

U068  
2E-105-24E  
DINTAH COUNTY, UT

X-11 CORE LOG

Depth	±MM	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
736	+130				8.5		Oil Shale - low to medium grade;
737					7.3		brown to dark brown,
738					6.4		thinly laminated
739					6.8		
740					9.3		
741					12.8		
742		.60			14.4		742.55-.84 Sandstone layer,
743		.31			9.5		oil saturated
744					10.5		
745					21.1		745.16-751.78 Lost Core Zone
746	+120				21.1		
747					21.1		
748					21.1		
749					21.1		
750					21.1		
751					21.1		
752					7.5		Oil Shale - low grade,
753		.95			21.9		medium brown
754					12.4		
755		.15			9.5		
756	+110	.25			10.5		
757					10.6		
758		.32			17.4		758.46-.68 Sandstone layer
759					14.4		
760					11.2		
761					10.0		761.71-.86 Sandstone layer
762		.00			9.0		oil saturated
763					8.7		
764					9.5		764.76-.82 Sandstone layer
765					12.1		oil saturated
766	+100	.95			20.0		766.43-.95 Sandstone layer
767					11.0		oil saturated
768					10.4		Oil Shale - low grade,
769		.72			10.5		medium brown
770					9.7		
771					11.9		
772		.30			11.2		
773					11.8		
774		.78			11.9		774.39-.60 Sandstone layer
775					13.4		775.87-776.14 oil saturated
776	+90	.91			9.7		Oil Shale - low grade,
777					11.6		medium brown
778					12.9		
779					10.7		779.38-.45 Sandstone layer
780		.39			7.8		oil saturated
781		90°			15.3		Oil Shale - low grade,
782					15.5		medium brown, very hard
783					9.8		
784					8.4		
785		.30			5.1		

Depth	FT	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
786	+80				6.8		
787					15.2		
788					12.7		Oil Shale - low to medium grade
789					10.5		with small amounts of high
790		.33			9.0		grade, brown to black,
791					9.4		thinly laminated
792					10.6		
793					15.9		
794		.86			6.5		793.80-795.83 Upper Wavy Bed
795					7.6		sandstone layer with interbedded
796	+70				11.3		shales, buff to medium brown,
797		.70			10.4		contorted bedding
798					13.6		
799					16.5		
800					16.0		Oil Shale - low to medium grade,
801					20.0		brown to dark brown
802					15.4		
803					10.0		
804					10.0		
805					6.6		
806	+60				8.7		
807					12.7		
808					12.3		
809					6.6		
810					7.5		
811					8.2		
812					5.7		
813					10.6		
814					16.7		
815					12.0		
816	+50				8.7		
817					10.8		
818					19.6		
819					40.1		Oil Shale - high grade, black
820					14.1		Oil Shale - medium grade, brown
821					12.8		
822					13.1		
823					13.6		
824					14.3		
825					27.2		
826	+40				23.7		Oil Shale - high grade,
827					14.1		dark brown
828					15.8		Oil Shale - medium grade, brown
829					34.5		
830					18.6		Oil Shale - high grade, black
831					7.4		
832					5.7		832.00-.32 Sandstone layer
833					6.0		with sulfide minerals
834					2.9		
835					5.2		Marlstone - light gray, hard

