City of Boynton Beach ASR-2

Rotary Drilling Log: City of Boynton Beach ASR-2



Sheet	of		Logged b	by GRB	Date	2/24/2006
Lithologic Log		805 feet to	855 feet	BLS		

Scale	Run	Graphic	Depth	Lithological Description	Comments
			005		
			805	Same as above.	
1			810	Same as above.	
2				CLAY, as above, with an increasing proportion of SANDSTONE, CHERT and SHELL FRAGMENTS.	- 13 - 15 - 15 - 15 - 15 - 15 - 15 - 15
3				LIMESTONE, white (N9) to yellowish gray (5Y 8/1), arenaceous, containing abundant phosphorite, shell fragments, and SANDSTONE, dark gray (N3), fine grained.	Circulation returns from reaming; compare to coring data. 50% of sample is cement chips.
4			825	Same as above.	Circulation returns from reaming; compare to coring data. 50% of sample is cement chips.
5				LIMESTONE, yellowish gray (5Y 8/1) to medium gray (N5), arenaceous, containing shell fragments, fish teeth, lithics, phosphorite, and chert, olive gray (5Y 4/1).	Circulation returns from reaming; compare to coring data. 25% of sample is cement chips.
6			835	Same as above.	Circulation returns from reaming; compare to coring data. 25% of sample is cement chips.
7				LIMESTONE, as above but predominantly yellowish gray (5Y 8/1) with coarser shell fragments. Contains abundant subrounded coarse phosphorite and lithic grains.	Circulation returns from reaming; compare to coring data.
8			845	Same as above.	Circulation returns from reaming; compare to coring data.
9			850	Same as above.	Circulation returns from reaming; compare to coring data.
	j		855		

City of Boynto Rotary Drilling Log:				CH2MHILL
Sheet	of	855	Logged by GRB feet to 905 feet BLS	Date 3/1/2006
Scale Run	Graphic De	epth	Lithological Description	Comments
			LIMESTONE, yellowish gray (5Y 8/1) to medium gray (N5), moderately well consolidated, containing abundant shell fragments and shark teeth, with some phosphorite grains (not as abundant as above).	Circulation returns from reaming; compare to coring data.
1		860	Same as above.	Circulation returns from reaming; compare to coring data.
2		865	Same as above.	Circulation returns from reaming; compare to coring data.
3			As above, better consolidated, with a greater proportion of white (N9) to yelllowish gray (5Y 8/1) LIMESTONE; contains little phosphorite.	Circulation returns from reaming; compare to coring data.
4		875	Same as above.	Circulation returns from reaming; compare to coring data.
5			LIMESTONE, pale yellowish gray (5Y 7/2) to light gray (N7), moderately consolidated, arenaceous, poorly sorted.	Circulation returns from reaming; compare to coring data.
6		885	Same as above.	Circulation returns from reaming; compare to coring data.
7		890	Same as above.	
8			As above, better consolidated, containing some very light gray (N8) LIMESTONE.	
9			Same as above.	
		905		l l

