

OIL SHALE ASSAY
for
GULF MINERAL RESOURCES COMPANY

BZ-35

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE NO. 1

GULF MINERAL RESOURCES CO.
BZ-35

FORMATION :
DLG. FLUID :
LOCATION :
STATE :

DATE : 10-08-82
FILE NO. : 3808-05-515
ANALYSTS : EW, CM, TB
ELEVATION:

OIL SHALE ASSAY

ASTM D 3904-80

SAMPLE NO.	DEPTH	OIL GAL/TON	OIL WT.%	WATER GAL/TON	WATER WT.%	OIL GRAV.	SHALE WT.%	GAS PLUS LOSS WT.%	TENDENCY TO COKE.
1.	40.0 -41.0	12.1	4.7	6.4	2.7	0.928	91.6	1.1	NIL (NONE)
2.	41.0 -42.0	11.0	4.3	7.7	3.2	0.944	91.6	0.9	NIL (NONE)
3.	42.0 -43.0	9.2	3.6	6.7	2.8	0.946	92.7	0.9	NIL (NONE)
4.	43.0 -44.0	10.3	4.1	5.8	2.4	0.950	92.4	1.1	NIL (NONE)
5.	44.0 -45.0	8.3	3.3	6.0	2.5	0.947	93.5	0.8	NIL (NONE)
6.	45.0 -46.0	9.5	3.7	7.2	3.0	0.942	92.6	0.7	NIL (NONE)
7.	46.0 -47.0	8.5	3.4	6.9	2.9	0.945	92.8	0.9	NIL (NONE)
8.	47.0 -48.0	7.2	2.9	6.5	2.7	0.949	93.4	1.0	NIL (NONE)
9.	48.0 -49.0	9.1	3.6	4.5	1.9	0.943	93.0	1.5	NIL (NONE)
10.	49.0 -50.0	6.4	2.5	3.9	1.6	0.947	94.7	1.1	NIL (NONE)
11.	50.0 -51.0	4.3	1.6	6.1	2.6	0.920	95.0	0.8	NIL (NONE)
12.	51.0 -52.0	4.6	1.8	5.4	2.2	0.920	94.7	1.3	NIL (NONE)
13.	52.0 -53.0	9.5	3.7	5.1	2.1	0.945	93.1	1.1	NIL (NONE)
14.	53.0 -54.0	7.7	3.0	5.7	2.4	0.948	93.4	1.2	NIL (NONE)
15.	54.0 -55.0	8.5	3.4	6.6	2.8	0.944	92.0	1.9	NIL (NONE)
16.	55.0 -56.0	8.4	3.3	7.7	3.2	0.947	92.6	0.9	NIL (NONE)
17.	56.0 -57.0	15.0	5.9	5.4	2.2	0.943	90.6	1.3	NIL (NONE)
18.	57.0 -58.0	17.9	7.1	6.6	2.8	0.945	88.8	1.3	NIL (NONE)
19.	58.0 -59.0	14.5	5.7	4.4	1.8	0.941	91.5	0.9	NIL (NONE)
20.	59.0 -60.0	12.0	4.7	2.9	1.2	0.939	92.8	1.2	NIL (NONE)
21.	60.0 -61.0	7.8	3.1	4.5	1.9	0.946	93.8	1.2	NIL (NONE)
22.	61.0 -62.0	5.9	2.3	5.0	2.1	0.947	94.7	0.8	NIL (NONE)
23.	62.0 -63.0	8.7	3.4	4.5	1.9	0.945	93.5	1.2	NIL (NONE)
24.	63.0 -64.0	9.8	3.9	4.7	2.0	0.943	92.7	1.5	NIL (NONE)
25.	64.0 -64.7	6.4	2.5	5.5	2.3	0.942	94.2	1.0	NIL (NONE)

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE NO. 2

GULF MINERAL RESOURCES CO.
RZ-35

FORMATION :
DLG. FLUID :
LOCATION :
STATE :

DATE : 10-08-82
FILE NO. : 3808-09-515
ANALYSTS : EW, CM, TB
ELEVATION:

OIL SHALE ASSAY

ASTM D 3904-80

SAMPLE NO.	DEPTH	OIL GAL/TON	OIL WT. %	WATER GAL/TON	WATER WT. %	OIL GRAV.	SHALE WT. %	GAS PLUS LOSS WT. %	TENDENCY TO COKE
26.	179.8 -181.0	5.1	2.0	8.4	3.5	0.920	93.5	1.0	NIL (NONE)
27.	181.0 -182.0	4.2	1.6	5.2	2.2	0.920	95.0	1.2	NIL (NONE)
28.	182.0 -183.0	3.7	1.4	5.6	2.3	0.920	95.0	1.2	NIL (NONE)
29.	183.0 -184.0	9.4	3.6	3.8	1.6	0.931	93.2	1.6	NIL (NONE)
30.	184.0 -185.0	11.3	4.4	7.7	3.2	0.928	90.9	1.5	NIL (NONE)
31.	185.0 -186.0	2.7	1.1	6.4	2.7	0.920	95.4	0.9	NIL (NONE)
32.	186.0 -187.0	6.8	2.7	5.6	2.3	0.954	93.7	1.3	NIL (NONE)
33.	187.0 -188.0	1.3	0.5	11.4	4.8	0.920	93.9	0.9	NIL (NONE)
34.	188.0 -189.0	20.6	8.1	2.0	0.8	0.938	89.9	1.2	NIL (NONE)
35.	189.0 -190.0	15.2	6.0	0.7	0.3	0.939	92.3	1.5	NIL (NONE)
36.	190.0 -191.0	14.3	5.6	0.6	0.3	0.937	92.5	1.6	NIL (NONE)
37.	191.0 -192.0	11.6	4.5	0.6	0.2	0.940	94.3	0.9	NIL (NONE)
38.	192.0 -193.0	11.4	4.5	0.7	0.3	0.935	94.2	1.0	NIL (NONE)
39.	193.0 -194.0	9.3	3.6	0.6	0.3	0.941	95.1	1.0	NIL (NONE)
40.	194.0 -195.0	14.0	5.5	0.3	0.1	0.937	93.2	1.2	NIL (NONE)
41.	195.0 -196.0	11.9	4.7	0.7	0.3	0.937	93.9	1.1	NIL (NONE)
42.	196.0 -197.0	17.2	6.7	0.7	0.3	0.935	91.6	1.4	NIL (NONE)
43.	197.0 -198.0	5.7	2.2	3.6	1.5	0.934	95.4	0.9	NIL (NONE)
44.	198.0 -199.2	1.8	0.7	2.0	0.8	0.920	97.6	0.9	NIL (NONE)

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.