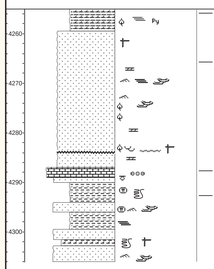
Federal 15-17
SWSE Sec 17, T9S, R19E.

Pariette Bench Field
API: 43-047-...
Depth: 4,260 - 4,306 feet
Interval: MGR 6 (Douglas Creek C)
Logged by: S. Robert Bereskin

GRAIN SIZE: cobble, pebble, granule, sand, silt, clay (f vc m f v c)
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
REMARKS
FEET



4255-4259.5: Dolomitic mudstone, medium gray, readily fractured, pyritic in places, becomes more laminated with interlamination of silt with characteristic mud.

4259.5-4287: Sandstone, very fine to fine grained, faintly laminated to structureless, some trough bedding and reworked ooids may indicate erosive base of channel, dolomitic in places, carbonaceous plant fragments in places, fractures at the lithologic boundary near 4260 feet. Stained in uppermost 12 feet and in basal 3 feet.

4287-4289: Oolitic limestone: ooids of various sizes, loading and bioturbation, produce a mixture of ooids with dolomitic mudstone partings, fish scales (phosphate).

4289-4306: Interbedded sandstone, very fine to fine grained, dolomitic shale and silty shale, some rip-up clasts, ripple drift lamination and soft sediment deformation fish scales (phosphate).

LEGEND

LITHOLOGY: Sandstone; Silty Shale; Dolomitic Mudstone; Dolomitic Shale; Limestone

CONTACTS: Erosional

PHYSICAL STRUCTURES: Trough Cross-strat.; Ripple Drift Lamination/ Climbing Ripples; Scour; Planar Lamination; Loading; Cross-Bedding; Fractures

LITHOLOGIC ACCESSORIES: Ph Phosphate; Dolomitic; Oolitic; Py Pyrite

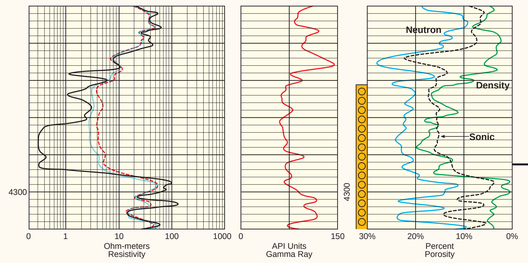
ICHNOFOSSILS: Bioturbation

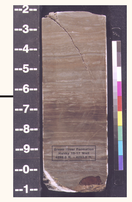
FOSSILS: Carbonaceous Plant Remains; Fish Scales (phosphate)

