

DEC 14 1990

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

Well Operator's Report of Well Work

Farm name: HOWARD, LORNA TRUSTEE

Operator Well No.: HOWARD E-139

LOCATION:

Elevation: 1013.00 Quadrangle: SHINNSTON

District: EAGLE

County: HARRISON

Latitude: 11900 Feet South of 39 Deg. 25Min. 0 Sec. Longitude 7700 Feet West of 80 Deg. 20 Min. 0 Sec.

Company: EXCEL ENERGY, INC

P. O. BOX 1020

BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: STEVE CASEY

Permit Issued: 11/01/90
Well work Commenced: 11/28/90
Well work Completed: 12/03/90

Verbal Plugging

Permission granted on:__

Rotary X Cable Rig
Total Depth (feet) 3555'
Fresh water depths (ft) 50'

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N Coal Depths (ft): None recorded

	Casing	Used in		Cement Fill Up	
***************************************	Tubing	Drilling	Drilling in Well		
	Size				
Combine employee Class	11 3/4"	25 '	25 '		
	8 5/8"	1070'	1070'	250 sks	
	4 1/2"	3486'	3486	500 sks	
			·		

OPEN FLOW DATA

Balltown, Speechley

Producing formation and Elizabeth Pay zone depth (ft)2606-3395

Gas: Initial open flow show MCF/d Oil: Initial open flow Bb1/d

Final open flow 1299 MCF/d Final open flow Bb1/d

Time of open flow between initial and final tests Hours

Static rock Pressure 270 psig (surface pressure) after 24 Hours

Big Injun, 50',

Second producing formation Gordon, 4th, 5th Pay zone depth (ft) 1363-2310

Gas: Initial open flow show MCF/d Oil: Initial open flow Bbl/d Final open flow commingled MCF/d Final open flow Bbl/d Time of open flow between initial and final tests Hours

Static rock Pressure commingled (surface pressure) after 24 Hours

E. ON BACK OF THIS FORM BUT TOLLOWING 1)

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

By: H.L. Barnett
Date: December 13, 1990

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

- Stage I (3051'-3395') 13 holes, 500 gal 15% HCL, 600 bbl 75 Q foam, 400 sks sand.

 Stage II (2607'-2908') 12 holes, 500 gal 15% HCL, 500 bbl 75 Q foam, 350 sks sand.

 Stage III (2116'-2310') 13 holes, 500 gal 15% HCL, 500 bbl 75 Q foam, 250 sks sand.

 Stage IV (1740'-1987') 12 holes, 500 gal 15% HCL, 500 bbl 75 Q foam, 250 sks sand.
- Stage V (1364'-1434') 14 holes, 500 gal 15% HCL, 400 bbl 75 Q foam, 400 sks sand.

		14	ELL LOG .	•
FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMNICS Including indication of all freshaul salt water, coal, oil and gas
Fill Sand & Shlae Shale Sand & Shale Shale Shale Sand		0 17 200 340 385	17 200 340 385 810	1/4" stream of water @ 50
Sand & Shale Big Lime Big Injun Shale 50' Sand Sand & Shale Gordon Sand		810 950 1255 1342 1365 1885 1934 2148	950 1255 1342 1365 1885 1934 2148 2164	Gas Show
Shale & Sand Shale Speechley Shale Balltown Shale		2164 2312 2873 2903 3190 3220	2312 2873 2903 3190 3220 3555	Gas Show DTD
	-	The second secon		

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1)

RECEIVED

Well Operator: Excel Energy, Inc.

