

		Open	Min	Max			Well	22g AGI 01
		4.27	2.420	4.910			Date	24-Dec-14
		880.8						
Capacity		132.8	132.8	132.8	132.8		Shut Depth	843
P-Center		135.3	135.3	135.3	135.3		Total Depth	843
Casing String Vn								
Run In	Run In	Length	Q.D.	Weight	Grade	Thread	Remarks	Total
								Length
1	5.5	42.11	13.18	68	155	BTC		1.52
2	7	42.11	13.18	68	155	BTC	(1) Conn 1 & 2	44.65
3	7.5	42.11	13.18	68	155	BTC		48.85
4	2	42.11	13.18	68	155	BTC	Conn 03	66.27
5	3	42.14	13.18	68	155	BTC		126.51
6	4	42.14	13.18	68	155	BTC	Conn 04	178.65
7	5	42.14	13.18	68	155	BTC		212.79
8	6	42.14	13.18	68	155	BTC		254.92
9	7	42.14	13.18	68	155	BTC	Conn 05	297.06
10	8	42.14	13.18	68	155	BTC		339.21
11	9	42.15	13.18	68	155	BTC	Conn 06	381.34
12	10	42.15	13.18	68	155	BTC		423.47
13	11	42.15	13.18	68	155	BTC	Conn 07	465.60
14	12	42.15	13.18	68	155	BTC		507.73
15	13	42.15	13.18	68	155	BTC	Conn 08	549.86
16	14	42.15	13.18	68	155	BTC		591.99
17	15	42.15	13.18	68	155	BTC	Conn 09	634.12
18	16	42.15	13.18	68	155	BTC		676.25
19	17	42.15	13.18	68	155	BTC	Conn 10	718.38
20	18	42.15	13.18	68	155	BTC		760.51
21	19	42.15	13.18	68	155	BTC	Conn 11	802.64
22	20	42.15	13.18	68	155	BTC		844.77
23	21	42.15	13.18	68	155	BTC		
24	22	42.15	13.18	68	155	BTC	Out Joints	
25	23	42.15	13.18	68	155	BTC	Out Joints	
26	24	42.15	13.18	68	155	BTC	Out Joints	
27	25	42.15	13.18	68	155	BTC	Out Joints	
28	26	42.15	13.18	68	155	BTC	Out Joints	
Total		210.72						

Survey 3
195' 3/4"
665 1/2"
840 3/4"

Parsons Brinckerhoff - ZIA 1 Surface Field Blend Tail

Fluid No : MNM14C701002	Client : Parsons Brinckerhoff	Location / Rig : Precision 0107	Signature : P. Quintana, LYT
Date : Dec-27-2014	Well Name : ZIA 01	Field :	K. Harburg
			L. Araya, LYT

Job Type : Surface	Depth : 1025.0 ft	TVD : 1025.0 ft
SHCT : 80 degF	SHCT : 80 degF	BHP : 712 psi
Starting Temp. : 80 degF	Time to Temp. : 00:13 hr:min	Heating Rate : 0.01 degF/min
Starting Pressure : 251 psi	Time to Pressure : 00:13 hr:min	Schedule : 9.2-1

Composition

Slurry Density : 13.70 lb/gal	Yield : 1.55 lb/ck	Mix Fluid : 8.481 gal/ck
Solid Vol. Fraction : 30.5 %	Porosity : 60.5 %	Slurry type : Conventional
0002 : 94 lb of BLEND	Blend : 187.27 (lb)3	FB3234
Fresh water : 8.481 gal/ck	Base Fluid :	Top
0091 : 1.000 %BWOC	Accelerator	14101
0055 : 0.200 %BWOC	Dispersant	BA17DP22
0130 : 0.110 lb/ck	Lost chic	829147
0020 : 1.000 %BWOC	Extender	Bulk
0046 : 0.200 %BWOC	Anti-foam	CW4J02GSA1
0171 : 0.010 gal/ck	Retarder	Z014246AL

Rheology

Temperature	80 degF			80 degF		
	10 deg	15 deg	20 deg	10 deg	15 deg	20 deg
300	27.0	27.0	27.0	30.0	30.0	30.0
200	23.0	23.0	23.0	25.0	25.0	25.0
100	18.0	18.0	18.0	21.0	21.0	21.0
60	16.0	17.0	15.5	19.0	18.0	18.0
30	14.0	13.0	14.5	16.0	16.0	15.0
6	12.0	12.0	12.0	12.0	13.0	12.5
3	10.0	11.0	10.5	9.0	11.0	10.0
10 sec Gel	10 deg - 10.07 lb/10002			11 deg - 11.74 lb/10002		
10 min Gel	15 deg - 18.01 lb/10002			11 deg - 11.74 lb/10002		
Area computed	Viscosity: 13.775 cP Yield Point: 13.56 lb/10002			Viscosity: 15.332 cP Yield Point: 15.31 lb/10002		