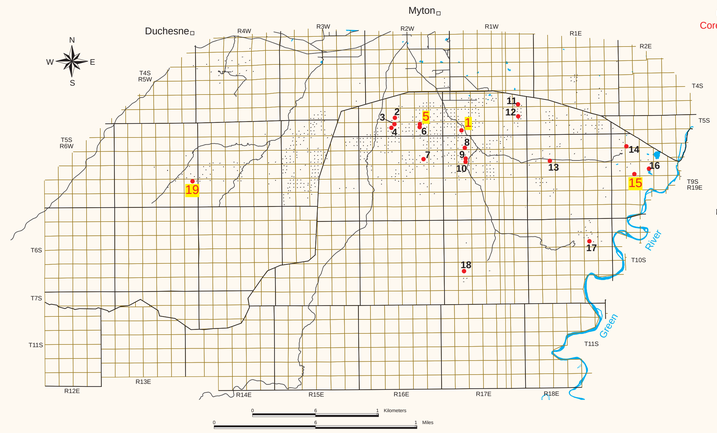
Well number	Depth Interval	Core Depth	Log Depth	Core porosity	Horz perm	Vert perm	Core So	Core Sw	Grain density
15-17	4260-61	4260.5	4269	13.3	23	18	24.4	35.6	2.66
15-17	4261-62	4261.5	4270	10.4	1.12	0.75	29.8	29.1	2.66
15-17	4262-63	4262.5	4271	12.1	5.56	1.42	27.4	31.4	2.66
15-17	4263-64	4263.5	4272	17.1	30	20	24.4	40.2	2.65
15-17	4264-65	4264.5	4273	15.7	16	9.25	23.4	41.4	2.65
15-17	4265-66	4265.5	4274	16.2	17	12	23.7	39.4	2.64
15-17	4266-67	4266.5	4275	14.7	4.8	1.49	22.4	45.6	2.65
15-17	4267-68	4267.5	4276	15.7	11	8.52	26.2	42.7	2.65
15-17	4268-69	4268.5	4277	14.3	4.98	1.58	26.2	39	2.66
15-17	4269-70	4269.5	4278	14.7	7.87	2.41	22.8	40.2	2.66
15-17	4270-71	4270.5	4279	13.6	2.57	0.84	23.6	40.4	2.67
15-17	4271-72	4271.5	4280	14.6	5.4	3.7	20.6	47.7	2.65
15-17	4272-73	4272.5	4281	14.6	8.21	4.78	26.6	38.1	2.66
15-17	4273-74	4273.5	4282	15.5	8.51	6.34	23.6	38.6	2.66
15-17	4274-75	4274.5	4283	15.4	8.7	9.02	19.5	46.7	2.66
15-17	4275-76	4275.5	4284	16.1	17	15	28.3	34.3	2.66
15-17	4276-77	4276.5	4285	13.5	8.4	1.42	28.4	45.2	2.65
15-17	4277-78	4277.5	4286	15.6	28	21	26.8	40.7	2.65
15-17	4278-79	4278.5	4287	16.7	42	49	28.8	36.3	2.65
15-17	4279-80	4279.5	4288	15.8	49	44	29	30.3	2.65
15-17	4280-81	4280.5	4289	15.8	42	28	29.5	29.5	2.65
15-17	4281-82	4281.5	4290	14.4	27	22	29.1	31.8	2.66
15-17	4282-83	4282.5	4291	5.5	0.03	0.04	12.7	77.1	2.71
15-17	4283-84	4283.5	4292	11.7	1.66	0.45	7.6	69.1	2.67
15-17	4284-85	4284.5	4293	12.5	4.11	1.65	29.4	35.3	2.68
15-17	4285-86	4285.5	4294	12.8	21	31	29.2	29.3	2.67
15-17	4286-87	4286.5	4295	12.6	29	11	23.2	42.7	2.68
15-17	4287-88	4287.5	4296	13	40	17	29.1	37.8	2.68
15-17	4300-1	4300.5	4309	3.6	0.01	3.6	0	61.1	2.67
15-17	4302-3	4302.5	4311	10.5	0.22	10.5	0	71.6	2.67
15-17	4304-5	4304.5	4313	5.1	0.01	5.1	0	85.6	2.69

Federal 15-17
T. 9 S., R. 19 E., section 17
Map number 15

Completed: 1981
Perforated Interval: 4,271-4,769 ft
Initial Potential: 40 BOPD
Cumulative Production (Dec. 1989 [PA]):
6,207 BO; 350 MCFG; 43,704 BW







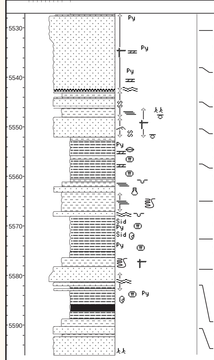
CORES STUDIED
Cores on display shown in red italics

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 6-35 UDC
7 Federal 33-13S UDC, LDC
8 Allen 34-5 LDC
9 Federal 33-8 UDC, CMU
10 Paiute 34-8 GG
11 Pariette 23-24 UDC
12 Federal 23-25 UDC
13 Pariette 5 CMU
14 Pariette 6 GG,LDC
15 Federal 15-17 UDC
16 State 13-16S UDC,LGR
17 Island 16 LGR
18 West Desert Springs 11-20-10-17 LGR
19 Ute Tribal 2-25 CMU

Ute Tribal 2-25
NWNE Sec 25, T5S, R5W.

Brundage Canyon Field
API: 43-013-31833
Depth: 5,527 - 5,596 feet
Interval: Carbonate Marker Unit (Castle Peak)
Logged by: S. Robert Bereskin

GRAIN SIZE: cobble, pebble, granule, sand, silt, clay (f vc m f v c)
PHYSICAL STRUCTURES
ACCESSORIES
ICHNOFOSSILS
FOSSILS
REMARKS
FEET



5527-5533: Sandstone, light gray to light brown, lithic, fine to medium grained, first half foot of interval is silty sand and mudstone, unit is severely fractured, oil stained in places, moderately sorted, sub angular to sub round, calcite and dolomite cement, appears structureless to faintly laminated.

5533-5542.5: Sandstone, same as above, contains organic wisps near top, structureless to faintly laminated except near base, dolomitic in places, wavy laminated near base, with some incomplete ripples and microstylolites, oil stained.

