



GULF MINERAL RESOURCES COMPANY
Petroleum Reservoir Engineering

COMPANY GULF MINERAL RESOURCES COMPANY FILE NO. RP-2-OSA-150
WELL BOKANZA NO. 15 DATE 12-13-73 ENGAS R. MOHL
FIELD WILDCAT FORMATION PARACHUTE ELEV. 6410' GL
COUNTY UTAH STATE UTAH ORLG. FLD. AIR-MIST CORRS DIAMOND 3"
LOCATION 525' FNL 600' FEL SEC 23 REMARKS
T10S-R25E 33

U147

OIL SHALE ASSAY

Sample Number	Depth, Feet	OIL		Oil Specific Gravity	WATER		Spent Shale Wt. %	Gas Plus Less Wt. %	Tendency to Coke	REMARKS
		Gal/Ton	Wt. %		Gal/Ton	Wt. %				
1	83.3-84.5	9.7	3.8	.927	2.6	1.1	93.8	1.4	NIL	
2	84.5-86.0	15.4	5.9	.924	2.6	1.1	91.3	1.7	NIL	
3	86.0-87.5	8.8	3.4	.923	3.6	1.5	93.7	1.4	NIL	
4	87.5-89.0	5.2	2.0	.923	2.2	0.9	95.9	1.2	NIL	
5	89.0-90.5	10.9	4.2	.921	2.4	1.0	93.3	1.5	NIL	
6	90.5-92.0	12.9	4.9	.920	2.6	1.1	92.3	1.7	NIL	
7	92.0-93.5	9.7	3.7	.925	2.2	0.9	94.0	1.4	NIL	
8	93.5-95.0	8.8	3.4	.929	3.1	1.3	93.9	1.4	NIL	
9	95.0-96.0	15.6	6.0	.924	4.8	2.0	90.4	1.6	NIL	
10	96.0-97.0	7.9	3.1	.945	7.2	3.0	93.1	0.8	NIL	
11	97.0-98.0	0.0	0.0		11.9	5.0	94.3	0.7	NIL	
12	98.0-99.5	11.3	4.4	.932	2.6	1.1	92.4	2.1	NIL	
13	99.5-101.0	14.0	5.4	.919	2.2	0.9	91.3	2.4	NIL	
14	101.0-102.5	14.6	5.6	.920	3.4	1.4	91.2	1.8	NIL	
15	102.5-104.0	14.5	5.5	.915	2.4	1.0	91.4	2.1	NIL	
16	104.0-105.5	9.0	3.5	.931	2.6	1.1	92.0	3.4	NIL	
17	105.5-107.0	9.4	3.7	.931	2.9	1.2	91.5	3.6	NIL	
18	107.0-108.5	12.9	5.0	.926	2.4	1.0	90.7	3.3	NIL	
19	108.5-110.0	7.8	3.0	.921	2.9	1.2	92.3	3.5	NIL	
20	110.0-111.5	9.4	3.6	.924	2.4	1.0	92.1	3.3	NIL	
21	111.5-113.0	7.4	2.9	.926	2.6	1.1	93.0	3.0	NIL	
22	113.0-114.5	15.3	5.9	.924	2.4	1.0	90.3	2.8	NIL	
23	114.5-116.0	8.2	3.2	.925	2.6	1.1	92.3	3.4	NIL	
24	116.0-117.0	11.0	4.2	.925	2.4	1.0	91.7	3.1	NIL	
25	117.0-118.5	32.0	12.3	.921	3.1	1.3	82.8	3.6	NIL	
26	118.5-120.0	11.4	4.4	.920	2.6	1.1	91.0	3.5	NIL	
27	120.0-121.5	13.3	5.1	.920	2.6	1.1	90.4	3.4	NIL	
28	121.5-122.5	13.7	5.2	.917	2.2	0.9	89.9	4.0	NIL	
29	122.5-124.0	23.4	9.0	.915	3.1	1.3	86.3	3.5	NIL	
30	124.0-125.0	13.0	5.0	.913	2.4	1.0	90.3	3.7	NIL	
31	125.0-126.0	28.5	10.9	.913	3.6	1.5	84.2	3.4	SLIGHT	
32	126.0-127.5	9.8	3.8	.931	2.4	1.0	91.9	3.3	NIL	

