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

Wel Operator's Report of Well Work

Farm name: WILLIAM R٦ WILMA DAUGHERTY Operator Well No.: J.SANDRIDGE 井口

LOCATION: Elevation: 1,737.00 Quadrangle: AUDRA

District: Latitude: Longitude PHILIPPI 10225 Feet 5225 Feet South West 00 39 80 County
Deg.
Deg. 10 7 BARBOUR Min. 30 S Sec.

Company Derion Film Deriver Consum Con				
BRIDGEPORT, WV 26330-0026	Casing	Used in		t Cement Fill Up
Agent: ERIC STEARNS	Tubing	Drilling	in Well	Cu. Ft.
Inspector: PHILLIP TRACY	Size	9	<u> </u>	
Permit Issued: $01/17/97$ Well work Commenced: $01/22/97$	11 3/4"	30"	30'	
Well work Completed: 01/29/9/	0 л/оп	1870	0781	3/.0 61/5
Permission granted on:	0 0/0	1 0/6	0,6	2/0 240 888
	,	: : [']		
Fresh water depths (ft)	4 1/2"	4045	4045	+045' 460 sks
206; 665				- -
Salt water depths (it)				
Is coal being mined in area (Y/N)? N	1	1 1 1 1 1 1 1	 1 1 1 1	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1]	-

OPEN FLOW DATA

Static rock Pressure psig (surface pressure) after	Time of open flow between initial and final tests	Final open flow MCF/d Final open flow	Gas: Initial open flow MCF/d Oil: Initial open flow	Second producing formation Pay zone depth (ft)	Static rock Pressure 1100 psig (surface pressure) after 72 Hours	Time of open flow between initial and final tests 4	Final open flow 557 MCF/d Final open flow 0	Gas: Initial open flow 20 MCF/d Oil: Initial open flow 0	Producing formation Benson Pay zone depth (ft) 3702-3707	
Hours	Hours	Bb1/d	Bb1/d		Hours	Hours	Bb1/d	Bb1/d	2-3707	

NOTE: ON BA INTERVALS, LOG WHICH INCLUDING C BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC) 1 IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL COAL ENCOUNTERED BY THE WELLBORE. 0F 2) F PERFORATED
2) THE WELL
FORMATIONS,

For: PETROLEUM DEVELOPMENT CORP

By: Date: Eric R. S February Stearns v 10, 1997

FIR Sec. BEG.

SANDRIDGE #1

	sand, sha sand, sha sand, sha Bayard sand, sha Elizabeth sand, sha Speechley sand, sha Balltown sand, sha Bradford sand, sha	KB - GL sand, shal Little Lin sand, shal Big Lime sand, shal Keener sand, shal Big Injun sand, shal Weir sand, shal Gantz sand, shal Gantz sand, shal Gantz sand, shal Gordon	STAGE 1st FORMATION
	shale shale shale shale shale iley shale shale shale shale shale shale shale shale	Shale, RR Lime Shale me shale shale shale shale shale shale shale shale shale	FORMATION Benson
	1910 1925 2112 2115 2145 2168 2170 2240 2440 2442 2442 2442 2443 3182 3345 3345 3350 3965	1088 1108 1108 1108 11275 1282 1282 1288 1288 1388 1420 1420 1570 1612 1870	PERFS 20 (3702'- W E L TOP FEET
4060	1925 2112 2112 2116 2170 22440 2440 2442 2442 2442 3345 3345 3345 4059	2/	3707') L L O G BOTTOM FEET
Logger	Dril	1/4" Coal Coal Coal Gaas Gaas Gaas	SKS 50 REM
er ID	Drillers T	9 6 4 C 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	20/40 SKS 400 REMARKS:
	T	00546513365556311 HH	GAL 500 S GAL 500 S GAL 600 GA
		20 @ 206' 20 @ 665' 20 @ 665' 20 @ 665' 29' 10 No Show 5' No Show 6' No Show 10/10 thru 1"w/w 14/10 thru 1"w/w	N2 (MCF) 58 6. SALT

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Wel			WW-2B
Well Operator:		DIVISION OF	28
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PETROLEUM DEVELOPMENT CORPORATION	L WORK PERMIT APPLI	STATE OF WEST VIRGINIA	001/2
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		מאַמ	
226			0

