

Clinkenbeard

Core Hole 7

CORE ANALYSIS RESULTS FOR SHELL - DENVER PRODUCTION LABORATORY CP-1-5603

3-24-18E

CORE LABORATORIES, INC.

DIVISION COMPANY SHELL OIL COMPANY FIELD CARLYLE LEASE CLINKENBEARD

WELL NO. CORE HOLE #7 STATE KANSAS LOCATION-SEC IFORMATION

DATE 4/28/65 *CORING METHOD 2 CORE DIAMETER 2.1 CORING FLUID 1 JOB CODE

AUD-VIS WT WAT LOSS PH CHL FIL RES ELEV

C	O	D	DEPTH	SAMPLE NO.	LITH CODE	T	A	PERM MD	POROSIY	PERM %	SAT %	GAIN DENSITY GMS/CC	OIL %	SATURATION	WAT %	TOTAL %	% SOL 15% HCL	CHL GMS/LIB	CUT CLR	
1			865		1002															
1			867.4	K17289	2233	1		.1	7.8	12.3		2.682	36.3	38.6	74.9			19.1	3	1
1			868		1002															
1			870	K17290	2331	1		147.0	15.6	18.6		2.663	47.6	7.7	55.3			21.6	3	1
1			871	K17291	2330	1		485.8	22.1	20.9		2.653	51.3	11.0	62.3			11.4	3	3
1			872	K17292	2330	1		632.8	24.2	22.7		2.659	52.0	8.9	60.9			12.3	3	3
1			873		LOST															
2			878.5		LOST															
2			879	K17293	2330	1		520.3	21.5	21.3		2.656	49.0	10.6	59.6			9.9	3	3
2			880	K17294	2330	1		708.9	22.6	21.8		2.667	46.7	8.3	55.0			13.2	3	3
2			881	K17295	2330	1		631.1	21.6	20.0		2.652	40.9	8.3	49.2			12.9	3	3
2			882	K17296	2330	1		259.4	17.7	17.9		2.698	41.8	21.4	63.2			15.6	3	3
2			883	K17297	2333	1		15.9	16.8	15.6		3.019	31.5	37.2	68.7			13.7	3	3
2			884	K17298	2330	1		194.5	19.0	20.7		2.680	61.4	19.3	80.7			10.6	3	3
2			885	K17299	2330	1		96.2	14.5	16.7		2.651	46.6	12.5	59.1			13.7	3	3
2			886		LOST															
3			887	K17300	2333	1		544.6	26.0	26.0		2.666	40.6	20.2	60.8			7.8	3	3
3			888	K17301	2333	1		1765.1	29.4	29.2		2.733	41.6	30.1	71.7			7.8	3	3
3			889	K17302	2333	1		12.2	18.6	25.4		2.748	40.6	21.6	62.2			11.0	3	3
3			890		LOST															
4			903	K17303	2330	1		1056.3	25.2	21.8		2.657	43.9	21.8	65.7			10.9	3	3
4			904	K17304	2330	1		1359.3	25.2	25.1		2.645	54.4	12.4	66.8			9.4	3	3
4			905	K17305	2330	1		2256.4	29.3	28.2		2.647	48.3	17.8	66.1			8.2	3	3
4			906	K17306	2330	1		1458.6	25.8	24.2		2.644	55.8	23.8	79.6			11.4	3	3
4			907	K17307	2330	1		494.3	21.3	21.5		2.642	47.9	13.2	61.1			12.4	3	3
4			908	K17308	2330	1		969.0	23.5	23.8		2.648	33.8	26.1	59.9			5.9	3	3
4			909	K17309	2330	1		1083.7	23.6	23.0		2.652	43.8	16.1	59.9			6.9	3	3
4			910	K17310	2330	1		982.7	24.5	25.1		2.647	40.0	22.0	62.0			4.4	3	3

NI-NOT TESTED

REMARKS: OIL DENSITY 0.93

Boe Ave 457 18.1 63.8

* - LEGEND ON BACK

SIGNED J. G. EVERTSON, JR.

2' Deeper than E.L. Sh-89-92 Incl.