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		Gal/Ton	Wt. %		Gal/Ton	Wt. %				
33	127.5-29.0	5.2	2.1	.936	2.9	1.2	92.3	4.4	NIL	
34	129.0-30.5	2.4	1.0	.939	2.4	1.0	93.5	4.6	NIL	
35	130.5-32.0	4.9	1.9	.939	2.9	1.2	93.1	3.8	NIL	
36	132.0-33.5	4.9	1.9	.935	2.2	0.9	92.3	4.9	NIL	
37	133.5-35.0	2.4	0.9	.935	2.2	0.9	93.2	5.0	NIL	
38	135.0-36.5	2.3	0.9	.911	2.4	1.0	93.0	5.1	NIL	
39	136.5-38.0	9.4	3.6	.911	3.6	1.5	90.0	4.9	NIL	
40	138.0-39.0	11.9	4.5	.915	2.6	1.1	91.1	3.3	NIL	
41	139.0-40.0	30.7	11.6	.903	4.8	2.0	83.1	3.3	SLIGHT	
42	140.0-41.5	16.5	6.3	.910	3.6	1.5	89.1	3.2	NIL	
43	141.5-43.0	11.3	4.3	.916	3.4	1.4	91.9	2.4	NIL	
44	143.0-44.0	15.0	5.7	.915	5.0	2.1	89.9	2.3	NIL	
45	144.0-45.5	29.1	11.2	.924	5.3	2.2	83.8	2.8	NIL	
46	145.5-47.0	24.4	9.2	.904	3.1	1.3	86.1	3.4	NIL	
47	147.0-48.0	42.9	16.1	.900	6.2	2.6	77.3	4.0	SLIGHT	
48	148.0-49.5	23.7	8.9	.897	4.3	1.8	85.7	3.6	NIL	
49	149.5-51.0	13.9	5.3	.914	3.6	1.5	89.4	3.8	NIL	
50	151.0-52.5	17.1	6.5	.910	2.9	1.2	88.3	4.0	NIL	
51	152.5-54.0	11.5	4.3	.906	2.6	1.1	91.7	2.9	NIL	
52	154.0-55.0	14.9	5.7	.914	5.8	2.4	89.5	2.4	NIL	
53	155.0-56.5	10.8	4.1	.909	2.4	1.0	92.0	2.9	NIL	
54	156.5-58.0	10.2	3.9	.909	2.9	1.2	91.6	3.3	NIL	
55	158.0-59.5	33.9	12.9	.914	4.3	1.8	82.0	3.3	SLIGHT	
56	159.5-61.0	21.9	8.3	.906	4.6	1.9	86.1	3.7	NIL	
57	161.0-62.5	17.2	6.5	.902	2.4	1.0	89.7	2.8	NIL	
58	162.5-64.0	37.0	14.1	.914	4.8	2.0	80.4	3.5	SLIGHT	
59	164.0-65.5	45.6	17.0	.895	3.6	1.5	77.1	4.4	MEDIUM	
60	165.5-67.0	54.5	20.4	.898	4.8	2.0	69.6	8.0	MEDIUM	
61	167.0-68.5	68.8	25.7	.895	4.1	2.0	66.6	5.7	HIGH	
62	168.5-70.0	44.1	16.6	.903	3.3	1.4	78.3	3.7	MEDIUM	
63	170.0-71.5	49.2	18.7	.910	5.0	2.1	75.7	3.5	MEDIUM	
64	171.5-73.0	20.1	7.6	.907	3.4	1.4	89.1	1.9	NIL	
65	173.0-74.5	36.8	14.0	.912	3.4	1.4	81.9	2.7	SLIGHT	
66	174.5-76.0	17.2	6.6	.915	2.2	0.9	90.8	1.8	NIL	
67	176.0-77.5	16.6	6.3	.910	1.9	0.8	91.2	1.7	NIL	
68	177.5-79.0	43.2	16.4	.907	3.8	1.6	79.3	2.8	SLIGHT	
69	179.0-80.5	39.8	15.0	.902	5.0	2.1	79.7	3.2	SLIGHT	
70	180.5-82.0	18.2	6.8	.894	4.3	1.8	89.4	2.0	NIL	
71	182.0-83.0	29.0	11.0	.905	4.1	1.7	84.8	2.5	NIL	