Plat (CKERS:	Liners	Tubing	Production	Intermediate	Coal	Fresh Water	Conductor		TYPE	12)	11) Proposed	10) Does la	9) Approximate	o, Approximate	Approximate	Proposed	2 Proposed	3107	4) Well to	<pre>2) Operator's</pre>	1) Well O
paid: Fr	Kind Sizes Depths set			4-1/2"	8-5/8"			11-3/4"	Size	IS		ed Well Work:	land contain	coal	imate salt	lmate fresh	Total	Target	(b) 1	type: (a)	Well	Operator:
well work				J-55	H-40			H-40	Grade	SPECIFICATIONS	CASING	k: Drill	coal seams	seam depths:	water depths:	water	Depth:	Formation(s):	If Gas: P	011_/	Number:	PETROLEUM DI
of Oil and G rk Permit X B Bond				10.5#	20/23#			42#	Weight per ft.	SNC	AND TUBING	& Stimulate	ns tributary			strata depths:	5200	5):	ProductionXX/ Deep/	or Gas <u>xx</u> /	J. Sandridge	DEVELOPMENT
Das Us				52001	9501			30 1	For drilling	FOOTAGE II	G PROGRAM	New Well	ry to active	110'; 485'	1375' (if pre	135 ¹ ;	Heet	出k Sands	X/ Underground	*/	dge #1	PETROLEUM DEVELOPMENT CORPORATION
eclamation Fu				5200'	(950, E				Left in well	INTERVALS			lve mine?		present)	2851; 3151		ids	Sh	Sa.	33)	38200
Fund W WPCP				38CSR18-11.1 450 sks	38CSR18-11.3.2		·		Fill-up (cu. ft.)	CEMENT	1		Yes / Noxxx/		ichte.		C. C	A	1 2 2	01/17/97	- 2	(S) 228

File Copy STATE OF WEST, VIRGINIA. BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION SURface Owner(s) to be served: 5) (a) Coal Owner(s) with Declaration OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT (a) Name WILLIAM F. and Wilms Daugh Name Address Rev. 1, 100, 281 (b) Name WILLIAM F. and Wilms Daugh Name Address Rev. 1, 100, 281 (c) Name William F. and Wilms Daugh Name Address (d) Name William F. and Wilms Daugh Name Address (e) Name William F. and Wilms Daugh Name Address (f) Name William F. and Wilms Daugh Name Address (g) Name William F. and Wilms Daugh Name Address (h) Coal Lessee with Declaration Name Control of the Mess Control of the Code of West Name (304)-533-338 (h) Coal Lessee with Declaration Name Control of the Code of West Name (304)-533-338 Telephone

2730

DIVISION OF OF OIL AND GAS Page Qf.

0737	92	PACKERS	Liners	Tubing	Produ	Inter	Coal	Fresh	Conductor	:	TYPE		12)	11)	10)	9)	0)			23	3107	4)	2)	1)
Fee(s) p		RS : Kind	tá	19	Production	Intermediate	X	Water	ctor					Proposed	Does land	Approximate	Approximate	Approximate	Proposed	Proposed		Well type:	Operator'	Well Ope
paid: F	Sizes Depths set	<u>σ</u>			4-1/2"	8-5/8"			11-3/4"	Size	S			Proposed Well Work:	d contain	late coal	ate salt	mate fresh	Total	Target	(a)	(a)	s Well	Operator:
well work					J-55	H-40			H-40	Grade	SPECIFICATIONS	CASING		ck: Drill	coal	sean	water	water	Depth:	Formation(s)	If Gas:	011_/	Number:	PETROLEU
Permi					10.5#	20/23#			42#	Weight per ft.	SNOT	G AND TUBING		δı	seams tributary	depths:	depths:	strata dep	5200	(s):	ProductionXX Deep	or Ga	J. Sand	M DEVELOPME
nd Gas U					5200	950*			301	For drilling	FOOTAGE	ING PROGRAM		Stimulate New Well	ď	110"; 485	1375' (if	depths: 135	theet	E1k		Gasxx /	Sandridge #1	PETROLEUM DEVELOPMENT CORPORATION
Only Jamation (Type)					52001	(₉₅₀ , (4)	\			Left in well	INTERVALS	AM			active mine?		present)	; 285"; 315"		456 Sands	Underground Sto	0	3)	10N 38100
Fund					38CSR18-11. 450 sks	38CSR18-11.				n Fill-up (cu. ft	Ω		E		Yes/ 1	೨ ^೪ ೮	Jiliun Dio C	9	46.		1231	1/2/1/10 por	Elevation:	8
WPCP					1	2.2				ft.)	OBVIBALL				/xxx on	١	initize ?GI				3	197	1737	87E