Rotary Drilling Log: City of Boynton Beach ASR-2

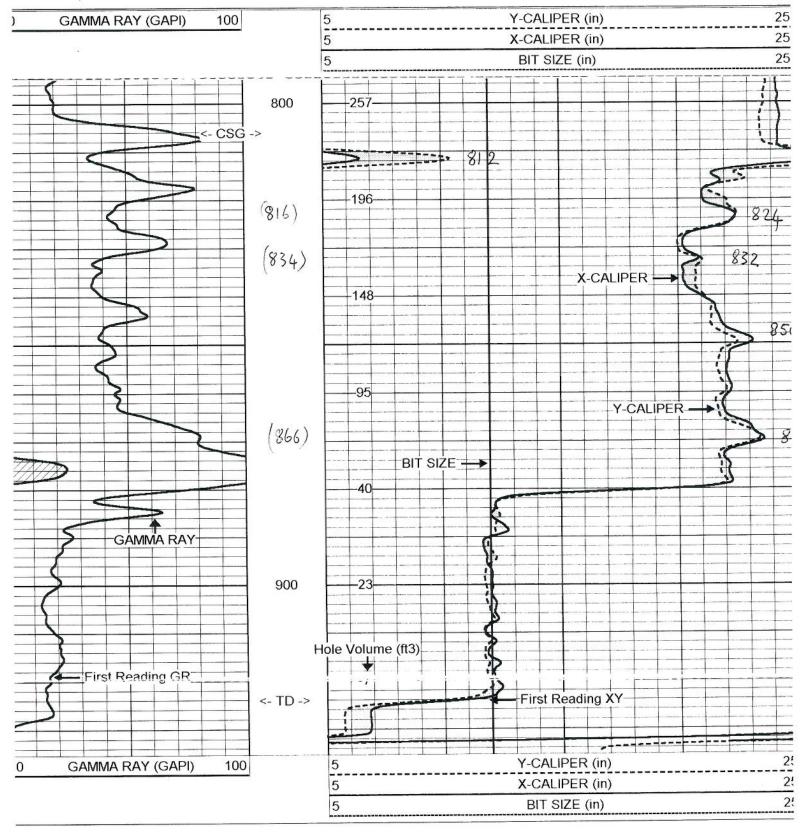


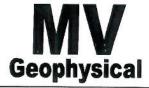
Sheet] of		Logged by GRB	Date 3/6/2006
Litholo	gic Log		905	feet to 955 feet BLS	
Scale	Run	Graphic	Depth	Lithological Description	Comments
			905		-
				Same as above.	
1	-			LIMESTONE, predominantly very light gray (N8), arenaceous, fine grained, moderately to well consolidated, contains some SHELL FRAGMENTS.	
2			915		-
	-			Same as above.	
3	-		920	As above, with proportionally more well consolidated hard LIMESTONE.	
4			924		-
	-			TOTAL DEPTH OF PILOT HOLE.	
5	-				
6					- 1
					_
7					
8				1	-
	-				
9]



Database File:
Dataset Pathname:
Presentation Format:
Dataset Creation:
Charted by:

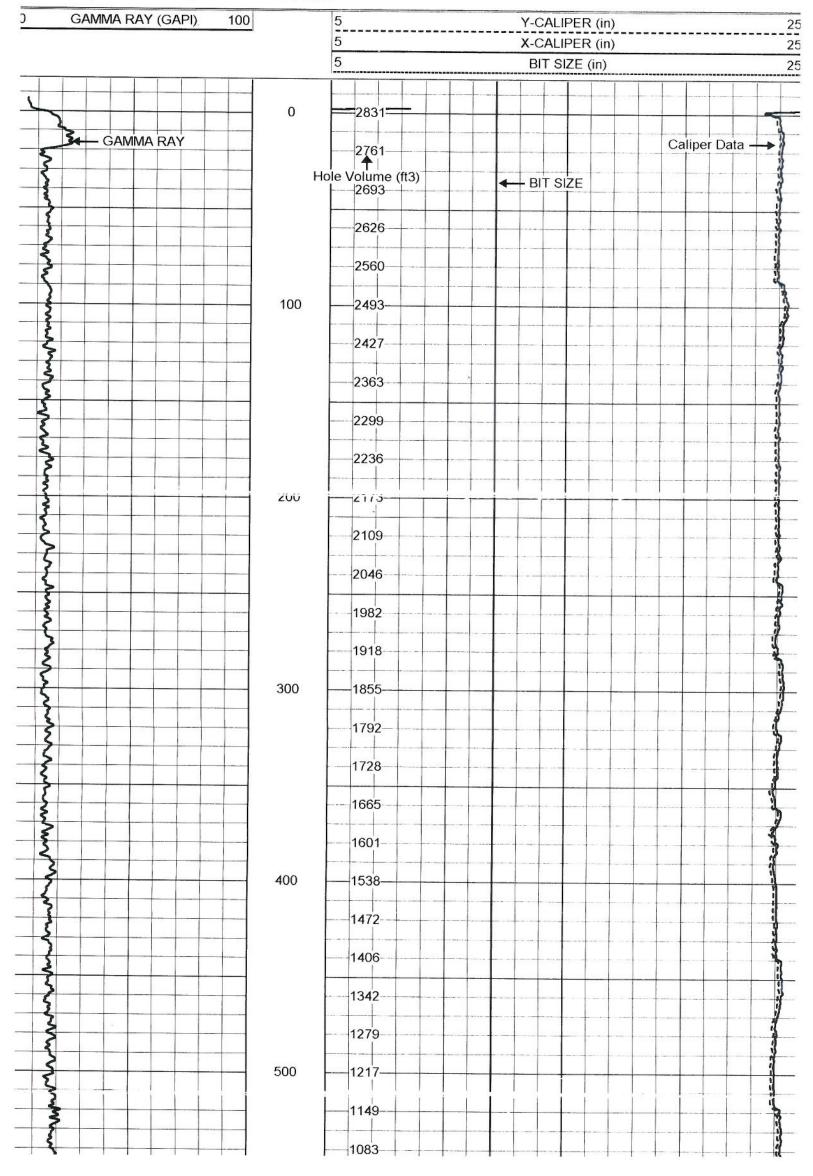
swsbbasr.db run9/MAIN xy525-5.prs Mon Mar 06 18:25:06 2006 Depth in Feet scaled 1:240

