SCHLUMBERGER INDUCTION-ELECTRICAL LOG

COUNTY	LOS ANGELES
FIELD or LOCATION	LONG BEACH UNIT
WELL	C-320
COMPANY	THUMS L.B. CO.

COMPANY THUMS LONG BEACH COMPANY
(237-205-93)

WELL C-320

FIELD (LONG BEACH UNIT) APR 1970

COUNTY LOS ANGELES STATE CALIFORNIA

LOCATION LAMBERT COORDINATE:
N 4 017 557.39
E 4 246 186.95

Other Services:

Sec. 16 Twp. 5S Rge. 12W

Permanent Datum: MAT, Elev. 16.30

Log Measured From KB 30.25 Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 46.55
D.F.
G.L.

Date	8-14-68	8-21-68		
Run No.	ONE	TWO		
Depth—Driller	4842	6443		
Depth—Logger	4946	6443		
Btm. Log Interval	4945	6442		
Top Log Interval	1050	4700		
Casing—Driller	13 3/8 @ 1050	8 5/8 @ 3950	@	@
Casing—Logger	1050	--		
Bit Size	REMARKS	7 7/8"		
Type Fluid in Hole	CLAY	CLAY		
Dens. | Visc.	81 | 46	81 | 47		
pH | Fluid Loss	9.8 | 4.4 ml	9.8 | 4.2 ml	ml	ml
Source of Sample	CIRCULATED	CIRCULATED		
R_m @ Meas. Temp.	1.69 @ 67 °F	1.60 @ 70 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.20 @ 69 °F	1.18 @ 68 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.30 @ 119 °F	1.02 @ 155 °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | C	M | C		
R_m @ BHT	1.00 @ 119 °F	0.92 @ 155 °F	@ °F	@ °F
Time Since Circ.	6 HOURS	5 HOURS		
Max. Rec. Temp.	119 °F	155 °F	°F	°F
Equip. | Location	7516 | LB	7516 | LB		
Recorded By	WHITE	MONTGOMERY		
Witnessed By	MR. MILLER	MR. MILLER		

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

REMARKS

Changes in Mud Type or Additional Samples		
Date | Sample No.		
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.		
ph | Fluid Loss	ml	
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}		
R_m @ BHT	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole
I-ES	5747	0-30	0-15

Equipment Data

Run No.	Tool Type	Tool Position	Other
1	6FF40	FREE	
2	6FF40	FREE	

Run No.:	ONE	TWO
C.D.:	NONE	USED
S.O.:	--	1.5"
Equip. PANEL No.:	IRP-J-459	J-459
Used: CART. No.:	IRC-F-404	F-404
SONDE No.:	IRS-M-674	M-674
IAP No.:	IAP-D-133	D-133
S.B.R.:	2	2

RUN ONE BIT SIZES: 12 1/4" CASING TO 3839
7 7/8" 3839 TO TD

Check one, filling in blanks where applicable:
[X] Surface determined sonde errors used for 6FF40.
[ ] 6FF40 sonde error corrected for inch borehole signal at Rm =
[ ] 6FF40 zero set in hole at depth of feet.

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms - m²/m	CONDUCTIVITY millimhos/m = 1000 / ohms - m²/m

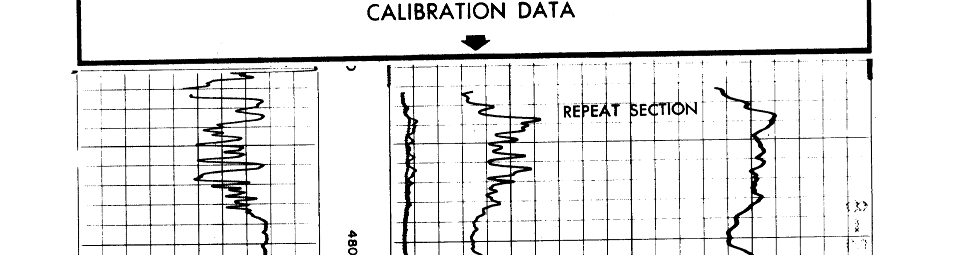
SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms - m²/m	CONDUCTIVITY millimhos/m = 1000 / ohms - m²/m
− ⟷ + (10)		A-16"-M SHORT NORMAL 0 — 15; 0 — 150; INDUCTION 0 — 15; 0 — 150; 0 AMPLIFIED S.N. 3	6 FF40 INDUCTION 1000 — 0; 2000 — 1000

COMPANY THUMS LONG BEACH COMPANY

WELL C-320

FIELD LONG BEACH UNIT

COUNTY LOS ANGELES STATE CALIFORNIA

SCHL. FR 6442
SCHL. TD 6443
DRLR TD 6443
Elev: KB 46.55
DF
GL

CALIBRATION DATA