

UNION OIL COMPANY OF CALIFORNIA

GULF FEDERAL #1-12

In accordance with Rule 111 results of deviation surveys made on the Union Oil Company of California Gulf Federal - Well No. 1-12 are furnished as follows:

ANGLE	DEPTH	ANGLE	DEPTH
1/2	150	1-1/2	5907
1/2	533	1	6214
1-1/4	1080	1	6411
1-1/4	1550	2-1/4	6664
1	2050	1-3/4	6855
1	2625	1-1/4	7251
1-1/2	2692	1-1/2	7673
1	3450	2	7814
1	3638	3/4	8073
3/4	4185	2	8500
1	4500	1-1/2	8661
3/4	4625	2	9224
1-3/4	4843	1-1/2	9769
1/2	5049	1-3/4	10322
1	5327	2	10622
2	5604		

I hereby certify that all deviation tests set forth above are true and correct to the best of my knowledge.

C. W. Dixon

for UNION OIL COMPANY OF CALIFORNIA

Subscribed and sworn to before me, a Notary Public in and for Midland County, Texas, this _____ day of _____, 1964.

Belle Grimes
Belle Grimes

Core No. 1: 10,322-10,372' Recovered 14' gray, dense, stylitic lime, no porosity or show; 11' gray lime, good small vuggy porosity with good show; 5' gray, dense lime with thin shale streaks at bottom.

Core No. 2: 10,373-10,409' Recovered 3-1/2' gray, dense lime, no show; 3-1/2' gray, dense, stylitic lime, no show; 5' gray, dense cherty lime, no show; 9' gray shale; 5' gray, dense lime; 6' gray, dense, broken lime.