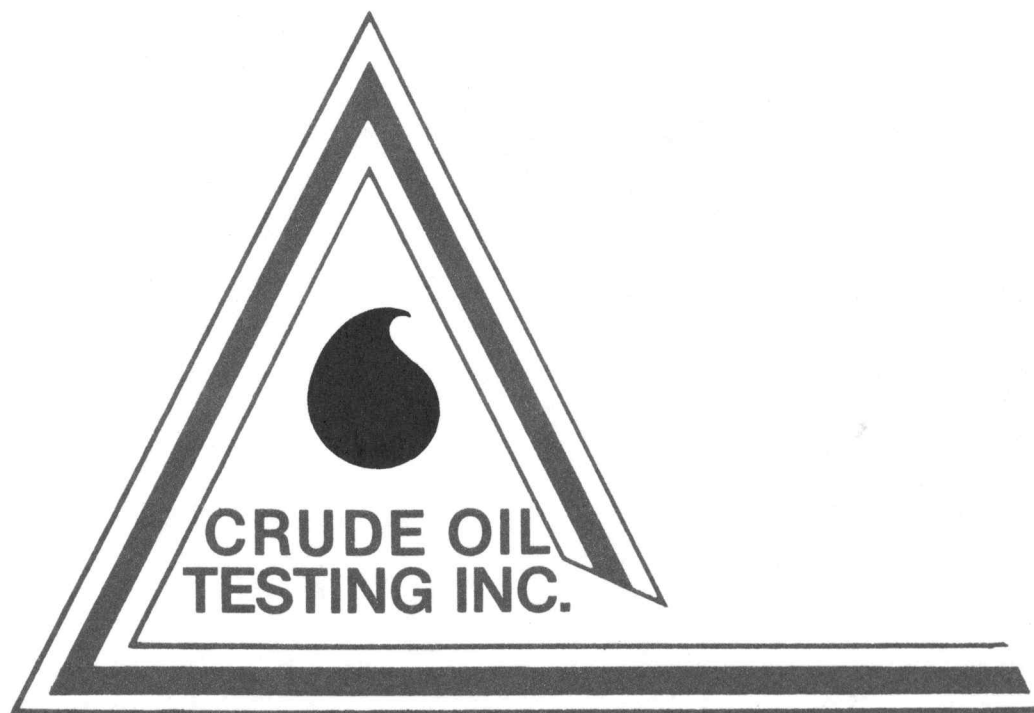




Copy to Interstate } 6/17/85
+ Zenith }
" to Geol Soc. - 7/03/85

FORMATION TESTING SERVICE REPORT

JUN 17 1985

CRUDE OIL TESTING, INC.

DATE 6/12/85

TEST TICKET NO. 5255

Company: J. A. Allison
 Company Address: 300 W. Douglas Suite 305 Wichita KS 67202
 Location: Sec. 9 Twp. 18S Range 18W Co. Rush State KS
 Well Name & Number: Young #3 Code E19

ENGINEERING DATA	Elevation 2092 KB	Drill Pipe Length 3491	ID 3.8 "
	Mud Viscosity 105	Weight Pipe Length	
	Mud Weight 9	Drill Collar Length 310	ID 2.25"
	Water Loss 11	Top Packer Depth 3819	
	Type of Mud Chemical	Bottom Packer Depth 3824	
	Anchor Length 18	Tool Joint Size 4.5	XH
	Hole Size 7 7/8	Test Tool Size 5 1/2	
	Casing Size 8 5/8	Packer Size 6 3/4	
	Surface Choke 3/4	Reversed Out No	
	Bottom Choke 3/4	Recorder # 13255	
	Extra Equipment	None	

REMARKS DST #1

FORMATION	Arbuckle Zone	Test Type Conventional
	Interval 3824 To 3842	Total Depth 3842
	Open 30 Shut In 60	Open 90 Shut In 60
	Packer(s) Set 10:33PM	Started Off Bottom 02:35AM
	Blow 1st Opening Weak blow building to 2 inches in bucket.	
	2nd Opening Weak blow building to 6 inches in bucket.	

