

PRELIMINARY

PETROPHYSICAL EVALUATION OF

WELL 2/5-7

NAASTRICHTIAN FORMATION

NOVEMBER 1983

KLAUS MOTLAND

PETROPHYSICAL EVALUATION OF WELL 2/5-7

INTRODUCTION

The objective of this evaluation is to investigate the possibility of having hydrocarbons in the Maastrichtian formation.

Oil shows were seen in the drill cuttings and on cores in the interval 3298 - 3335.5 m. A fibreglass core sleeve was used. During partitioning the cores in pieces of 1 meter, oil was seen bleeding from fractures and stylolites at some butt-ends. Bleeding was observed at 3306, 3307, 3329.5, 3330.5, 3333.5, 3334.5 and 3335.5 m.

AVAILABLE DATA

A full logging suit was run over the zone of interest.

	Run.	Interval
ISF/Sonic/GR	No. 3	2237 - 3535
LDT/CNL/GR/Cal	No. 3	2235 - 3535
LDT/CNL/GR/Cal	No. 4	3148 - 4003
DLL/MSFL/GR	No. 1	3148 - 3675

Five cores were taken in the interval 3303 - 3348 m. When taking core no. 4 no progress was made in coring, only a fragment was recovered, most likely coming from the bottom part of core no. 3. To-date only preliminary porosity and permeability data have been received on 45 plugs from core 1 and 2 (see table 1).

DATA QUALITY

The LDT/CNL/GR/Cal run no. 3 was thought to be unreliable (crossplot of LDT/CNL, see Fig. 1, suggested the rock to be dolomitic limestone, which was in contradiction with core observations). Therefore LDT/CNL/GR run no.4 was made over the interval 3148 - 3535 m with a different tool. The crossplot from LDT/CNL run no. 4 (fig. 2) shows results more in line with observations on the cores.

BASIC PARAMETERS

m = 2	$\rho_{ma} = 2.71$ g/cc	Rmc = 0.18	BHT = 220°F
n = 2	$\rho_{fe} = 1.05$ m	Rm = 0.145	$\rho_m = 1.67$ g/cc
a = 1		Rmf = 0.048	Bs = 12.25"
		Wp = 7827 psi	

BOREHOLE CORRECTIONS

All logs, except the LDT, have been borehole corrected. There is for the moment no way of correcting the LDT for borehole effects.

TRUE RESISTIVITY (Rt)

True resistivity has been calculated from the LLd, LLs and MSFL.

POROSITY DETERMINATION (ϕ)

Porosity is calculated from the LDT/CNL crossplot (see fig. 2). Porosities range from 0% to 25% (see histogram fig. 3). Porosities above 20% are found in some intervals (see depthplot Appendix 1).

Rw - DETERMINATION (Rw)

Rw has been determined from a true resistivity v.s. porosity crossplot (see fig. 4). Formation water resistivity is determined to be $R_w = 0.027$ ohm.m. This value is close to the established $R_w = 0.025$ ohm.m used in ^{the} Maastrichtian formation at the Albuskjell field. A resistivity of $R_w = 0.027$ ohm.m at 220° F corresponds to a formation water salinity of 100,000 ppm NaCl eq.

Watersaturation (Sw)

The watersaturation is determined using a simple Archie equation.

RESULTS

Average results over the interval with shows and the cored interval are listed below:

Zone	Interval	Ø	Sw
Interval with shows	3298-3335.5 m	17.2	89.2
Same as above with cut off Ø<10%		18.6	86.4
Cored interval	3303-3348	15.7	92.3
Same as above with cut off Ø<10%		17.7	88.2

See also depth plot 1:200 over cored interval in appendix 1 and detailed log evaluation results on a layer by layer basis in table 2.

RFT

RFT pressures show a hydrocarbon gradient of some 0.33 psi/ft (s.g. = 0.76) in the interval 3300 - 3350 m. The measurements were confirmed by a rerun 18 days later. Fig. 5 shows the results of both runs. The repeatability is good between the two runs. An HP-gauge was used in the second run. Table 3 and 4 list the results. Below 3365 m a different pressure regime exists, that has a water gradient, suggesting a pressure barrier between 3350 and 3365 m. This pressure barrier may be caused by a tight zone at depth of 3357 - 3359 m (see Appendix 1 and Fig. 6).

CORE ANALYSIS

Conventional core analysis will be done in 1 foot intervals on all the cores. Preliminary results have only been received on core 1 and 2. Porosities are fairly good ranging from 8% to 25% with an average of 17% porosity. Permeabilities are rather low ranging from 0.02 mD to .69 mD with an average value of 0.1 mD. Fig. 7 shows a relationship between porosity and permeability for core no. 1 and 2.

The slabbed core shows appreciable amounts of fractures to be present both open and closed. The core was reviewed by an experienced

geologist, who indicated that production may be possible from such a fracture system after stimulation. Appendix 2 contains a detailed core description. Oil staining was observed in most fractures, but no oil was seen in the matrix.

CONCLUSION

Log evaluation does not show any significant hydrocarbons present in the matrix.

Hydrocarbons may be present in the fracture system between 3300 and 3350 m.

From core observations, enough fractures may be present to sustain fluid production for at least a short period.

FIGURES

- Fig. 1 Crossplot LDT/CNL No. 3
- Fig. 2 Crossplot LDT/CNL No. 4
- Fig. 3 Porosity histogram
- Fig. 4 True resistivity v.s. porosity
- Fig. 5 RFT pressure plot Run no 1 and no 2
- Fig. 6 RFT pressure plot
- Fig. 7 Core permeability vs core porosity

TABLES

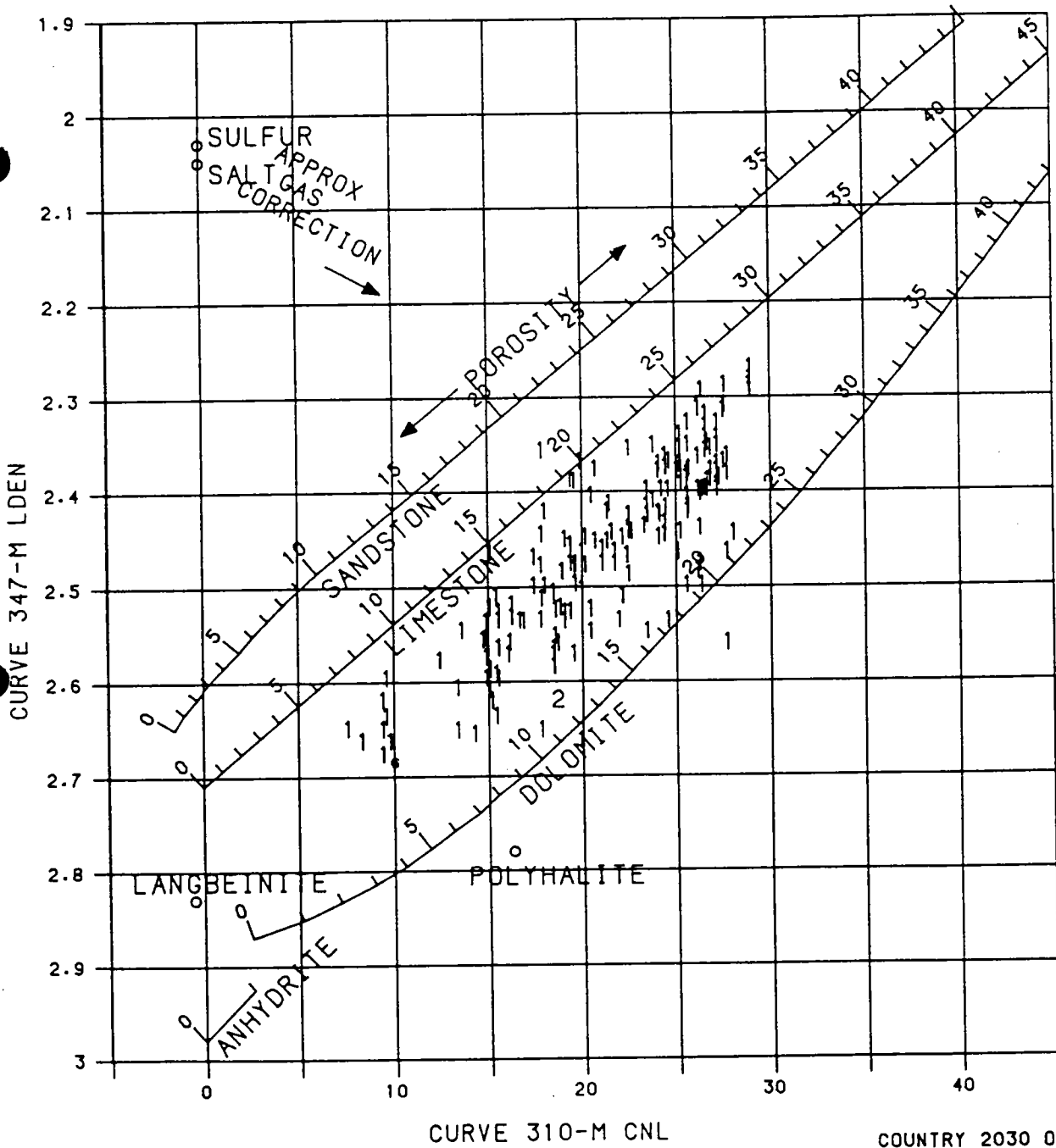
- Table 1 List of core data
- Table 2 List of log evaluation results
- Table 3 RFT results
- Table 4 RFT results

APPENDICES

- Appendix 1 Depthplot over cored interval
- Appendix 2 Detailed core description

FDC - CNL

RHO-F = 1.0



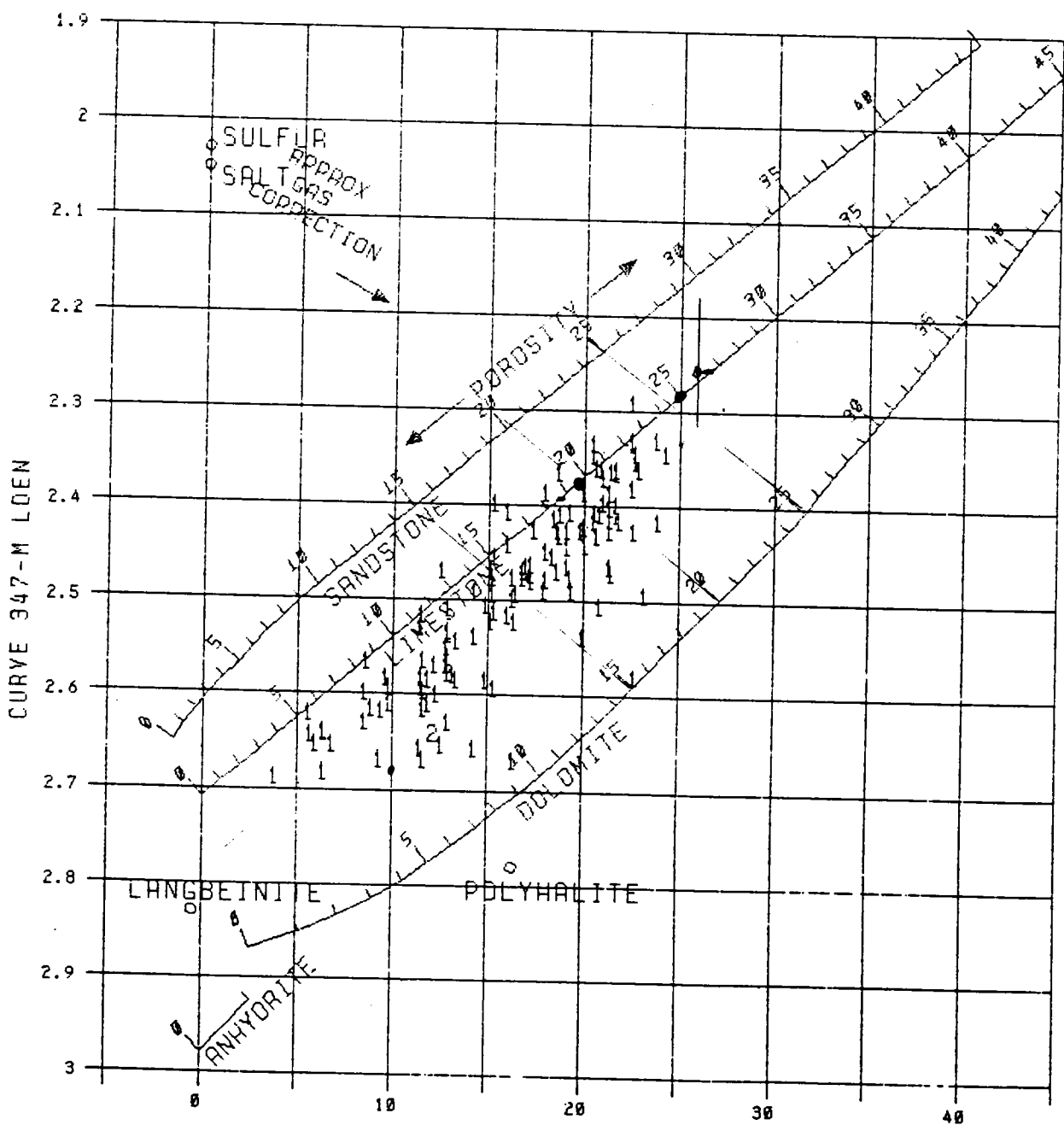
2/5-7 3290.0-3400.0 M
 POR FROM LDT/CNL CROSSPLOT.BMC LOGS
 SW FROM ARCHIE USING ILD & RW=.030.M=1.93.N=1.82

