	20000112
Intermediate	8 5/8"	***	23#	1200'	1200	277 sks
Production	4 1/2"	J - 55	10.50#	3600'	3600'-	400 sks
Tubing						388811.1
Liners			gre.			
	d es ths set _					
		or Diviso	n of Oil a	nd Car lice	Only	

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	1 of	1) Date: April 10, 1990
	WW2-A AFK 11 1000	2) Operator's well number
	87) AFR 11	Rittenhouse E-114
	Copy DEPT. OF ENERGY	3) API Well No: 47 - 033 - 3721
1110	DEPT. OF EREMAN	
		State - County - Permit
	CMAME OF	tinom titoatuta
		WEST VIRGINIA
	DEPARTMENT OF ENERG	Y, DIVISION OF OIL AND GAS
	NOTICE AND APPLICAT	ION FOR A WELL WORK PERMIT
4)	Surface Owner(s) to be served	
	(a) Name <u>Jo Anne Leach</u>	Name
	Address Rt. 1, Box 320	Address
•	Lumberport, WV 26	386
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name N/A
		Address
	(c) Name	Address
	(c) NameAddress	Namo
	494	
		Address
6)	Inspector of a	
0,	Inspector Stephen Casey	
	Address Rt. 2, Box 232-D	Name
	<u>Jane Lew, WV 2637</u> Telephone (304)- <u>745-4888</u>	Address
	Telephone $(304) - 745 - 4888$	
	TO TUD DDD 4011/51 1111	
	TO THE PERSON(S) NAM	ED ABOVE TAKE NOTICE THAT:
	. Included is the lease or leas	es or other continuing contract or
cont	racts by which I hold the righ	t to extract oil and gas <u>OR</u>
X	. Included is the information r	equired by Chapter 22B, Article 1,
Sect	ion 8(d) of the Code of West V	irginia (see page 2)
	I certify that as required ur	der Chapter 22B of the West Virginia Code
I ha	ve served copies of this notic	e and application, a location plat, and
acco	mpanying documents pages 1 thr	ough on the above named parties, by:
	Personal Service (Affida	vit attached)
		ed postal receipt attached)
	Publication (Notice of F	ublication attached)
	rabifederon (Motice of F	abileation attached,
	I have read and understand Ch	
+0 +	I have read and understand Ch	apter 22B and 38 CSR 11-18, and I agree
to t	he terms and conditions of any	permit issued under this application.
	he terms and conditions of any I certify under penalty of la	permit issued under this application. w that I have personally examined and am
fami	he terms and conditions of any I certify under penalty of la liar with the information subm	permit issued under this application. w that I have personally examined and am eitted on this application form and all
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