RECOVERY Total Feet 120
 Recovered 60 feet of Clean gassy oil
 Recovered 60 feet of Oil cut mud

CALCULATED RECOVERY	Gas 1.4	Oil 103.6	Water	Mud 15
	Gravity (Oil) 36		Test Water Chlorides	PPM
	Test Area Temperature 120F	Mud System Chlorides	4,000	PPM

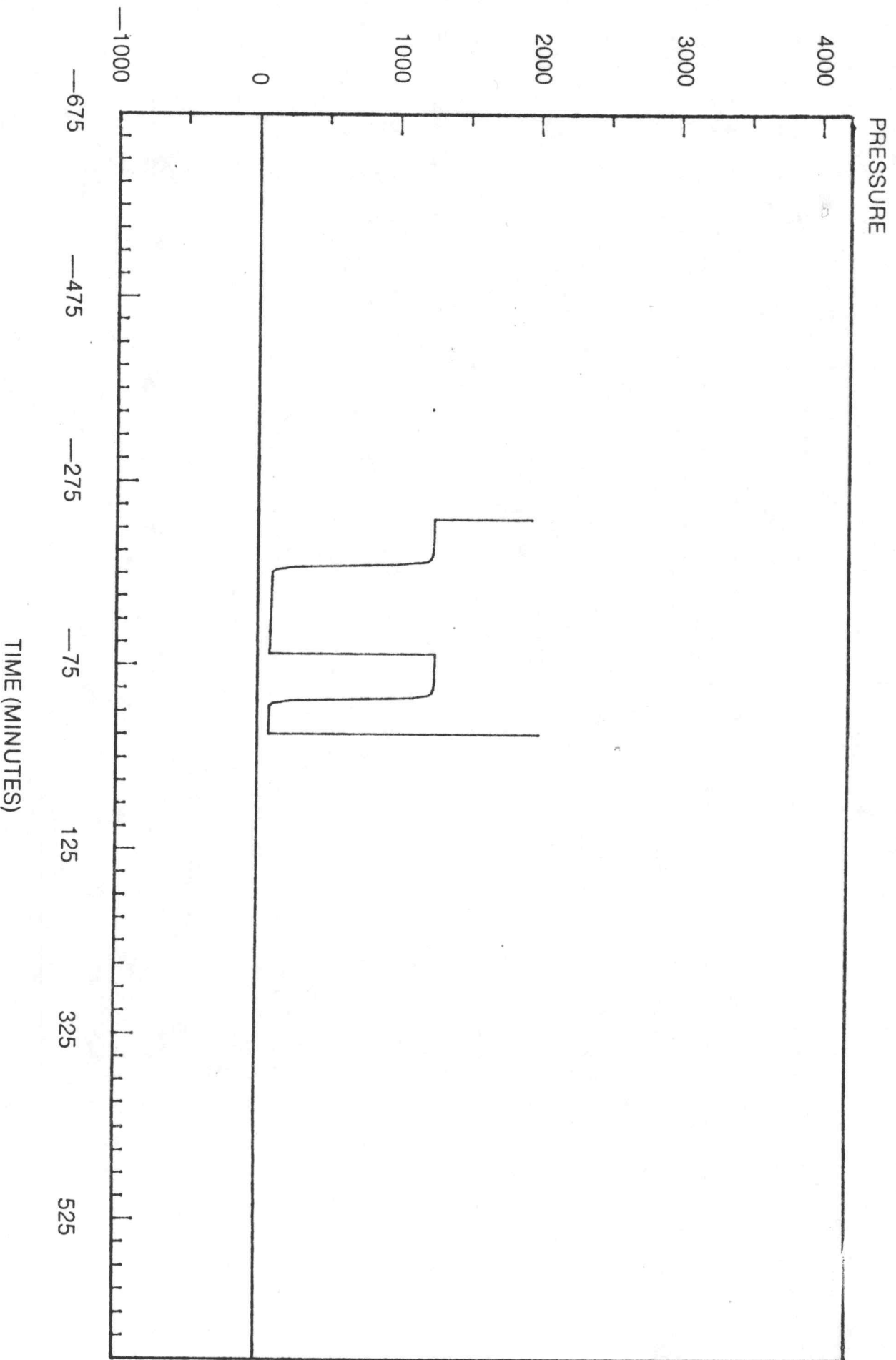
		FIELD READING	OFFICE READING	
PRESSURE	(A) Initial Hydrostatic Mud	2073	1947	PSI
	(B) First Initial Flow Pressure	35	27	PSI
	(C) First Final Flow Pressure	35	34	PSI
	(D) Initial Closed-In Pressure	1203	1210	PSI
	(E) Second Initial Flow Pressure	35	33	PSI
	(F) Second Final Flow Pressure	46	54	PSI
	(G) Final Closed-In Pressure	1203	1207	PSI
	(H) Final Hydrostatic Mud	2050	1900	PSI