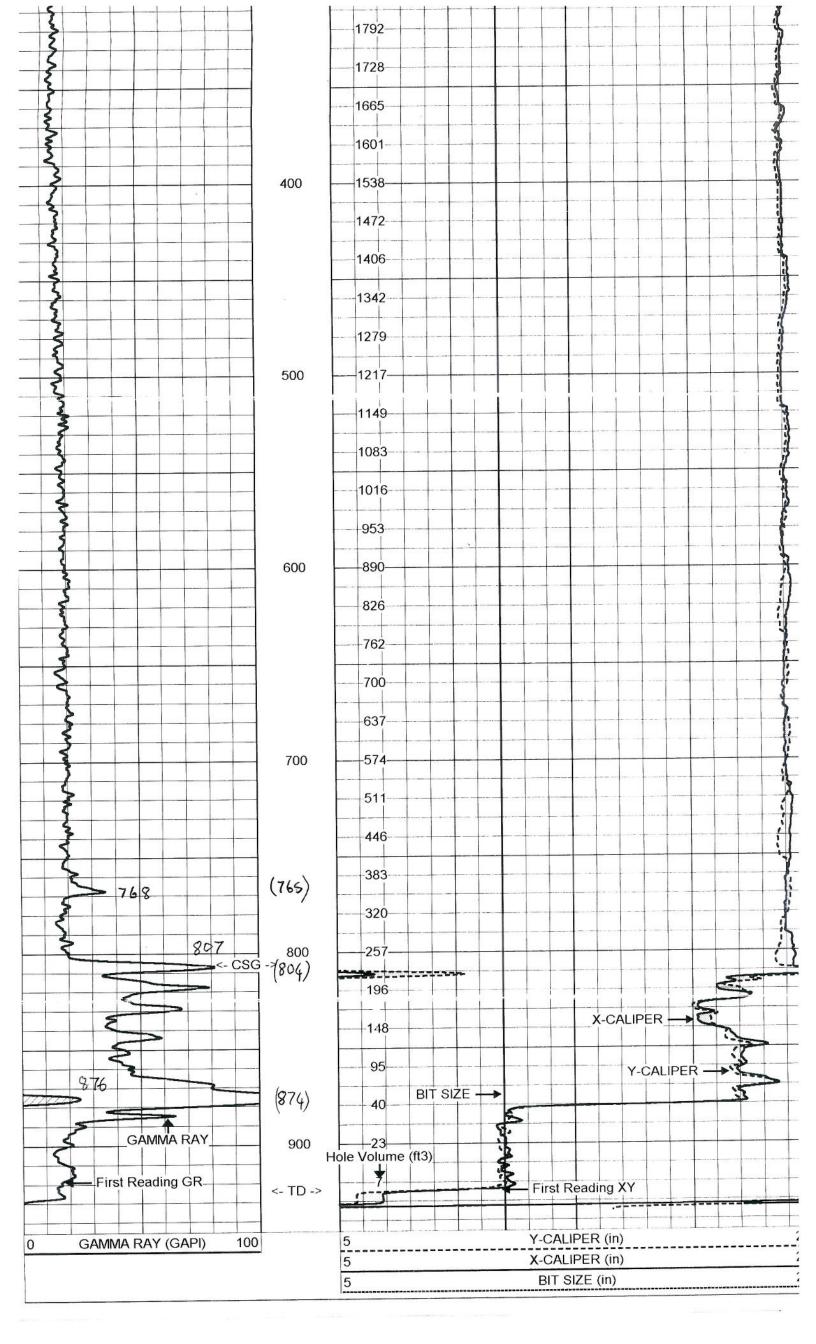


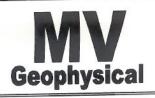


Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:

swsbbasr.db run9/MAIN xy525-5.prs Mon Mar 06 18:25:06 2006 Depth in Feet scaled 1:600