033-03776 Ossued 11/1/90

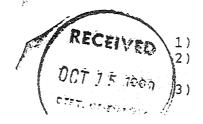
16570 (4) 605

OCT 15 TO STATE OF WEST VIRGINIA EXPLOSE UILLAS

NT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

2)	Operato:	r's Well	Number:_	Howard E-	<u> 139 </u>	3) El	evation: 1013
4)	Well ty	pe: (a)	0i1_/	or Gas			
		(b)	If Gas:		<u>/</u>	round Storage	
5)	Proposed	l Target	Formation	n(s): Ball	town 483		
6)	Proposed Total Depth: 3700 feet Approximate fresh water strata depths: 730' Approximate salt water depths: N/A						
7)	Approxim	mate fres	h water s	trata dept	hs: 730	OCTIE	
8)	Approxi	mate salt	water de	epths: N	/A	DENT TO THE	
9)	Approxim	mate coal	seam dep	oths: 62	23' & 691'		y d
10)	Does lar	nd contai	n coal se	ams tribut	ary to act	ive mine? Ye	es/ No_X_/
11)					ılate a new		
12)	•						
		•	CASIN	G AND TUBI	NG PROGRAM		
TYPE		S	PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
***		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condu	ctor	11 3/4"		42#	30'	****	
Fresh	Water					<u> </u>	38CSR18-1X.
Coal							3805R1811-2.0
Intermediate		8 5/8"	-	20#	1100'	1100	275 sks
Production		4 1/2"	J - 55	10.50#	3670'	3670' →	7 <i>3805R18/1-1</i> 500 sks
<u>Tubin</u>	g						
Liner	S						
PACKE							
	Siz Dep	es ths set _					
131	Fee(s) p		_//	ork Permit	ond Sco	Only amation Fund the Blacket Type)	WPCP 1 HAgent

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Date:	<u>Octobe</u>	r 12,	1990			
Operator	's well	Lnumb	per			
	rd #1					
ADT Well	No.	17 -	033	_ (03770	

State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name <u>MRS. LORNA HOWARD, TRUSTEE</u> Address <u>FOR JAMES H. HILL ESTATE</u>	NameAddress
	P.O. BOX 369, LUMBERPORT, WV 26386	
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name N/A
		Address
	(c) Name	
	Address	Name
		Address
6)	Inspector <u>STEPHEN CASEY</u>	(c) Coal Lessee with Declaration
• ,	Address RT. 2, BOX 232-D	Name
		hddrass
	Telephone (304) - 745 4000	Address
	Telephone (304)- 745-4888	
	MO MUD DEDCON(C) NAMED AT	NAME OF THE PARTY
	TO THE PERSON(S) NAMED AR	SOVE TAKE NOTICE THAT:
	Included is the lease or leases or	
	racts by which I hold the right to	
X	Included is the information requir	ed by Chapter 22B, Article 1,
Sect	ion $8(d)$ of the Code of West Virgin	
	I certify that as required under C	Chapter 22B of the West Virginia Code
I ha		application, a location plat, and
	mpanying documents pages 1 through	
444	Personal Service (Affidavit a	
	X Certified Mail (Postmarked po	
	Publication (Notice of Public	ation attached)
		: 22B and 38 CSR 11-18, and I agree
to t	he terms and conditions of any perm	ait issued under this application.
	I certify under penalty of law tha	at I have personally examined and am
fami	liar with the information submitted	
		ry of those individuals immediately
		ion, I believe that the information
		on, I believe that the information
15 5	rue, accurate, and complete.	
	I am aware that there are signific	cant penalties for submitting false
-infa	rmation, including the possibility	of fine and imprisonment.
THE	OFFICIAL SEAL Well Operator	EXCEL ENERGY, INC.
2 2 6	NOTARY PUBLIC & By	Janua H.L. BARNETT
1	STATE OF WEST VIRGINIA	PRESIDENT
ا (المحادث	GWENDOLYN K. ALVAREZ Its:	P.O. BOX 1020
31 400	Bridgeport, W.Va. 26330	
	My Commussion Expires Novembur 9, 1998	BRIDGEPORT, WV 26330
0	Telephone	(304) 842-6927
Sups	cribed and sworn before me this 12+	h day of <u>october</u> , 19 90
	// 0.0 6 / / / / /	
	- Juliaden A. Cll	Notary Public
му с	ommission expires NOVEMBER 9, 199	8
	record to the second of the se	en e