

Petrophysical Summary

Gulf Federal Com 4
30015325600000
LOG ANALYSIS
INPUT AND ANALYSIS BY BRIAN DAVIS

Well #	Field	Measured Depth		GROSS INTV	ZONE	MEASURED DEPTH		RESERVOIR POROSITY BASED ON NET SAND			
						VSH<.4	VSH<.4 PHIE>.09				
						GROSS SAND	RES SAND	VSH<.4		PHIE>.09	
		Top	Bottom			(F)	(F)	PHIT	PHIE	SWE	K Timur
		(F)	(F)	(F)		(F)	(F)	(v/v)	(v/v)	(v/v)	md
Gulf Federal Com 4	30015325600000	3982	5019.5	1037.5	Injection	813.5	644	0.140	0.120	0.952	1.170

Notes:

- 1 Modified Simandoux model ran on zones
- 2 Rw set to 0.05 Ohm-m at FT
- 3 Rt from induction log Deep curve
- 4 Sand cutoff VSH<.4
- 5 Res sand cutoff VSH<.4 PHIE>.09
- 6 Pay sand cutoff VSH<.4 PHIE>.09
- 7 Porosity on 2.65 matrix with density as porosity
- 8 Vshale from GR with Steiber correction applied
- 9 A=1,M=2,N=2

OCD Case No. 15322
KEY ENERGY
Exhibit #12