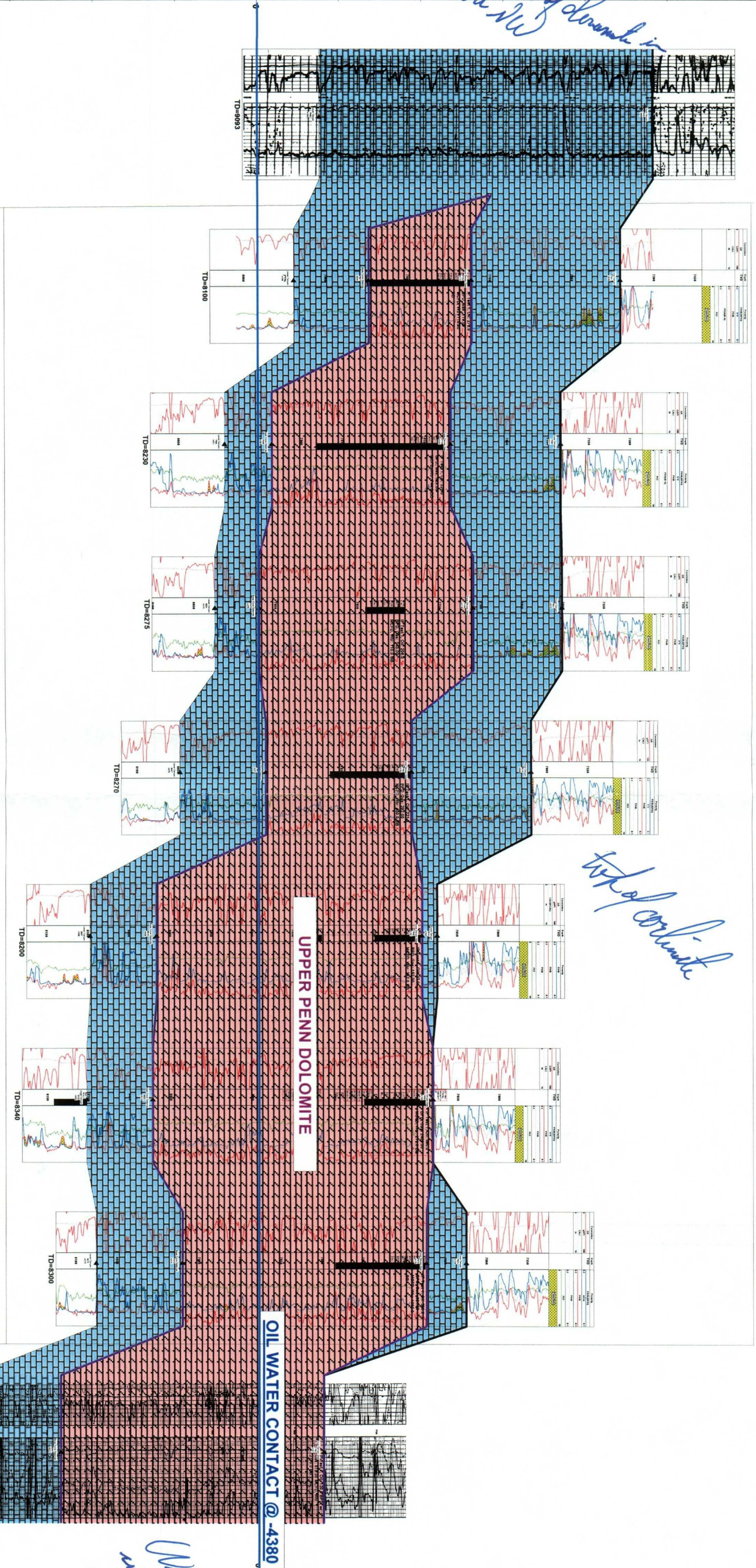


**EXHIBIT NO 13  
STRUCTURAL CROSS SECTION A-A' DATUM -4380  
NORTH DAGGER DRAW UNIT AREA EDDY COUNTY, NEW MEXICO**

<b>A</b>	30015272460000	7563 ft	30015262920000	4327 ft	30015269370000	1138 ft	30015270530000	1893 ft	30015269460000	4761 ft	30015269810000	1289 ft	30015276440000	3037 ft	30015283450000	5053 ft	30015291380000	<b>A'</b>
	YATES PETROLEUM CORP IRISH HILLS JE ST C 1 1980 FNL/1980 FEL TWP: 19 S - Range: 24 E - Sec: 12 Cum Oil All Zones: 324 bbls Cum Gas All Zones: 2132510 MCF Cum Water All Zones: 958 bbls		CONOCO INCORPORATED BARBARA FEDERAL 9 1980 FNL 1980 FEL TWP: 19 S - Range: 29 E - Sec: 18 Cum Oil All Zones: 47385 bbls Cum Gas All Zones: 47385 MCF Cum Water All Zones: 686270 bbls		YATES PETROLEUM CORP ROSS EG FEDERAL C 5 860 FNL 860 FEL TWP: 19 S - Range: 29 E - Sec: 19 Cum Oil All Zones: 78205 bbls Cum Gas All Zones: 17389 MCF Cum Water All Zones: 591032 bbls		YATES PETROLEUM CORP ROSS EG FEDERAL C 12 1980 FNL 660 FEL TWP: 19 S - Range: 29 E - Sec: 19 Cum Oil All Zones: 11638 MCF Cum Gas All Zones: 20914 bbls		YATES PETROLEUM CORP ROSS EG FEDERAL 8 1980 FNL 660 FEL TWP: 19 S - Range: 29 E - Sec: 20 Cum Oil All Zones: 51607 bbls Cum Gas All Zones: 16384 MCF Cum Water All Zones: 62930 bbls		YATES PETROLEUM CORP BINGER AKU 4 660 FNL 660 FEL TWP: 19 S - Range: 29 E - Sec: 29 Cum Oil All Zones: 6929 MCF Cum Gas All Zones: 14905 bbls		YATES PETROLEUM CORP LORENE ANN 1 810 FNL 660 FEL TWP: 19 S - Range: 29 E - Sec: 28 Cum Oil All Zones: 519420 MCF Cum Gas All Zones: 113155 bbls		YATES PETROLEUM CORP HINKLE ALD 2 880 FNL/1650 FEL TWP: 19 S - Range: 29 E - Sec: 28 Cum Oil All Zones: 1022332 MCF Cum Gas All Zones: 147043 bbls		NEARBURG PROD CO SOUTH BOND Z7 8 1980 FNL/1980 FEL TWP: 19 S - Range: 23 E - Sec: 27 Cum Oil All Zones: 276927 MCF Cum Gas All Zones: 4816213 bbls	

*Flow of downhole in*

*total content*



**PROPOSED NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT AREA**

BEFORE THE OIL CONSERVATION DIVISION  
Santa Fe, New Mexico  
Case Nos. 13227/13228 Exhibit No. 16  
Submitted by:  
Yates Petroleum Corporation  
Hearing Date: March 4, 2004

*Water level  
not the  
SE*