CRUDE OIL TESTING INC.

FOR: J. A. Allison
TEST 5255

DST 1

06/12/85



PRESSURE BREAKDOWN

TEST TICKET NO. 5255

DST Number: 1 Recorder Number: 13255 Clock Number: 25113

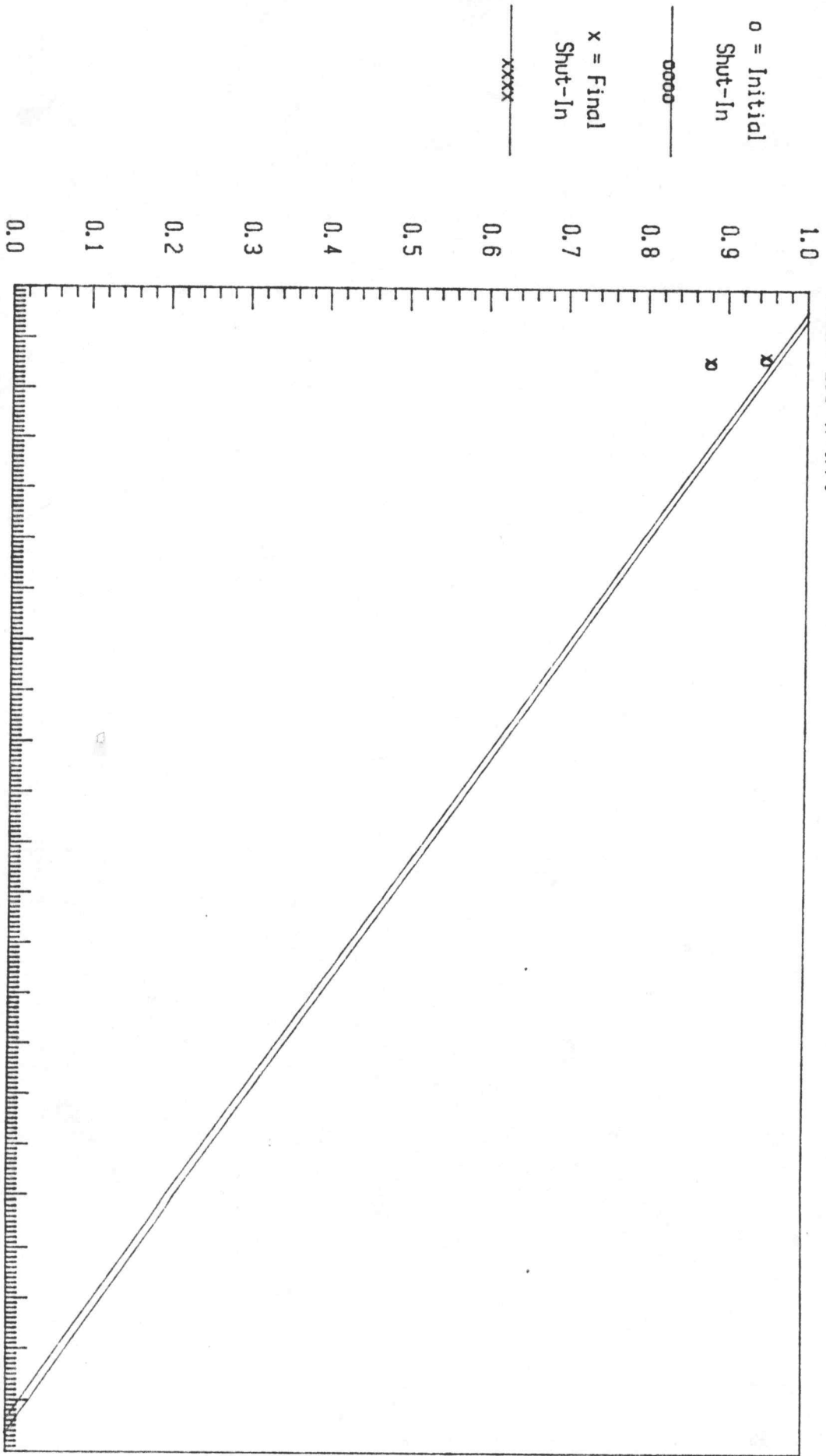
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Mins. Press.		Mins. Press.		Mins. Press.		Mins. Press.	
0	26	0	33	0	32	0	53
3	26	3	58	3	33	3	83
6	29	6	184	6	36	6	210
9	29	9	1052	9	36	9	963
12	29	12	1167	12	37	12	1159
15	30	15	1187	15	37	15	1181
18	30	18	1196	18	37	18	1190
21	32	21	1199	21	38	21	1195
24	32	24	1202	24	39	24	1197
27	33	27	1204	27	39	27	1199
30	33	30	1205	30	39	30	1202
		33	1206	33	40	33	1202
		36	1206	36	41	36	1204
		39	1206	39	43	39	1204
		42	1206	42	43	42	1204
		45	1210	45	43	45	1205
		48	1210	48	44	48	1205
		51	1210	51	45	51	1205
		54	1210	54	45	54	1205
		57	1210	57	46	57	1205
				60	47	59	1206
				63	47		
				66	47		
				69	48		
				72	48		
				75	50		
				78	51		
				81	51		
				84	51		
				87	53		
				89	53		