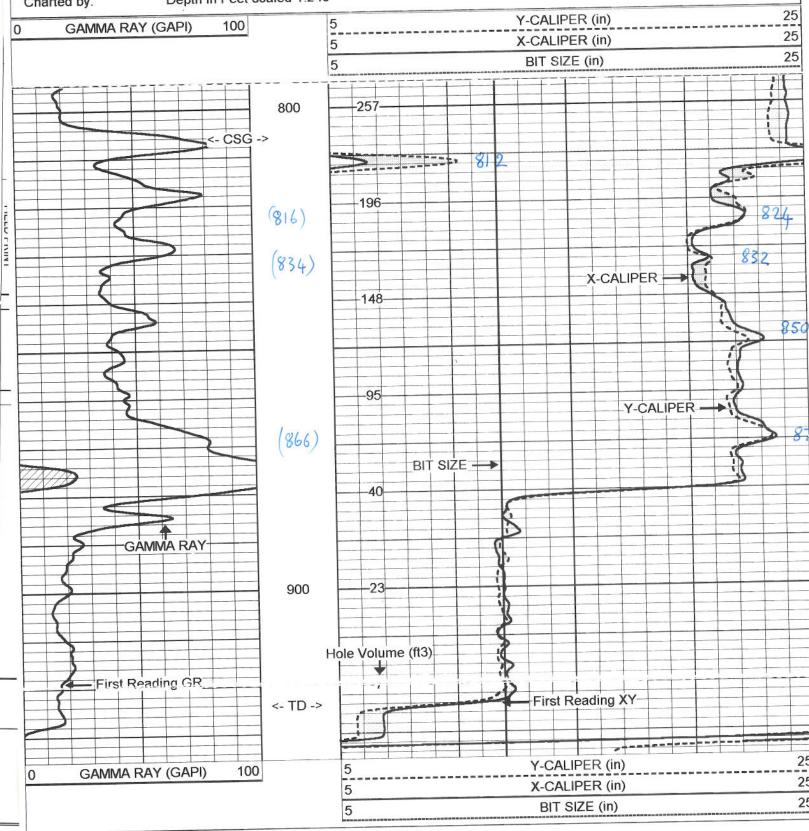


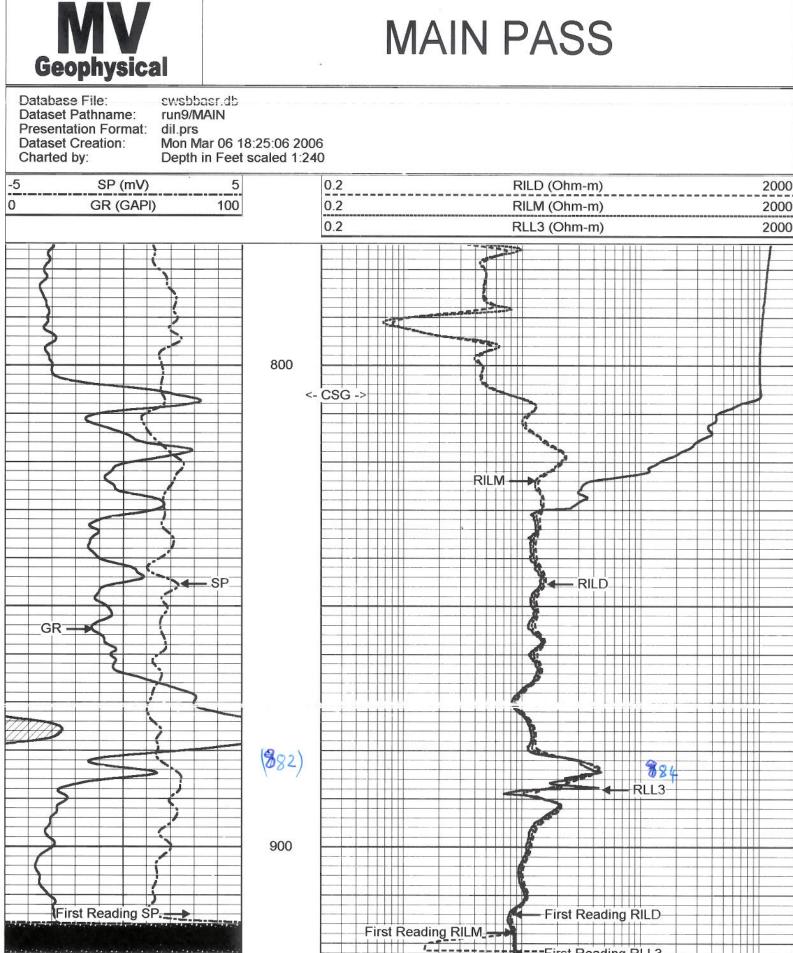




Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:

swsbbasr.db run9/MAIN xy525-5.prs Mon Mar 06 18:25:06 2006 Depth in Feet scaled 1:240