COUNTRY 2030 OPCO 177
 FIELD 9495 WELL 7 HOLE 1

PARASOL - CROSSPLOT	
K.MOTLAND	EPPP4
3290-3400	
14/10/83	

FDC - CNL

RHO-F = 1.0

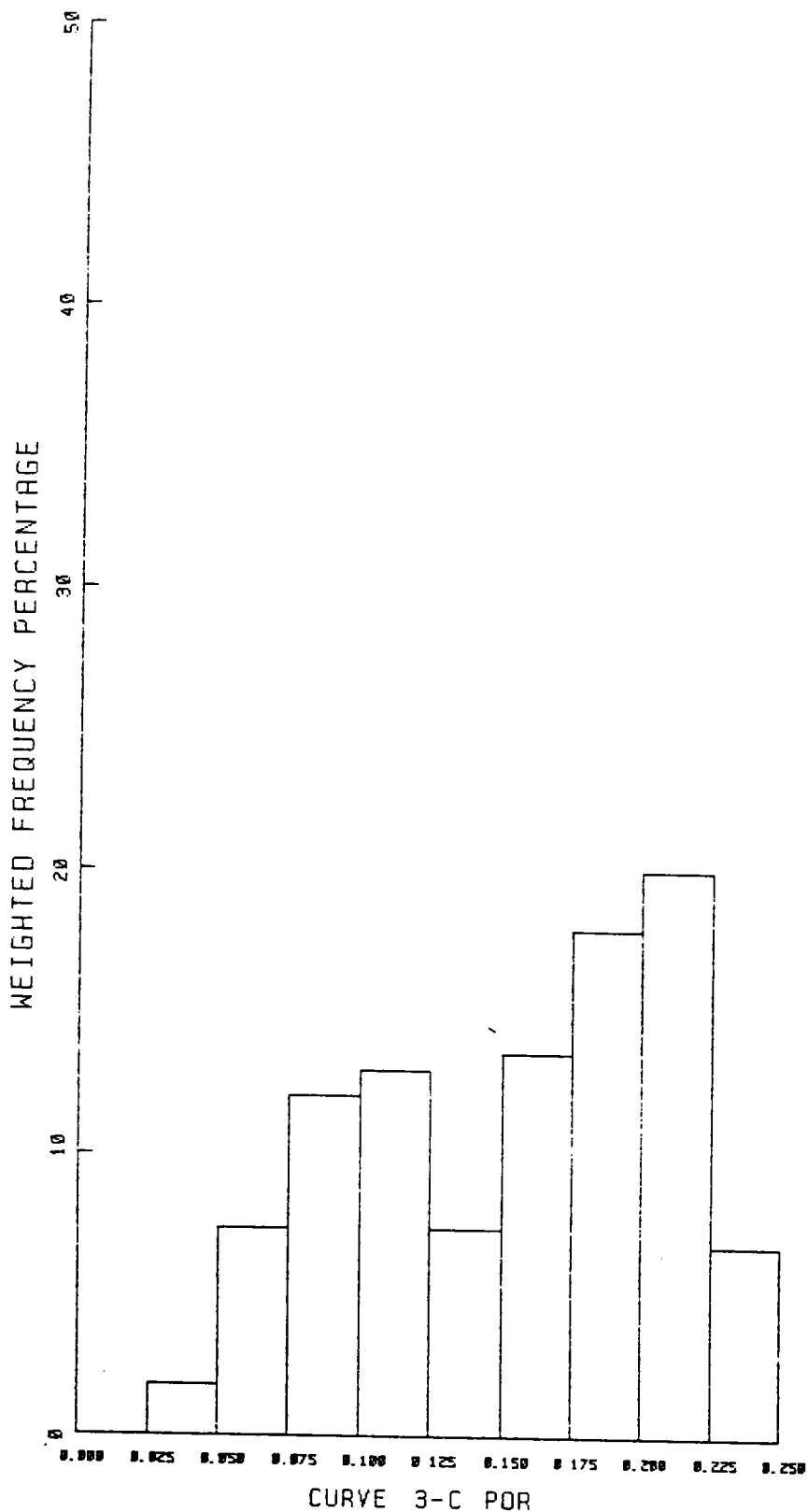


Z-AXIS CURVE 330-M GR
RANGE : 0.0 - 100.0

CURVE 310-M CNL

2/5-7 3290 N-3370.0 M
 PUR FROM LOT/CNL CROSSPLOT. BHCORR. LOGS
 SW FROM ARCHIE USING ILO 1 RW=.827. M=2.68. N=2.68

COUNTRY 2030 OPGO 177	
FIELD 9495 WELL 7 HOLE 1	
PARASOL - CROSSPLOT	
K. MOTLAND	EPPP4
3290-3370	
09/11/83	



2/5-7 3298.0-3370.0 M

POR FROM LOT/CNL CROSSPLOT. BMCORR. LOGS

SM FROM ARCHIE USING ILD & RM=.027. M=2.00. N=2.00

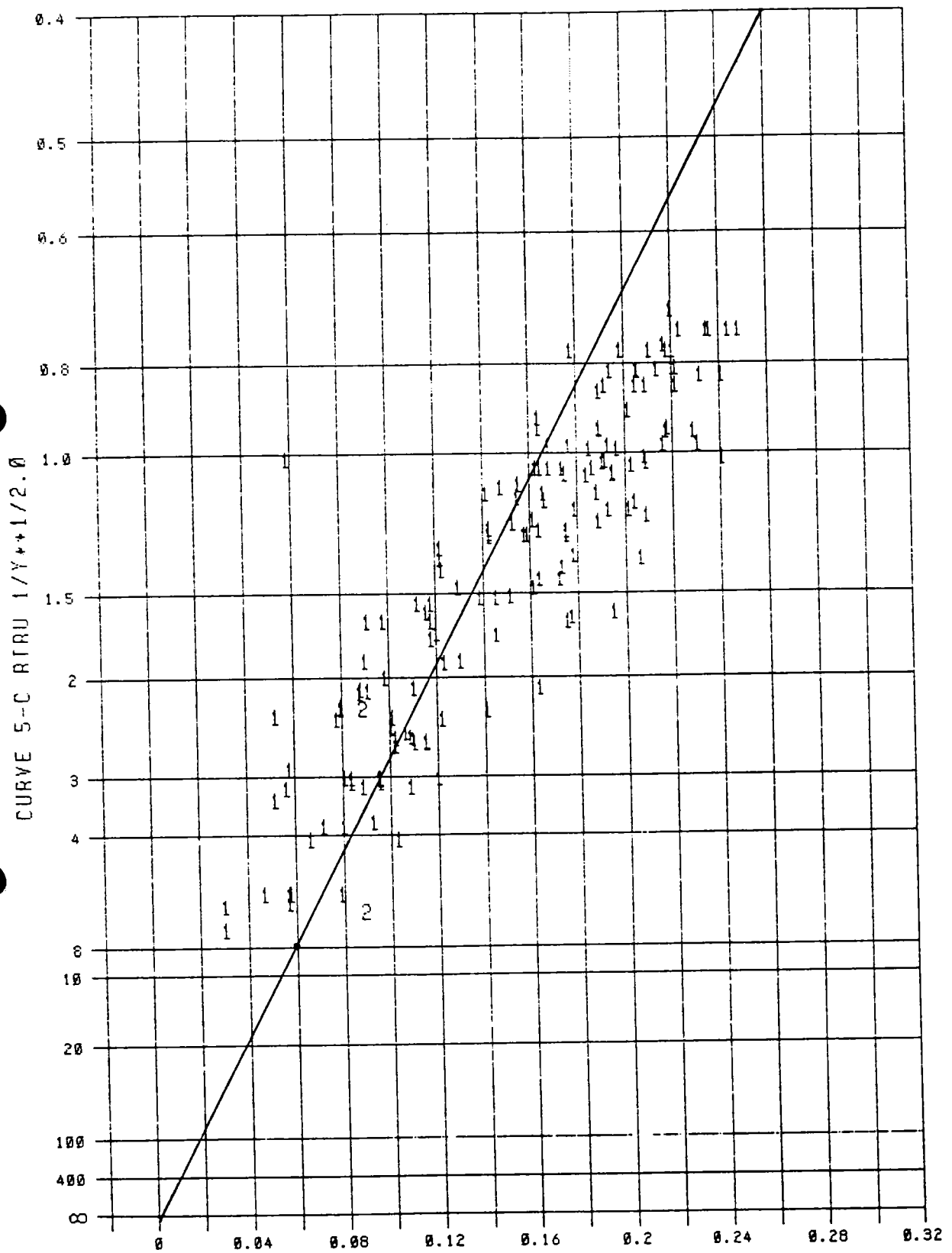
COUNTRY 2830 OPCI 177
FIELD 9495 WELL 7 HOLE 1

PARASOL HISTOGRAM	
K. MOTLAND	EPPP4
3298-3350	
09/11/83	

$$\text{PHI} - \frac{1}{RT} ** \frac{1}{M}$$

M = 2.0

Rw = 0.027 ohm.m



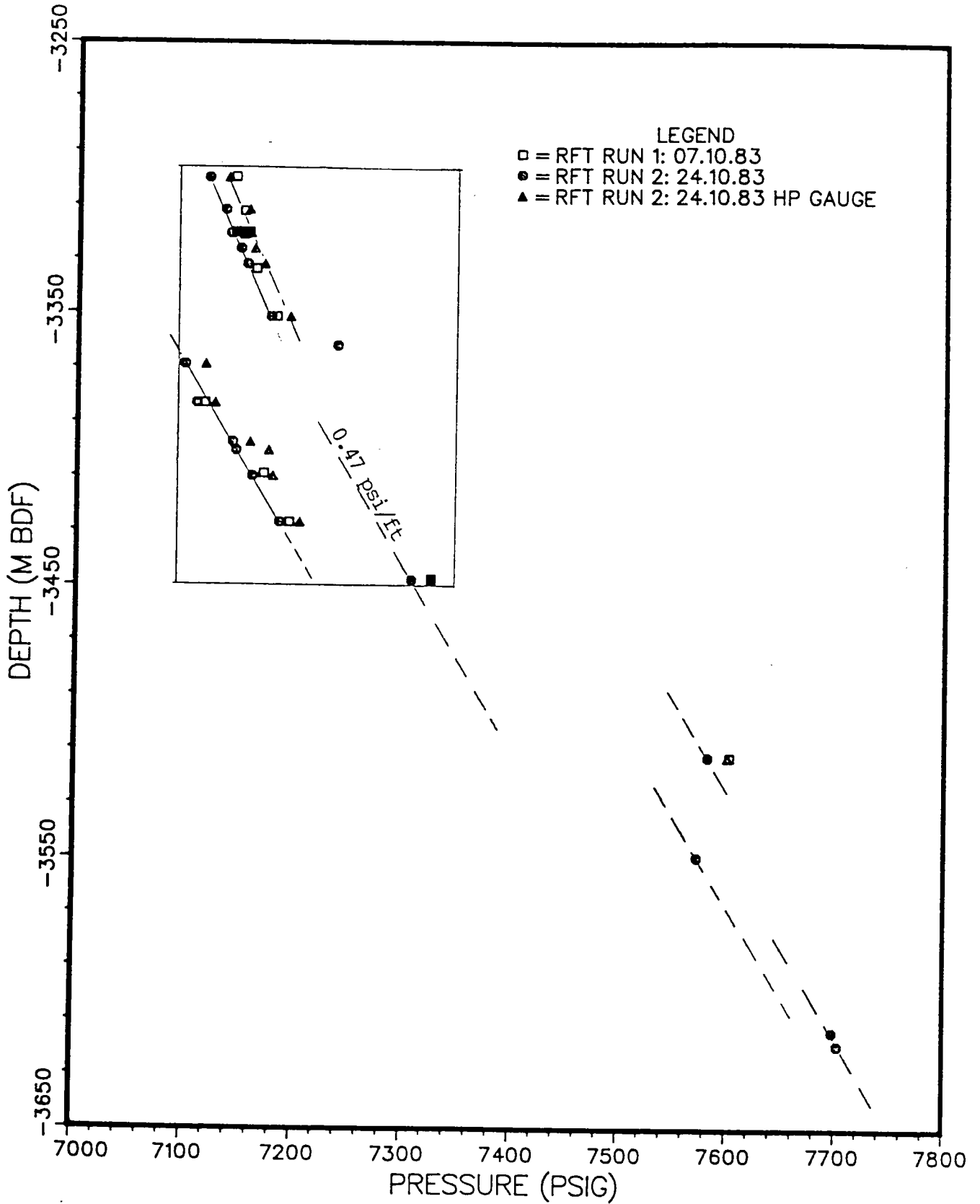
Z-AXIS CURVE 330-M GR
RANGE : 0.0 - 100.0