Thickening Time

POD :	02:09 hr:min
30 Bc	04:14 hr:min
50 Bc	04:27 hr:min
70 Bc	04:56 hr:min

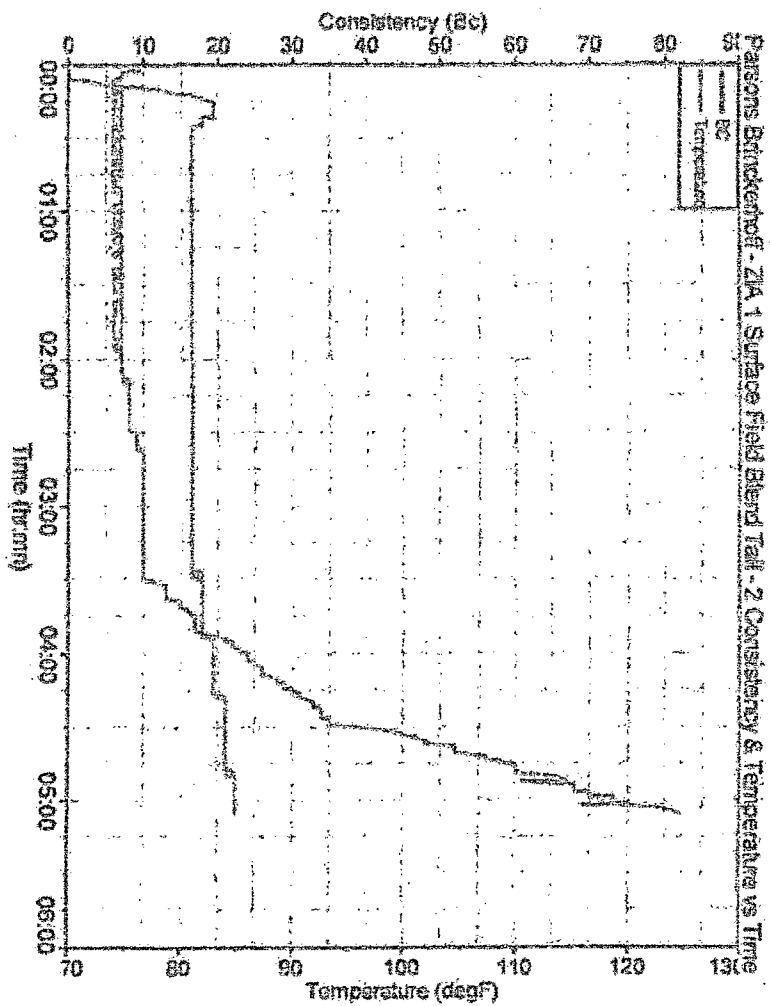
UCA Compressive Strength

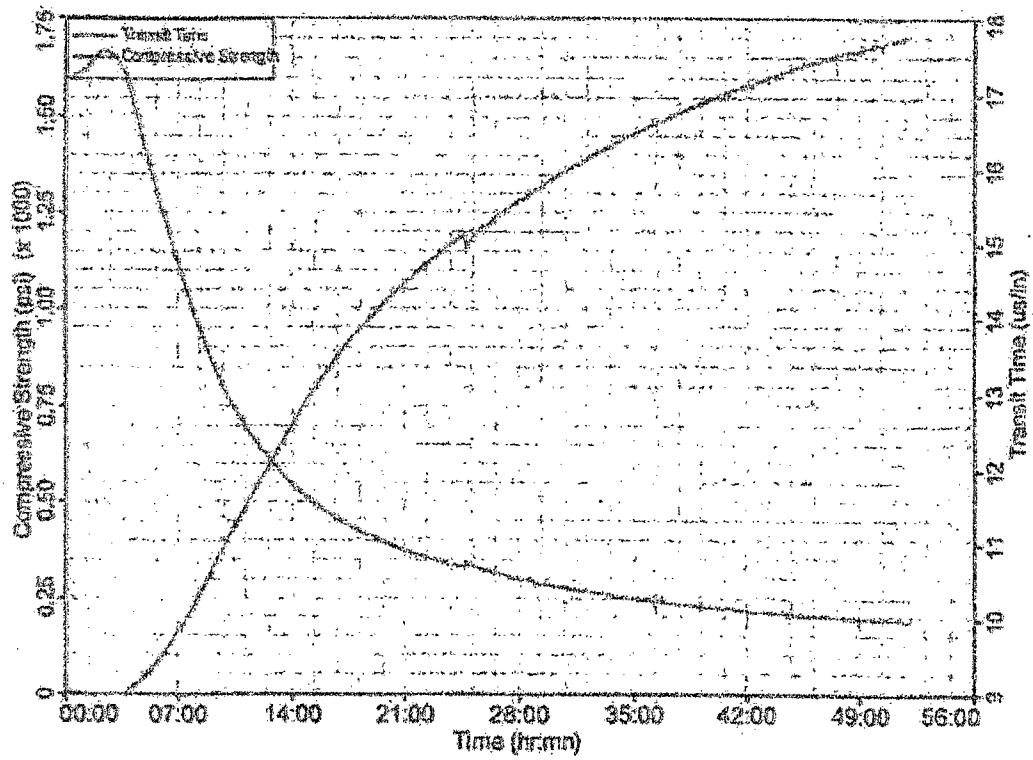
05:01 hr:min	50 psi
11:17 hr:min	500 psi
24:00 hr:min	1176 psi
48:00 hr:min	1656 psi

