

# GEOTEK CORING Inc

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## CORING RUN REPORT GENESIS OF METHANE IN THE GULF OF MEXICO (GoM^2)

<b>DATE:</b> May 20, 2017		<b>CORE:</b> 12FB	
<b>TOOL ASSEMBLY TEAM:</b> VIRTUE RILEY			
<b>BOTTOM CORE DEPTH (BELOW RIG FLOOR):</b> 8,185 ft		<b>BOTTOM HOLE PRESSURE:</b> 3,629 psi	
<b>PRESSURE SECTION ASSEMBLY NUMBER:</b> 3		<b>AUTOCLAVE ASSEMBLY NUMBER:</b> 1	
<b>UPPER ASSEMBLY NUMBER:</b> A		<b>CATCHER KIT:</b> Basket/Rabbit   5" Extension   5" Extension	
<b>DST SERIAL NUMBERS:</b>	<b>LINER LENGTH ADJUSTER:</b> 8281	<b>RABBIT:</b>	8273
<b>NOTES:</b>			

### TOOL ASSEMBLY

BUILD CHECKLIST		AUTOCLAVE PRESSURE TEST	
PAWL POST HEIGHT (0.095-0.105")	COMPLETE	To test, pressurize assembled autoclave to 3000 psi (+/- 100 psi). Record this <i>INITIAL</i> pressure below. Wait five minutes to allow for acclimitization. During this time inspect for gross leakage of water or significant pressure drop. If leaks or pressure loss are observed, rectify and retest. At five	
SAMPLE VALVE CLOSED AND PORT PLUGGED	COMPLETE		
LINER/IT PLUG LENGTH (156.75")	COMPLETE		
SHUTOFF VALVE OPEN	COMPLETE		
SUPPLY VALVE OPEN	COMPLETE		
		TEST 1	
SET PRESSURE (CONFIRM WITH 3 TESTS):	3,253 psi	<b>DATE:</b> May 20, 2017	<b>INITIAL:</b> 3,400 psi
RESERVOIR PRESSURE:	6,567 psi	<b>START TIME:</b> 14:50	<b>START:</b> 3,090 psi
FILL VALVE CLOSED/PORT PLUGGED	COMPLETE		<b>END:</b> 3,386 psi
SET VALVE CLOSED/PORT PLUGGED	COMPLETE	TEST 2 (IF REQUIRED)	
DRAIN VALVE CLOSED/PORT PLUGGED	COMPLETE	<b>DATE:</b>	<b>INITIAL:</b>
TRANSDUCER BOX SHUNT SET	COMPLETE	<b>START TIME:</b>	<b>START:</b>
TRANSDUCER BOX SHUNT VALUE	7043		<b>END:</b>
<b>TOOL READY FOR RIG FLOOR</b>	<b>DATE:</b> May 20, 2017	<b>TOOL SENT TO RIG FLOOR</b>	<b>DATE:</b> May 20, 2017
	<b>TIME:</b> 14:05		<b>TIME:</b> 18:05
<b>NOTES:</b>			

### CORING RUN

<b>DATE:</b> May 20, 2017		<b>TOOL DEPLOYMENT TIME:</b> 18:34		
<b>START DEPTH:</b> 8,176 ft	<b>END DEPTH:</b> 8,185 ft	<b>ANTICIPATED RECOVERY:</b> 9.00 ft		
<b>CORING START TIME:</b> 20:14		<b>CORING END TIME:</b> 20:39		
FLOW RATES	<b>RUNNING IN:</b> 1.5 bpm	DRILL PARAMETERS		WIRELINE PULLOUT
	<b>CORING:</b> 1.5, 3, 2 bpm	<b>W.O.B.:</b> 5 tons	<b>R.P.M.:</b> 60	<b>WEIGHT (MAX):</b> 6,000 lbs
	<b>PULLING:</b> 0 spm		<b>R.O.P.:</b> 21.6 ft/hr	<b>SPEED:</b> 150.0 ft/min
	<b>P.O.O.H.:</b> 1.5 bpm	<b>COLD SHUCK:</b>	<b>TIME IN:</b> N/A	<b>TIME OUT:</b> N/A
<b>TIME PULLED ABOVE MUDLINE:</b> 21:32		<b>TIME ON DECK:</b> 21:45		
<b>TOTAL TIME IN HOLE:</b> 3:11:00		<b>TOTAL TIME CORING:</b> 0:25:00		
<b>NOTES:</b> Observed a foot of fill on top of core - cut the run short by a foot and still filled the liner completely.				

### CORE TRANSFER & RECOVERY

<b>RECEIVED FROM RIG FLOOR</b>	<b>DATE:</b> May 20, 2017	<b>TRANSDUCER PRESSURE:</b>	0 psi
	<b>TIME:</b> 21:52		
<b>SHUTOFF VALVE CLOSED</b>	COMPLETE	<b>PRESSURE DRAINED; DRAIN VALVE AND PORT CLOSED</b> COMPLETE	
<b>PLACED IN ICE BATH</b>	<b>DATE:</b> NA	<b>TRANSFERRED TO PCATS</b>	<b>DATE:</b> NA
	<b>TIME:</b> NA		<b>TIME:</b> NA
<b>SUCCESSFUL PRESSURIZED TRANSFER?</b>	NO	<b>TOTAL CORE RECOVERY:</b>	5.7 ft
		<b>RECOVERY PERCENTAGE:</b>	63.78%
<b>NOTES:</b> FAILED RUN. LINER COMPLETELY FULL WITH MUD BELOW BALL AND IN BALL FOLLOWER			

### POST-CORING TOOL ANALYSIS & REBUILD

OBSERVATIONS	NOTES	PRESSURE SECTION	
BALL VALVE OPEN		<b>RESERVOIR PRESSURE:</b>	1,630 psi
LINER INTACT		<b>WATER ABOVE PISTON?</b>	NO
PAWLS INTACT		<b>WATER IN REGULATOR?</b>	NO
PAWL SPRING INTACT		<b>REBUILD REGULATOR?</b>	NO
<b>NOTES:</b> SLEEVE VALVE FIRED			