2/5-7 3290.0-3370.0 M
POR FROM LOT/CNL CROSSPLOT. BMCORR. LOGS
SW FROM ARCHIE USING ILD & RW = 0.027. M = 2.00. N = 2.00

COUNTRY 2030 OPGD 177	
FIELD 9495 WELL 7 HOLE 1	
PARASDL - CROSSPLOT	
K. MOTLAND	EPPP4
3290-3370	
09/11/83	

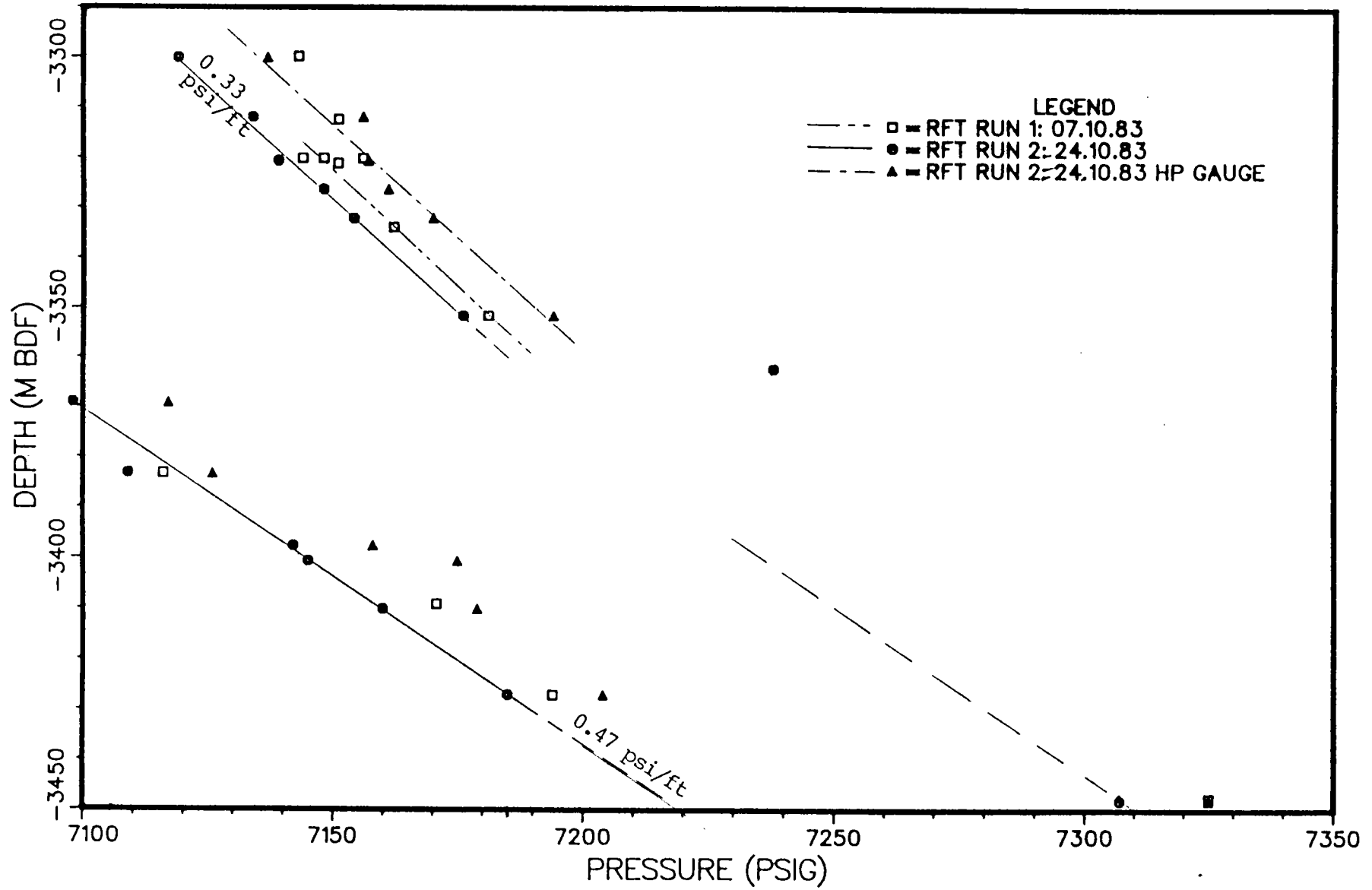
WELL 2/5-7

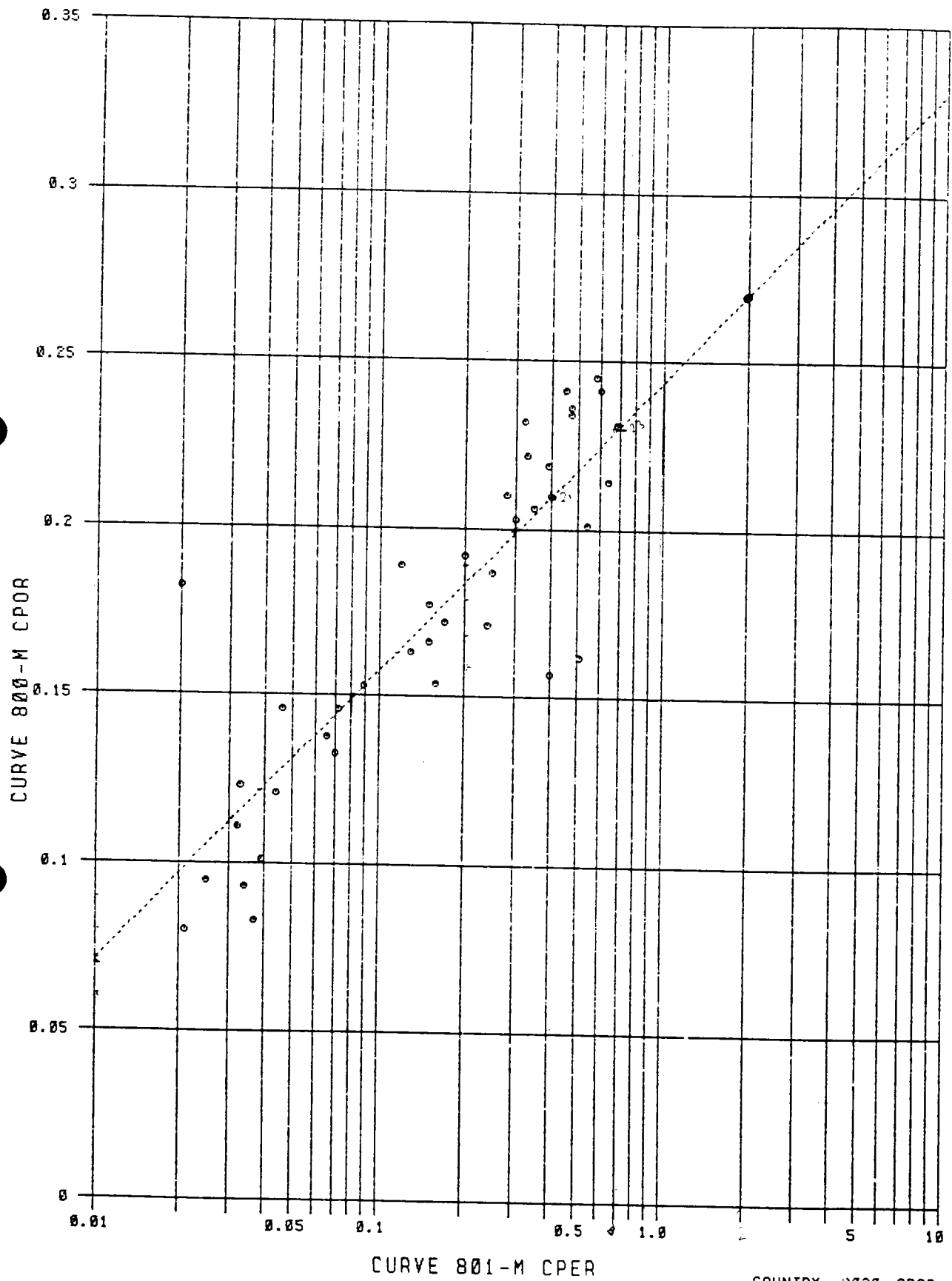
RFT PRESSURES



WELL 2/5-7

RFT PRESSURES





2/5-7 3296.0-3376.0 M
 POR FROM LOT/CNL CROSSPLOT. 8WCORR. LOGS
 SW FROM ARCHIE USING ILO & RW=.027. M=2.00. N=2.00
 FORMULA REGRESSION LINE : Y = 0.89 * X + 0.24
 CORRELATION COEFFICIENT : 0.86

COUNTRY 2030 OPCO 177	
FIELD 9495 WELL 7 HOLE 1	
PARASOL - CROSSPLOT	
K MOTLAND	EPPP4
3303-3322	
09/11/83	

33046a sheld n
33325 gecol n

a/s norsk shell
attn.: p. immerz

date: 08.11.83.
our ref.: kr/sn/1593/f37-Lab.

here are the porosity/permeability

core no. 2: 30 por./gr.dens, all
28 hor. perm. ; all

08 NOV 1983

EPX FILE NO: Well file

ACTION BY: EPXV/1

WORK COPY TO: EPXT

CIRC COPY TO: data from well 2/5-7:

plug no.	depth (meter)	permeability (md),		poros he	grain dens. g/cc
		horizontal ka	kl		
19	3312.10	0.025	0.018	9.5	2.72
20	3312.40	0.29	0.22	10.0	2.73
21	3312.70	0.034	0.025	9.5	2.72
22	3313.00	0.044	0.032	10.1	2.72
23	3313.30	0.021	0.015	9.0	2.72
24	3313.60	0.58	0.45	24.5	2.72
25	3313.90	nmp		22.9	2.73
26	3314.20	0.32	0.24	23.2	2.72
27	3314.50	nmp		21.5	2.72
28	3314.90	0.072	0.054	14.6	2.72
29	3315.20	0.13	0.10	16.3	2.72
30	3315.50	0.54	0.41	20.1	2.72
31	3315.80	0.28	0.21	21.0	2.72
32	3316.10	0.066	0.049	13.8	2.72
33	3316.40	0.17	0.13	17.2	2.72
34	3316.70	0.15	0.11	16.6	2.72
35	3317.00	0.039	0.028	10.1	2.72
36	3317.30	0.037	0.027	8.3	2.72
37	3317.60	0.070	0.052	13.3	2.72
38	3317.90	0.40	0.31	15.7	2.72
39	3318.20	0.16	0.12	15.4	2.72
40	3318.50	0.15	0.11	17.7	2.72
41	3318.80	0.089	0.066	15.3	2.72
42	3319.10	0.046	0.034	14.6	2.72
43	3319.40	0.033	0.024	12.3	2.72
44	3319.70	0.032	0.023	11.1	2.72
45	3320.00	0.020	0.15	18.2	2.72
46	3320.30	0.25	0.19	18.7	2.72
47	3320.60	0.120	0.089	18.9	2.72
48	3321.00	0.20	0.15	19.2	2.72

regards
geco petr. Lab.
Keith roebuck

33046a sheld n
33325 gecol n

3 11 1983

EPX

305
15.20 mp

TELEX db telecopyplus

EPX/4A TABLE 1

13.15 #
330468 SHELP N
33325 GECOL N

A/S NORSKE SHELL
ATTN.: P. IMMERZ

DATE: 04.11.83.
OUR REF.: MS/SN/1580/F37-LAB.

04 NOV 1983
EPX FILE NO: <i>Well File</i>
ACTION BY: <i>EPX/11</i>
WORK COPY TO: <i>EPX/11</i>
CIRC. COPY TO:

HERE ARE THE POROSITY/PERMEABILITY DATA FROM WELL 2/5-7:

CORE NO. 1: 15 POR./GR.DENS, ALL
12 HOR. PERM. , ALL

PLUG NO.	DEPTH (METER)	PERMEABILITY (MD)		POROS GRAIN	
		HORIZONTAL KA	KL	HE	DENS. G/CC
1	3303.15	0.33	0.25	22.2	2.73
2	3303.45	0.30	0.23	20.3	2.72
3	3303.75	0.35	0.27	20.6	2.71
4	3304.05	0.39	0.30	21.9	2.71
5	3304.35	0.47	0.36	23.6	2.72
6	3304.65	0.47	0.36	23.4	2.72
7	3304.95	0.45	0.35	25.4	2.72
8	3305.25	0.64	0.49	21.4	2.75
9	3305.55	0.60	0.46	24.1	2.73
10	3305.85	NPP			
11	3306.15	NPP			
12	3306.45	NMP		20.8	2.72
13	3306.75	NMP		15.4	2.71
14	3307.05	0.69	0.53	23.1	2.70
15	3307.35	NMP		20.8	2.71
16	3307.65	NPP			
17	3307.95	0.24	0.18	17.1	2.71
18	3308.25	0.51	0.40	16.2	2.71

REGARDS
GECO PETR.LAB.
M. SKJÆVELAND

330468 SHELP N
33325 GECOL N

RECEIVED	4 NOV 1983
ACTION BY: <i>EPX</i>	
INFO. COPY:	

TELEX db telecopyplus

TABULATION OF PROCESSED CURVES
=====

COUNTRY : 2030
OPCO : 177
FIELD : 9495
WELL : 7 2/5-7
HOLE : 1

2/5-7 3290.0-3370.0 M
POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

TOP OF INTERVAL : 3290.01 M
BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	1-M LITH	140-M LL9D OHMM	141-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
1	3290.01	0.30	30.47	1.72	1.78	2.67	8.3	13.9	26.72	2.564	13.4			
2	3290.31	0.46	31.23	1.72	1.78	2.03	13.1	13.9	26.72	2.508	13.4			
3	3290.77	0.30	33.11	2.32	2.28	4.03	13.1	13.9	12.98	2.560	13.4			
4	3291.07	0.46	33.11	2.32	2.28	3.30	13.1	18.3	12.98	2.560	13.4			
5	3291.53	0.30	33.11	2.32	2.52	2.19	13.1	18.3	12.98	2.560	14.1			
6	3291.84	0.30	33.75	2.32	2.52	2.19	13.1	18.3	33.35	2.577	14.1			
7	3292.14	0.76	32.08	1.73	1.90	2.19	13.1	14.0	33.35	2.531	13.3			
8	3292.90	0.46	35.61	2.74	3.03	2.19	13.1	14.0	12.18	2.629	13.3			
9	3293.36	0.30	32.77	3.43	3.03	5.15	8.7	14.0	12.18	2.629	13.7			
10	3293.67	0.46	31.61	3.43	3.50	5.15	8.7	14.0	9.96	2.598	13.7			
11	3294.12	0.76	32.58	3.43	3.50	15.51	7.0	14.0	33.16	2.652	13.7			
12	3294.88	0.51	32.95	0.98	0.97	1.14	20.1	14.0	27.33	2.422	13.2			
13	3295.49	0.30	32.95	0.98	0.97	1.14	20.1	14.0	19.87	2.422	13.2			
14	3295.80	0.46	32.95	1.46	1.27	2.02	20.1	14.0	19.87	2.422	13.2			
15	3296.26	0.51	30.93	1.46	1.39	2.02	11.6	14.0	13.79	2.528	13.2			
16	3296.87	0.46	30.93	1.46	1.39	2.02	11.6	14.0	20.43	2.528	13.2			
17	3297.32	0.76	35.05	1.25	1.10	1.47	19.5	14.0	20.43	2.489	13.2			
18	3298.08	0.46	33.96	1.25	1.10	1.47	18.1	14.0	20.43	2.489	13.2			
19	3298.54	0.46	33.96	0.32	0.71	0.99	18.1	14.0	15.47	2.489	13.2			
20	3299.00	0.30	31.30	0.32	0.71	0.99	21.1	14.0	15.47	2.362	13.2			
21	3299.30	0.30	31.29	0.32	0.71	0.85	21.1	14.0	15.47	2.362	12.7			
22	3299.61	0.51	32.32	0.32	0.71	0.85	23.0	14.0	12.87	2.362	12.7			
23	3300.22	0.30	32.46	0.94	0.71	1.12	19.3	14.0	32.81	2.426	12.7			
24	3300.52	0.46	35.17	0.94	0.71	0.99	22.8	14.0	32.81	2.426	12.7			
25	3300.98	0.30	35.17	0.94	0.71	0.99	22.8	14.0	19.05	2.426	12.7			
26	3301.29	0.46	33.14	0.94	0.82	1.20	19.3	14.0	18.05	2.443	12.7			
27	3301.74	0.30	33.83	1.06	0.82	1.20	19.3	14.0	16.61	2.463	12.7			
28	3302.05	0.30	32.34	1.06	0.82	1.51	17.1	14.0	23.68	2.463	12.7			
29	3302.35	0.46	35.57	0.85	0.67	0.97	21.5	14.0	23.68	2.463	12.7			
30	3302.81	0.34	33.17	0.85	0.67	0.97	21.5	14.0	16.14	2.401	12.5			
31	3303.15	0.12	33.17	0.85	0.67	0.97	21.5	14.0	16.14	2.401	12.5	0.222	0.33	2.730
32	3303.27	0.18	33.17	0.85	0.67	0.97	21.5	14.0	20.23	2.401	12.5			
33	3303.45	0.10	33.17	0.85	0.67	0.97	21.5	14.0	20.23	2.401	12.5	0.203	0.30	2.720
34	3303.55	0.17	33.17	0.85	0.67	0.97	21.5	14.0	20.23	2.401	12.5			
35	3303.72	0.13	34.15	0.85	0.80	1.07	21.5	14.0	20.23	2.426	12.5	0.206	0.35	2.710
36	3303.85	0.18	34.15	0.85	0.80	1.07	21.5	14.0	20.23	2.426	12.5			
37	3304.03	0.12	34.15	0.97	0.80	1.07	21.5	14.0	20.23	2.426	12.5	0.219	0.39	2.710

TABLE 2

TABULATION OF PROCESSED CURVES

=====

WT : 2030
 : 177
 : 9495
 : 7 2/5-7
 : 1

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT, EHCORR. LOGS
 SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

OF INTERVAL : 3290.01 M
 OF INTERVAL : 3370.00 M

TOP (M)	THICKNESS (M)	1-M LITH	140-M LL9D OHMM	141-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
3304.15	0.18	34.15	0.97	0.80	1.07	21.5	14.0	20.23	2.426	12.5			
3304.33	0.12	31.20	0.97	0.80	1.07	17.5	14.0	12.79	2.426	12.5	0.236	0.47	2.720
3304.45	0.20	31.20	0.97	0.80	1.07	17.5	14.0	12.79	2.426	12.5			
3304.65	0.10	31.20	0.97	0.80	1.07	17.5	14.0	12.79	2.426	12.5	0.234	0.47	2.720
3304.75	0.20	31.20	0.97	0.80	1.07	17.5	14.0	12.79	2.426	12.5			
3304.95	0.10	31.20	0.97	0.80	1.07	17.5	14.0	12.79	2.426	12.5	0.241	0.45	2.720
3305.05	0.20	31.20	0.97	0.80	1.07	17.5	14.0	12.79	2.426	12.5			
3305.25	0.10	32.99	0.97	0.80	1.07	20.0	14.0	22.14	2.426	12.5	0.214	0.64	2.750
3305.35	0.20	32.99	0.97	0.80	1.07	20.0	14.0	22.14	2.426	12.5			
3305.55	0.10	32.07	0.97	1.09	1.32	18.7	14.0	22.14	2.426	12.5	0.241	0.60	2.730
3305.65	0.30	32.07	0.97	1.09	1.32	18.7	14.0	22.14	2.426	12.5			
3306.01	0.40	33.66	0.97	1.09	1.32	18.7	14.0	15.10	2.468	12.5			
3306.47	0.08	33.66	1.28	1.09	1.97	18.7	14.0	15.10	2.468	12.5	0.208		2.720
3306.55	0.20	33.66	1.28	1.09	1.97	18.7	14.0	15.10	2.468	12.5			
3306.75	0.10	33.66	1.28	1.09	1.97	18.7	14.0	15.10	2.468	12.5	0.154		2.710
3306.85	0.07	33.66	1.28	1.09	1.97	18.7	14.0	15.10	2.468	12.5			
3306.92	0.13	28.90	2.08	1.09	1.97	12.8	14.0	18.73	2.468	12.5			
3307.05	0.10	28.90	2.08	1.09	1.97	12.8	14.0	18.73	2.468	12.5	0.231	0.69	2.700
3307.15	0.08	28.90	2.08	1.09	1.97	12.8	14.0	18.73	2.468	12.5			
3307.23	0.12	36.24	2.08	2.12	3.97	12.8	14.0	18.73	2.652	12.5			
3307.35	0.10	36.24	2.08	2.12	3.97	12.8	14.0	18.73	2.652	12.5	0.208		2.710
3307.45	0.08	36.24	2.08	2.12	3.97	12.8	14.0	18.73	2.652	12.5			
3307.53	0.12	36.24	2.08	2.12	3.97	12.8	14.0	18.73	2.652	12.5			
3307.65	0.10	36.24	2.08	2.12	3.97	12.8	14.0	18.73	2.652	12.9			
3307.75	0.09	36.24	2.08	2.12	3.97	12.8	14.0	18.73	2.652	12.9			
3307.84	0.11	32.02	3.21	3.03	13.05	6.2	14.0	12.98	2.652	12.9			
3307.95	0.10	32.02	3.21	3.03	13.05	6.2	14.0	12.98	2.652	12.9	0.171	0.24	2.710
3308.05	0.25	32.02	3.21	3.03	13.05	6.2	14.0	12.98	2.652	12.9			
3308.30	0.05	32.02	3.21	3.03	13.05	6.2	14.0	21.27	2.652	12.9	0.162	0.51	2.710
3308.35	0.40	32.02	3.21	3.03	13.05	6.2	14.0	21.27	2.652	12.9			
3308.75	0.30	32.67	1.42	1.46	1.54	13.0	14.0	21.27	2.549	12.9			
3309.00	0.40	33.37	1.42	1.46	2.37	13.0	14.0	13.14	2.568	12.9			
3309.51	0.40	32.81	0.90	0.97	0.81	20.7	14.0	13.14	2.407	12.9			
3309.97	0.40	31.44	2.21	2.10	7.80	5.8	14.0	13.14	2.643	12.9			
3310.43	0.51	31.44	2.21	2.10	7.80	5.8	14.0	27.00	2.643	12.9			
3311.04	0.76	33.72	0.77	0.72	0.93	21.5	14.0	17.58	2.414	12.9			
3311.80	0.30	32.61	0.77	0.72	0.75	21.5	14.0	14.45	2.386	12.9			

