

U060

30-105-24E

Unit 24 County, UT

X-1 CORELOG

WHITE RIVER SHALE PROJECT

HOLE: X-1

Depth	FRX	PP	Gal/50 Ton	Lith	Rock Description
872	+130		13.7		
873		.01	7.8		Oil Shale - low to medium grade,
874	90	.45.58	8.4		buff to brown, thinly laminated
875	77	.40	10.5		
876			14.1		
877	88	.00.41.45	40.3		Oil Shale - high grade, black
878		.40.55	13.7		Oil Shale - low to medium grade,
879		.72	7.6		buff to brown, thinly laminated,
880		.50.40	7.0		silty
881			6.2		
882	+120	.53	7.1		
883			10.7		
884			13.8		
885		.96	13.5		885.56-.74 Sandstone layer,
886			9.9		oil saturated
887			10.8		
888		.67	12.0		
889			30.1		Oil Shale - high grade, black
890			24.7		890.48-.57 Sandstone layer,
891			9.5		oil saturated
892	+110		8.7		
893			2.9		Marlstone - light gray, hard
894			4.8		Oil Shale - low to medium grade,
895		.55	11.4		light brown
896			25.9		Oil Shale - high grade, dark brown
897		.67	10.4		
898			11.8		898.75-.96 Sandstone layer,
899			10.1		oil saturated
900		.80	14.7		Oil Shale - medium brown,
901		.34	16.8		finely laminated
902	+100		12.9		
903			9.0		
904			8.5		904.00-.20 Sandstone layer,
905	90		7.9		oil saturated
906			8.0		Oil Shale - medium brown,
907			8.9		finely laminated
908			11.4		908.53-.95 Sandstone layer,
909			16.4		oil saturated
910			11.4		Oil Shale - medium brown,
911			9.6		finely laminated
912	+90		9.6		
913			9.0		
914			11.5		
915			11.9		
916		.01	11.6		916.14-.34 Sandstone layer,
917			13.0		917.50-.84 oil saturated
918			9.5		Oil Shale - medium brown,
919			12.1		finely laminated
920		.85	11.3		920.85-921.05 Sandstone layer,
921			9.4		oil saturated

Depth	MM	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
922	+80		.85		8.5		Oil Shale - medium brown.
923					16.5		finely laminated
924					12.0		
925					9.2	++++	925.56-.71 Sandstone layer
926					7.4		Oil Shale - low to medium grade.
927					5.2		buff to brown, thinly laminated
928					9.4		
929		I 90°	.00		8.7		
930					6.9		
931			.76		7.3		
932	+70		.19		10.1		
933					9.1		
934			.43		13.8		
935			.44		14.3	++++	935.44-937.06 Upper Wavy Bed
936					10.7	++++	Sandstone layer with interbedded
937			.06		9.9		shale, contorted bedding
938					7.9		
939			.40		11.0		
940			.71		14.8		Oil Shale - low to medium grade.
941					15.6		buff to brown, thinly laminated
942	+60				13.9		
943					11.3		
944					11.3		
945					10.4		
946			.50		7.5		
947					8.3		
948			.30 .49		11.3		
949					14.0		
950		I 90°	.32 .74		7.9		
951					6.7		
952	+50				8.8		
953			.58		6.6		
954			.67		9.3		
955			.88		15.6		
956					11.2		
957					10.5		
958			.71		13.3		
959		I 90°	.78		37.4		Oil Shale - high grade, black
960					15.7		Oil Shale - low to medium grade.
961					12.7		buff to brown, thinly laminated
962	+40				13.6		
963					14.1		
964					16.4		
965					36.2		Oil Shale - high grade, black
966					15.2		Oil Shale - low to medium grade.
967					15.8		buff to brown, thinly laminated
968			.61 .78		23.5		
969					25.0		Oil Shale - high grade, dark brown
970					7.3		
971					5.6		

Depth	FRX	PP	0	50	Ton	Lith	Rock Description
972	+30	85°	.38		5.2		
973			.47		2.6		Marlstone - light gray, hard
974					7.2		Oil Shale - low grade, light brown
975			.07		4.5		
976		87°			4.7		
977		85°	.10.94		3.2		
978			.21.81		2.1		Marlstone - light gray, hard
979					2.0		
980			.52		3.6		Bottom 'A' Groove
981					13.0		Oil Shale - low grade, light brown
982	+20				12.9		
983			.32		20.5		983.76-.84 Sandstone layer,
984					27.4		oil saturated
985					15.7		Oil Shale - low grade, light brown
986					13.2		
987					13.9		
988			.68		23.0		988.75-.989.15 Sandstone layer,
989					29.6		oil saturated
990			.28		26.5		Oil Shale - medium grade,
991					27.0		dark - black
992	+10		.00.74		8.2		992.95-993.75 Sandstone layer,
993			.84		40.0		oil saturated
994					24.9		
995					18.9		Oil Shale - medium to high grade,
996					14.6		brown to black, thinly laminated
997					10.9		
998					21.9		
999					17.0		
1000			.74		10.2		
1001					12.5		
1002	0		.39		13.2		1002.45-.77 Mahogany Marker
1003					9.9		Sandstone layer, oil saturated
1004		90°			8.7		Oil Shale - low grade, light brown
1005					12.3		
1006			.69		19.5		
1007			.00.09.15		48.1		Oil Shale - high grade,
1008					22.9		dark brown to black
1009					21.6		Oil Shale - medium grade, dark
1010					16.3		brown
1011					30.8		1011.5-.88 Sandstone layer,
1012	-10				29.7		1012.35-.55 oil saturated
1013			.86		37.1		
1014			.12.33.48		50.9		Oil Shale - high grade,
1015			.57.66		86.7		dark brown to black
1016		80°			74.1		'Mahogany Zone'
1017			.89		44.4		
1018					48.3		
1019					52.6		
1020					20.8		
1021					39.5		

