

PENNZOIL COMPANY
 Castle Rock 3017-021M (Well R)
 Vermejo Ranch Coal Bed Methane Pilot

Geologic Summary
 C. Hillenbrand 10/25/89

Raton Formation

Coals:		
Depth	Thickness	
474.25	.75'	Show # 1 @ 583-88' 38 units/75units in coal.
1032.5	1'	
1037	2'	Show # 2 @ 1043-46' 23 units/150 units in coal.
Total Raton Fm Coal	3.75'	Show # 3 @ 1064-68' 55 units/220 units in sand.

Vermejo Formation

Coal:		
Depth	Thickness	
1471.75	4'	Show # 4 @ 1471-78' 200 units/400 units in coal.
1488	5'	
1541.5	2'	Show # 5 @ 1491-95' 280 units/390 units in coal.
1552	1.5'	
1604.75	1.5'	Show # 6 @ 1663-64' 130 units/290 units in coal.
1626.25	1'	
1657.75	2'	
1706	11'	Show # 7 @ 1709-19' 120 units/400 units in coal.
Total Vermejo Fm Coal	28'	

Lower Raton Formation Neutron-Density crossover was not observed in this well.

Trinidad Sandstone

Top at 1733 (+6533)

Net coal encountered in the Castle Rock 3017-021M (Well R) was 31.75 Feet.

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