TABULATION OF PROCESSED CURVES

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COUNTRY : 2030
 OPCO : 177
 FIELD : 9495
 WELL : 7 2/5-7
 HOLE : 1

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
 SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

TOP OF INTERVAL : 3290.01 M
 BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	1-M LITH	140-M LL9D OHMM	141-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
75	3312.11	0.09	30.07	0.77	0.72	0.75	18.1	14.0	14.45	2.386	13.3	0.095	0.02	2.720
76	3312.20	0.01	30.07	0.77	0.72	0.75	18.1	14.0	14.45	2.386	13.3			
77	3312.41	0.30	30.07	0.77	0.72	0.75	18.1	14.0	29.27	2.386	13.3			
78	3312.72	0.08	31.57	0.77	0.72	0.75	20.2	14.0	29.27	2.386	13.3	0.093	0.03	2.720
79	3312.80	0.22	31.57	0.77	0.72	0.75	20.2	14.0	29.27	2.386	13.3			
80	3313.02	0.08	37.25	1.35	1.26	2.44	20.2	14.0	29.27	2.537	13.3	0.121	0.04	2.720
81	3313.10	0.22	37.25	1.35	1.26	2.44	20.2	14.0	29.27	2.537	13.3			
82	3313.32	0.08	33.24	1.35	1.26	2.44	14.5	14.0	20.55	2.537	13.3	0.080	0.02	2.720
83	3313.40	0.20	33.24	1.35	1.26	2.44	14.5	14.0	20.55	2.537	13.3			
84	3313.60	0.10	33.24	1.35	1.26	2.44	14.5	14.0	20.55	2.537	13.3	0.245	0.58	2.720
85	3313.70	0.08	33.24	1.35	1.26	2.44	14.5	14.0	20.55	2.537	13.3			
86	3313.78	0.12	31.56	1.15	1.14	1.57	14.5	14.0	20.55	2.491	13.7			
87	3313.90	0.10	31.56	1.15	1.14	1.57	14.5	14.0	20.55	2.491	13.7	0.229		2.730
88	3314.00	0.09	31.56	1.15	1.14	1.57	14.5	14.0	20.55	2.491	13.7			
89	3314.09	0.11	31.56	1.15	1.14	1.57	14.5	14.0	26.47	2.491	13.1			
90	3314.20	0.10	31.56	1.15	1.14	1.57	14.5	14.0	26.47	2.491	13.1	0.232	0.32	2.720
91	3314.30	0.24	31.56	1.15	1.14	1.57	14.5	14.0	26.47	2.491	13.1			
92	3314.54	0.06	37.51	2.75	2.57	1.57	14.5	14.0	15.46	2.656	13.1	0.215		2.720
93	3314.60	0.25	37.51	2.75	2.57	1.57	14.5	14.0	15.46	2.656	13.1			
94	3314.85	0.05	37.52	2.75	2.57	6.49	14.5	14.0	15.46	2.656	13.9			
95	3314.90	0.10	37.52	2.75	2.57	6.49	14.5	14.0	15.46	2.656	13.9	0.146	0.07	2.720
96	3315.00	0.15	37.52	2.75	2.57	6.49	14.5	14.0	15.46	2.656	13.9			
97	3315.15	0.15	35.69	2.75	2.57	6.49	11.6	14.0	42.34	2.656	13.9	0.163	0.13	2.720
98	3315.30	0.20	35.69	2.75	2.57	6.49	11.6	14.0	42.34	2.656	13.9			
99	3315.50	0.11	35.69	2.75	2.57	6.49	11.6	14.0	42.34	2.656	13.9	0.201	0.54	2.720
100	3315.61	0.19	33.65	1.56	1.47	1.75	16.2	14.0	21.03	2.516	13.9			
101	3315.80	0.10	33.65	1.56	1.47	1.75	16.2	14.0	21.03	2.516	13.9	0.210	0.28	2.720
102	3315.90	0.20	33.65	1.56	1.47	1.75	16.2	14.0	21.03	2.516	13.9			
103	3316.10	0.10	33.65	1.56	1.47	1.75	16.2	14.0	21.03	2.516	13.9	0.138	0.07	2.720
104	3316.20	0.17	33.65	1.56	1.47	1.75	16.2	14.0	21.03	2.516	13.9			
105	3316.37	0.13	34.12	2.20	2.07	2.93	12.5	14.0	74.88	2.599	13.9	0.172	0.17	2.720
106	3316.50	0.20	34.12	2.20	2.07	2.93	12.5	14.0	74.88	2.599	13.9			
107	3316.70	0.10	34.12	2.20	2.07	2.93	12.5	14.0	74.88	2.599	13.9	0.166	0.15	2.720
108	3316.80	0.20	34.12	2.20	2.07	2.93	12.5	14.0	74.88	2.599	13.9			
109	3317.00	0.13	34.12	2.20	2.07	2.93	12.5	14.0	74.88	2.599	13.9	0.101	0.04	2.720
110	3317.13	0.17	34.12	2.20	2.07	2.93	12.5	14.0	24.90	2.599	13.5			
111	3317.30	0.10	34.12	2.20	2.07	2.93	12.5	14.0	24.90	2.599	13.5	0.083	0.04	2.720

TABLE 3

TABULATION OF PROCESSED CURVES

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COUNTRY : 2030
 OPCO : 177
 FIELD : 9495
 WELL : 7 2/5-7
 HOLE : 1

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT,BH CORR. LOGS
 SW FROM ARCHIE USING ILD 8 RW=.027,M=2.00,N=2.00

TOP OF INTERVAL : 3290.01 M
 BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	1-M LITH	140-M LL9D OHMM	141-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
112	3317.40	0.20	34.12	2.20	2.07	2.93	12.5	14.0	24.90	2.599	13.5			
113	3317.60	0.10	34.12	2.20	2.07	2.93	12.5	14.0	24.90	2.599	13.5	0.133	0.07	2.720
114	3317.70	0.20	34.12	2.20	2.07	2.93	12.5	14.0	24.90	2.599	13.5			
115	3317.90	0.10	32.46	1.08	0.94	1.37	17.0	14.0	24.90	2.469	13.5	0.157	0.40	2.720
116	3318.00	0.20	32.46	1.08	0.94	1.37	17.0	14.0	24.90	2.469	13.5			
117	3318.20	0.10	32.46	1.08	0.94	1.37	17.0	14.0	24.90	2.469	13.5	0.154	0.16	2.720
118	3318.30	0.05	32.46	1.08	0.94	1.37	17.0	14.0	24.90	2.469	13.5			
119	3318.35	0.15	32.46	0.96	0.61	1.37	17.0	14.0	24.90	2.469	13.5	0.177	0.15	2.720
120	3318.50	0.10	32.46	0.96	0.61	1.37	17.0	14.0	24.90	2.469	13.5			
121	3318.60	0.21	32.46	0.96	0.61	1.37	17.0	14.0	24.90	2.469	13.5	0.153	0.09	2.720
122	3318.81	0.09	30.29	0.67	0.61	0.72	20.6	14.0	12.74	2.346	13.5			
123	3318.90	0.20	30.29	0.67	0.61	0.72	20.6	14.0	12.74	2.346	13.5	0.146	0.05	2.720
124	3319.10	0.10	30.29	0.67	0.61	0.72	20.6	14.0	12.74	2.346	13.5			
125	3319.20	0.07	30.29	0.67	0.61	0.72	20.6	14.0	12.74	2.346	13.5			
126	3319.27	0.13	29.60	0.61	0.46	0.72	20.6	14.0	19.41	2.335	13.5	0.123	0.03	2.720
127	3319.40	0.10	29.60	0.61	0.46	0.72	20.6	14.0	19.41	2.335	13.5			
128	3319.50	0.23	29.60	0.61	0.46	0.72	20.6	14.0	19.41	2.335	13.5	0.111	0.03	2.720
129	3319.73	0.07	31.37	0.61	0.46	0.72	22.7	14.0	19.41	2.335	13.5			
130	3319.80	0.23	31.37	0.61	0.46	0.72	22.7	14.0	19.41	2.335	13.5	0.182	0.02	2.720
131	3320.03	0.07	28.96	0.61	0.46	0.72	22.7	14.0	14.73	2.291	13.5			
132	3320.10	0.20	28.96	0.61	0.46	0.72	22.7	14.0	14.73	2.291	13.5	0.187	0.25	2.720
133	3320.30	0.10	28.96	0.61	0.46	0.72	22.7	14.0	14.73	2.291	13.5			
134	3320.40	0.24	28.96	0.61	0.46	0.72	22.7	14.0	14.73	2.291	13.5	0.189	0.12	2.720
135	3320.64	0.06	31.17	0.61	0.46	0.72	22.7	14.0	15.31	2.330	13.5			
136	3320.70	0.30	31.17	0.61	0.46	0.72	22.7	14.0	15.31	2.330	13.5	0.192	0.20	2.720
137	3321.00	0.10	31.17	0.61	0.46	0.72	22.7	14.0	15.31	2.330	13.5			
138	3321.10	0.15	31.17	0.61	0.46	0.72	22.7	14.0	15.31	2.330	13.5			
139	3321.25	0.61	32.23	0.61	0.46	0.72	24.0	14.0	15.31	2.330	13.5			
140	3321.86	0.76	31.49	0.80	0.62	1.11	18.6	14.0	14.46	2.413	13.5			
141	3322.62	0.46	32.23	0.60	0.62	0.77	22.9	14.0	15.70	2.353	13.5			
142	3323.08	0.30	32.74	0.30	0.62	1.06	21.2	14.0	15.70	2.396	13.5			
143	3323.38	0.61	31.67	0.80	0.62	0.81	21.2	14.0	13.41	2.370	13.5			
144	3323.99	0.46	31.24	1.00	0.87	1.70	15.3	14.0	16.44	2.467	13.8			
145	3324.45	0.30	33.05	1.00	0.87	0.97	20.9	14.0	13.52	2.408	13.8			
146	3324.75	0.30	36.66	1.13	0.87	2.89	20.9	14.0	19.48	2.504	13.8			
147	3325.06	0.46	32.44	1.13	0.87	2.89	15.1	14.0	12.90	2.504	13.4			
148	3325.52	0.30	31.68	0.71	0.60	0.79	21.6	14.0	12.90	2.363	13.4			

TABULATION OF PROCESSED CURVES
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COUNTRY : 2030
OPCO : 177
FIELD : 9495
WELL : 7 2/5-7
HOLE : 1

2/5-7 3290.0-3370.0 M
POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

TOP OF INTERVAL : 3290.01 M
BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	1-M LITH	140-M LL9D OHMM	141-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
149	3325.82	0.46	31.68	0.71	0.60	0.79	21.6	14.0	17.34	2.363	13.4			
150	3326.28	0.61	33.34	0.71	0.60	0.79	22.7	14.0	14.71	2.381	13.4			
151	3326.89	0.61	32.82	1.28	1.16	2.54	13.6	14.0	14.71	2.543	13.4			
152	3327.50	0.46	32.83	1.28	1.16	2.54	13.6	14.0	28.31	2.543	13.8			
153	3327.96	0.30	35.89	0.88	0.82	0.89	21.6	14.0	28.31	2.470	13.8			
154	3328.26	0.30	35.89	0.88	0.82	0.89	21.6	14.0	28.31	2.470	13.8			
155	3328.56	0.76	32.87	2.04	1.86	7.74	9.5	14.0	22.99	2.617	13.5			
156	3329.33	0.30	32.87	2.04	1.86	7.74	9.5	14.0	22.99	2.617	13.5			
157	3329.63	0.46	33.12	0.97	0.89	1.33	17.4	14.0	22.99	2.479	13.2			
158	3330.09	0.30	32.44	0.97	0.89	1.13	17.4	14.0	22.99	2.461	13.2			
159	3330.39	0.46	32.44	0.97	0.89	1.13	17.4	14.0	31.45	2.461	13.2			
160	3330.85	0.46	32.88	0.97	0.89	1.13	17.4	14.0	19.60	2.473	13.2			
161	3331.31	0.61	31.00	0.70	0.62	0.69	20.8	14.0	16.02	2.360	13.2			
162	3331.92	0.30	31.00	0.70	0.62	0.69	20.8	14.0	20.67	2.360	13.2			
163	3332.22	0.46	33.79	0.85	0.71	1.04	20.8	14.0	17.73	2.430	12.9			
164	3332.68	0.61	32.31	0.85	0.71	1.04	18.8	14.0	15.62	2.430	12.9			
165	3333.29	0.30	29.42	0.73	0.61	0.81	18.8	14.0	15.62	2.365	12.9			
166	3333.59	0.46	32.02	0.73	0.61	0.81	21.9	14.0	24.16	2.365	12.9			
167	3334.05	0.46	33.75	0.73	0.61	0.81	21.9	14.0	18.62	2.408	12.9			
168	3334.51	0.30	31.50	0.73	0.61	0.81	18.9	14.0	27.50	2.408	12.9			
169	3334.81	0.46	31.50	0.89	0.76	0.81	18.9	14.0	16.43	2.408	12.9			
170	3335.27	0.30	31.63	1.06	0.93	1.11	15.4	14.0	16.43	2.476	12.9			
171	3335.58	0.46	32.68	1.06	0.93	1.33	16.9	14.0	16.43	2.476	12.9			
172	3336.03	0.46	32.21	1.20	1.07	1.33	13.0	14.0	18.10	2.536	12.9			
173	3336.49	0.46	32.22	1.20	1.07	3.12	13.0	14.0	18.10	2.536	13.5			
174	3336.95	0.30	32.22	2.12	1.93	3.12	13.0	14.0	26.50	2.536	13.5			
175	3337.25	0.61	32.50	2.12	1.93	5.48	9.1	14.0	26.50	2.615	13.5			
176	3337.86	0.61	33.08	1.01	0.90	1.16	16.6	14.0	26.50	2.492	13.5			
177	3338.47	0.30	32.24	1.01	0.90	2.07	15.4	14.0	26.50	2.492	13.5			
178	3338.78	0.46	32.49	0.91	0.90	1.18	18.2	14.0	26.50	2.447	14.0			
179	3339.23	0.46	33.60	0.91	0.90	1.47	18.2	14.0	26.50	2.477	14.0			
180	3339.69	0.61	33.60	0.91	0.90	1.16	18.2	14.0	18.86	2.477	14.0			
181	3340.30	0.61	38.21	0.91	0.90	1.16	23.4	14.0	36.41	2.493	14.0			
182	3340.91	0.30	33.59	1.82	1.76	3.27	11.8	14.0	26.44	2.596	13.5			
183	3341.21	0.46	33.59	1.82	1.76	3.27	11.8	14.0	23.27	2.596	13.5			
184	3341.67	0.30	33.24	1.39	1.41	1.72	15.3	14.0	23.27	2.521	13.7			
185	3341.98	0.46	34.06	1.39	1.41	1.72	16.5	14.0	36.87	2.521	13.7			

TABLE 2 OF PROCESSED CORES
 =====

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
 SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

