

Core Hole RecordATLANTIC, SUICIDE CANYON NO. 1

Sec. 36, T. 12 S., R. 23 E. - Approximately 1400' FWL & 2200' FSL
 Eastern Uinta Basin Oil Shale Area I
 Three Mile Canyon Tar Sand Area
 Uintah County, Utah

Elevation: 6362'

Spud Date: 4-13-65

- 4-13-65: Spudded (a.m.).
 Set 20' conductor pipe.
 Drilled to 67' on daylight tour.
 Started coring @ 67' (faster than drilling).
 Cored 67'-116' on night tour. Full rec.
- 4-14-65: Day - Cored 116-156'. Full rec.
 Slow - trouble w/swivel.
 Night - Cored 156-251'.
 Note: Barrel jammed @ 211'; core in loose chips from
 209'. Rec 14'; otherwise full rec.
- 4-15-65: (Depth corr. @ 251' to 250' from measurement @ 265')
 Day - Cored 250-305'. Full rec.
 Night - Cored 305-365'. Full rec.
- 4-16-65: Day - Cored 365-405'. Full rec.
 Shut down @ 4:00 p.m. until after Easter.

Core Description:

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| 67 | -104' | Sh: gy-grn, becoming brn in bottom. |
| 104 | -112 | Sh: brn, calc, firm. |
| 112 | -120 | As above. |
| 120 | -128 | As above, sdy mic, some oil @ 128' in 1-1/2" band. |
| 120 | -136 | Sh: aa, silty stk @ 134.75'. |
| 136 | -138 | Sh: aa. |
| 138 | -142 | Sh: m-dk brn lam oil sh, better grade from 140-142'. |

Core Description (continued):

142	-143'	Sh: w/6" ss/ste in middle of interval.
143	-146	Sh: grn-brn.
146	-151	Sh: grn-brn & brn, intbd w/irreg beds of ste, sdy.
152	-156	Sh: m-dk brn w/ste and ss, dk brn from 153' w/ste 2"-3".
156	-160	Sh.
211.5	-217	Sh: dns, dk brn, oil sh moderate content, calc, varved.
217	-220	Sh: dk brn w/xls of evap? & calcite.
220	-252	Sh: m-dk gy-brn, varved pronounced, becomes darker brn at 222', becomes m-dk gy at 240-252'.
250	-263	Sh: m gy-brn, dns, calc, varved, becomes sli darker toward bottom w/9" thick bed dk brn @ 257.5-258.25'.
263	-265	Oil sh: moderate content, dk brn.
265	-267	As above w/more gy.
267	-269	As 263-265'.
269	-276	Becomes more gy.
276	-279	Oil sh: m-dk brn.
279	-284	Oil sh: dk brn, sli mahogany color.
284	-285	Sh: dk gy.
285	-286	Sh: dk gy.
286	-287	Oil sh: v dk brn, good mahogany color, mica.
287	-298	Oil sh: dk brn, lt mahogany color, mica.
298	-305	Sh: dk gy, becoming more brn in lower 1', mica.
305	-327	Oil sh: dk brn, mica.
327	-328	Oil sh: v dk brn-gy.

Assay Starts @ 300'

Core Description (continued):

328	-334'	Oil sh: m-dk brn, becoming more gy in lower 1'.
334	-336	Sh: m gy, mic.
336	-345	Sh: m brn to gy-brn, mic, poor oil sh.
345	-350	Sh: m-dk brn-gy.
350	-351	Oil sh: v dk brn-blk. .
351	-360	Oil sh: m-dk gy to brn, leaf remains.
360	-365	Oil sh: v dk brn to blk.
365	-369	Sh: m gy, varved, dolie, some brn varves.
369	-385	Oil sh: dk gy, dolie, top 3" v dk brn-blk, becomes dk brn-gy at 381', bldg oil at 379'.
385	-393.5	Oil sh: dk brn.
393.5	-395.5	Oil sh: m brn.
395.5	-396	Oil sh: v dk brn.
396	-398	Sd: m brn, calc.
398	-405	Oil sh: dk brn, becomes more gy at 404'.
405	-408	Oil sh: m-dk gy-brn, vf mica, varve.
408	-411	Oil sh: dk brn, varve.
411	-414	Oil sh: v dk brn, varved.
414	-416	Oil sh: m brn, varved.
416	-418	Oil sh: dk brn, varved.
418	-420	Oil sh: lt brn & dk brn varves.
420	-421	Oil sh: m brn-gy, v mic.
421	-426	Oil sh: lt & m brn varves, v calc.
426	-434	Oil sh: lt to m gy varves, v calc, pyrite?

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Core Description (continued):

434	-435'	Oil sh: dk brn, platy.
435	-439	Oil sh: m brn, varve, v calc, mic, more lt brn, v calc varves from 438-439'.
439	-445	Oil sh: v dk brn, lt brn varves, platy, almost appears turned in places.
445	-451	Oil sh: m brn, poor varves.
451	-456	Sh: m brn-gy, varve, v calc, 4" sdy zone 453.5'.
456	-470	Oil sh: dk-v dk brn, well varved, mahogany color.
470	-475	Oil sh: m-dk brn, silty, calc, w/tan sh incl. at 473.5-475'.
475	-482	Oil sh: m gy to dk brn, 1" sdy zones 477.5-481'.
482	-483	Oil sh: m brn zone.
483	-486	Oil sh: v dk-dk brn, mahogany color.
486	-500	Oil sh: varies from m brn-dk brn in layers, none looks especially good.
Base	288y - 500'	
	500 -503	Sh: lt brn-lt gy, calc, mic.
	503 -507.5	As above.
	507.5-509	Oil sh: dk brn.
	509 -515	Sh: lt brn, m gy, banded, mic.
	515 -516	Ls, m brn, sdy, contort. bed.
	516 -520.5	Sh: m brn-m gy, v calc, pyrite, sli varving.
	520.5-523	Sh: lt-m gy, calc, sli varve, w/intbd 2"-4" beds, ost. Ls: vf, asphaltic, sdy. 60% sh, 40% ls.
	523 -533.5	Rec 12.5'. Intbd thin ls & sh, v calc, lt-m gy, lt brn, much contort. bed. 85% ls, banded coloration, thin 2"-3" bl-gy ls beds 529, 530, 534'.
	533.5-540.5	As above.
	540.5-542	Ls: lt brn, ost.

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Core Description (continued):

542 -543' Oil sh: lt brn-dk brn, varve.
543 -544.5 Ls: tan, algal heads.
544.5-545.5 Oil sh: dk brn.
545.5-546.5 Ls: dk gy, algal, asphalt sat, medium-high sat.
546.5-547 Ls: ool., lt gy.
547 -557.5 Ss: blk, f-m grd, sub ang, calc, m sat, intbd w/ste, lt gy, mic-x, calc, mic, barren, about 1' layers of each.
557.5-563 Ss: m brn-m gy, vf-f carbonate, stkd p-m asphalt sat becomes 50% barren at 562'.
563 -566 Ss: dk brn, f-m, sub ang, w/intbd barren layers up to 6" and lt gy ste inclusions.
566 -567 Ste: barren, lt gy, calc, mic.
567 -569 Ss: m brn, vf-f carbonate, p sat.
569 -575.5 Ste: lt gy, calc, mic, barren.

<u>Core Tops:</u>	Parachute Creek	142'?	(+6220')
	Mahogany Zone	432'	(+5930')
	Base Mahogany Zone	495'	(+5867')
	Douglas Creek	547'	(+5815')

HW&KEW:rlh