Depth	±MM	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
1022	-20		.60		25.9		
1023		60°			20.7		
1024					23.1		
1025			.33		26.5		
1026					32.8		1026.60-.78 Sandstone layer,
1027			.23		41.0		oil saturated
1028			.41		35.1		Oil Shale - high grade, dark
1029					21.5		brown to black
1030					30.8		'Mahogany Zone'
1031					28.8		
1032	-30				18.1		1032.28-1033.13 Sandstone layer,
1033			.11		15.9		oil saturated
1034					21.5		
1035					31.2		
1036					12.0		Oil Shale - medium to high grade,
1037					11.2		brown to dark brown,
1038					12.8		thinly laminated
1039					16.5		
1040					32.2		
1041					35.2		
1042	-40				31.0		
1043			.44		23.6		
1044			.97		23.9		
1045			.38		36.3		
1046					27.7		
1047			.70		20.1		Oil Shale - medium grade, brown
1048					14.9		
1049					11.6		
1050					11.7		
1051					14.1		
1052	-50				23.9		
1053					10.4		
1054			.12, .45, .54		8.2		
1055			.67		5.9		Oil Shale - low to medium grade,
1056					4.9		buff to brown
1057			.50		7.5		
1058					19.4		
1059			.40, .60, .87		7.2		1059.95-1060.30 Sandstone layer,
1060			.62, .68		8.2		oil saturated
1061			.83		21.1		
1062	-60				24.5		
1063					8.6		Oil Shale - low to medium grade,
1064					6.7		light to medium brown
1065					17.2		
1066			.10		38.5		
1067					5.3		
1068			.36		5.0		
1069					2.6	T-LT	Marlstone - light gray, hard
1070			.22		3.3		
1071			.85		3.4		

MILLER REEFER SHALE PROJECT					Gal/		
Depth	±MM	FRX	PP	0	50 Ton	Lith	Rock Description
1072	-70				11.4		
1073			.73		15.2		1073.64-1074.22 Sandstone layer
1074			.12		24.3		
1075			.50		12.0		
1076					6.6		Top 'B' Groove
1077					2.9	TIT	Marlstone - light gray, hard
1078			.39		4.1		
1079					4.5		
1080					4.1		
1081					4.3		
1082	-80				5.7		
1083					5.8		Oil Shale - low grade, buff to
1084					5.9		brown, thinly laminated
1085			.36		3.2		
1086					9.4		
1087		90°			5.9		
1088					3.2		
1089			.74		2.6	TIT	Marlstone - light gray, hard
1090		90°	.22.50.93		3.0		1090.28-.50 Sandstone layer
1091			.31		4.2		oil saturated.
1092	-90				2.6	TIT	sulfide minerals present
1093					3.8		Oil Shale - low grade, buff,
1094					4.3		thinly bedded
1095			.33.65		2.9	TIT	Marlstone - light gray, hard
1096					4.0		Oil Shale - low grade, buff,
1097					3.4		thinly bedded
1098					3.0		
1099		90°	.45		2.5	TIT	Marlstone - light gray, hard
1100					2.2	TIT	
1101			.44		2.4	TIT	
1102	-100				4.0		Oil Shale - low grade, buff,
1103					6.8		thinly bedded
1104					1.3	TIT	Marlstone - light gray, hard
1105			.49		1.1	TIT	
1106					1.0	TIT	
1107					0.7	TIT	
1108					0.9	TIT	
1109					1.6	TIT	
1110					1.2	TIT	
1111					0.5	TIT	
1112	-110				0.4	TIT	
1113					1.1	TIT	Marlstone - light gray, hard
1114			.40.58		3.2		Oil Shale - low grade, buff
1115			.17		5.5		thinly bedded
1116			.16.74.91		5.3		
1117			.07.40.52		2.4	TIT	Marlstone - light gray, hard
1118			.44.56		1.3	TIT	
1119					5.6		Oil Shale - low grade, buff
1120					12.1		thinly bedded
1121					13.6		