: 2030
 : 177
 : 9495
 : 7 2/5-7
 : 1

OF INTERVAL : 3290.01 M
 OF INTERVAL : 3370.00 M

TOP (M)	THICKNESS (M)	1-M LITH	14J-M LL9D OHMM	14I-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
3342.43	0.31	39.27	3.94	3.98	8.11	16.5	14.0	19.64	2.668	13.7			
3342.74	0.46	34.75	3.94	3.98	8.11	9.5	14.0	19.64	2.668	13.7			
3343.20	0.30	34.75	3.94	3.98	8.11	9.5	14.0	35.97	2.668	13.7			
3343.50	0.46	32.34	2.24	2.45	2.24	11.8	14.0	35.97	2.562	13.2			
3343.96	0.46	34.22	3.37	3.67	5.32	11.8	14.0	14.69	2.614	13.5			
3344.41	0.46	36.17	5.07	5.38	5.32	11.8	14.0	17.95	2.667	13.5			
3344.87	0.30	36.17	5.07	5.38	8.19	11.8	14.0	13.76	2.667	13.1			
3345.18	0.46	31.94	6.48	6.74	24.89	4.0	14.0	13.76	2.687	13.1			
3345.63	0.46	31.93	6.48	6.74	6.21	4.0	14.0	14.82	2.687	12.6			
3346.09	0.30	31.75	1.93	2.21	6.21	9.8	14.0	27.72	2.581	12.6			
3346.40	0.61	31.75	1.93	2.21	2.40	9.8	14.0	28.52	2.581	12.6			
3347.01	0.46	32.96	1.93	1.62	2.11	11.7	14.0	20.70	2.581	12.6			
3347.46	0.30	30.55	1.58	1.62	2.11	11.7	14.0	25.01	2.515	12.6			
3347.77	0.30	30.55	1.58	1.62	1.77	11.7	14.0	25.01	2.515	12.6			
3348.07	0.30	30.55	2.65	2.43	1.77	11.7	14.0	25.01	2.515	12.6			
3348.38	0.30	30.58	2.65	2.43	6.24	5.8	14.0	25.01	2.620	12.6			
3348.68	0.46	30.58	2.65	2.43	6.24	5.8	14.0	22.59	2.620	12.6			
3349.14	0.30	30.66	0.85	0.69	0.91	5.8	14.0	22.59	2.620	12.1			
3349.44	0.30	33.14	0.85	0.69	0.91	24.5	14.0	42.91	2.345	12.1			
3349.75	0.61	33.14	0.68	0.52	0.70	24.5	14.0	23.73	2.345	12.1			
3350.36	1.83	33.14	0.68	0.52	0.70	24.5	14.0	30.06	2.345	12.1			
3352.19	0.51	31.81	0.68	0.52	0.70	22.9	14.0	23.21	2.345	12.1			
3352.80	0.30	40.00	1.91	1.43	3.70	22.9	14.0	23.21	2.578	12.1			
3353.10	0.30	33.85	1.91	1.43	3.70	13.3	14.0	23.21	2.578	12.1			
3353.41	0.30	33.85	1.91	1.43	3.70	13.3	14.0	24.80	2.578	12.1			
3353.71	0.61	33.03	1.28	1.09	1.41	16.5	14.0	24.80	2.497	12.1			
3354.32	0.76	32.22	1.10	0.97	1.17	16.5	14.0	41.68	2.475	12.1			
3355.08	0.30	34.36	0.99	0.97	0.86	19.5	14.0	41.68	2.475	12.1			
3355.39	0.30	31.72	0.99	0.97	0.86	19.5	14.0	25.27	2.406	12.1			
3355.69	0.61	28.61	1.41	1.27	1.37	16.2	14.0	25.27	2.406	12.1			
3356.30	0.46	35.52	2.07	1.99	2.35	12.4	21.3	15.40	2.640	12.4			
3356.76	0.30	35.52	5.73	5.59	2.59	12.4	21.3	15.40	2.640	12.4			
3357.06	0.46	31.81	5.73	5.59	22.02	6.6	13.5	15.40	2.640	12.4			
3357.52	0.30	31.81	5.12	5.59	6.98	6.6	13.5	15.40	2.640	12.4			
3357.83	0.61	33.46	5.12	5.59	6.98	6.6	13.5	13.71	2.682	12.4			
3358.44	0.46	31.74	5.12	5.59	6.98	6.6	13.5	11.74	2.638	12.4			
3358.89	0.30	31.74	5.12	5.59	6.98	6.6	13.5	24.41	2.638	12.4			

TABULATION OF PROCESSED CURVES
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COUNTRY : 2030
OPCO : 177
FIELD : 9495
WELL : 7 2/5-7
HOLE : 1

2/5-7 3290.0-3370.0 M
POR FROM LDT/CNL CROSSPLOT,BHCCORR. LOGS
SW FROM ARCHIE USING ILD & RW=.027,M=2.00,N=2.00

TOP OF INTERVAL : 3290.01 M
BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	1-M LITH	140-M LL9D OHMM	141-M LL9S OHMM	153-M MSFL OHMM	310-M CNL PERC BV	330-M GR API	345-M PE	347-M LDEN G/CM3	350-M CAL INCH	800-M CPOR FRCT	801-M CPER MD	802-M CGDE G/CM3
223	3359.20	0.46	32.96	2.30	2.41	3.03	12.4	13.5	17.83	2.568	12.4			
224	3359.65	0.30	32.96	2.87	2.94	3.03	12.4	13.5	17.83	2.568	12.4			
225	3359.96	0.30	32.26	2.37	2.94	4.19	10.0	13.5	17.83	2.592	12.4			
226	3360.26	0.30	32.24	2.87	2.94	4.19	10.0	13.5	24.80	2.592	12.0			
227	3360.57	0.30	33.34	1.61	1.63	2.80	11.7	13.5	20.56	2.592	12.0			
228	3360.87	0.46	35.75	1.61	1.63	2.08	15.5	13.5	20.56	2.592	12.0			
229	3361.33	0.30	30.66	1.17	1.18	1.55	15.5	13.5	20.56	2.453	12.0			
230	3361.64	0.46	32.78	1.17	1.18	1.55	18.5	13.5	21.55	2.453	12.0			
231	3362.09	0.30	32.78	1.17	1.18	1.21	18.5	13.5	21.55	2.453	12.0			
232	3362.40	0.61	32.78	1.52	1.47	2.18	18.5	13.5	30.38	2.453	12.0			
233	3363.01	0.61	35.12	1.52	1.47	1.72	15.0	13.5	30.38	2.583	12.0			
234	3363.62	0.46	34.15	2.33	2.18	2.82	13.5	13.5	16.72	2.583	12.0			
235	3364.07	0.46	33.23	2.33	2.18	3.46	12.1	13.5	26.25	2.583	12.0			
236	3364.53	0.30	33.23	2.33	2.18	2.60	12.1	13.5	26.25	2.583	12.0			
237	3364.84	0.30	34.17	2.76	2.59	4.08	12.1	13.5	26.25	2.609	12.0			
238	3365.14	0.30	32.85	2.76	2.59	4.08	10.0	13.5	26.25	2.609	12.0			
239	3365.45	0.46	32.85	2.76	2.59	2.12	10.0	13.5	22.23	2.609	12.0			
240	3365.90	0.61	30.69	1.04	0.93	2.12	16.2	13.5	18.21	2.441	12.0			
241	3366.51	0.30	33.56	1.04	0.93	1.30	20.2	13.5	18.21	2.441	12.0			
242	3366.82	0.61	32.87	1.04	1.04	1.30	15.5	13.5	23.39	2.512	12.0			
243	3367.43	0.30	26.79	0.74	0.69	0.96	15.5	13.5	23.39	2.397	12.0			
244	3367.73	0.30	33.07	0.74	0.69	0.96	21.9	13.5	23.39	2.397	12.0			
245	3368.04	0.30	31.66	0.74	0.69	0.96	21.9	13.5	22.19	2.362	12.0			
246	3368.34	0.30	31.66	0.74	0.69	0.77	21.9	13.5	22.19	2.362	12.0			
247	3368.65	0.30	35.54	0.74	0.69	0.77	24.1	13.5	21.30	2.415	12.0			
248	3368.95	0.30	32.87	0.74	0.69	1.12	20.7	13.5	21.30	2.415	12.0			
249	3369.26	0.46	32.87	0.74	0.69	0.99	20.7	13.5	25.17	2.415	12.0			
250	3369.71	0.30	33.90	1.21	1.12	0.99	22.0	13.5	25.17	2.415	12.0			

TABULATION OF PROCESSED CURVES
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2/5-7 3290.0-3370.0 M
POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

COUNTRY : 2030
OPCO : 177
FIELD : 9495
WELL : 7 2/5-7
HOLE : 1

TOP OF INTERVAL : 3290.01 M
BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	2-C SH FRCT PV	3-C POR FRCT BV	5-C RTRU OHMM	8-C RWA OHMM	12-C TRDE G/CM3	15-C DINV INCH	23-C RXO OHMM	43-C TRCN PERC BV	61-C LLSB OHMM	62-C LLDB OHMM
1	3290.01	0.30	-0.302	0.092	1.89		2.588	8.00	1.89	9.5	2.12	1.89
2	3290.31	0.46	0.095	0.132	1.89		2.531	8.00	1.41	14.2	2.12	1.89
3	3290.77	0.30	0.124	0.117	2.57		2.583	8.00	2.97	14.2	2.72	2.57
4	3291.07	0.46	0.124	0.117	2.57		2.583	8.00	2.38	14.2	2.72	2.57
5	3291.53	0.30	0.127	0.117	2.59		2.583	8.00	1.53	14.2	3.06	2.59
6	3291.84	0.30	0.088	0.112	2.59		2.583	8.00	1.53	14.2	3.06	2.59
7	3292.14	0.76	0.048	0.125	1.90		2.601	8.00	1.53	14.2	2.26	1.90
8	3292.90	0.46	0.034	0.098	3.03		2.554	8.00	1.53	14.2	2.26	1.90
9	3293.36	0.30	-0.144	0.074	3.82		2.653	8.00	1.53	14.2	3.59	3.03
10	3293.67	0.46	-0.027	0.082	3.82		2.653	8.00	3.89	9.4	3.62	3.82
11	3294.12	0.76	-0.586	0.058	3.18		2.621	8.00	3.89	9.4	4.18	3.82
12	3294.88	0.61	0.185	0.196	1.05		2.677	11.68	13.30	7.6	4.18	3.82
13	3295.49	0.30	0.185	0.196	1.05		2.444	8.00	0.77	21.8	1.15	1.05
14	3295.80	0.46	0.338	0.196	1.60		2.444	8.00	0.77	21.8	1.15	1.05
15	3296.26	0.61	-0.102	0.118	1.60		2.444	8.00	1.40	21.8	1.51	1.60
16	3296.87	0.46	-0.102	0.118	1.60		2.551	8.00	1.40	12.6	1.65	1.60
17	3297.32	0.76	0.209	0.174	1.43		2.551	8.00	1.40	12.6	1.65	1.60
18	3298.08	0.46	0.169	0.165	1.43		2.512	21.01	1.00	21.1	1.31	1.36
19	3298.54	0.46	-0.028	0.165	0.94		2.512	21.01	1.00	19.5	1.31	1.36
20	3299.00	0.30	0.225	0.219	0.94		2.512	25.36	0.66	19.5	0.83	0.88
21	3299.30	0.30	0.228	0.219	0.94		2.384	25.36	0.66	22.8	0.83	0.88
22	3299.61	0.61	0.266	0.230	0.94		2.384	22.69	0.56	22.8	0.82	0.87
23	3300.22	0.30	0.213	0.190	1.21		2.384	22.69	0.56	24.9	0.82	0.87
24	3300.52	0.46	0.282	0.210	1.18	0.044	2.449	71.38	0.75	20.8	0.82	1.00
25	3300.98	0.30	0.282	0.210	1.18	0.052	2.449	45.34	0.66	24.6	0.82	1.00
26	3301.29	0.46	0.140	0.185	1.06	0.036	2.449	45.34	0.66	24.6	0.82	1.00
27	3301.74	0.30	0.207	0.180	1.33	0.043	2.466	29.58	0.81	20.8	0.95	1.00
28	3302.05	0.30	0.080	0.168	1.14	0.032	2.486	49.41	0.81	20.8	0.95	1.00
29	3302.35	0.46	0.155	0.192	1.02	0.038	2.486	120.00	1.03	18.5	0.95	1.14
30	3302.81	0.34	0.229	0.210	1.03	0.045	2.486	41.41	0.65	23.2	0.77	0.90
31	3303.15	0.12	0.229	0.210	1.03	0.045	2.423	43.02	0.65	23.2	0.77	0.90
32	3303.27	0.18	0.229	0.210	1.03	0.045	2.423	43.02	0.65	23.2	0.77	0.90
33	3303.45	0.10	0.229	0.210	1.03	0.045	2.423	43.02	0.65	23.2	0.77	0.90
34	3303.55	0.17	0.229	0.210	1.03	0.045	2.423	43.02	0.65	23.2	0.77	0.90
35	3303.72	0.13	0.145	0.203	0.90	0.037	2.423	43.02	0.65	23.2	0.77	0.90
36	3303.85	0.18	0.145	0.203	0.90	0.037	2.448	8.00	0.72	23.2	0.92	0.90
37	3304.03	0.12	0.250	0.203	1.16	0.048	2.448	8.00	0.72	23.2	0.92	0.90
							2.448	33.49	0.72	23.2	0.92	1.04

TAB 5

Y : 2030
 : 177
 : 9495
 : 7 2/5-7
 : 1

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
 SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

OF INTERVAL : 3290.01 M
 OF INTERVAL : 3370.00 M

TOP (M)	THICKNESS (M)	2-C SH FRCT PV	3-C POR FRCT BV	5-C RTRU OHMM	8-C RWA OHMM	12-C TRDE G/CM3	15-C DINV INCH	23-C RXO OHMM	43-C TRCN PERC BV	61-C LLSB OHMM	62-C LLDB OHMM
3312.11	0.09	0.070	0.196	0.82	0.031	2.408	8.00	0.50	19.6	0.85	0.82
3312.20	0.21	0.070	0.196	0.82	0.031	2.408	8.00	0.50	19.6	0.85	0.82
3312.41	0.30	0.070	0.196	0.82	0.031	2.408	8.00	0.50	19.6	0.85	0.82
3312.72	0.08	0.121	0.207	0.82	0.035	2.408	8.00	0.50	21.8	0.85	0.82
3312.80	0.22	0.121	0.207	0.82	0.035	2.408	8.00	0.50	21.8	0.85	0.82
3313.02	0.08	0.163	0.163	1.47	0.039	2.560	8.00	1.71	21.8	1.50	1.47
3313.10	0.22	0.163	0.163	1.47	0.039	2.560	8.00	1.71	21.8	1.50	1.47
3313.32	0.08	-0.031	0.131	1.47	0.025	2.560	8.00	1.71	15.7	1.50	1.47
3313.40	0.20	-0.031	0.131	1.47	0.025	2.560	8.00	1.71	15.7	1.50	1.47
3313.60	0.10	-0.031	0.131	1.47	0.025	2.560	8.00	1.71	15.7	1.50	1.47
3313.70	0.08	-0.031	0.131	1.47	0.025	2.560	8.00	1.71	15.7	1.50	1.47
3313.78	0.12	-0.014	0.145	1.26	0.026	2.514	8.00	1.08	15.7	1.38	1.26
3313.90	0.10	-0.014	0.145	1.26	0.026	2.514	8.00	1.08	15.7	1.38	1.26
3314.00	0.09	-0.014	0.145	1.26	0.026	2.514	8.00	1.08	15.7	1.38	1.26
3314.09	0.11	-0.017	0.145	1.25	0.026	2.514	8.00	1.08	15.7	1.35	1.25
3314.20	0.10	-0.017	0.145	1.25	0.026	2.514	8.00	1.08	15.7	1.35	1.25
3314.30	0.24	-0.017	0.145	1.25	0.026	2.514	8.00	1.08	15.7	1.35	1.25
3314.54	0.06	0.044	0.098	3.09	0.030	2.680	8.73	1.08	15.7	3.02	3.05
3314.60	0.25	0.044	0.098	3.09	0.030	2.680	8.73	1.08	15.7	3.02	3.05
3314.85	0.05	0.032	0.098	3.02	0.029	2.680	9.02	5.05	15.7	3.11	3.07
3314.90	0.10	0.032	0.098	3.02	0.029	2.680	9.02	5.05	15.7	3.11	3.07
3315.00	0.15	0.032	0.098	3.02	0.029	2.680	9.02	5.05	15.7	3.11	3.07
3315.15	0.15	-0.145	0.083	3.02	0.021	2.680	9.02	5.05	12.6	3.11	3.07
3315.30	0.20	-0.145	0.083	3.02	0.021	2.680	9.02	5.05	12.6	3.11	3.07
3315.50	0.11	-0.145	0.083	3.02	0.021	2.680	9.02	5.05	12.6	3.11	3.07
3315.61	0.19	0.149	0.147	1.72	0.037	2.539	8.00	1.20	17.6	1.78	1.72
3315.80	0.10	0.149	0.147	1.72	0.037	2.539	8.00	1.20	17.6	1.78	1.72
3315.90	0.20	0.149	0.147	1.72	0.037	2.539	8.00	1.20	17.6	1.78	1.72
3316.10	0.10	0.149	0.147	1.72	0.037	2.539	8.00	1.20	17.6	1.78	1.72
3316.20	0.17	0.149	0.147	1.72	0.037	2.539	8.00	1.20	17.6	1.78	1.72
3316.37	0.13	-0.025	0.103	2.44	0.026	2.623	8.00	2.10	13.5	2.52	2.44
3316.50	0.20	-0.025	0.103	2.44	0.026	2.623	8.00	2.10	13.5	2.52	2.44
3316.70	0.10	-0.025	0.103	2.44	0.026	2.623	8.00	2.10	13.5	2.52	2.44
3316.80	0.20	-0.025	0.103	2.44	0.026	2.623	8.00	2.10	13.5	2.52	2.44
3317.00	0.13	-0.025	0.103	2.44	0.026	2.623	8.00	2.10	13.5	2.52	2.44
3317.13	0.17	-0.028	0.103	2.43	0.026	2.623	8.00	2.10	13.5	2.48	2.43
3317.30	0.10	-0.028	0.103	2.43	0.026	2.623	8.00	2.10	13.5	2.48	2.43

