

## OIL SHALE CORE DESCRIPTION

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	DEPTH	LITHOLOGY	COLOR					BEDDING	EST. RICHNESS	CALCAR- GUSNESS	ACCE- SSORY	MISC.	GULF MINERAL RESOURCES CO. WELL EVACUATION #3			
			TAN	GRAY	BROWN	GRY-BRN	BLACK						OTHER	LOCATION	REMARKS	
Core #1 Cut 9.0' Rec. 7.6'	432.5	Tuff	X													TUFFACEOUS SANDSTONE
	434.5	Silty SH	X		/											
	435.6	Silty SH	X		/											
	437	Silty SH	X		/											2" porous zone at 437'
	438	Silty SH	X		/											PLANT FOSSILS 438-4
	439	Oil SH				X										THIN DK ZONE, PLANT FOSSILS
TD	441.5															
Core #2, Cut 8.5' Rec 6'	441.5	Oil SH				X										
	442	Oil SH				X										443-443.5 HAS 2 1/2% POROSITY
	444	Oil SH	X													Oil SH
	446	Oil SH				X										
	446.5															
TO	450	No Recovery														
Core #3 TO Cut 11' Rec. 2'	450	Oil SH			/			X								DK MARLSTONE
	456															
	458															
	461	No Recovery														
Core #4 Cut 21' Rec 20'	461	Marlstone	X		/			X								
	462.5	oil sh			/			X								
	463	"			/			X								From 463.5-464.2
	465	marlstone	X		/			X								25% porosity
	466	"			X			X								
	467	Shale	X		/			X								467-469 10-15% porosity
	470	"	X		/			X								
	473	"	X		/			X								dk gy - holocasts 1/2" indurated
	474	Shale	/		X			X								dk gy - 50% porosity, 1/2"
	475	"	/		X	/		X								Layer of Saline in zone 475-476
	478	"			X			X								dk, contorted porous, 40-50%
	481	no recovery														much S.M. as above, looks
	492.8															like layer cake with 1/2" of S.M. (Gulf Minerals)
	Core #5 Cut 18.6 Rec 18.3	492.8	Shale			X			X							
497		Marlstone	X		/			X								dk brn - 25% porosity
499		Shale			X			X								dk brn - 25% porosity
501.1		no rec														
504																
Core #6 Cut 20' Rec 18.9	504	Oil SH			X			X								dk gy brn
	506	"			X			X								dk brn
	511	Oil SH			X			X								
	514	"			X			X								
	515	Marlstone	X		/			X								
	516	Oil SH			X			X								dk brn
	517.8	no rec														
	521.9															

