

63 Feet

Clay County - 513
 Union District
 U.F.G. # 8000-T

September 15, 1953

Report of tests on Clinton Sand Core No. 36, from Rader Farm, Clay County,
 W.Va. United Fuel Gas Company. Sent in by Mr. W.
 Byron Russell.

Depth	Piece No.	% Sodium Oxide	% Porosity	Perm. Mill.	% Brine Saturation	Description
7436	1	.073				Fine grained white quartzitic sandstone, breaks with irregular surface at bedding planes which are grain impressions?
7437	2	.11				Same as 1.
7438	3	.096				Same as 1.
7439	4	.094				Same as 1.
7440	5	.14				Same as 1. Slightly darker.
7441	6	.077				Same as 1.
7442	7	.085				Same as 1. With large clay pebbles.
7443	8	.11				Same as 1. with shale streaks.
7444	9	.22				Shale streaks.
7445	10	.088				Same as 1.
7446	11	.078				Same as 1.
7447	12	.066				Same as 1. Darker.
7448	13	.15				Same as 1.
7449	14	.12				Same as 1.
7450	15	.083				Same as 1. Darker.
7451	16	.15				Same as 1. with shale streaks.
7452	17	.083				Same as 1.
7453	18	.099				Same as 1.
7454	19	.070				Same as 1.
7455	20	.063				Same as 1.
7456	21	.065				Same as 1, white shiny? in places. High barium.
7457	22	.065				Same as 1, darker.
7458	23	.071				Same as 1, darker.
7459	24	.079				Same as 1.
7460	25	.088				Same as 1.
7461	26	.088				Conglomeratic.
7462	27	.073				Same as 1, with some grains visible.
7463	28	.083				Conglomerate, with dark grey stains. High barium.
7464	29	.11	4.2	.009	40	Sand
7465	30	.094	2.3	.03*	31	Same as 1.
7466	31	.076	1.5	.008	23	Sand with red streaks.
7467	32	.10	7.7	70.	14	Grey sand.
7468	33	.056	3.8	.35	27	Same as 31.
7469	34	.12	12.7	562.	25	Good coarse soft sand.
7470	35	.14	6.8	.41	34	Hard-fine sand.

High in Barite

High in Barite

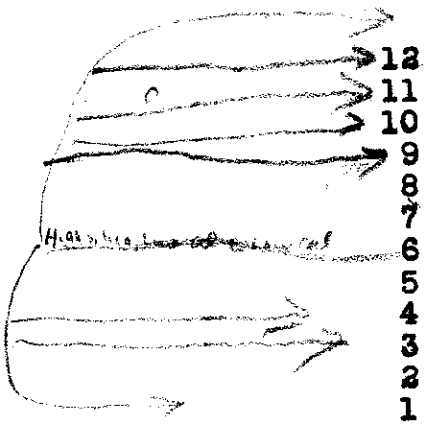
Depth	Piece No.	% Sodium Oxide	% Porosity	Foss., Milli.	% Brine Saturation	Description
7471	36	.26	7.7	.60	72	Sand, fair texture.
7473	37	.060				Same as 1.
7474	38	.082				Same as 1.
7475	39	.11	1.9	.1	46	Same as 1. not quite as hard.
7476	40	.12	2.3	.04	48	Same as 1, not quite as hard.
7477	41	.16	1.9	.12	64	Same as 1.
7478	42	.11	1.7	.01*	60	Same as 1.
7479	43	.12				Sand, white, coarser than 42.
7480	44	<1.50				Sandy, gray shale.
7481	45	.14	1.6	.007	68	Conglomerate with dark stains. High barium.
7482	46	.16	2.2	.04	55	Same as 1. more grain structure.
7483	47	.15				Same as 46.
7484	48	.27				Same as 46.
7485	49	1.42				Same as 46, except dark gray & shaly.
7486	50	<1.50				Dark shale.
7487	51	<1.50				Dark shale.
7488	52	<1.50				Dark shale.
7489	53	.79				Same as 46, darker, hard to dis-aggregate.
7490	54	.42				Conglomerate with some stain.
7491	55	.86				Same as 46, darker.
7492	56	.91				Light gray piece used also shale in this sample. Same as 46, darker.
7493	57	<1.50				Dark shale.
7494	58	<1.50				Shale.
7495	59	.91				Fine grained laminated sand.
7496	60	<1.50				Same as 46, darker.
7497	61	<1.50				Hard sand, light green, same as 46.
7498	62	.30				Looks like conglomerate of sand and shale, particles. Fossiliferous.
7499	63	<1.50				Dark gray shale.

A. J. W. Headlee, Chief Chemist

AJWH/vr
Enclosure

* Perpendicular to bedding.

Numbers of Chips from the Clinton Core



- 36/45 ✓ High in Barite, Calcium, some Chromium
- 36/46
- 36/29 ✓
- 36/30 ✓
- 36/31 ✓
- 36/32 ✓
- 36/33 ✓
- 36/34 ✓ clean, very permeable
- 36/35 ✓
- 36/36 ← clean
- 36/39
- 36/40
- 36/41
- 36/42

chromite, chromium

High Barium
 28 }
 45 }
 21 }

High Chromium
 44
 58

High Chromium
 High Chromium
 44 - also High Sodium
 50 } Not as high
 52 } Chromium as 44
 57 } High Chromium
 58 } Higher than 44
 63 Chromium up.