

(40)

JAN 17 2003

DATE:	
API:	47-033-04384

State of West Virginia Division of Environmental Protection Section of Oil and Gas

vveii Operator	s Report of VVe	∍II VVOTK		
Farm Name: Lake #3	Operator We	ell No.	D0304	
LOCATION: Elevation:1,295'	Quadr	angle:	Wallace	>
District: Sardis		ounty:	Harrisor	
Latitude: 10,620 Feet S. of	39 Deg.	25 Min.	00 Se	€C.
Longitude: 4,420 Feet W. of		27 Min.	30 Se	ec.
	~ w			
Company: Devonian Gas Production, Inc.	<u></u>			
Address: PO Box 907	Casing & Tubing	Used in	off in Moll	Cement fill
	······································	Drilling 431	Left in Well	<u> </u>
Jane Lew, WV 26378	9 5/8" 7"	42' 1.257'	42'	Cond.
Agent: John Haskins	4 1/2"	1,257' 0	1,257'	To Surface
Inspector: Tim Bennett	4 1/2	<u> </u>	5,368'	265 sks
Date Permit Issued: 1/15/2003				
Date Well Work Commenced: 5/3/2003				
Date Well Work Completed: 5/9/2003				
Verbal Plugging:				
Date Permission Granted on:			1	
Rotary X Cable Rig		Marie 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
Total Depth (ft): 5,410'		· · · · · · · · · · · · · · · · · · ·	1	
Fresh Water Depth (ft): 120'				

Salt Water Depth (ft): None Reported	41		<u></u> .	11
	No			M. T. C.
Coal Depths (ft):531' , 870'				<u> </u>
OPEN FLOW DATA			•	
Producing formations 30 Fo		Pay zone dep	th (ft)	2,692
<u>50 Fo</u>			***************************************	2,780
Gordo				2,850
Gordon S				2,900
Ballto				4,036
Benso	<u>on</u>		·	5,160
Gas: Initial open flow Show I	Mcf/d. Oil: Initia	-l anan flaur	NI/A DE	EP 8
		al open flow	N/A Bb	
Time to open flow between initial a			N/A Bb	√l/a
	nio nnartests:_ psig (surface p	5 vrees \ offer	_Hours us	
Otatio Took 1 Tessure	Join (Surface b	1855.) allei	48Ho	ours RECEIVED Office of Oil & Gas
NOTE: On back of this form put the following:	1) Details of p	erforated inte	rvals, fracturi	ng opffice of Chief
stimulating, physical change, etc. 2) The well	log which is a	systematic de	≱tailed geoloc	^{gical} EB 1 7 2006
record of all formations, including coal encoun	itered by the w	elibore.	2000	1 20
Signed: Con 2 // 2			RECEA	WV Department of
By () (P. Th.)			SCHOOL STATE	Environmental Protection

HYDRAULIC FRACTURING DETAILS

STAGE	FORMATION	PERFOR	RATIONS	HOLES	SAND
:		From	То	# of shots	20/40
1st Stage	Benson	5,165	5,180	12	25,000
2nd Stage	Balltown	4,038	4,065	12	30,000
3rd Stage	Gordon	2,927	2,956	10	15,000
4th Stage	Gordon Stray	2,901	2,908	12	10,000
5th Stage	30 Foot	2,782	2,822	10	15,000
6th Stage	50 Foot	2,694	2,702	12	10,000