GR (GAPI)

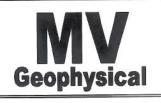
100

-5

0

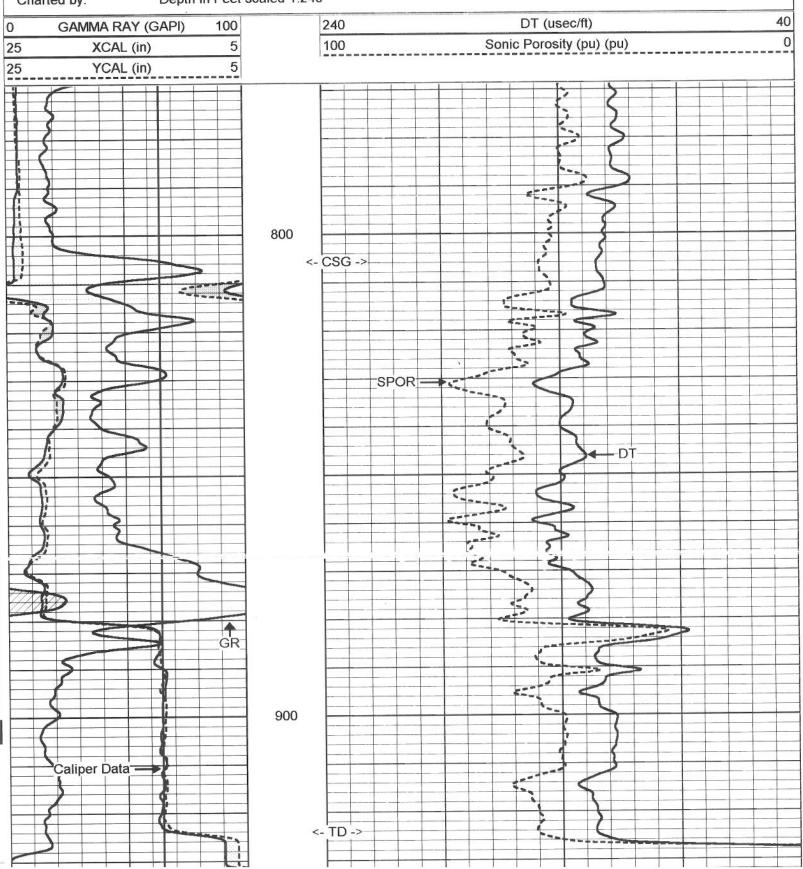
 O.2
 RILD (Ohm-m)
 2000

 0.2
 RILM (Ohm-m)
 2000



Database File: Dataset Pathname: Presentation Format: Dataset Creation: Charted by:

swsbbasr.db run9/MAIN dtxy525g.prs Mon Mar 06 18:25:06 2006 Depth in Feet scaled 1:240



		MIHILL				
CITY OF BOYNTON BE DATE: CONTRACTOR: DRILLER: OBSERVER:)6 Il Services Moon CH2M HILL		POTENTIAL LE	I (FT BELOW LAND SURFACE NGTH OF CORE (FT): CORING BARREL (IN): HOD/FLUID:): 818.3 TO 835.9 17.6 4 (id) 5.5 (od) Mud/Diamond bit rotary
CORE: PERCENT RECOVERY:	1	OF	4	DRILLING SPEE WEIGHT ON BA		250 4,000
CORE DEPTH	(BLS)* TO	RECOVERED (FT)	SAMPLE?	FRACTURES	D	ESCRIPTION
818.3	818.8	0.5		None	Cement Plug underlain by	repacked core debris and drilling mud.
818.8	819.2	0.4		None	arenaceous, grading from	t gray (N6) to light olive gray (5Y 6/1), poorly to well consolidated (lower), d abundant subrounded phosphorite
819.2	821.9	2.7		None	well consolidated, contains subrounded phosphorite ar	t gray (N6) to light olive gray (5Y 6/1), well dissemanated abundant nd detrital grains. tt olive gray (5Y 5/2), containing
821.9	823.4	1.5		None		phosphorite grains and subangular
* Intervals defined by lith	ologic change					GRB