Free Fluid

2.0 mL/250mL in 2 hrs
At 80 degF and 0 degF
Sedimentation : None

04/10/1993





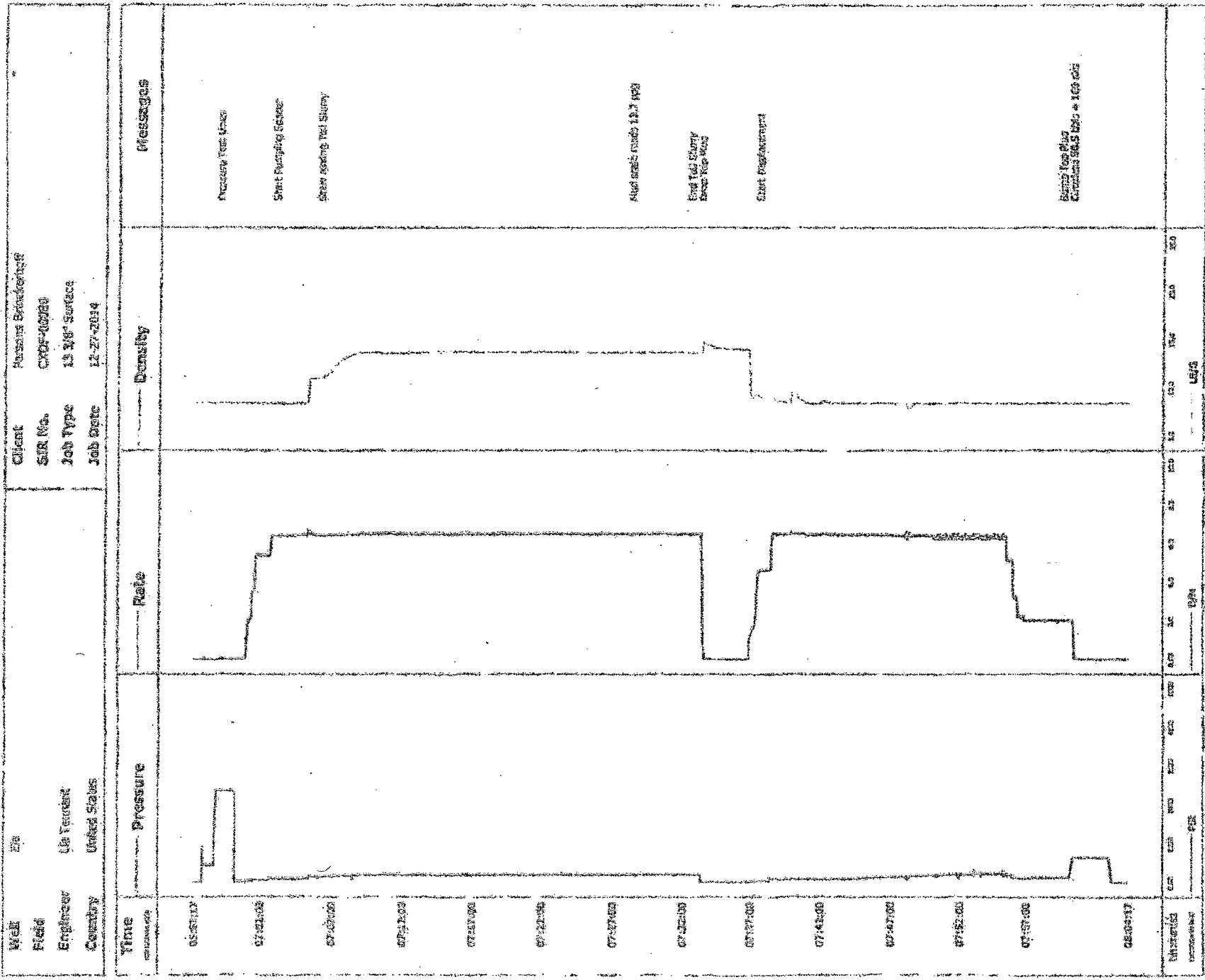


