

067  
33-105-046  
LINCOLN COUNTY, UT

X-10 CORE LOG

Depth ±MM	FRX	PP	0	50	Gal/ Ton	Lith	Rock Description
841	+130		.69		6.7		
842			.10		14.9		Oil Shale - low to medium
843			.91		20.3		grade, brown to dark brown
844			.70		8.7		thinly laminated
845			.25		7.4		
846			.05.90		9.0		
847		90°			12.3		
848			.05		21.8		
849					27.8		
850			.85		8.5		
851	+120		.53		7.3		
852			.30		6.9		
853			.40.93		6.7		
854		90°	.75		9.7		
855			.05.45		13.0		
856			.35		12.9		
857			.00.40		10.2		
858		90°	.00.46		9.7		
859					11.4		
860					15.6		
861	+110				33.6		861.65-.83 Sandstone layer.
862			.87		10.8		oil saturated
863			.83		9.1		
864					2.7		Marlstone - light gray, hard
865					4.0		Oil Shale - low to medium grade,
866					7.9		brown
867					20.9		
868			.40		10.3		
869			.95		12.9		869.60-.80 Sandstone layer
870		45°	.73		10.1		oil saturated
871	+100	45°			13.8		871.80-872.25 Sandstone layer
872					17.6		oil saturated
873					12.3		Oil Shale - low grade,
874		90°			9.9		light brown
875			.18.44.70		9.6		875.00-.18 Sandstone layer
876					7.6		oil saturated
877					8.8		
878			.07		12.5		
879			.40		18.0		879.40-.85 Sandstone layer
880		45°	.82		11.8		oil saturated
881	+90				10.4		Oil Shale - low grade,
882			.61		10.0		light brown
883					9.6		
884					12.6		
885			.00		10.7		
886			.50		11.6		
887			.00		13.8		
888			.88		9.4		888.46-.88 Sandstone layer
889					12.5		oil saturated
890					12.5		

Depth	FRX	PP	0	Gal/50 Ton	Lith	Rock Description
891	+80			9.7		891.89-.95 Sandstone lavers
892		.10.50.90		9.3		892.10-.20 Oil saturated
893				15.9		Oil Shale - low to medium grade,
894				10.9		light brown
895				12.1		
896				8.4		896.38-.53 Sandstone layer
897		.65		6.4		oil saturated
898				6.1		Oil Shale - low to medium grade,
899				10.8		light brown
900				15.0		
901	+70			11.2		
902		.44		9.1		
903				9.5		
904				11.2		
905		.50		16.6		905.65-907.90 Upper Wavy Bed
906				5.5		Sandstone laver with interbedded
907				5.3		shales, buff to medium brown,
908				10.8		contorted bedding
909		.30.76		11.3		
910				12.4		
911	+60			16.6		
912				15.4		
913		.70		20.3		
914		.21.48		11.4		
915				9.1		Oil Shale - low to medium
916				6.8		grade, brown to dark brown,
917		.05		9.0		thinly laminated
918				13.4		
919				10.5		
920				5.9		
921	+50			6.9		
922				8.7		
923				5.3		
924				14.8		
925				13.8		
926				9.1		
927				10.5		
928		.16		26.3		Oil Shale - high grade,
929		.29		35.6		dark brown to black
930				12.7		Oil Shale - medium grade, brown
931	+40			12.9		
932				13.6		
933				14.8		
934		.58		25.0		Oil Shale - high grade,
935				25.8		dark brown
936				14.0		Oil Shale - low to medium grade,
937	45°	.23		17.4		light brown to brown, banded
938				31.3		
939				3.3		
940	45°	.71		8.1		