5542.5-5548: Siltstone, some very fine grained sandstone, soft sediment deformation, loading, ball and pillow structures. Sandstone dike (Neptunian) at 5543 feet.

5548-5552: Sandstone, light to medium gray, very fine to fine grained, ripple drift lamination to climbing ripples, slight bioturbation near top, calcite and dolomite cements, soft sediment deformation near base, loading, highly fractured.

5552-5561: Mudstone and siltstone, medium gray to medium dark gray, interbedded, rare mollusks, pyritic, fish scales (phosphate), dolomitic in places, source rock in places.

5561-5568: Siltstone with some interbedded sandstone and mudstone. Sandstone is poorly sorted and deformed, rare pelecypods, some wavy laminations and slightly bioturbated.

5568-5575: Mudstone, medium gray to medium dark gray, dolomitic, rare lighter gray silt, pyritic, fish scales (phosphate) with rare orange-brown siderite.

5575-5581: Sandstone, fine to medium grained fining upward to siltstone to dark mudstone at the top. Very calcareous sandstone is wavy laminated to structureless at the top, siltstone is bioturbated.

5581-5583: Sandstone is finer grained and siltier, wavy laminated to modest ripples, dark gray mudstone partings to laminations.

5583-5596: Mudstone with coal in top half, dark shale laminae at 5586-5587 feet. Bottom half is interlaminated siltstone and very fine to fine grained sandstone.

LEGEND

LITHOLOGY: Sandstone; Silty Sand; Siltstone; Mudstone; Coal; Dolomitic Mudstone

CONTACTS: Erosional

PHYSICAL STRUCTURES: Ripple Drift Lamination/ Climbing Ripples; Fractures; Planar Lamination; Soft Sediment Deformation; Wavy Laminations; Loading

LITHOLOGIC ACCESSORIES: Dolomitic; Siderite; Py Pyrite

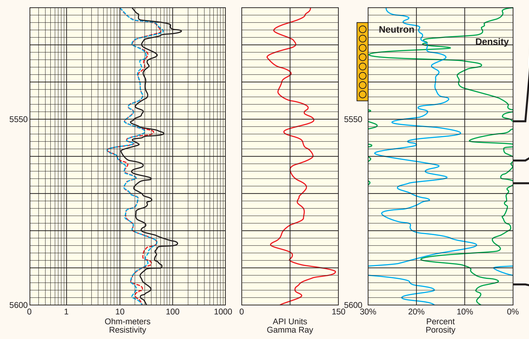
ICHNOFOSSILS: Rootlets; Vertical Burrows; Bioturbation

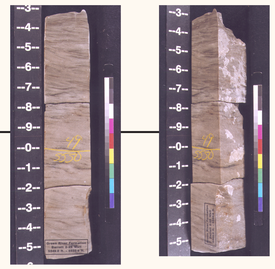
FOSSILS: Molluscs; Pelecypods; Ostracods; Fish Scales (phosphate)

Ute Tribal 2-25
T. 5 S., R. 5 W., section 25
Map number 19

Completed: 1997
Perforated Interval: 5,524-5,545 ft
Initial Potential: 37 BOPD, 9 MCFGPD
Cumulative Production (Nov. 2000):
17,115 BO; 12,793 MCFG; 7,098 BW

Well number	Core Depth	Log Depth	Core porosity	Horz perm	Core So	Core Sw	Grain density
2-25	5528.1	5532	9	0.315	13.5	44.3	2.66
2-25	5529.1	5533	6.8	0.027	15.3	38.3	2.66
2-25	5530.2	5534	7.8	0.042	11.2	51.4	2.66
2-25	5531.5	5535	6	0.004	10.4	52.2	2.67
2-25	5532.7	5537	10.3	0.335	8.9	28.8	2.66
2-25	5533.9	5538	6.3	0.022	10.4	46.6	2.67
2-25	5535.4	5540	7.7	0.061	9.2	41.6	2.67
2-25	5536.7	5541	9.7	0.06	8.4	45.9	2.66
2-25	5538.4	5542	7	0.039	11.6	36.4	2.64
2-25	5539.8	5544	8.8	0.053	7.8	31	2.65
2-25	5540.7	5545	4.8	0.014	12.5	40.6	2.66





Low porosity/permeability
Ripple-drift lamination
Calcite-lined fracture



Upward increase in sand content from channel lobe



Root casted sheet sandstone to siltstone, associated with overlying coal



Transitional from dolomitic mudstone to upward-increasing sandstone content; some soft sediment deformation within wavy lamination