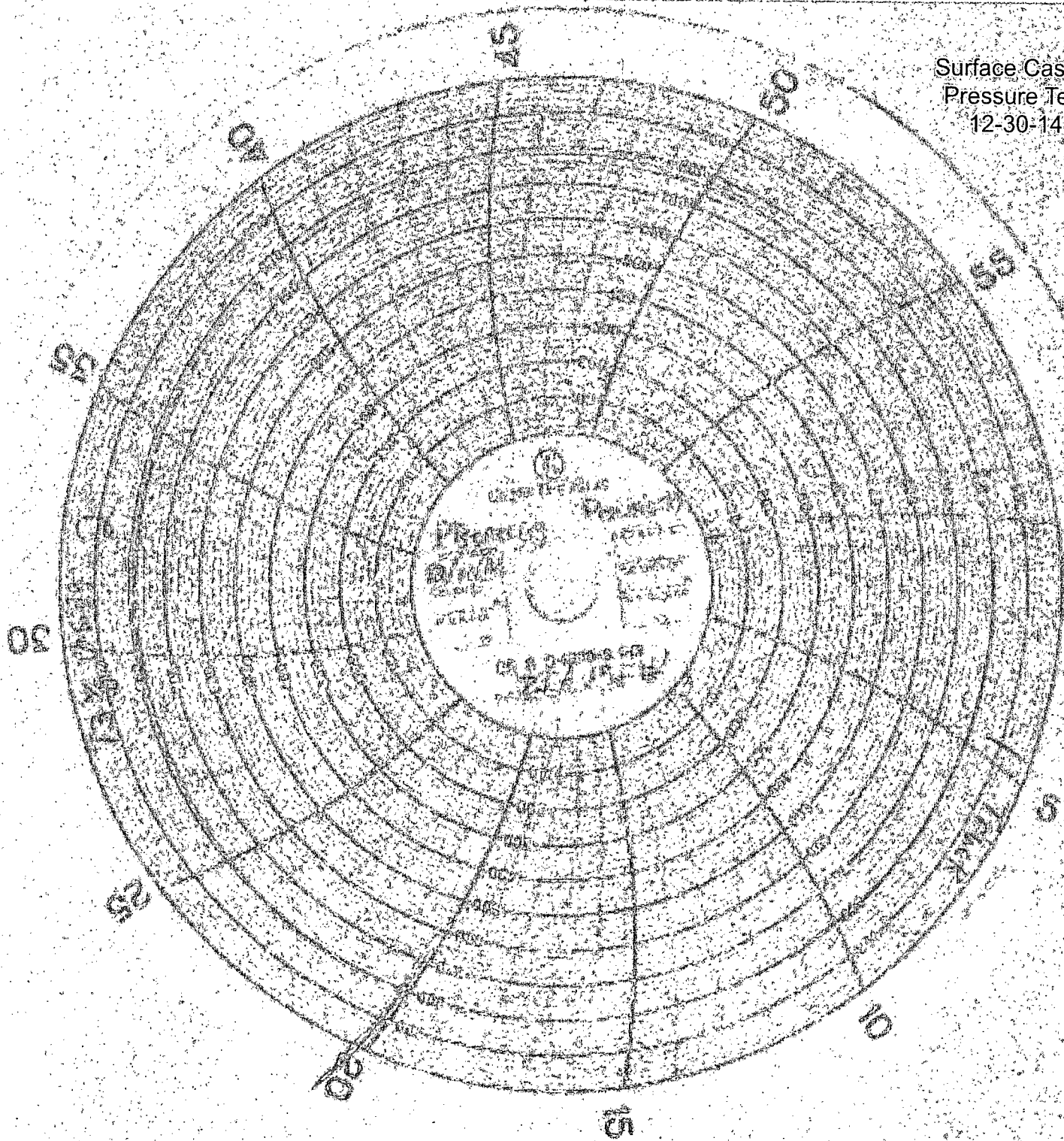
Photo of Cement Returns
for Surface Casing Cementing