TABULATION OF PROCESSED CURVES
=====

COUNTRY : 2030
OPCO : 177
FIELD : 9495
WELL : 7 2/5-7
HOLE : 1

2/5-7 3290.0-3370.0 M
POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

TOP OF INTERVAL : 3290.01 M
BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	2-C SH FRCT PV	3-C POR FRCT BV	5-C RTRU OHMM	8-C RWA OHMM	12-C TRDE G/CM3	15-C DINV INCH	23-C RXO OHMM	43-C TRCN PERC BV	61-C LLSB OHMM	62-C LLOB CHMM
112	3317.40	0.20	-0.028	0.103	2.43	0.026	2.623	8.00	2.10	13.5	2.48	2.43
113	3317.60	0.10	-0.028	0.103	2.43	0.026	2.623	8.00	2.10	13.5	2.48	2.43
114	3317.70	0.20	-0.028	0.103	2.43	0.026	2.623	8.00	2.10	13.5	2.48	2.43
115	3317.90	0.10	0.106	0.165	1.24	0.034	2.492	25.03	0.93	18.4	1.12	1.17
116	3318.00	0.20	0.106	0.165	1.24	0.034	2.492	25.03	0.93	18.4	1.12	1.17
117	3318.20	0.10	0.106	0.165	1.24	0.034	2.492	25.03	0.93	18.4	1.12	1.17
118	3318.30	0.05	0.106	0.165	1.24	0.034	2.492	25.03	0.93	18.4	1.12	1.17
119	3318.35	0.15	-0.041	0.165	0.91	0.025	2.492	8.00	0.93	18.4	0.72	0.91
120	3318.50	0.10	-0.041	0.165	0.91	0.025	2.492	8.00	0.93	18.4	0.72	0.91
121	3318.60	0.21	-0.041	0.165	0.91	0.025	2.492	8.00	0.93	18.4	0.72	0.91
122	3318.81	0.09	0.117	0.221	0.71	0.035	2.368	8.00	0.48	22.3	0.72	0.71
123	3318.90	0.20	0.117	0.221	0.71	0.035	2.368	8.00	0.48	22.3	0.72	0.71
124	3319.10	0.10	0.117	0.221	0.71	0.035	2.368	8.00	0.48	22.3	0.72	0.71
125	3319.20	0.07	0.117	0.221	0.71	0.035	2.368	8.00	0.48	22.3	0.72	0.71
126	3319.27	0.13	0.152	0.225	0.74	0.038	2.356	52.00	0.48	22.3	0.54	0.64
127	3319.40	0.10	0.152	0.225	0.74	0.038	2.356	52.00	0.48	22.3	0.54	0.64
128	3319.50	0.23	0.152	0.225	0.74	0.038	2.356	52.00	0.48	22.3	0.54	0.64
129	3319.73	0.07	0.192	0.236	0.74	0.041	2.356	52.00	0.48	24.5	0.54	0.64
130	3319.80	0.23	0.192	0.236	0.74	0.041	2.356	52.00	0.48	24.5	0.54	0.64
131	3320.03	0.07	0.235	0.250	0.74	0.046	2.312	52.00	0.48	24.5	0.54	0.64
132	3320.10	0.20	0.235	0.250	0.74	0.046	2.312	52.00	0.48	24.5	0.54	0.64
133	3320.30	0.10	0.235	0.250	0.74	0.046	2.312	52.00	0.48	24.5	0.54	0.64
134	3320.40	0.24	0.235	0.250	0.74	0.046	2.312	52.00	0.48	24.5	0.54	0.64
135	3320.64	0.06	0.197	0.238	0.74	0.042	2.352	52.00	0.48	24.5	0.54	0.64
136	3320.70	0.30	0.197	0.238	0.74	0.042	2.352	52.00	0.48	24.5	0.54	0.64
137	3321.00	0.10	0.197	0.238	0.74	0.042	2.352	52.00	0.48	24.5	0.54	0.64
138	3321.10	0.15	0.197	0.238	0.74	0.042	2.352	52.00	0.48	24.5	0.54	0.64
139	3321.25	0.61	0.222	0.245	0.74	0.045	2.352	52.00	0.48	26.0	0.54	0.64
140	3321.86	0.76	0.068	0.190	0.86	0.031	2.435	8.00	0.75	20.1	0.74	0.86
141	3322.62	0.46	0.285	0.232	0.98	0.053	2.374	31.60	0.51	24.7	0.74	0.86
142	3323.08	0.30	0.219	0.210	1.01	0.044	2.419	96.74	0.71	22.9	0.74	0.86
143	3323.38	0.61	0.236	0.217	0.98	0.046	2.392	33.63	0.54	22.9	0.74	0.86
144	3323.99	0.46	-0.007	0.157	1.09	0.027	2.490	8.00	1.17	16.6	1.05	1.09
145	3324.45	0.30	0.250	0.205	1.14	0.048	2.431	15.35	0.65	22.7	1.05	1.09
146	3324.75	0.30	0.165	0.177	1.23	0.039	2.527	8.00	2.06	22.7	1.05	1.23
147	3325.06	0.46	-0.027	0.144	1.23	0.026	2.527	8.00	2.06	16.3	1.04	1.23
148	3325.52	0.30	0.177	0.222	0.81	0.040	2.385	23.59	0.53	23.3	0.71	0.75

TABULATION OF PROCESSED CURVES

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COUNTRY : 2030
 OPCO : 177
 FIELD : 9495
 WELL : 7 2/5-7
 HOLE : 1

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
 SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

TOP OF INTERVAL : 3290.01 M
 BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	2-C SH FRCT PV	3-C POR FRCT BV	5-C RTRU OHMM	8-C RWA OHMM	12-C TRDE G/CM3	15-C DINV INCH	23-C RXO OHMM	43-C TRCN PERC BV	61-C LLSB OHMM	62-C LLDB OHMM
149	3325.82	0.46	0.177	0.222	0.81	0.040	2.385	23.59	0.53	23.3	0.71	0.75
150	3326.28	0.61	0.182	0.223	0.81	0.040	2.403	23.59	0.53	24.6	0.71	0.75
151	3326.89	0.61	-0.118	0.124	1.39	0.022	2.566	8.00	1.80	14.7	1.38	1.39
152	3327.50	0.46	-0.120	0.124	1.39	0.022	2.566	8.59	1.80	14.7	1.40	1.40
153	3327.96	0.30	0.112	0.191	0.94	0.034	2.492	8.00	0.59	23.4	0.98	0.94
154	3328.26	0.30	0.110	0.191	0.94	0.034	2.492	8.00	0.59	23.3	0.97	0.94
155	3328.56	0.76	-0.345	0.031	2.25	0.015	2.641	8.00	6.16	10.3	2.23	2.25
156	3329.33	0.30	-0.347	0.031	2.25	0.015	2.641	8.00	6.16	10.3	2.21	2.25
157	3329.63	0.46	0.019	0.164	1.04	0.028	2.502	8.00	0.90	18.8	1.05	1.04
158	3330.09	0.30	0.050	0.170	1.04	0.030	2.484	8.00	0.76	18.8	1.05	1.04
159	3330.39	0.46	0.050	0.170	1.04	0.030	2.484	8.00	0.76	18.8	1.05	1.04
160	3330.85	0.46	0.030	0.166	1.04	0.029	2.495	8.00	0.76	18.8	1.05	1.04
161	3331.31	0.61	0.140	0.218	0.77	0.036	2.382	13.56	0.45	22.5	0.72	0.74
162	3331.92	0.30	0.140	0.218	0.77	0.036	2.382	13.56	0.45	22.5	0.72	0.74
163	3332.22	0.46	0.165	0.198	0.99	0.039	2.453	34.22	0.70	22.5	0.83	0.91
164	3332.68	0.61	0.115	0.187	0.99	0.034	2.453	34.22	0.70	20.4	0.83	0.91
165	3333.29	0.30	0.131	0.206	0.84	0.036	2.387	28.46	0.54	20.4	0.71	0.77
166	3333.59	0.46	0.197	0.223	0.84	0.042	2.387	28.46	0.54	23.7	0.71	0.77
167	3334.05	0.46	0.149	0.210	0.84	0.037	2.431	28.46	0.54	23.7	0.71	0.77
168	3334.51	0.30	0.075	0.193	0.84	0.032	2.431	28.46	0.54	20.4	0.71	0.77
169	3334.81	0.46	0.160	0.193	1.02	0.038	2.431	20.35	0.54	20.4	0.88	0.94
170	3335.27	0.30	0.031	0.154	1.21	0.029	2.499	19.22	0.75	16.7	1.09	1.14
171	3335.58	0.46	0.077	0.163	1.20	0.032	2.499	24.65	0.90	18.3	1.09	1.14
172	3336.03	0.46	-0.145	0.124	1.34	0.021	2.559	16.24	0.90	14.1	1.26	1.29
173	3336.49	0.46	-0.164	0.124	1.30	0.020	2.559	8.00	2.24	14.1	1.29	1.30
174	3336.95	0.30	0.134	0.124	2.35	0.036	2.559	8.00	2.24	14.1	2.31	2.35
175	3337.25	0.61	-0.351	0.079	2.35	0.015	2.639	8.00	4.17	9.8	2.31	2.35
176	3337.86	0.61	0.010	0.156	1.13	0.028	2.515	14.46	0.78	18.0	1.07	1.09
177	3338.47	0.30	-0.051	0.150	1.09	0.024	2.515	8.00	1.44	16.7	1.07	1.09
178	3338.78	0.46	0.067	0.178	0.98	0.031	2.470	8.00	0.80	19.7	1.09	0.98
179	3339.23	0.46	0.019	0.169	0.98	0.028	2.500	8.00	1.00	19.7	1.09	0.98
180	3339.69	0.61	0.019	0.169	0.98	0.028	2.500	8.00	0.78	19.7	1.09	0.98
181	3340.30	0.61	0.146	0.194	0.98	0.037	2.516	8.00	0.78	25.4	1.09	0.98
182	3340.91	0.30	-0.160	0.100	2.01	0.020	2.619	8.00	2.36	12.8	2.11	2.01
183	3341.21	0.46	-0.160	0.100	2.01	0.020	2.619	8.00	2.36	12.8	2.11	2.01
184	3341.67	0.30	0.052	0.140	1.52	0.030	2.545	8.00	1.18	16.6	1.70	1.52
185	3341.98	0.46	0.095	0.147	1.52	0.033	2.545	8.00	1.18	17.9	1.70	1.52

TABULATION OF PROCESSED CURVES
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2/5-7 3290.0-3370.0 M
POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

COUNTRY : 2030
OPCO : 177
FIELD : 9495
WELL : 7 2/5-7
HOLE : 1

TOP OF INTERVAL : 3290.01 M
BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	2-C SH FRCT PV	3-C POR FRCT BV	5-C RTRU OHMM	8-C RWA OHMM	12-C TRDE G/CM3	15-C DINV INCH	23-C RXO OHMM	43-C TRCN PERC BV	61-C LLSB OHMM	62-C LLDB OHMM
186	3342.43	0.31	0.228	0.105	4.09	0.045	2.692	16.93	6.49	17.9	4.74	4.39
187	3342.74	0.46	-0.194	0.068	4.09	0.019	2.692	16.93	6.49	10.3	4.74	4.39
188	3343.20	0.30	-0.194	0.068	4.09	0.019	2.692	16.93	6.49	10.3	4.74	4.39
189	3343.50	0.46	0.042	0.109	2.48	0.029	2.586	8.00	1.57	12.8	2.90	2.48
190	3343.96	0.46	0.102	0.094	3.75	0.033	2.638	8.00	4.04	12.8	4.37	3.75
191	3344.41	0.46	0.138	0.080	5.62	0.036	2.692	8.00	4.04	12.8	6.35	5.62
192	3344.87	0.30	0.136	0.080	5.60	0.036	2.692	8.00	6.56	12.8	6.28	5.60
193	3345.18	0.46	-1.072	0.032	6.06	0.006	2.711	12.19	21.54	4.3	7.83	7.13
194	3345.63	0.46	-0.917	0.032	7.09	0.007	2.711	8.00	4.80	4.3	7.74	7.09
195	3346.09	0.30	-0.379	0.093	1.65	0.014	2.605	18.77	4.80	10.7	2.56	2.11
196	3346.40	0.61	-0.219	0.093	2.11	0.018	2.605	8.00	1.68	10.7	2.56	2.11
197	3347.01	0.46	-0.041	0.103	2.34	0.025	2.605	32.38	1.47	12.7	1.88	2.11
198	3347.46	0.30	-0.026	0.122	1.71	0.026	2.538	8.00	1.47	12.7	1.88	1.71
199	3347.77	0.30	-0.026	0.122	1.71	0.026	2.538	8.00	1.22	12.7	1.88	1.71
200	3348.07	0.30	0.227	0.122	3.02	0.045	2.538	11.66	1.22	12.7	2.82	2.91
201	3348.38	0.30	-0.628	0.059	2.91	0.010	2.644	8.00	4.83	6.3	2.82	2.91
202	3348.68	0.46	-0.628	0.059	2.91	0.010	2.644	8.00	4.83	6.3	2.82	2.91
203	3349.14	0.30	-1.726	0.060	1.01	0.004	2.644	40.25	0.66	6.5	0.79	0.90
204	3349.44	0.30	0.326	0.243	1.01	0.060	2.367	40.25	0.66	26.3	0.79	0.90
205	3349.75	0.61	0.254	0.243	0.82	0.048	2.367	48.18	0.50	26.3	0.59	0.70
206	3350.36	1.83	0.254	0.243	0.82	0.048	2.367	48.18	0.50	26.3	0.59	0.70
207	3352.19	0.61	0.223	0.233	0.82	0.045	2.367	48.18	0.50	24.5	0.59	0.70
208	3352.80	0.30	0.308	0.165	2.08	0.056	2.602	8.00	2.97	24.5	1.64	2.08
209	3353.10	0.30	-0.014	0.112	2.08	0.026	2.602	8.00	2.97	14.3	1.64	2.08
210	3353.41	0.30	-0.014	0.112	2.08	0.026	2.602	8.00	2.97	14.3	1.64	2.08
211	3353.71	0.61	0.127	0.153	1.52	0.035	2.520	35.81	1.05	17.6	1.25	1.38
212	3354.32	0.76	0.078	0.159	1.25	0.032	2.498	24.91	0.86	17.6	1.10	1.17
213	3355.08	0.30	0.092	0.176	1.06	0.033	2.498	8.00	0.62	20.9	1.10	1.06
214	3355.39	0.30	0.186	0.196	1.06	0.041	2.429	8.00	0.62	20.9	1.10	1.06
215	3355.69	0.61	0.278	0.179	1.62	0.052	2.429	20.41	1.02	17.3	1.45	1.52
216	3356.30	0.46	-0.205	0.091	2.26	0.019	2.664	8.00	1.65	13.4	2.30	2.26
217	3356.76	0.30	0.277	0.091	6.27	0.052	2.664	8.00	1.83	13.4	6.41	6.27
218	3357.06	0.46	-0.151	0.059	5.91	0.020	2.664	9.00	19.05	7.2	6.41	6.27
219	3357.52	0.30	-0.182	0.059	5.61	0.019	2.664	8.00	5.48	7.2	6.41	5.61
220	3357.83	0.61	-0.432	0.048	5.61	0.013	2.707	8.00	5.48	7.2	6.41	5.61
221	3358.44	0.46	-0.173	0.059	5.61	0.020	2.662	8.00	5.48	7.2	6.41	5.61
222	3358.89	0.30	-0.173	0.059	5.61	0.020	2.662	8.00	5.48	7.2	6.41	5.61

