

YNTANA Drill Hole

SYN-3A

Collar Elevation

5366

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of

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Location 414 FSL, 807 FWL, SEC 15, T9S, R24E

UINTAH CO, UTAH

Total Depth

2121

Drilled

2040-2070

Logged By

VND/ORB

Recovery				Core Run		Depth	Yield		Spent	X = Brazil test □ = Compression test Description
RQD		Total		Ft	Min		g/t		Shale	
%	Ft	%	Ft				Oil	Water	%	
						2040				
						1	50.8	1.4	76.5	
						2	34.9	1.4	83.3	Brown thinly lam. oil shale Tuff bed to 70mm @ 2041.2 Beds @ 85-90 CA
						3	22.2	1.7	88.8	
						4	18.8	1.7	90.4	
						5	22.8	1.7	88.4	
						6	41.8	1.2	80.7	
						7	48.6	1.4	77.0	
						8	19.9	2.0	89.0	
						9	16.5	1.7	91.1	
						2050	17.3	1.8	90.8	
						1	20.2	2.2	89.5	Bedding @ 80° CA Tuff blob to 6mm @ 2053 Contorted bedding to 60° CA max. 10mm @ 2054.1 Tuff bed to 10mm @ 2054.2
						2	20.8	1.9	89.4	
						3	40.3	1.7	80.9	
						4	40.1	1.0	81.7	
						5	45.2	1.2	78.2	
						6	44.0	1.2	79.2	
						7	20.6	0.7	89.2	Beds 85° CA Tuff bed to 15mm @ 2059.1
						8	21.7	0.7	89.6	
						9	26.8	1.0	87.9	
99	19.8	100	20.0	200	70	2060	43.4	1.4	79.8	End core run #1 @ 2060.0
						1	18.1	1.4	91.0	Brown thinly laminated oil shale Tuff blebs to 10mm @ 2062.4 Tuff bed to 6mm @ 2065.5 blob to 20mm @ 2067.7 bed to 8mm @ 2066.0 bed to 4mm @ 2066.4
						2	20.7	1.2	90.2	
						3	17.0	0.7	92.0	
						4	16.6	1.0	92.2	
						5	29.0	1.0	86.3	
						6	39.1	1.4	81.4	
						7	22.5	1.9	88.6	
						8	15.1	1.2	92.2	
						9	11.2	0.1	94.6	
						2070	14.2	0.7	93.1	

MONTANA Drill Hole

SYN-3A

Collar Elevation 5366

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Location

414 FSL, 807 FWL, Sec 15, T9S, R24E

Total Depth 2121

MONTANA CO. UTAH

Drilled 2070-2100

Logged By VDD/crb

Recovery				Core Run		Depth	Yield		Spent Shale	Description	
RQD		Total		g/t							
%	Ft	%	Ft	Ft	Min		Oil	Water	%		
94	12.8	99	12.4	20.0	90	2070					Brown thinly laminated oil shale Bedding @ 90° CA 2075.7 nahcolite 25% 25% oil shale - 2074.4 and 2074.5 core on Run 2 - 2074.4 nahcolite Total nahcolite 1.0 ft Tuff blobs to 12 mm @ 2076.1 4 mm @ 2077.5 Core 2074.4-2080.0 dropped out, picked up on Run 3
						1	14.2	0.2	93.7		
						2	18.8	0.5	91.7		
						3	30.3	0.8	86.5		
						4	29.5	3.4	83.0		
						5	30.9	4.1	81.3		
						6	27.1	0.7	87.3		
						7	24.0	1.0	88.6		
						8	34.2	1.1	84.3		
						9	34.4	1.0	84.4		
91	7.2	97	7.7	7.9	90	2080	32.6	1.0	85.3	End Run #2 @ 2080	
						1	23.1	1.0	89.3	Tuff blobs to 4mm @ 2082.0 End Run 3 2087.7 Bit plugged and string broke at 840 ft depth Tuff bed to 15 mm @ 2087.0 Fishing successful @ 12-9-80 blob to 10mm @ 2087.5 bed to 30mm @ 2087.3 blobs to 10mm @ 2091.0 bed to 4mm @ 2092.0 bed to 10mm @ 2092.8 Beds @ 85-90 CA Tuff bed to 10mm @ 2094.0 bed to 700 mm @ 2094.6 bed to 25mm @ 2096.8 blob to 25mm @ 2097.3 blob to 15mm @ 2097.7 bed to 7mm @ 2097.0	
						2	21.6	1.4	89.5		
						3	15.1	1.0	92.6		
						4	13.3	0.7	93.2		
						5	12.7	0.6	93.3		
						6	16.5	1.1	92.0		
						7	25.6	1.4	87.6		
						8	13.1	2.6	92.4		
						9	13.0	1.8	93.2		
						2090	8.6	2.2	94.9		LINTY Tuff
						1	4.0	1.9	97.0		
						2	6.7	1.8	96.1		
						3	13.1	1.9	93.0		
						4	18.4	1.7	91.0		
						5	3.2	5.9	95.5		
						6	5.5	2.4	96.0		
						7	12.2	1.2	93.6		
						8	35.1	1.4	82.9		
						9	17.1	1.2	91.4		
						2100	11.1	0.5	94.7		

rock mech sample is tuff

LINTY Tuff

Uinfah Co, UT

Logged By VDD/ERB

Recovery				Core Run		Depth	Yield		Spent	Description	
RQD		Total		Ft	Min		g/t		Shale		
%	Ft	%	Ft				Oil	Water	%		
						2100					
						1	10.2	0.5	93.0	Brown thinly laminated (O.) shale Tuff blebs to 3mm @ 2104.1 5mm @ 2104.7 2mm @ 2105.2 7mm @ 2105.3 15mm @ 2105.7 10mm @ 2108.6	
						2	8.7	0.5	95.5		
						3	16.8	1.2	91.9		
						4	34.8	1.6	83.9		
						5	37.1	1.7	82.7		
						6	11.5	1.2	93.9		
94	19.0	100	20.4	20.2	80	7	10.8	1.2	94.2	2107	reamed
						8	5.6	1.0	96.7	unreamed NX hole (drive platform broke)	
						9	3.0	1.6	97.4	End Run #4 @ 2108.1	
						2110	3.9	1.7	97.2	Vert. frac. 2109.1-2109.5 Horiz bedding frac @ 2109.1 filled w. calc. to	
						1	6.3	1.2	96.3	(CURLY 2112.4-2113.6)	
						2	11.7	1.4	93.9	Tuff blebs to 8mm @ 2111.6	
						3	27.3	3.8	86.0	Red to 5mm @ 2115.1	
						4	15.1	5.9	90.7	to 15mm @ 2115.7	
						5	17.1	1.4	91.2	to 5mm @ 2116.7	
						6	19.7	1.8	90.1	to 30mm @ 2116.9	
						7	12.8	0.8	93.1	to 10mm @ 2117.8	
						8	9.5	1.4	94.9	to 3mm @ 2119.2	
						9	7.7	1.2	95.7	to 6mm @ 2119.8	
						2120	8.8	1.7	94.9	Vert. frac. 2118.7-2119.0 healed	
99	12.6	100	12.7	12.7	50		3.4	1.0	97.6	End Run #5 @ 2120.8 TD	