

FILE

Pennzoil Company
Van Brenner 3019-3220 (Well H)
Vermejo Ranch Coal Bed Methane Pilot

Geologic Summary
Chip Hillenbrand 8/25/89

Raton Formation

Coals:

<u>Depth</u>	<u>Thickness</u>
378.5	1.5
381	3'
387.75	1.75'
398.5	1.5'
402	2'
411.75	1.25'
414	1.5
436.75	1'
464.5	1'
483	2'
507.5	1.25'
557	3'
632	2'
654	1'
681.5	1'
689.25	2.75'
743.25	1.5'
776	1'
781	2.25'
944.25	1'
967	1.25'
1114	.5'
1208	.5'
1309.5	2.25
1379.5	1.5'
1393.25	.5'
1394.5	.5'
1419.25	1.5'
1428	1.25'
1448.25	3.5'
1465	.75'
1468	1'
1480	1.75'

Show # 1 @ 1612' 3 units/ 5 units
in sand

Show # 2 @ 1712' 6 units/ 10 unit
in sand

Total Raton Fm Coal 50'

Van Bramer 3019-322D (Well H)
 Vermejo Ranch Coal Bed Methane Pilot
 Page 2

Geologic Section
Vermejo Formation

Coals:

Raton Formation

<u>Depth</u>	<u>Thickness</u>
1728.5	3.5'
1810	.5'
1888	2'
1899.5	4.5'
1934	3.25'

Show #3 @ 1800' 7 units/23 units
 in sand and coal

Show #4 @ 1933' 14 units/20 units
 in coal

Total Vermejo 13.75'
 Fm Coal

Lower Raton Formation Neutron-Density crossover was noted at:

1610-20	1661-68
1622-25	1669-73
1628-47	1697-1712
1649-51	

Trinidad Sandstone

Top at 1943 (+5705)

Total coal encountered in the Van Bramer 3019-322D (Well H) was 63.75 feet.

CJH60

cc: W. H. Schell
 R. D. Osterhout
 L. G. Guckert
 L. D. Williamson
 H. W. Hollingshead