CRUDE OIL TESTING INC TEST 5255 DST 1

FOR: J. A. Allison

6/12/85

TIME: $x \log (T+t)/t$



ZONE EVALUATION - Page 1

DST NUMBER 1

TEST TICKET NO. 5255

Company: J. A. Allison

Date: 6/12/85

Drill Collar Feet	ID	Weight Pipe Feet	ID	Drill Pipe Feet	ID	Average ID	Gals/ Foot
104	2.250	0	0.000	0	3.800	2.2500	0.207

Bbls Recovered/Test = 0.2569 Est Bbls/Day = 3.1085 T = 119

Initial Shut-In					
PRESS.	TIME	T/t	(T+t)/t	LOG T/t	LOG (T+t)/t
1196	18	6.611	7.611	0.82027	0.88145
1187	15	7.933	8.933	0.89946	0.95101
1167	12	9.917	10.917	0.99637	1.03809
1052	9	13.222	14.222	1.12130	1.15297
184	6	19.833	20.833	1.29740	1.31876

Final Shut-In					
Press.	Time	T/t	(T+t)/t	Log T/t	Log (T+t)/t
1190	18	6.611	7.611	0.82027	0.88145
1181	15	7.933	8.933	0.89946	0.95101
1159	12	9.917	10.917	0.99637	1.03809
963	9	13.222	14.222	1.12130	1.15297
210	6	19.833	20.833	1.29740	1.31876

