

Completion Data

	Stage 1		Stage 2		Stage 3	
Date	12/08/04		8/22/2005		9/1/2005	
Frac Formation(s)	75Q N2 Foam Dev Sand		75Q N2 Foam Big Lime		75Q N2 Foam Blue Monday	
Interval # of Perf	3099-3116 35		1799-1962 19		1750-1757 15	
BD Press	0	psi	3110	psi	566	psi
Avg Treating Press	2589	psi	3771	psi	2600	psi
Max Treating Press	3542	psi	4034	psi	2939	psi
Avg Rate (dh)	16	bpm	25	bpm	16	bpm
ISIP	1141	psi	2387	psi	1868	psi
5 min SIP	N/A	psi	2016	psi	1318	psi
Total Acid	546-15%HCl	gal	504-15%HCl	gal	504-15%HCl	gal
Total N2		scf	280,700	scf	199,700	scf
Total H2O	208	bbbl	152	bbbl	127	bbbl
Total Sand	625	sx	407	sx	452	sx

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Geologic Data

Lithology	Color	Top	Bottom	Thickness
SANDSTONE		0	75	75
SHALE		75	130	55
SANDY SHALE		130	235	105
SHALE		235	265	30
SANDSTONE		265	320	55
SHALE		320	365	45
COAL		365	368	3
SHALE		368	390	22
COAL		390	393	3
SANDSTONE		393	480	87
SHALE		480	565	85
COAL		565	569	4
SANDY SHALE		569	637	68
COAL		637	640	3
SHALE		640	658	18
COAL		658	660	2
SHALE		660	674	14
COAL		674	677	3
SHALE		677	704	27
SANDSTONE		704	828	124
SHALE		828	845	17
SANDY SHALE		845	1000	155
SANDSTONE		1000	1050	50
SHALE		1050	1100	50
SANDSTONE		1100	1130	30
SANDY SHALE		1130	1234	104
SANDSTONE		1234	1285	51
SHALE		1285	1480	195
SANDSTONE		1480	1525	45
SANDY SHALE		1525	1620	95
SANDSTONE		1620	1706	86
LIMESTONE		1706	1759	53
LIMESTONE		1759	1770	11
SHALE		1770	1798	28
LIMESTONE		1798	2008	210
SILTSTONE		2008	2140	132
SHALE		2140	2405	265
SANDSTONE		2405	2420	15
SHALE		2420	4001	1581

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