CORE LABORATORIES, INC.
CORE ANALYSIS RESULTS FOR SHELL - DENVER PRODUCTION LABORATORY CP-1-5603

DIVISION		COMPANY		SHELL OIL COMPANY FIELD		CARLYLE		LEASE		CI INKRENBARD					
WELL NO. CORE HOLE #7		STATE		KANSAS		LOCATION-SEC		FORMATION		FORMATION					
DATE	4/28/65	*CORING METHOD	?	CORE DIAMETER	21	CORING FLUID 1		JOB CODE		FIL RES	ELEV				
MUD-VIS		WT		WAT LOSS		PH		CHL		RES					
C	DEPTH	SAMPLE NO.	LIH CODE	T	A	PERM MD	POROSITY PERM %	SAT %	GRAIN DENSITY GMS/CC	OIL %	SATURATION WAT %	TOTAL %	% SOL 15% HCL	CHL GRMS/LTR	CUT CLR
4	911	K17311	2330	1		752.1	25.4	26.9	2.643	30.3	36.3	66.4		3.6	3
4	912	K17312	2331	1		1040.9	21.7	24.4	2.641	34.4	22.9	57.3		8.5	3
4	913	K17313	2331	1		393.3	22.1	25.9	2.660	44.6	19.4	64.0		8.0	3
4	914	K17314	2333	1		518.7	24.1	24.8	2.662	28.9	33.0	61.9		4.7	3
4	915	K17315	2333	1		674.3	23.7	27.6	2.652	23.7	33.3	57.0		1.8	3
4	916	K17316	2333	1		580.8	23.9	23.5	2.665	28.0	34.1	62.1		1.1	3
4	917	K17317	2333	1		518.7	25.2	26.6	2.650	24.4	42.8	67.2		1.4	3
4	918	K17318	2333	1		910.8	25.5	21.4	2.656	32.4	31.0	63.4		2.9	3
4	919	K17319	2333	1		708.9	25.3	26.4	2.646	16.7	56.3	73.0		8	3
4	920	K17320	2333	1		332.8	22.4	28.1	2.649	16.3	54.8	71.1		8	3
VERTICAL PERMS												1051			
2	880	K17294		5		648.3									
2	884	K17298		6		67.5									
3	888	K17301		6		0.8									
4	905	K17305		6		702.4									
4	909	K17309		6		39.1									

NT-NOT TESTED

REMARKS: OIL DENSITY 0.93

• LEGEND ON BACK

SIGNED J. G. EVERTSON, JR.

MAJOR ROCK TYPE

MATRIX

PORE STRUCTURE

SECONDARY MATERIAL

LITHOLOGY CODE

1 SHALE

0 CLEAN
2 SANDY
3 CALCAREOUS
4 DOLOMITIC

2 SANDSTONE

1 SILTSTONE
2 VERY FINE
3 FINE
4 FINE TO MEDIUM
5 MEDIUM
6 MEDIUM TO COARSE
7 COARSE
8 CONGLOMERATIC
9 QUARTZITIC

1 ROUNDED
2 ROUNDED TO SUB ROUNDED
3 SUB ROUNDED TO SUB ANGULAR
4 SUB ANGULAR
5 SUB ANGULAR TO ANGULAR
6 ANGULAR

0 CLEAN
1 SHALY
2-3 CALCAREOUS
4 DOLOMITIC
5 SILTY
6 CHERTY
7 SILICEOUS
8 FELDSPATHIC
9 CARBONAC

3 LIMESTONE

1 DENSE
2 DENSE TO CHALKY
3 DENSE TO SUCROSE
4 CHALKY
5 CHALKY TO SUCROSE
6 VERY FINELY SUCROSE
7 FINELY SUCROSE
8 MEDIUM SUCROSE
9 COARSELY SUCROSE, OOLITIC
0 OOLACASTIC

1 A
2 A/B
3 A/C
4 A/D
5 B
6 B/C
7 B/D
8 C
9 C/D
0 D

0 CLEAN
1 SHALY
2 SANDY
4 DOLOMITIC
5 FOSSIL
6 CHERTY
7 GILSONITIC
8 ANHYDRITIC
9 CALCAREOUS

4 DOLOMITE

1 CONVENTIONAL ANAL
2 LARGE CORE
3 VERTICAL PERM
4 POR & PERM ONLY
5 CLI CONVENTIONAL ANAL
6 CLI WHOLE CORE ANAL

1 CONVENTIONAL
2 DIAMOND
3 WIRE LINE CORE
4 SIDEWALL CORE
5 CABLE TOOL CORE
6 ELECTRO DRILL

1 WATER BASE MUD
2 OIL EMULSION
3 OIL BASE
4 OIL-CRUDE
5 AIR
6 WATER
7 SALT GEL MUD
8 OIL SALT EMUL
9 GYP BASE MUD
10 OIL-DIESEL
11 CAUSTIC-QUEB OIL
12 LIME BASE
13 CAUSTIC-QUEB
21 STARCH BASE
22 INVERTED OIL EMUL

CUT-COLOR

0 NIL
1 LIGHT
2 LIGHT BROWN
3 BROWN

• - CHLORIDE GRAMS/LITER WATER SATURATION CORRECTED TO 26° BY WEIGHT CL. EXCESS NOT QUANTITATIVELY RECORDED, ASSUMED TO BE CRYSTALLINE NA CL.

F - FRACTURED PERM PLUG