TABULATION OF PROCESSED CURVES

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COUNTRY : 2030
 OPCO : 177
 FIELD : 9495
 WELL : 7 2/5-7
 HOLE : 1

2/5-7 3290.0-3370.0 M
 POR FROM LDT/CNL CROSSPLOT, BHCORR. LOGS
 SW FROM ARCHIE USING ILD & RW=.027, M=2.00, N=2.00

TOP OF INTERVAL : 3290.01 M
 BOTTOM OF INTERVAL : 3370.00 M

LAYER NUMBER	TOP (M)	THICKNESS (M)	2-C SH FRCT PV	3-C POR FRCT BV	5-C RTRU OHMM	8-C RWA OHMM	12-C TRDE G/CM3	15-C DINV INCH	23-C RXO OHMM	43-C TRCN PERC BV	61-C LLSB OHMM	62-C LLDB OHMM
223	3359.20	0.46	0.065	0.111	2.52	0.031	2.592	8.00	2.17	13.4	2.79	2.52
224	3359.65	0.30	0.164	0.111	3.15	0.039	2.592	8.00	2.17	13.4	3.39	3.15
225	3359.96	0.30	-0.021	0.091	3.15	0.026	2.616	8.00	3.10	10.8	3.39	3.15
226	3360.26	0.30	-0.024	0.090	3.15	0.026	2.616	8.00	3.54	10.8	3.38	3.15
227	3360.57	0.30	-0.282	0.100	1.65	0.016	2.616	19.80	2.28	12.6	1.87	1.75
228	3360.87	0.46	-0.039	0.120	1.75	0.025	2.616	8.00	1.65	16.5	1.87	1.75
229	3361.33	0.30	0.084	0.160	1.25	0.032	2.475	8.00	1.21	16.5	1.35	1.25
230	3361.64	0.46	0.171	0.177	1.25	0.039	2.475	8.00	1.21	19.8	1.35	1.25
231	3362.09	0.30	0.171	0.177	1.25	0.039	2.475	8.00	0.93	19.8	1.35	1.25
232	3362.40	0.61	0.276	0.177	1.65	0.052	2.475	8.00	1.74	19.8	1.68	1.65
233	3363.01	0.61	-0.070	0.120	1.65	0.024	2.607	8.00	1.35	16.1	1.68	1.65
234	3363.62	0.46	0.079	0.112	2.54	0.032	2.607	8.00	2.30	14.5	2.50	2.54
235	3364.07	0.46	0.011	0.104	2.54	0.028	2.607	8.00	2.88	13.0	2.50	2.54
236	3364.53	0.30	0.024	0.104	2.61	0.028	2.607	17.86	2.10	13.0	2.50	2.54
237	3364.84	0.30	0.025	0.097	3.02	0.028	2.633	8.00	3.44	13.0	2.98	3.02
238	3365.14	0.30	-0.103	0.086	3.02	0.022	2.633	8.00	3.44	10.8	2.98	3.02
239	3365.45	0.46	-0.090	0.086	3.09	0.023	2.633	10.70	1.69	10.8	2.98	3.02
240	3365.90	0.61	0.070	0.167	1.11	0.031	2.464	8.00	1.69	17.3	1.06	1.11
241	3366.51	0.30	0.179	0.190	1.11	0.040	2.464	8.00	1.00	21.6	1.06	1.11
242	3366.82	0.61	-0.088	0.143	1.11	0.023	2.535	8.00	1.00	16.6	1.19	1.11
243	3367.43	0.30	-0.043	0.179	0.78	0.025	2.419	8.00	0.73	16.6	0.78	0.78
244	3367.73	0.30	0.119	0.212	0.78	0.035	2.419	8.00	0.73	23.3	0.78	0.78
245	3368.04	0.30	0.159	0.222	0.78	0.038	2.384	8.00	0.73	23.3	0.78	0.78
246	3368.34	0.30	0.159	0.222	0.78	0.038	2.384	8.00	0.58	23.3	0.78	0.78
247	3368.65	0.30	0.150	0.220	0.78	0.037	2.437	8.00	0.58	25.7	0.78	0.78
248	3368.95	0.30	0.067	0.200	0.78	0.031	2.437	8.00	0.86	22.0	0.78	0.78
249	3369.26	0.46	0.067	0.200	0.78	0.031	2.437	8.00	0.76	22.0	0.78	0.78
250	3369.71	0.30	0.317	0.208	1.34	0.058	2.437	11.93	0.76	23.5	1.28	1.30

WELL: 2/5-7

RFT data

RT = 36. m MSL, Vertical well.

Run 1 : 7-10-83 , mud wt = 1.665 kg/m³
 max temp= 219 DF at 3513 m
 gauge = 59764

RUN Nr.	TEST Nr.	TEST DEPTH m AH BDF	MUD PRESS. PM psig	FLOWING PRESSURE		FINAL SHUT IN PS psig	FLOWING TIME		PRESSURE CORRECTION		Remarks k= 5660 $\frac{q u}{p - p_f}$ (mD) $\mu = 0.5 cP$	CORR. FORMATION PRESSURE P psig
				PF1 psig	PF2 psig		T1 sec.	T2 sec.	MUD DPM psi	SHUT IN DPS psi		
1	1	3216.7	7631	10	18	-	-	-	-18	-	T	-
	2	3236.5	7694	-	-	-	-	-	-18	-	SF	-
	3	3245.7	7690	-	-	-	-	-	-18	-	SF	-
	4	3267.0	7737	-	-	-	-	-	-18	-	SF	-
	5	3285.4	7776	-	-	-	-	-	-18	-	SF	-
	6	3216.7	7600	5	25	-	-	-	-18	-	BT Repeat of nr. 1	-
	7	3299.8	7804	3780	900	7160	14.4	7.2	-18	-17	k1=0.6; k2 = .6	7143
	8	3312.3	7827	85	80	7168	14.4	14.4	-18	-17	k1=0.3; k2 =0.3	7151
	9	3320.0	7854	5500	3990	7165	14.4	7.2	-18	-17	k1=1.2; k2 = 1.2	7148
	10	3333.8	7884	4100	1550	7179	14.4	7.2	-18	-17	k1=0.6; k2 = 0.7	7162
	11	3351.5	7924	4140	3220	7198	15.0	5.4	-18	-17	k1=0.6; k2 = 1.3	7181
	12	3383.2	7996	5260	4370	7133	16.8	6.0	-18	-17	k1=0.9; k2 = 1.7	7116
	13	3427.0	8093	500	500	7211	14.0	15.0	-18	-17	k1=0.3; k2 = 0.3	7194
	14	3447.5	8143	30	30	7342	17.0	17.0	-19	-17	k1=0.2; k2 = 0.2	7325
	15	3512.8	8277	2	140	7619	66.0	144.0	-20	-18	Building-up slowly low k	7602
	16	3409.5	8069	-	-	-	-	-	-19	-17	SF	-
	17	3409.0	8064	3230	800	7188	14.4	7.2	-19	-17	k1=0.5; k2 = 0.6	7171
	18	3320.0	7859	5250	3550	7173	15.0	6.0	-18	-17	k1=1.0; k2 = 1.31	7156
				550		7163	150.0		-18		1 gallon	
			7858	3060		7582	156.0		-18	-17	1 gallon + BU	
			7852	4200	2150	7155	15.0	6.0	-18	-17	-k1=0.6; k2=0.9	7138
				50				228.0	-18	-17	2 3/4 Gallon, No PBU	
	19	3320.0	7850	3350	700	7161	14.4	7.0	-18	-17	k1=0.5; k2=0.6	7144
				60				465.0	-18	-17	2 3/4 gallon no PBU	
	20	3321.0	7874	5350	2500	7168	14.4	7.0	-18	-17	k1=1.1; k2=0.9	7151
				70				249.0	-18	-17	2 3/4 gallon PBU starts very slowly	

Recovery: 1 Gallon
 3 ltr mud
 Cl = 34000 ppm
 Ca = 80 ppm
 ph = 9.2

3 3/4 Gallon
 55 ltr filtrate
 33 000
 60
 9.2

TABLE 3

WELL: 2/5-7

RT = 36.0 m MSL, Vertical well

RFT data

Run 2: 24-10-'83

mud wt. = 1.67

max. temp. = -

gauge = 51336;

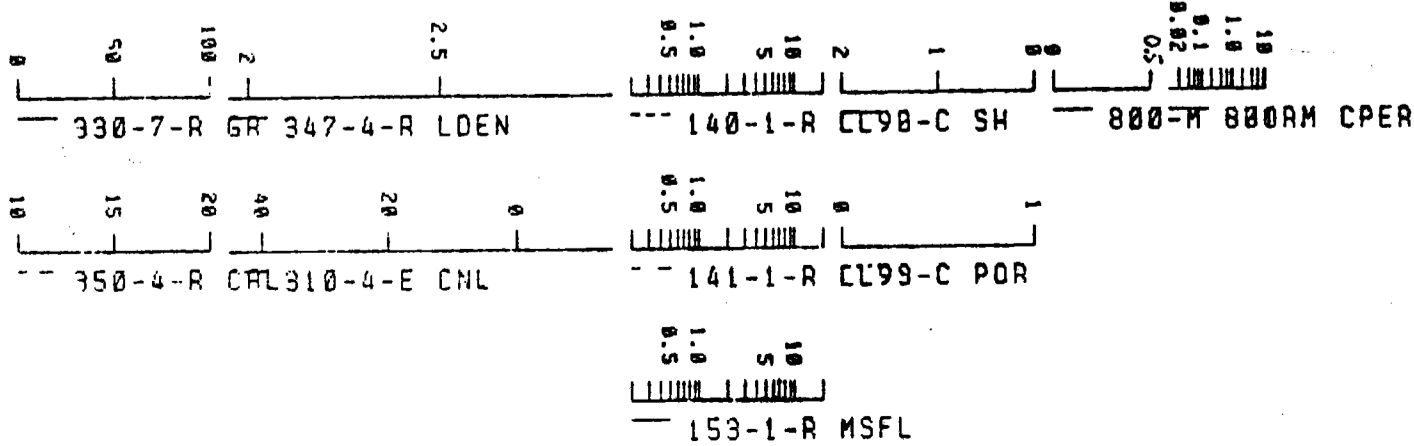
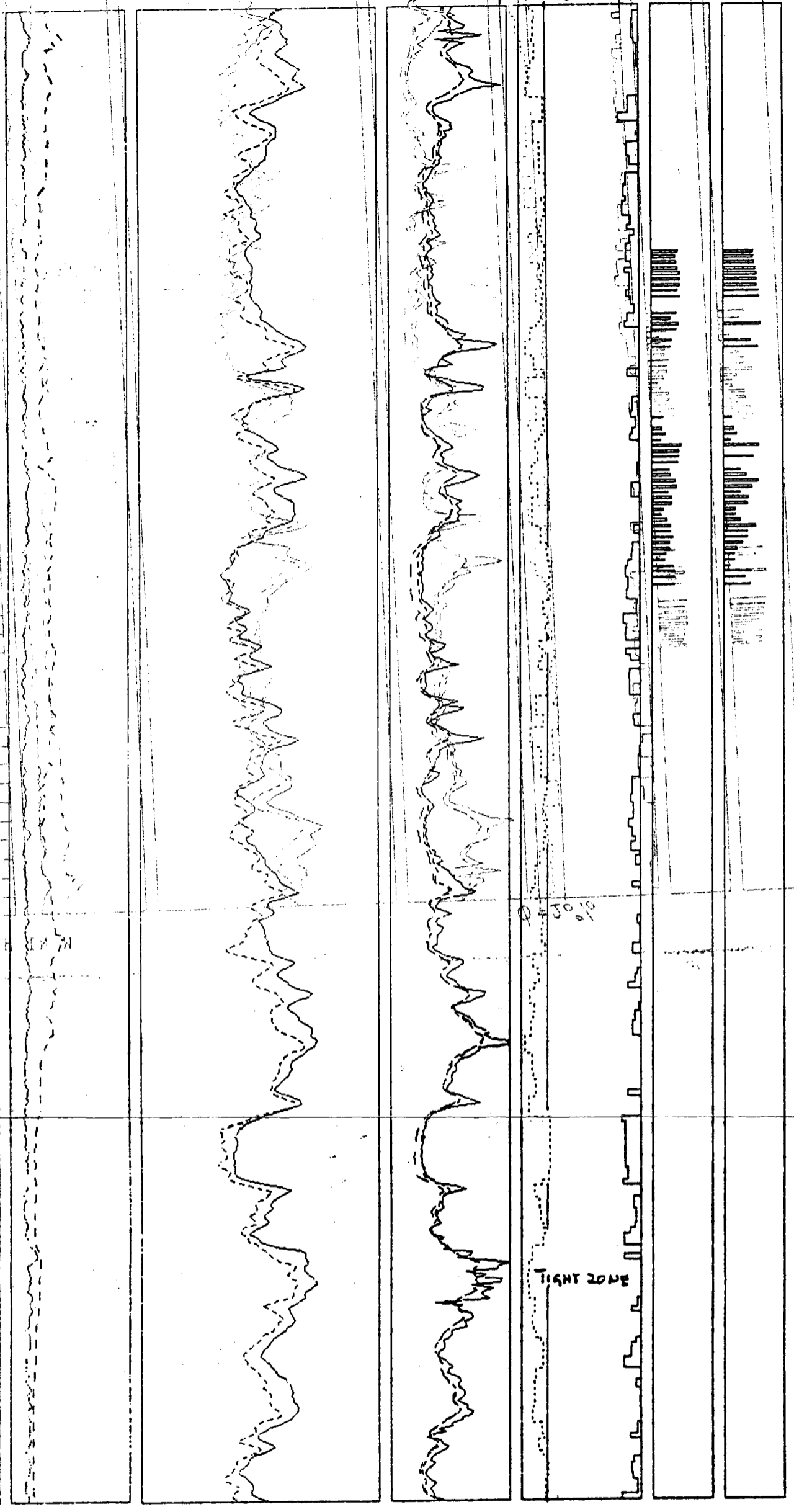
HP gauge = 1413A - 003