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			TAN	GRAY	BROWN	GRY-BRN	BLACK	OTHER									
Core #7 Cut 1.9 Rec 7.8	521.4	Oil Sh				X			X	X		X	X	X	X		Sum from 521-524
	529.2																
	532.9	No Recovery															
Core #8 Cut 2.1 Rec 3.3	532.9	Oil Sh				X			X		X	X	X	X	X		Grass is large as 2" ind. partially filled with S.O.
	535.3																
	537.3	No Recovery															
Core #9 Cut 19.3 Rec 19.3	537.3	Oil Sh				X			X		X	X	X	X	X		2" of CARBONATE & EVAPORITE
	537.7	Oil Sh				X			X		X	X	X	X	X		5% thin EVAPORITE, oil rich
	541	Oil Sh				X			X		X	X	X	X	X		MANOSANY, 10% porous EVAP.
	542	Oil Sh				X			X		X	X	X	X	X		
	543	Oil Sh				X			X		X	X	X	X	X		
	546	Oil Sh				X			X		X	X	X	X	X		PLANT FOSSILS
	550	Oil Sh				X			X		X	X	X	X	X		550-5, 1/2" EVAPORITE, FOSSED
	551	Oil Sh				X			X		X	X	X	X	X		
TO	554.6																
Core #10 Cut 19.2 Rec 19.2	554.6	Oil Sh				X			X		X	X	X	X	X		SPOT EVAPORANT MINERAL AT
	557	Oil Sh				X			X		X	X	X	X	X		SELECTION (?)
	560	Oil Sh				X			X		X	X	X	X	X		PLANT FOSSILS
	561	Oil Sh				X			X		X	X	X	X	X		" "
	565	Oil Sh				X			X		X	X	X	X	X		
TO	573.5																
Core #11 Cut 19.7 Rec 19.7	573.5	Oil Sh				X			X		X	X	X	X	X		PLANT FOSSILS
	576	Oil Sh				X			X		X	X	X	X	X		
	577	Oil Sh				X			X		X	X	X	X	X		
	581	Oil Sh				X			X		X	X	X	X	X		
	585	Oil Sh				X			X		X	X	X	X	X		MANOSANY, PLANT FOSSILS
TO	593.5																
Core #12 Cut 19.2 Rec 19.2	593.5	Oil Sh				X			X		X	X	X	X	X		MANOSANY COLOR
	595	Oil Sh				X			X		X	X	X	X	X		
	599	Oil Sh				X			X		X	X	X	X	X		
	607	Oil Sh				X			X		X	X	X	X	X		MEDIUM BRN, LESS POROUS
	609	Oil Sh				X			X		X	X	X	X	X		
TO	612.7																
Core #13 Cut 20.2 Rec 20.2	612.7	Oil shale				X			X		X	X	X	X	X		
	618	"				X			X		X	X	X	X	X		
	615	"				X			X		X	X	X	X	X		
	621	"				X			X		X	X	X	X	X		
	624	"				X			X		X	X	X	X	X		after dark streaks run
	633.9																between 11 & 12" - 13" - 14" - 15" - 16" - 17" - 18" - 19" - 20" - 21" - 22" - 23" - 24" - 25" - 26" - 27" - 28" - 29" - 30" - 31" - 32" - 33" - 34" - 35" - 36" - 37" - 38" - 39" - 40" - 41" - 42" - 43" - 44" - 45" - 46" - 47" - 48" - 49" - 50" - 51" - 52" - 53" - 54" - 55" - 56" - 57" - 58" - 59" - 60" - 61" - 62" - 63" - 64" - 65" - 66" - 67" - 68" - 69" - 70" - 71" - 72" - 73" - 74" - 75" - 76" - 77" - 78" - 79" - 80" - 81" - 82" - 83" - 84" - 85" - 86" - 87" - 88" - 89" - 90" - 91" - 92" - 93" - 94" - 95" - 96" - 97" - 98" - 99" - 100"

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			TAN	GRAY	BROWN	GRY-BRN	BLACK		OTHER	LAM.	CONTOUR.	OTHER		POOR	FAIR	MOD.	RICH	SLIGHTLY	MODERATELY	VERY	PYRITE	SALINE MIN.	CARBON	FOSSILS	VUGS	FRACT.	BRECCIA	LOCATION	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Core #14 cut 19.2 Rec 18.7	632.9	oil sh		X					X					X	X	X			X		X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</