OIL SHALE ASSAY

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		Gal/Ton	Wt. %		Gal/Ton	Wt. %				
72	153.0-54.5	15.9	6.0	.908	3.4	1.4	90.6	2.0	NIL	
73	154.5-56.0	37.6	14.4	.918	5.5	2.3	80.0	3.3	SLIGHT	
74	156.0-57.5	10.7	4.1	.914	4.8	2.0	92.4	1.5	NIL	
75	157.5-59.0	13.9	5.3	.907	3.1	1.3	91.6	1.8	NIL	
76	159.0-90.5	39.4	14.9	.906	4.8	2.0	79.5	3.6	NIL	
77	190.5-92.0	25.5	9.5	.895	3.4	1.4	86.0	3.1	NIL	
78	192.0-93.5	35.6	13.3	.898	4.8	2.0	81.3	3.4	NIL	
79	193.5-95.0	19.6	7.5	.912	3.8	1.6	88.0	2.9	NIL	
80	195.0-96.5	11.5	4.4	.923	3.1	1.3	91.6	2.7	NIL	
81	196.5-98.0	13.2	5.1	.917	2.9	1.2	88.9	4.9	NIL	
82	198.0-99.5	17.8	6.9	.925	3.6	1.5	88.9	2.7	NIL	
83	199.5-01.0	8.8	3.4	.921	2.9	1.2	90.5	4.9	NIL	
84	201.0-02.5	3.7	1.4	.920	2.4	1.0	93.7	3.9	NIL	
85	202.5-04.0	13.5	5.1	.905	2.6	1.1	89.8	4.0	NIL	
86	204.0-05.0	8.2	3.1	.914	6.0	2.5	89.6	4.8	NIL	
87	205.0-06.0	14.6	5.6	.915	3.4	1.4	88.3	4.7	NIL	
88	206.0-07.0	26.5	10.1	.908	2.6	1.1	83.8	5.1	SLIGHT	
89	207.0-08.5	7.3	2.8	.900	2.4	1.0	91.9	4.4	NIL	
90	208.5-09.5	14.4	5.5	.908	3.6	1.5	88.0	5.0	NIL	
91	209.5-10.5	39.7	15.1	.913	3.4	1.4	78.5	5.0	MEDIUM	
92	210.5-12.0	6.5	2.5	.916	2.4	1.0	93.2	3.3	NIL	
93	212.0-13.0	3.3	1.3	.920	2.9	1.2	94.4	3.1	NIL	
94	213.0-14.0	14.8	5.7	.920	2.9	1.2	89.3	3.8	NIL	
95	214.0-15.5	17.6	6.8	.932	7.4	3.1	86.6	3.5	NIL	
96	215.5-17.0	20.4	7.8	.914	3.4	1.4	86.6	4.2	NIL	
97	217.0-18.5	8.4	3.3	.925	2.9	1.2	91.8	3.7	NIL	
98	218.5-20.0	3.9	1.5	.931	2.9	1.2	93.8	3.5	NIL	
99	220.0-21.5	6.1	2.4	.931	3.1	1.3	92.8	3.5	NIL	
100	221.5-23.0	6.6	2.6	.924	3.1	1.3	92.5	3.6	NIL	
101	223.0-24.5	7.1	2.8	.930	4.3	1.8	92.8	2.6	NIL	
102	224.5-26.0	9.2	3.5	.927	4.3	1.8	92.6	2.1	NIL	
103	226.0-27.5	4.0	1.5	.926	4.8	2.0	93.8	2.7	NIL	
104	227.5-29.0	6.1	2.3	.915	5.8	2.4	93.8	1.5	NIL	
105	229.0-30.0	4.6	1.8	.925	7.0	2.9	92.3	3.0	NIL	
106	230.0-31.2	7.2	2.8	.925	6.0	2.5	91.0	3.7	NIL	