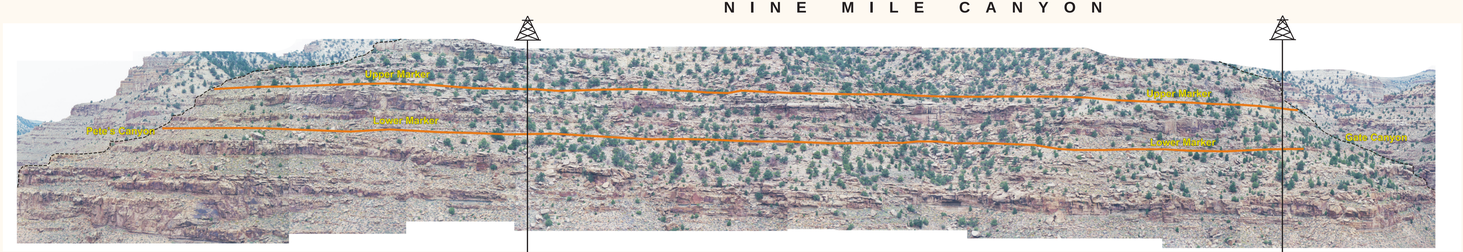
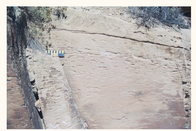
N I N E M I L E C A N Y O N



1,320 FEET
Typical 40 acre well spacing

Common Bedding Features

1

Ripple drift lamination

2

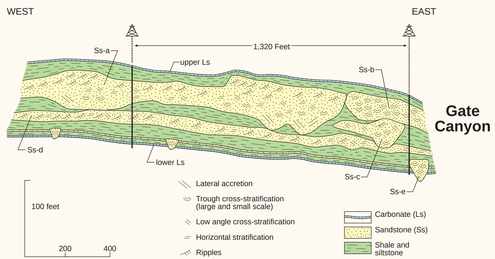
Current rippled

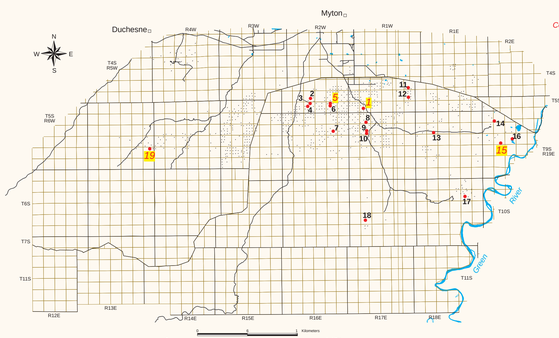
3

Mixed, planar, low angle cross bedding, rippled laminated

4

Large scale trough cross bedding

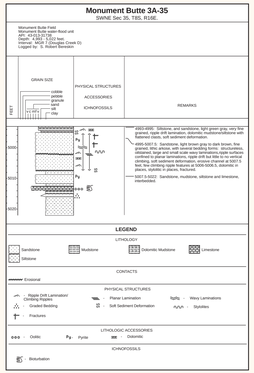




CORES STUDIED

Cores on display shown in red italics

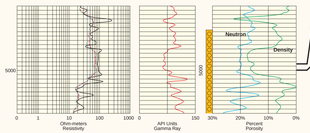
1 State 6-32 UDC
2 West Monument 10-28 LDC
3 Federal 2-23 LDC
4 Federal 6-33 UDC
5 Monument Butte 3A-35 UDC
6 Federal 3-26 UDC
7 Federal 33-15, UDC, LDC
8 Allen 34-5 LDC
9 Federal 33-8 UDC, CMU
10 Federal 34-8 GG
11 Parette 23-24 UDC
12 Federal 23-25 UDC
13 Parette 8 CMU
14 Parette 6 GG,LDC
15 Federal 15-17 UDC
16 Ute Tribal 15-35 UDC,LGR
17 Island 1 LGR
18 West Desert Springs 11-20-33-17 LGR
19 Ute Tribal 2-25 CMU



Federal 3A-35

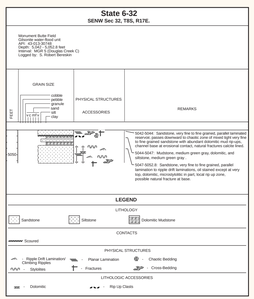
T. 8 S., R. 16 E., section 35
Map number 5

Completed: 1996
Perforated Interval: 4,976-5,922 ft
Initial Potential: 155 BOPD, 75 MCFGPD, 6 BWPD
Cumulative Production (Nov. 2000):
94,207 BO; 144,284 MCFG; 1,977 BW



Oil stained
Fining upward
Low angle cross bedding

Trough cross bedding similar to outcrop photo 4
Vertical fractures calcite lined
Erosional base rip-up clasts of dolomitic limestone

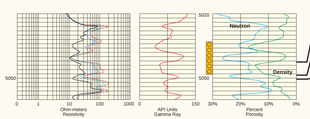


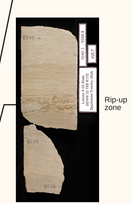
State 6-32

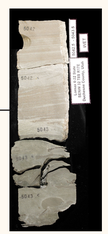
T. 8 S., R. 17 E., section 32
Map number 1

Completed: 1983
Perforated Interval: 5,033-5,048 ft
Initial Potential: 107 BOPD
Workover 1984
Perforated Interval: 4,364-4,392 ft
Initial Potential: 53 BOPD, 76 MCFGPD
Cumulative Production (Nov. 2000):
153,865 BO; 178,204 MCFG; 2,898 BW

Void Number	Depth Interval	Core Depth	Log Depth	Core Porosity	Horz Perm	Core So	Core Sw	Grain Density
6-32	5042-43	5042-43	Slabs	5.3	0.09	40.4	22.4	2.67
6-32	5043-44	5043-44	5047	4.3	0.01	0	83.5	2.61
6-32	5044-45	5044-45	5048	4.1	0.01	0	83.5	2.61
6-32	5047-48	5047-48	5051	5.5	0.15	49.7	9.1	2.65
6-32	5048-49	5048-49	5052	11.3	8.5	47.8	9.7	2.65
6-32	5049-50	5049-50	5053	11.1	0.54	41.4	8.9	2.64
6-32	5050-51	5050-51	5054	11.0	1.9	49	7.9	2.64
6-32	5051-52	5051-52	5055	9.6	0.25	42.6	9.8	2.64
6-32	5052-53	5052-53	5056	9.8	0.25	45.7	9.1	2.64




Rip-up zone


Vertical fracture calcite lined (right edge)
Dolomitic mud rip-ups at base of channel

Parallel lamination
Ripple drift lamination similar to outcrop photos 1 and 3. Typically lower porosity/ permeability due to increase in mica and compaction/ cementation

UGS