RUN Nr.	TEST Nr.	TEST DEPTH m AH BDF	MUD PRESS. PM psig	FLOWING PRESSURE		FINAL SHUT IN PS psig	FLOWING TIME		PRESSURE CORRECTION		Remarks k = 5 660 $\frac{qu}{P-Pf}$ Uo=0.5cP	CORR: FORMATION PRESSURE P psig	HP " " P psig
				PF1 psig	PF2 psig		T1 sec.	T2 sec.	MUD DPM psi	SHUT IN DPS psi			
2	1	3 236.5	7 622	5	5	-	-	-	-12	-	T	-	-
	2	3 267.0	7 690	-	-	-	-	-	-12	-	S	-	-
	3	3 267.5	7 703	3	0	-	-	-	-12	-	T	-	-
	4	3 285.4	7 720	-	-	-	-	-	-12	-	S	-	-
	5	3 300.0	7 743	2 600	1 100	7 130	6	11	-12	-11	k1 = 1.04; k2 = 0.4	7 119	7 137
	6	3 311.8	7 768	-	500	7 145	6	13	-13	-11	PL; k2 = 0.3	7 134	7 156
	7	3 320.5	7 787	6 800	5 200	7 150	6	13	-13	-11	k1 = 13.5; k2 = 1.1	7 139	7 157
	8	3 326.2	7 805	6 500	3 300	7 159	6	13	-13	-11	k1 = 7.2; k2 = 0.6	7 148	7 161
	9	3 332.0	7 816	6 800	2 600	7 165	6	13	-13	-11	k1 = 13; k2 = 0.5	7 154	7 170
	10	3 351.5	7 858	6 700	4 600	7 187	6	13	-13	-11	k1 = 9.7; k2 = 0.8	7 176	7 194
	11	3 383.2	7 933	6 600	5 300	7 120	6	13	-13	-11	k1 = 9.1; k2 = 1.2	7 109	7 126
	12	3 369.0	7 898	6 600	2 000	7 109	6	14	-13	-11	k1 = 9.1; k2 = 0.4	7 098	7 117
	13	3 397.5	7 965	6 600	2 000	7 153	6	13	-13	-11	k1 = 8.5; k2 = 0.4	7 142	7 158
	14	3 400.5	7 971	6 800	4 000	7 156	6	13	-13	-11	k1 = 13.2; k2 = 0.7	7 145	7 175
	15	3 410.0	7 991	6 700	3 000	7 171	6	13	-13	-11	k1 = 10.0; k2 = 0.5	7 160	7 179
	16	3 427.0	8 033	6 800	2 200	7 196	6	13	-13	-11	k1 = 11.0; k2 = 0.4	7 185	7 204
	17	3 448.0	8 080	7 000	50	7 318	6	15	-13	-11	PL	7 307	7 325
	18	3 512.8	8 232	6 900	0	7 594	6	33	-13	-12	PL	7 582	7 600
	19	3 549.5	8 314	7 000	50	7 585	6	13	-14	-12	PL	7 573	-
	20	3 614.0	8 468	7 200	600	7 710	6	13	-14	-12	k1 = 9.2; k2 = 0.3	7 698	-
	21	3 619.0	8 472	7 100	1 000	7 715	6	13	-14	-12	k1 = 7.7; k2 = 0.3	7 703	-
	22	3 657.0	8 563	7 100	5	-	6	80	-15	-11	T	-	-
	23	3 722.0	8 717	-	-	-	6	13	-15	-11	T	-	-
	24	3 765.5	8 813	7 700	5	-	6	60	-15	-	T	-	-
	25	3 362.0	7 883	6 100	5	7 248	6	45	-12	-10	k1 = 4.1; k2 = 0.1	7 238	-

DEPTH IN M

$\phi = 20\%$

3200
3300
3350
3310
3320
3370
3330
3390
3350
3390
3350
3360
3370



LEGEND , REMARKS , ETC. CORES 1-5 , WELL 2/5-7

- fractures: open
- ▨ fractures: mostly open , occ filled (w spar/calc)
- ▩ fractures: partly open , partly filled (± 50/50)
- ▧ fractures: mostly filled , occ open
- fractures: filled

r = rubble

t = occ thick layer of blk mat ± PR on styl.

all cores slightly porous , almost always without visible pores

flu: primarily on fractures , only on rare occ in mtx

↻ mostly fractured slumps

debris flow: occ grading into lithoclastic wackestone

ad CORE 2: bottom part core 2 might be slightly more porous

ad CORE 5: hydrocarbon indications: only a few pinpoint fluorescence

A/S NORSKE SHELL

Well: 2/5-7

Core No. 1

CORE DESCRIPTION

Cored from 3303 to 3312 Recovered: 5.39 m 59.9 % Core size: 4"

Formation: TOR Date: 28/9/83 Described by: POOL/QUICK Corehead: RC-6 Sheet: 1 of 2

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE			SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (& ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED; DIPS; FRACTURES ETC.)
		FINE	MED	CRS						SMPL FLU	CUT COOL	CUT FLU		
3303					styl fract	wh - ph gy	LST: IIA mst, blk, mod hd. hd gy streaks + patches often interrupted by (synsed)			flu: yel weak cut: slow col. h cut flu: wh weak			-often pa yel brn str on fractures	
3304					v irreg gy streaks	wh - lt gy	closecl fract			flu: yel mod cut: slow lt yel cut flu: wh mod				
3305					v irreg gy streaks	wh - lt gy				a/a				
3306					occ hor fract	wh				flu: yel good cut: stream lt yel cut flu: wh mod			to dk yel oil bleed -yel brn strn mtr	
3307					v irreg gy streaks	wh - yel gy				a/a cut yel			wk yel oil bleed	

A/S NORSKE SHELL

Well: 2/5 - 7

Core No. 1

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____ Sheet: 2 of 2

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (& ACCESSORY MINERALS)	GWT	ESTI-MATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED, DIPS; FRACTURES ETC.)
		FINE	MED	COAR	GRM						SAMPL	OUT FLU	OUT OOL		
3307	☉					<p>styl fract</p>		LST: IIA mdst, blk., modhd gy streaks, & patches						often pa yel brn str on fract wk yel oil bleed -occ yel brn str on vugs / patches	
3308	☉					<p>occ hor fract</p>								flu: yel weak cut: stream 1/2 yel cut flu: wk wk	
3308.4	☉					<p>occ 1cm elong vugs, mostly filled w dol + spar</p> <p>irreg yel brn patches filled w soft mat (dol?) + partly calc/spar</p>								flu: yel mod cut: stream yel cut flu: milky wk good	

A/S NORSKE SHELL

Well: 2/5-7

Core No. 2

CORE DESCRIPTION

Cored from 3312 to 3326.5 Recovered: 9.11 m 63 % Core size: 4"

Formation: TOR Date: 29/9/83 Described by: POOL/QUICK Corehead: RC-6 Sheet: 1 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES	COLOR	COMPOSITION (w/ ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED; DIPS; FRACTURES ETC.)
		mm	mm	mm	mm						SAMP FLU	CUT OOL	CUT FLU		
3312						debris flow occ hor fract	lt gy	gy + wh streaks + patch ↑ homog, occ gy patches ↓ irr gy streaks							
3313						df occ hor fract	lt gy	↑ homog. o/a ↓ irr gy + wh streaks + patches							
3314						debris flow occ hor fract	lt gy	LST: II A mdst, modhd -hd ↑ homog, occ gy - wh patches + particles < 1cm (ang) - rnd							
3315						Chf + PY concretions PY nodules	lt gy	↓ irr gy streaks + patches ↑ homog. particles < 0.5 cm, rnd							
3316						debris flow	lt gy	↑ homog. particles < 0.5 cm, rnd						occ yel brn strn on fract	

A/S NORSKE SHELL

Well: 2/5-7

Core No. 2

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____ Sheet: 2 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (B ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED; DIPS; FRACTURES ETC.)
		FINE	MED	COARSE	VERY COARSE						FLU	COL	FLU		
3316						styli fract occ PY nod debris flow		gy streaks + patches ↑ homog, occ gy str/patch particl < 0.3cm ↓							
3317						occ hor fract strongly compact plastic	lt gy dk - gy	irr gy str/patch ↑ homog, dk + lt part < 3cm ↓ gy streaks under angle							
3318						(synsed) fold debris flow occ hor fract	dk gy	LST: IIA -mdst, modhd -hd vlog streaks + part < 1cm (ang) - (frnd) occ particle φ 10 cm occ particle φ 5 cm ↓ irr gy str/patch + occ wh patch						flu: yel brn wk cut: slow lt yel cut flu: bl. wh wk	
3319						occ vert styli occ hor fract	lt gy								
3320							lt gy								

A/S NORSKE SHELL

Well: 2/5 -7

Core No. 2

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____
Sheet: 3 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES		COLOUR	COMPOSITION (w/ ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED, DIPS; FRACTURES ETC.)
		FINE	MED	CRS	GRS							SAMPL FLU	CUT COOL	CUT FLU		
3320	S					↑ ↓ ↑ ↓ ↑ ↓ ↑ ↓ ↑ ↓	↑ ↓ ↑ ↓ ↑ ↓ ↑ ↓ ↑ ↓		irr wh-gy str/patch often (gy-seed) fract ↓ homog, gy str/patch + occ part-ten ↓ irr gy-wh str a/a ↓ -LST: II A ↓ mdst, mod hd-hd						flu: yel wk cut: slow col. less cut flu: wh mod occ yel str on fract	
3321.1	S															

A/S NORSKE SHELL

Well: 2/5-7

Core No. 3

CORE DESCRIPTION

Cored from 3326.5 to 3337.5 Recovered: 9.05 m 82.3 % Core size: 4"

Formation: TOR Date: 29/9/83 Described by: POOL Corehead: RC-6

Sheet: 1 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (B ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED; DIPS; FRACTURES ETC.)	
		FINE	MED	COAR	GR						SIMP FLU	CUT OOL	CUT FLU			
3326.5	⊖					styl fract	lt gy - pkgy	irr gy + wh streaks often interrupted by many small closed (syn-seal) fract							flu: yel mod cut: slow col. less cut flu: milky wh, mod	↑ yel strn in mtn
3327.5	⊖					occ hor fract	lt gy - pkgy								flu: yel wk cut: a/a cut flu: milky wh weak	often yel strn on fract
3328.5	⊖					occ hor fract	lt gy - pkgy	LST: IIA mdst. mod hd-hd							flu: yel good cut: bloom lt yel cut flu: milky wh mod	
3329.5	⊖					occ vert styl	lt gy - pkgy								flu: yel wk cut: slow col. less cut flu: milky wh weak	seepage from fract
3330.5	⊖					occ vugs < 0.5cm partly filled w dol	pkgy								flu: yel good cut: bloom, col. less cut flu: a/a mod	seepage from fract

A/S NORSKE SHELL

Well: 2/5-7

Core No. 3

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____
Sheet: 2 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE			SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED, DIPS, FRACTURES ETC.)	
		FINE	MED	COARSE						SAMPL FLU	CUT COL	CUT FLU			
3330.5	S				styl. fract		irr gy-wh streaks/patches often interrupted by small closed fract (syn sed)							often gel sta on fract	
3331.5	S				v irr vert str/patches: chb + spar + vugs < 0.5cm partly filled w gel brn soft mat (dol/arg)	pkgy	LST: IIA mdst, modhd. hd							flu: gel good cut: bloom col. less cut flu: milky wh, mod	
3332.5	S				v irr vert str: chb + spar + soft gel brn mat (dol/arg)	pkgy							a/a cut flu: good		
3333.5	S				occ hor fract	pkgy-lfgy	homog, occ ch.olt patches							flu: gel good cut: stream col. less cut flu: milky wh good	seepage from fract
3334.5	S				occ vugs < 0.2cm partly filled w gel mat/gel sta		irr gy-wh str/patches a/a								
3334.5	S				strong compact	pkgy-pa area								a/a	seepage from fract

A/S NORSKE SHELL

Well: 2/5-7

Core No. 3

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____

Sheet: 3 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (w/ ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED; OMP; FRACTURES ETC.)
		mm	mm	mm	mm						SAMPL FLU	CUT COL	CUT FLU		
3334.5	☉					sh. l. fract	lt grey-phgy	rrr dk blk str/patches inter-phal by small (syned) fract LST: II A mdst, modhd. hd			fin: yel good cut: stream col. less cut fin: milky wh. good			seepage from fract often yel str on fract	
3335.55	☉						phgy				fin: yel good cut: shw col. less cut fin: milky wh mod			seepage from fract	


A/S NORSKE SHELL

Well: 2/5-7

Core No. 4

CORE DESCRIPTION

Cored from 3337.5 to Recovered: m % Core size: 4"
 Formation: TOR Date: 30/9/83 Described by: POOL Corehead: RC-6
 Sheet: 1 of 1

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (& ACCESSORY MINERALS)	CMT	ESTI-MATED %	HYDROCARBON INDICATIONS			G _A S %	REMARKS (OIL BLEED; DIPS; FRACTURES ETC.)
		FINE	FINE	MED	CRS						SIMP FLU	CUT COL	CUT FLU		
							shgy	irr lt wdk streaks LST: II A, mdst mod hrd shd			flu: gel. good cut: slow col: less cut flu: milky wh mod				
						<p>CORE RUN No. 4</p> <p>No progress made in drilling, only fragment recovered, most likely to come from bottom part of CORE 3</p>									

A/S NORSKE SHELL

Well: 2/5-7

Core No. 5

CORE DESCRIPTION

Cored from 3339 to 3348.5 Recovered: 9.25 m 97.4 % Core size: 4"

Formation: TOR Date: 2/10/83 Described by: POOL Corehead: RC-6 Sheet: 1 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE			SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (w/ ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED; DIPS; FRACTURES ETC.)
		FINE	MED	COARSE						SAMP FLU	OUT COL	OUT FLU		
3339	[Lithology sketch]				occ frags < 2mm pyel str, partly filled w spar	lt gy-phgy	lfr dk + lt sh/patches inter by (s-sed) fract							
3340	[Lithology sketch]				debris flow	lt gy-phgy	homog, occ dk + lt patches + particles < 0.3 cm							
3341	[Lithology sketch]				debris flow	lt gy-phgy	ice + interrupted str/patches							
3342	[Lithology sketch]				debris flow	lt gy-phgy	homog. w/a							
3343	[Lithology sketch]				debris flow	lt gy-phgy	LST: II A, mdst, hd							
3344	[Lithology sketch]				occ PY nod < 0.8 cm	lt gy-phgy	lfr dk streaks and bands wiggly but rather continuous							
3345	[Lithology sketch]				occ pos replacement of shell frags by spar + PY	lt gy-phgy	homog, dk + lt part < 1 cm							
3346	[Lithology sketch]				strongly compact	lt gy								

A/S NORSKE SHELL

Well: 2 / 5 - 7

Core No. 5

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____ Sheet: 2 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE			SEDIMENTARY STRUCTURES & FEATURES	COLOUR	COMPOSITION (& ACCESSORY MINERALS)	CMT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED, DIPS; FRACTURES ETC.)
		FINE	MED	COARSE						SAMPL FLU	CUT FLU	CUT FLU		
3343					sty1 Fract occ vert sty1		↑ homog, lt + dk partiel < 3cm elong - sph (ang) - rnd partiel < 8cm							
3344					debris flow	lt gy-ph gy	partiel < 8cm							
3345					(differential cementation?)	lt gy-ph gy	more homog occ lt o dk streaks & patches				flu: yel wk no cut		very minor br of flu	
3346					strong compact	lt gy-ph gy	LST: IIA, mdst, hal							
3347					chert layer	lt gy-olgy	irr dk lbt str/patches more homog a/a							

A/S NORSKE SHELL

Well: 2 / 5 - 7

Core No. 5

CORE DESCRIPTION

Cored from _____ to _____ Recovered: _____ m _____ % Core size: _____

Formation: _____ Date: _____ Described by: _____ Corehead: _____

Sheet: 3 of 3

DEPTH & SAMPLES	GRAPHIC LITHOLOGY	GRAIN SIZE				SEDIMENTARY STRUCTURES & FEATURES		COLOUR	COMPOSITION (w/ ACCESSORY MINERALS)	GHT	ESTIMATED %	HYDROCARBON INDICATIONS			GAS %	REMARKS (OIL BLEED, DIPS, FRACTURES ETC.)
		FIN	FINE	MED	COAR	skel	fract					SMPL FLU	CUT COL	CUT FLU		
3347						skel	fract		homog. occ dk streaks + dk/lt patches LST: II A mdst, hd							
3348						skel	fract	lt gy- pk gy								
3348.25						skel	fract						fln: yel. wk no cut		very minor br yel fln	