Depth	FT/M	FRX	PP	0	Gal/ 50 Ton Lich	Rock Description
836	+30				7.5	Oil Shale - low to medium grade, brown
837					3.9	
838					4.8	
839					2.7	Marlstone - light gray, hard
840					0.9	
841					2.6	Bottom 'A' Groove
842					9.0	
843					13.1	
844					13.9	Oil Shale - medium to high grade, brown to black, thinly laminated
845					41.6	
846	+20	.52			18.7	
847		.00			17.6	
848					14.1	
849		.94			12.5	
850		.91			20.6	
851					28.0	Oil Shale - high grade, dark brown to black
852					28.3	
853		.95			26.4	
854					43.2	
855					42.8	
856	+10				30.8	
857					22.5	
858					18.9	Oil Shale - low grade, buff to brown
859					14.4	
860		.60			10.8	
861					20.5	
862					18.4	
863					11.8	
864					13.8	
865					16.5	
866	0	.82			9.9	865.57-866.03 Mahogany Marker sandstone layer, oil saturated
867					8.8	
868		.04.02			9.9	
869					14.0	Oil Shale - low grade, buff to brown
870					18.8	
871		.44			50.0	
872					26.6	
873					21.8	
874		.60			23.1	
875					14.7	
876	-10	.38.59			19.0	
877		.35			27.9	877.83-.91 Sandstone layer, oil saturated
878					32.6	
879					29.8	
880		.48			77.8	'Mahogany Zone'
881	15°	.00.85			73.4	Oil Shale - high grade, dark brown to black
882		.17.45			45.5	
883					63.9	
884					32.8	
885					19.1	

## WHITE RIVER SHALE PROJECT

HOLE: X-11

Depth	±MM	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
886	-20		.10.90		41.3		
887					39.7		
888					18.4		
889			.33		18.0		
890			.70		37.5		Oil Shale - medium to high grade,
891					43.9		brown to black,
892					46.0		thinly laminated
893			.97		44.5		
894					22.1		
895					26.3		
896	-30				42.8		
897					19.1		
898					15.3		
899					16.8		
900			.57		31.1		
901					32.6		
902					15.2		
903			.28.73		9.8		Oil Shale - medium grade, brown
904			.33		12.6		
905			.00.65		10.1		
906	-40		.40		18.7		
907			.75		33.6		
908					33.3		Oil Shale - medium grade with some
909					28.3		high grade bands, brown to black
910			.68		22.1		
911					25.7		
912					35.4		
913					22.0		
914					21.0		
915					14.1		
916	-50		.48		10.8		
917			.85		11.4		
918			.75		15.5		
919			.54		28.3		
920			.75		11.0		
921			.22.46.71		9.1		Oil Shale - low to medium grade,
922			.30.53.80		7.6		brown to dark brown,
923		90	.33		5.3		thinly laminated
924			.07.80		6.0		
925			.50		15.7		
926	-60		.50		10.9		
927		90	.10.59		7.5		
928			.40		26.1		
929			.21		24.3		
930			.80		9.2		
931			.75		8.9		
932			.67.94		20.4		
933			.20		35.0		
934					6.5		
935			.29		5.1		

## WHITE RIVER SHALE PROJECT

HULL: X-11

Depth	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
936	-70			3.0		
937		.35		3.9		
938				3.7		
939				9.5		
940				31.5		940.59-.73 Sandstone layer
941				22.8		940.82-.91 oil saturated
942				13.4		
943				7.9		Top of 'B' Groove
944				6.3		
945				4.3		
946	-80			4.3		Oil Shale - low grade with some medium grade.
947				6.9		light brown to brown
948				4.1		thinly laminated
949				5.1		
950				8.5		
951				3.0		
952		I 90°		7.4		
953		.39		8.8		
954				6.1		
955				3.6		
956	-90			3.3		
957				4.4		
958				3.5		958.1-.25 Sandstone layer
959				3.2		oil saturated
960				3.7		Oil Shale - low grade
961				3.6		light brown
962				4.8		
963		.50		5.4		
964				5.4		
965				4.6		
966	-100	.60		3.1		
967				2.8	TLT	Marlstone - light gray, hard
968				2.1	TLT	
969		.35.65		7.4		Oil Shale - low grade, light brown
970	15°	.80.20		9.0		finely laminated
971		.20		5.0		
972				3.8		
973				4.1		
974				3.6		
975				5.3		
976	-110			3.1		
977				2.1	TLT	Marlstone - light gray, hard
978				2.0	TLT	
979				5.1		Oil Shale - low grade
980				5.5		light gray to buff
981				5.5		
982				1.7	TLT	Marlstone - light gray, hard
983		.25.35.70		4.6		Oil Shale - low grade.
984	-120	.30.60		6.6		cream to buff