CORE LOG SUN	IMARY					
CITY OF BOYNTON BE DATE: CONTRACTOR: DRILLER: OBSERVER:	ACH ASR-2 V 2/22/200 Southern We B. Schmidt G. BULMAN	06 Il Services		POTENTIAL LEN	I (FT BELOW LAND SURFACE NGTH OF CORE (FT): CORING BARREL (IN): IOD/FLUID:): 839 TO 85 18 4 (id) 5.5 (od) Mud/Diamond bit rotary
CORE: PERCENT RECOVERY:	2 56	OF	4	DRILLING SPEE WEIGHT ON BA		80 4,000
CORE DEPTH FROM	(BLS)* TO	RECOVERED (FT)	SAMPLE?	FRACTURES	D	ESCRIPTION
839 840.1	840.1 845.5	1.1 5.4		None	(N5), very poorly consolida sorted, containing phospor LIMESTONE, medium gray poorly to moderately conso	IOUS LIMESTONE, medium gray ted sediment, calcareous, poorly ite grains and clastic sediments. (N5) to light olive gray (5Y 6/1), vilidated, gradational with above well abundant well dissemenated rains.
845.5 847.8	847.8 847.9	2.3 0.1		None	(N5), very poorly consolida poorly sorted (silty to media grains and clastic sediment	IOUS LIMESTONE, light medium g ted sediment, calcareous cement, um grained), containing phosporite ts, discrete high permeability horizo yellow gray (5Y 8/1), biosparite, w
847.9	849	1.1		None	moderately well consolidate	phosphorite grains and some well

C	H2	MHILL				
CORE LOG SUM	MARY		-			
CITY OF BOYNTON BE DATE: CONTRACTOR: DRILLER: OBSERVER:	ACH ASR-2 V 2/24/200 Southern We B. Schmidt G. BULMAN/	06 ell Services		POTENTIAL LEN	(FT BELOW LAND SURFACE): IGTH OF CORE (FT): ORING BARREL (IN): OD/FLUID:	857 TO 876 19 4 (id) 5.5 (od) Mud/Diamond bit rotary
CORE: PERCENT RECOVERY:	3 6	OF	4	DRILLING SPEEI WEIGHT ON BAF		80 2,000
CORE DEPTH (FROM	(BLS)* TO	RECOVERED (FT)	SAMPLE?	FRACTURES	DE	SCRIPTION
857	858.2	1.2	Yes	No	3/2), calcareous, weakly cor	DUS LIMESTONE, olive gray (5Y nsolidated,containing subrounded, NE clasts, medium gray (N5).
* Intervals defined by lith	ologic change	·.				

CORE LOG SUM	MARY	MIHILL				
CITY OF BOYNTON BEACH ASR-2 WELL DATE: 3/2/2006 CONTRACTOR: Southern Well Services DRILLER: B. Schmidt OBSERVER: G. BULMAN/CH2M HILL				POTENTIAL LEN	(FT BELOW LAND SURFAC IGTH OF CORE (FT): ORING BARREL (IN): OD/FLUID:	E): 876.4 TO 891 14.6 4 (id) 5.5 (od) Mud/Diamond bit rotary
CORE: PERCENT RECOVERY:	4	OF 79	4	DRILLING SPEE WEIGHT ON BAI		42-72 1,000
CORE DEPTH FROM	(BLS)* TO	RECOVERED (FT)	SAMPLE?	FRACTURES		DESCRIPTION
876.4	878.6	2.2		None	fossiliferous, micritic, con horizontally bedded bival	ray (N8), well consolidated,hard, taining abundant well preserved ve shell casts, partially dissolved TE: core contamination from core barrel
878.6	880.3	1.7		None	LIMSTONE, pale yellowis gradational with above lite	sh gray (5Y 7/2), well consolidated, hard, hology, fewer shell casts.
880.3 880.7	880.7 881.25	0.4 0.55		None	consolidated, fine to coar	DNE, pale yellowish gray (5Y 7/2), poorly se calcareous grains; highly permeable. sh gray (5Y 7/2), well consolidated, edded.
881.25	881.5	0.25		None		DNE, pale yellowish gray (5Y 7/2), poorly se calcareous grains; highly permeable.
881.5	882.3	0.8		None		ray (N8), well consolidated, fossiliferous, preserved horizontally bedded bivalve lved.
882.3	887.1	4.8		None		N7), massively bedded, arenaceous, ated, a few identifiable dissolution
887.1	888	0.9		None		DNE, very light gray (N8), moderately fine grained. NOTE: core contamination Js.
* Intervals defined by lithe	ologic change.					