

PERMEABILITY AND
STABILIZED FLOW RATES

VACA DRAW/PITCHFORK AREA TGF DESIGNATION - MORROW SANDS

PERMEABILITY AND STABILIZED FLOW RATES

ENRON OIL AND GAS COMPANY

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VACA DRAW/PITCHFORK RANCH AREA TGF DESIGNATION

SUMMARY OF PERMEABILITY AND STABILIZED RATES

lh119rc1

WELL NAME	INTERVAL	PRE-STIM K (MD)	POST-STIM K (MD)	K USED	CALCULATED STABILIZED FLOW RATE (MCFPD)
Andrikopoulos No. 1	15,554 - 64'	0.0	0.0	0.0	0.0
	15,301 - 55'	0.0 D	0.0	0.0 D	0.0
	14,986 - 15,209'	0.0146	0.1081 BU	0.1081 BU	979
Average				0.0321	979
Bell Lake 2 St. No. 1	15,380 - 458'	0.004	0.0542 BU	-	-
	15,159 - 458'	-	0.0098 BU	0.0098 BU	1,618
	14,819 - 92'	0.0015	0.0217	0.0015	306
Average				0.0074	1,924
Bell Lake 11 No. 1	15,447 - 82'	-	-	-	-
	15,210 - 20'	0.0	0.0	0.0	-
	14,883 - 977'	-	0.2352	0.2352	2,617
Average				0.1176	2,617
Diamond 6 Federal No. 1	14,897 - 15,556'	0.045	0.7871	0.045	1,445
Half 6 Federal No. 1	15,288 - 360'	0.3099	0.3099	0.3099	2,370
Javclina Basin Unit 1	15,154 - 420'	-	0.1859	-	1,653
	14,594 - 604'	-	0.0367	-	76
Average				-	1,729
Longway Draw No. 1	15,605 - 10'	0.0145	0.0145	0.0145	97
	15,047 - 289'	0.0	0.0249	0.0249	351
	14,829 - 15,289'	0.0	0.024 BU	0.024 BU	933
Average				0.0222	1,030
Red Hills Unit No. 1	15,442 - 530'	-	-	-	-
	15,034 - 138	0.0	0.0	0.0	0.0
	14,840 - 64'	0.247	0.4881	0.247	1,028
Average				0.1647	1,028
Vaca Draw Unit 1	15,291 - 15,330'	0.0009	-	-	-
	14,954 - 15,710'	0.0092	0.0020	0.0092	261
Vaca Draw 13 Federal No. 1	15,493 - 546'	0.0	0.0	0.0	0.0
	15,264 - 88'	0.006	0.0451	0.0451	271
	15,014 - 53'	0.0	0.086	0.086	1,073
Average				0.0506	1,344
Vaca Draw 16 St. 1	15,058 - 718'	0.0	0.0	0.0	0.0

All permeabilities calculated by Holditch & Lee method unless denoted by BU - Build-up test or D - DST
All stabilized flow rates calculated by Holditch & Lee method

Average Permeability = 0.7587/10 wells = 0.07587 MD

Average Stabilized Flow Rate @ 1 ATM = 14,727/11 wells = 1,339 MCFPD

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	Average			-	1,729
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	14,954 - 15,710'	0.0092	0.0020	0.0092	261
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	15,014 - 53'	0.0	0.086	0.086	1,073
	Average			0.0506	1,344
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All stabilized flow rates calculated by Holditch & Lee method

Average Permeability = 0.4488/9 wells = 0.0499 MD

Average Stabilized Flow Rate @ 1 ATM = 12,357/10 wells = 1,236 MCFPD