WR-35 Rev (5-01) DATE: <u>December 17, 2007</u>
API # <u>047</u> - <u>067</u> <u>00894</u>

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

	wen Opera	nors Report	or we	II WOIK				
Farm Name:	MAVAN, LLC et al		_ Ope	rator We	ell No.	De	itz 3	
LOCATION: Elevation	n:1893'	······	_ Qua	drangle:		Lockwo	od	
District:	Jefferson		_ Cou	nty:		Nicholas		
Latitude:	6500' Feet South of	38 Deg.	20	Min.	00	Sec.		-
Longitude:	4275' Feet West of	81 Deg.	-	_		•		
		Casin	_	Used		Left in well	Cement fill]
	Res-Pine Mountain Inc.	Tubin		drilli			up Cu. Ft.	4
	ox 2136	_	3/4		28 .	28	150	1
	don, Virginia 24212		5/8		98	398	150	ł
Agent: Tom Y		_	1/2	- 20	596	2696	444	
Inspector: Terry Date Permit Issued:	Urban 6/6/2007	- 2	³∕ ₈	+		2715		-
24.0 - 1		-		 				1
Date Well Work Con	***************************************	-		-		_		-
Date Well Work Con	npleted: 11/2/2007			 			ECEIVED	-
Verbal Plugging:		-						lac
Date Permission gran		-		 		UTICE	of 011 & C	uas
Rotary X Cable				+			77 7 7 0010	4
Total Depth (feet):	2705'	-				_ A	PR 1 1 2013	-
Fresh Water Depth (ft.): <u>170'</u>	-					<u> </u>	-
				<u> </u>		- \AA/F	pepartmer	t of
Salt Water Depth (ft	.):	_		-		AAA	Jepartinoi	tootio
		-				Environ	mental Pro	ALC CHO
Is coal being mined i		_		-				4
Coal Depths (ft.):	N/A	_					<u> </u>	ال
OPEN ET OW DAT	~ A							
OPEN FLOW DAT		luo Mondou		Pay zor	a dan	th 2518-2574	(ft)	
Producing For				_	-		(11)	
Gas: Initial o	•			•		Bbl/d		
Final or	en flow: 822 MCF/d	F	inal op	en flow:		Bbl/d		
Time o	of open flow between initi	al and final	tests	4	H	ours		
Static Rock P	ressure 1220 Psig (s	urface pres	sure)	after	24	Hours		
		•				-		
Second Produc	ing Formation:			Pay zon	ne dep	th	(ft)	
Gas: Initial o		Oil: Ir	nitial o	pen flow	<i>r</i> :	Bbl/d	- , '	
	pen flow: MCF/d			en flow:		Bbl/d		
-			-		_	ours		
	of open flow between initi				_ n			
Static Rock P	ressure Psig (s	surface pres	sure)	after _		_ Hours		
PERFORATETC. 2) TH	N THE BACK OF THIS TED INTERVALS, FRAC' HE WELL LOG, WHICH IS DRMATIONS, INCLUDING	TURING O	R ST	IMULA' DETAI	TING, LED (PHYSICAL CI GEOLOGICAL R	HANGE, LECORD	
.	\mathcal{T}			, .				
Signed		<u>ces - Hir</u>	e M	ount	lin :	Enc.		
Ву	ZIMME II HI							
Date	· C · Alla La							

Completion Information

Well Permit	Deitz 3 47-067-00894					
	Stage 1		Stage 2		Stage 3	
Date	10/12/2007		11/2/2007 75Q N2		11/02/2007 75Q N2	
Frac	75Q N2 Foam		Foam		Foam	
Formation(s)	Big Lime		Big Lime		Blue Monday	
Interval	2696-2724		2568-2574.5		2510-2524	
# of Perf			15+15		13	
BD Press	500	psi	400	psi	1863	psi
Avg Treating Press Max	2700	psi	2940	psi	2777	psi
Treating Press Avg Rate	4000	psi	3200	psi	2870	psi
(dh)	21	bpm	22.4	bpm	19	bpm
ISIP	4000	psi	1967	psi	2563	psi
2 min SIP	4000	psi psi	1670	psi psi	2200	psi
Total Acid	500	gal	800	gal		gal
Totai N2	240,000	scf	382,000	scf	324,000	scf
Total H2O	268	Bbl		bbl		bbl
Total Sand	175	sx	418	sx	595	sx

Geologic Information

Formation	Top (ft)*	Bottom (ft)*
Sand and Shale	0	1456
Salt Sand	1456	1655
Sand and Shale	1655	2155
Middle Maxon	2155	2205
Shale and Sand	2205	2455
Little Lime	2455	2528
Pencil Cave Shale	2528	2550
Big Lime	2550	2716
TĎ	2716	

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