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			TAN	GRAY	BROWN	GRY-BRN	BLACK	OTHER	LAM.	CONTOUR.	OTHER	POOR	FAIR	MOD.	RICH	SLIGHTLY	MODERATELY	VERY	PYRITE	SALINE MIN.	CARBON	FOSSILS	VUGS	FRACT.	BRECCIA	REMARKS
CORE #19 (CONT)	730	Oil sh				X		X						X	X	X	X	X	X	X	X					Good Porosity & small
CUT 18.2'	731	Oil sh			X			X						X	X	X	X	X	X	X	X					
REC 14.4'	732	Oil sh				X			X					X	X	X	X	X	X	X	X					
	733	Oil sh			X			X						X	X	X	X	X	X	X	X					
	734	Oil sh			X			X						X	X	X	X	X	X	X	X					
	735	Oil sh			X			X						X	X	X	X	X	X	X	X					736.3-737-RICH
	736	Oil sh			X			X						X	X	X	X	X	X	X	X					THIN BED GILSONITE 732.3
	737	Oil sh					X	X						X	X	X	X	X	X	X	X					DEAD OIL IN CORE
TO	738	No Recovery																								
TO	743.5																									
CORE #20	740.5	Oil sh			X			X						X	X	X	X	X	X	X	X					2' IRMADINE CORE
CUT 15.2'	741	Oil sh			X			X						X	X	X	X	X	X	X	X					MAHOGANY
REC 18.2'	742	Oil sh				X			X					X	X	X	X	X	X	X	X					
	743	Oil sh			X			X						X	X	X	X	X	X	X	X					
	744	Oil sh			X			X						X	X	X	X	X	X	X	X					
	745	Oil sh			X			X						X	X	X	X	X	X	X	X					
	746	Oil sh			X			X						X	X	X	X	X	X	X	X					
	747	Oil sh			X			X						X	X	X	X	X	X	X	X					
	748	Oil sh			X			X						X	X	X	X	X	X	X	X					
	749	Oil sh			X			X						X	X	X	X	X	X	X	X		X			DEAD OIL, MUCH FINE
	750	Oil sh			X			X						X	X	X	X	X	X	X	X					
	751	Oil sh			X			X						X	X	X	X	X	X	X	X					
	752	Oil sh			X			X						X	X	X	X	X	X	X	X					
	753	Oil sh			X			X						X	X	X	X	X	X	X	X					
	754	Oil sh			X			X						X	X	X	X	X	X	X	X					
	755	Oil sh			X			X						X	X	X	X	X	X	X	X					
	756	Oil sh			X			X						X	X	X	X	X	X	X	X					
	757	Oil sh			X			X						X	X	X	X	X	X	X	X					
	758	Oil sh			X			X						X	X	X	X	X	X	X	X					
TO	759	No Recovery																								
TO	759.5																									
CORE #21	759.5	Oil sh		X										X	X	X	X	X	X	X	X					
	760.5	"		X										X	X	X	X	X	X	X	X					
	761.5	"		X										X	X	X	X	X	X	X	X					
	762.5	"		X										X	X	X	X	X	X	X	X					
	763.5	"		X										X	X	X	X	X	X	X	X					
	764.5	"		X										X	X	X	X	X	X	X	X					
	765.5	"		X										X	X	X	X	X	X	X	X					
	766.5	"		X										X	X	X	X	X	X	X	X					
	767.5	"		X										X	X	X	X	X	X	X	X					
	768.5	"		X										X	X	X	X	X	X	X	X					
	769.5	"		X										X	X	X	X	X	X	X	X					
	770.5	"		X										X	X	X	X	X	X	X	X					
	771.5	"		X										X	X	X	X	X	X	X	X					
	772.5	"		X										X	X	X	X	X	X	X	X					
	773.5	"		X										X	X	X	X	X	X	X	X					
	774.5	"		X										X	X	X	X	X	X	X	X					
	775.5	"		X										X	X	X	X	X	X	X	X					
	776.5	"		X										X	X	X	X	X	X	X	X					
	777.5	"		X										X	X	X	X	X	X	X	X					
	778.5	"		X										X	X	X	X	X	X	X	X					
	779.5	"		X										X	X	X	X	X	X	X	X					
	780.5	"		X										X	X	X	X	X	X	X	X					
	781.5	"		X										X	X	X	X	X	X	X	X					
	782.5	"		X										X	X	X	X	X	X	X	X					
	783.5	"		X										X	X	X	X	X	X	X	X					
	784.5	"		X										X	X	X	X	X	X	X	X					
	785.5	"		X										X	X	X	X	X	X	X	X					
	786.5	"		X										X	X	X	X	X	X	X	X					
	787.5	"		X										X	X	X	X	X	X	X	X					
	788.5	"		X										X	X	X	X	X	X	X	X					
	789.5	"		X										X	X	X	X	X	X	X	X					
	790.5	"		X										X	X	X	X	X	X	X	X					
	791.5	"		X										X	X	X	X	X	X	X	X					
	792.5	"		X										X	X	X	X	X	X	X	X					
	793.5	"		X										X	X	X	X	X	X	X	X					
	794.5	"		X										X	X	X	X	X	X	X	X					
	795.5	"		X										X	X	X	X	X	X	X	X					
	796.5	"		X										X	X	X	X	X	X	X	X					
	797.5	"		X										X	X	X	X	X	X	X	X					
	798.5	"		X										X	X	X	X	X	X	X	X					
	799.5	"		X										X	X	X	X	X	X	X	X					
	800.5	"		X										X	X	X	X	X	X	X	X					
	801.5	"		X										X	X	X	X	X	X	X	X					
	802.5	"		X										X	X	X	X	X	X	X	X					
	803.5	"		X										X	X	X	X	X	X	X	X					
	804.5	"		X										X	X	X	X	X	X	X	X					
	805.5	"		X										X	X	X	X	X	X	X	X			</		

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