DRILLERS LOG

Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5 5410	DRILLERS LOG					
Sand Surface 11 Brown 3andstone 20 80 Gray Shale 80 200 230 Red Shale 200 230 290 Gray Shale 230 290 531 532 Gray Sandy 531 533 540 533 540 565 655 655 655 655 655 655 655 655 655 650 650 680 750 750 750 750 750 75	FORMATION	FROM	ТО			
Brown Shale 11 20 Brown Sandstone 20 80 Gray Shale 80 200 Red Shale 200 230 Gray Shale 230 290 Gray Sandy Shale 290 531 Coal 531 533 Gray Shale 533 540 Gray Sandy Shale 565 625 Gray Sandy Shale 650 680 Red Shale 680 750 Gray Sandy Shale 800 820 Gray Shale 820 870 Gray Shale 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Shale 5,140 5410	Red & Brown					
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Gray Shale 230 290 Gray Sandy Shale 290 531 Coal 531 533 Gray Shale 533 540 Gray Sand 540 565 Gray Sandy 565 625 Gray Sandy 650 680 Red Shale 650 680 Red Shale 680 750 Gray Sandy 800 820 Shale 750 800 Red Rock 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & 5,110 5110 Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410		80	200			
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Shale 290 531 Coal 531 533 Gray Shale 533 540 Gray Sand 540 565 Gray Sandy 565 625 Gray Sandy 650 680 Red Shale 650 680 Red Shale 680 750 Gray Sandy 800 820 Shale 750 800 Red Rock 800 820 Gray Shale 820 870 Coal 873 1410 Gray Sand & 1,410 5110 Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410	Gray Shale	230	290			
Coal 531 533 Gray Shale 533 540 Gray Sand 540 565 Gray Sandy 625 625 Gray Sandy 650 680 Red Shale 680 750 Gray Sandy 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Shale 5,140 5410	Gray Sandy					
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Gray Sand 625 650 Gray Sandy 650 680 Red Shale 680 750 Gray Sandy 800 800 Shale 750 800 Red Rock 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & 1,410 5110 Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410	Gray Sandy					
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Shale 650 680 Red Shale 680 750 Gray Sandy 750 800 Shale 750 800 Red Rock 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & 1,410 5110 Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410		625	650			
Red Shale 680 750 Gray Sandy 800 800 Shale 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Shale 5,140 5410	Gray Sandy					
Gray Sandy 750 800 Red Rock 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & 1,410 5110 Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410	Shale	650	680			
Shale 750 800 Red Rock 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Shale 5,140 5410	Red Shale	680	750			
Red Rock 800 820 Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Gray Sand & Shale 5,140 5410	Gray Sandy					
Gray Shale 820 870 Coal 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Gray Sand & Shale 5,140 5410	Shale	750	800			
Coal 870 873 Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Gray Sand & Shale 5,140 5410	Red Rock	800	820			
Gray Shale 873 1410 Gray Sand & Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Gray Sand & Shale 5,140 5410	Gray Shale	820	870			
Gray Sand & 1,410 5110 Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410	Coal	870	873			
Shale 1,410 5110 Benson Sand 5,110 5140 Gray Sand & Shale 5,140 5410 Gray Sand & Gray Sand & Shale 5,140 5410	Gray Shale	873	1410			
Benson Sand 5,110 5140 Gray Sand & 5,140 5410 Gray Sand & 5,140 5410	Gray Sand &					
Gray Sand & 5,140 5410 Gray Sand & 5,140 5410	Shale		5110			
Shale 5,140 5410 Gray Sand &	Benson Sand	5,110	5140			
Gray Sand &	Gray Sand &					
	Shale	5,140	5410			
	Gray Sand &					
Snale 5,410 5410	Shale	5,410	5410			

ELECTRIC LOG

FORMATION	FROM	ТО
Blue Monday	1,986	2,065
Big Lime	2,075	2,110
Big Injun	2,110	2,216
50 Foot	2,692	2,755
30 Foot	2,780	2,830
Gordon Stray	2,850	2,912
Gordon	2,926	2,970
Balltown	4,036	4,080
Benson	5,160	5,183
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<u> </u>		

Signed:

DATE: // 26/03 API: 47-033-04384

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name:	Lake #3		Operat	or Well N	0.	D0304	
LOCATION:	Elevation	· 1 295'	C	Quadrang	le·	Wallace	.
		ardis			ty:	Harrisor	
	ude: 10,620		39	Deg. 25		00 Se	
	ude: <u>10,020</u> ude: 4,420	···	***************************************	Deg. 27		30 Se	
Longit	uuc. <u>+,+20</u>	_1 CCt vv. Oi _		Deg			
Company: Devor	nian Gas Produ	ction, Inc.					
			Casing	ı& ∥ ∪	Jsed in		Cement fill
Address: PO Bo	ox 907		Tubin	g	Drilling	Left in Well	up Cu. Ft.
	Lew, WV 26378	3	9 5/8		42'	42'	Cond.
	,		7"		1,257'	1,257'	To Surface
Agent:	J	ohn Haskins	4 1/2	<u> </u>	0	5,368'	265 sks
Inspector:		Tim Bennett				1	
Date Permit Issue		1/15/03					
Date Well Work (5/3/03					
Date Well Work (5/9/03	······································				
Verbal Plugging:		3,0,00					
Date Permission	Granted on:					1	
Rotary X Cable						1	
Total Depth (ft):	9	5,410'				 	
Fresh Water Dep	th (ft): 1	370' ; 1,720'				 	
1 1C311 VValci DCD	1,	070 , 1,720					
Salt Water Depth	(ft): No	ne Reported		I		Л	<u> </u>
Cait Water Depti	1 (11).	ne reported					
Is coal being min	ed in the area (No				
_	s (ft): 531	·	110	-			
Coal Deptilis	, (11)	, 070					
OPEN FLOW DA	·ΤΔ						
OPEN FLOW DA		: 30 Fc	not	Pav	zone den	th (ff)	2 692
	ATA ucing formations			. Pay	zone dep	th (ft)	2,692
		50 Fc	oot	. Pay	zone dep	th (ft)	2,780
		50 Fo	oot on	Pay	zone dep	th (ft)	2,780· 2,850
		50 Fo Gordo Gordon	oot on Stray	Pay - -	zone dep	th (ft)	2,780· 2,850 2,900
		50 Fo Gordon Gordon Ballto	oot on Stray wn	Pay - - -	zone dep	th (ft)	2,780 2,850 2,900 4,036
		50 Fo Gordo Gordon	oot on Stray wn	Pay - - -	zone dep	th (ft) 	2,780· 2,850 2,900
Produ		50 Fo Gordon Ballto Bens	oot on Stray wn on	- - - - il: Initial c	pen flow		2,780 2,850 2,900 4,036
Produ Gas:	icing formations Initial open flow Final open flow	50 Fo Gordon Ballto Bens w Show w 950	oot on Stray wn on Mcf/d. O Mcf/d.	il: Initial c			2,780· 2,850 2,900 4,036 5,160
Produ Gas:	icing formations	50 Fo Gordon Ballto Bens w Show w 950	oot on Stray wn on Mcf/d. O Mcf/d.	il: Initial c	pen flow		2,780 2,850 2,900 4,036 5,160
Produ Gas: Time	icing formations Initial open flow Final open flow	50 For Gordon Gordon Ballto Bens w Show w 950 etween initial a	oot on Stray wn on Mcf/d. O Mcf/d. and final	il: Initial c	pen flow pen flow 5	N/A Bt N/A Bt Hours	2,780 2,850 2,900 4,036 5,160
Produ Gas: Time Stati	Initial open flow Final open flow to open flow be ic rock Pressure	So For Gordon Gordon Ballto Bens V Show V 950 etween initial and the general solution of the solution of	oot on Stray wn on Mcf/d. O Mcf/d. and final psig (sur	il: Initial c Final c tests: face pres	pen flow pen flow 5 s.) after	N/A Bt N/A Bt Hours 48 Ho	2,780· 2,850 2,900 4,036 5,160 DI/d DI/d
Gas: Time Stati	Initial open flow Final open flow to open flow be ic rock Pressure of this form put	So For Gordon Gordon Ballto Bens V Show V 950 Stween initial as a 700 the following:	oot on Stray wn on Mcf/d. O Mcf/d. and final psig (sur	il: Initial c Final c tests: face pres	pen flow pen flow 5 s.) after	N/A Bt N/A Bt Hours 48 Hours	2,780· 2,850 2,900 4,036 5,160 bl/d bl/d burs
Produ Gas: Time Stati	Initial open flow Final open flow to open flow be ic rock Pressure of this form put ical change, etc	Show 950 etween initial at 20. 2) The well	Stray wn on Mcf/d. O Mcf/d. and final psig (sur : 1) Detai	il: Initial c Final c tests: face pres	pen flow pen flow 5 s.) after crated inte	N/A Bt N/A Bt Hours 48 Hours	2,780· 2,850 2,900 4,036 5,160 bl/d burs

JAN 3 1 2005

WV Department of Environmental Protection

HYDRAULIC FRACTURING DETAILS

STAGE	FORMATION	PERFOR	RATIONS	HOLES	SAND
		From	То	# of shots	20/40
1st Stage	Benson	5,165	5,180	12	25,000
2nd Stage	Balltown	4,038	4,065	12	30,000
3rd Stage	Gordon	2,927	2,956	10	15,000
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5th Stage	30 Foot	2,782	2,822	10	15,000
6th Stage	50 Foot	2,694	2,702	12	10,000

DRILLERS LOG

FORMATION	FROM	TO
Red & Brown		
Sand	Surface	11
Brown Shale	11	20
Brown		
Sandstone	20	80
Gray Shale	80	200
Red Shale	200	230
Gray Shale	230	290
Gray Sandy		
Shale	290	531
Coal	531	533
Gray Shale	533	540
Gray Sand	540	565
Gray Sandy		-
Shale	565	625
Gray Sand	625	650
Gray Sandy		
Shale	650	680
Red Shale	680	750
Gray Sandy		
Shale	750	800
Red Rock	800	820
Gray Shale	820	870
Coal	870	873
Gray Shale	873	1410
Gray Sand &		
Shale	1,410	5110
Benson Sand	5,110	5140
Gray Sand &		
Shale	5,140	5410
Gray Sand &	1	and the second s
Shale	5,410	5410

ELECTRIC LOG

FORMATION	FROM	ТО
Blue Monday	1,986	2,065
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