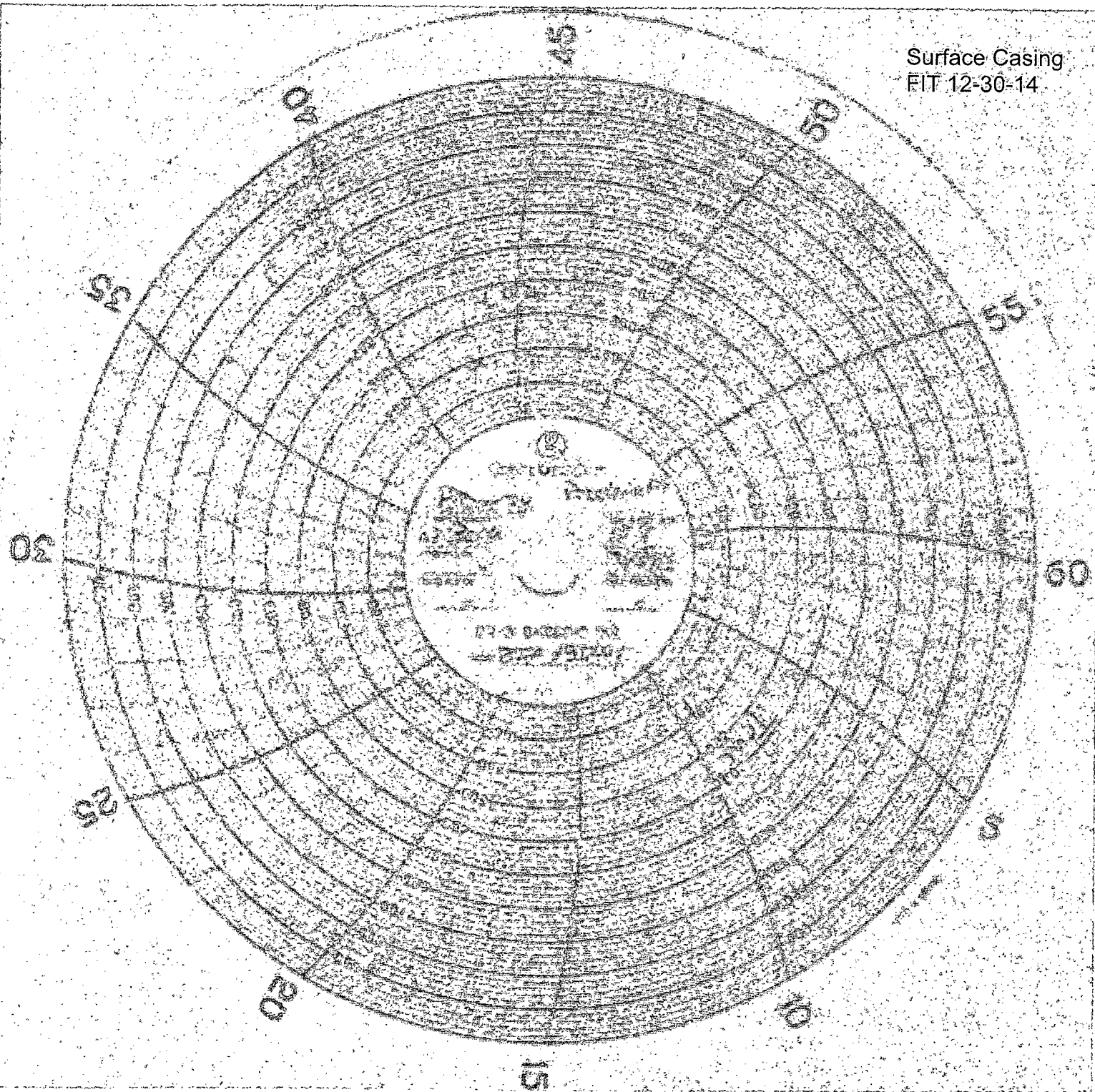
Photo of Surface Casing Cement Returns



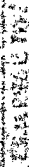
Surface Casing
Pressure Test
12-30-14



Surface Casing
FIT 12-30-14



10



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