Time Option is Log (T+t)/t								
IP(0)	IP(1)	FP(0)	FP(1)	M	Kh/B	DR	Q1	Pts
1359.2	1174.1	1364.4	1166.5	197.9	2.554	1.145	3.560	1,3
1362.2	1175.3	1368.2	1168.0	200.2	2.525	1.144	3.555	1-3
1678.8	1153.6	1951.4	1128.1	823.3	0.614	1.035	3.217	1-4
3313.9	1108.2	3287.9	1091.0	2196.9	0.230	1.013	3.149	1-5

Graph Data For Points

Initial		Final	
Time	Pressure	Time	Pressure
0.8814	1196	0.8814	1190
0.9510	1187	0.9510	1181
1.0380	1167	1.0380	1159
1.1529	1052	1.1529	963
1.3187	184	1.3187	210

Graph Data For Lines

0	3313.90	0	3287.86
1	1108.19	1	1090.99

ZONE EVALUATION - Page 2

DST Number 1

TEST TICKET NO. 5255

Company: J. A. Allison

Date: 6/12/85

P.S.I. Slope Cycle (From Log $\frac{T + t}{t}$)

$$M = G_0 - G_1 \quad 2196.87$$

Damage Ratio:

$$DR = .183 \frac{P_s - P_f}{M} \quad 1.01$$

Effective Pay:

$$\frac{Kh}{B} = \frac{162.6 Q}{M} \quad 0.23 \text{ Md. Ft.}$$

Theoretical Potential With
Damage Removed (for DR greater than 1):

$$Q_1 = Q DR \quad 3.15 \text{ Bbls/Day}$$

Production:

0.26 Bbls/Hour

$$Q = \frac{1440 R}{T} \quad 3.11 \text{ Bbls/Day}$$

These calculations are based upon information furnished by you and taken from drill stem test pressure charts and are furnished for your information. In furnishing such calculations and evaluations, Crude Oil Testing Inc. is merely expressing an opinion. You agree that Crude Oil Testing Inc. makes no warranty as to the accuracy of such calculations or opinions, and Crude Oil Testing Inc. shall not be liable for any loss or damage, whether due to negligence or otherwise in connection with such calculations and opinions.

EQUIPMENT DATA
TOOL SEQUENCE REPORT

DST Number: 1

TEST TICKET NO. 5255

WELL NAME: Young #3

WELL LOCATION: 9-18S-18W

Tool #	Tool	Length	I.D.	O.D.
1	Drill Pipe - 4.5"	3491.00	3.826	4.50
4	Drill Collar - 6"	310.00	2.250	6.00
8	Circulating Sub	1.00	3.000	5.00
7	Changeover Sub	2.00	3.000	5.00
9	Shut-In Tool	5.45	0.870	5.00
10	Hydraulic Tool	5.60	1.000	5.00
14	Packer	5.35	1.530	6.75
14	Packer	5.35	1.530	6.75
6	Anchor	14.00	2.750	5.00
15	Recorder Carrier	1.00		5.00
16	Bull Plug	2.00		5.00
	Total Depth	3842.75		

CALCULATED RECOVERY ANALYSIS

DST Number: 1

TEST TICKET NO. 5255

Sample #	Total Feet	***** Gas %	***** Feet	***** Oil %	***** Feet	***** Mud %	***** Feet
1	60	2.00	1.20	98.00	58.80	0.00	0.00
2	50	0.00	0.00	70.00	35.00	30.00	15.00
3	10	2.00	0.20	98.00	9.80	0.00	0.00
TOTAL	<u>120</u>	1.17	<u>1.40</u>	86.33	<u>103.60</u>	12.50	<u>15.00</u>

Sample #	**** Water %	*** Feet	Chlorides (PPM)	Resistivity (Ohms)	Temperature (Deg)
1	0.00	0.00			
2	0.00	0.00			
3	0.00	0.00			
TOTAL	0.00	<u>0.00</u>			

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