DEPTH CORRELATION LOG				Gal/	50 Ton		Lith		Rock Description
Depth	±MM	FRX	PP	0					
941	+30		.72			2.8			Marlstone - light gray, hard
942			.71.93			5.2			942-945 Sandy - siltstone
943			.28			5.2			zone with vugs filled with
944			.32.65.95			5.9			nahcolite
945			.29.83			4.4			
946			.41			2.7			Marlstone - light gray, hard
947						1.7			
948						2.0			
949						4.3			Bottom 'A' Groove
950						13.2			Oil Shale - medium grade, brown
951	+20					16.4			
952			.41			27.2			
953			.86			25.2			
954						12.9			
955			.17.58			11.7			
956			.85			19.7			956.85-957.25 Sandstone layer
957			.25			31.1			oil saturated
958			.30			27.8			Oil Shale - high grade,
959						27.2			dark brown to black
960						43.2			
961	+10		.33			38.6			
962						22.7			Oil Shale - low to medium grade,
963						18.6			buff to dark brown, banded
964						12.5			
965			.00			11.6			
966						21.1			
967						16.2			
968			.69			9.6			
969						13.0			
970			.44			10.6			
971	0		.53			14.0			971.90-972.40 Mahogany Marker
972			.66			10.3			Sandstone layer, oil saturated
973						9.3			Oil Shale - low grade,
974						10.7			light brown
975			.00			13.1			
976			.27.87			12.9			
977			.14.84.92			38.5			
978						45.8			'Mahogany Zone'
979						24.7			
980						22.2			Oil Shale - high grade
981	-10					23.1			dark brown to black
982						15.7			
983						17.0			
984						25.7			
985						38.8			
986						37.0			
987			.19.29.50			59.5			
988			.01.59.96			41.9			
989			.27.40.52			50.9			
990			.00			24.9			

Depth	±MM	FRX	PP	0	Gal/ 50 Ton	Lith	Rock Description
991	-20				24.5		
992					46.9		
993					23.5		Oil Shale - medium to high grade,
994					15.0		brown to black
995					21.8		
996			.10.66.73		42.5		Oil Shale - high grade, dark brown
997			.36.55.72		36.1		
998			.00		48.4		
999					20.3		
1000					29.1		
1001	-30		.65		25.9		
1002			.90		14.6		
1003					15.4		Oil Shale - medium grade, brown,
1004					24.6		thinly laminated
1005					40.9		
1006			.92		16.3		
1007					10.2		
1008					10.9		
1009			.30		10.8		
1010					18.1		
1011	-40				34.8		Oil Shale - high grade, dark brown
1012					31.6		
1013					27.4		
1014					22.8		
1015			.84		23.5		
1016					36.8		
1017					20.4		
1018					19.0		
1019			.28		13.6		
1020					10.3		
1021	-50				12.3		
1022			.36		22.5		
1023					16.5		
1024			.78.85		11.0		
1025			.15.36.91		9.8		Oil Shale - low grade,
1026			.66.98		3.6		light brown to brown
1027			.29.91		5.4		
1028			.78		13.8		
1029			.77		12.9		
1030		I 90	.10.31		7.7		1030.25-.60 Sandstone layer
1031	-60		.85		12.8		oil saturated
1032			.12		7.2		
1033			.59		9.8		
1034					29.1		Oil Shale - high grade:
1035					9.8		dark brown
1036			.39		29.8		Oil Shale - high grade,
1037			.13		21.9		dark brown
1038			.84		5.4		Oil Shale - low grade,
1039			.40		3.2		light brown
1040			.20.60		3.0		

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Depth	±MM	FRX	PP	Gal/	50 Ton	Lith	Rock Description
1041	-70				3.5		
1042			.47		12.3		
1043			.40		26.9		1043.40-1044.77 Sandstone layer
1044					17.0		oil saturated
1045			.23		11.9		
1046					6.7		Top 'B' Groove
1047					5.5		
1048			.22		3.8		Oil Shale - low grade
1049			.41		5.6		light brown to brown,
1050					5.1		thinly laminated
1051	-80				4.4		
1052			.94		7.6		
1053					3.0		
1054			.95		8.5		
1055					7.5		
1056					4.2		
1057					2.7		Marlstone - light gray, hard
1058			.71		6.0		
1059			.40		6.5		
1060					6.7		
1061	-90				6.9		Oil Shale - low grade, buff
1062			.87		7.7		to brown
1063			.00		8.2		
1064			.62.86		8.2		
1065					6.9		
1066					6.5		
1067					6.4		
1068			.10		3.7		
1069					6.0		
1070		90°			7.6		
1071	-100		.10.52.61		8.3		
1072					3.2		
1073					3.8		
1074					3.2		
1075			.90		4.3		
1076					3.6		
1077		90°			3.3		
1078					3.9		
1079					3.9		
1080			.86		5.0		
1081	-110				3.1		
1082					1.8		Marlstone - light gray, hard
1083			.40.55.82		4.6		Oil Shale - low grade,
1084			.17.48		6.4		light brown
1085			.83		5.5		
1086			.25		2.0		Marlstone - light gray, hard
1087					3.9		Oil Shale - low grade,
1088					11.4		light brown
1089					45.0		Oil Shale - high grade, black
1090	-120		.15		8.6		Oil Shale - low grade, light brown