

ESE and ASSOCIATES INC.

*DST Interpretation - Pressure Transient - Deliverability Analysis
Material Balance Determination - Property Evaluation*

CORAL COAST PETROLEUM, L. C.

CORAL R. Baker #1-36

120' SW SW Sec.36..Twp.33s Rge.20w

Comanche County, Kansas

Novinger Lime Reef

PRESSURE TRANSIENT ANALYSIS

from

TRILOBITE DST #1

1998-03-03

PRESSURE BUILDUP DATA

1998-06-30

Prepared by

K. Glen Morrison

1998-September 10

with data supplied by

Daniel M Reynolds

FEKETE F.A.S.T.tm and SYNtm software systems

ESE and ASSOCIATES INC.

1031 North Second Street
Arkansas City, KS 67005
(316) 442-9279 Phone
(316) 441-0488 Fax
e-mail: morrison@hit.net

1998 September 10

Daniel M. Reynolds
CORAL COAST PETROLEUM, L.C.
200 E. First, Suite 001
Wichita KS 67202

Re: **CORAL R. Baker #1-36**
Novinger Lime Reef - gas/oil/water
120' SW SW Sec.36 Twp.33s. Rge.20w
Comanche County, Kansas

Dear Dan:

I have reviewed the March 3, 1998, Trilobite DST #1 plus the pressure buildup data taken on or about June 27, 1998. The SYNtm-thesized DST data indicated a projected reservoir pressure of 2055.6 psia and the current test data built up to psia 727.67 psia or 35.4 % of the initial Pi.

In order to build a representative model of the well's reservoir I have combined the two test results and assumed a one quarter section (160 acres) with an 'effective' drainage radius of 1490 feet. The production from the treated and un-treated model shows the effect of a well stimulation program.

GAS RESERVE ESTIMATE (SYNtm-thesized 160 acre model)*:

		un-treated	treated	
Initial Gas In Place	IGIP	204	294	MMcf
Initial Recoverable Gas in Place	IRGIP	197	284	MMcf
Initial Marketable Gas in Place	IMGIP	183	263	MMcf
Remaining Marketable Gas in Place	RMGIP	168	249	MMcf

* Simulated Model using combined DST and Pressure buildup data.

DST TESTED RESERVOIR REGION SYNtm-thesized (Skin-Storage-Boundary):

- Synthesized initial pressure **Pi** **2,055.60** **psia**
- Effective wellbore average permeability (gas) **k** 1.68
- Measured skin effect **s** + 12.43
- Wellbore Storage Constant **CD** 1,151.05

DST TESTED RESERVOIR REGION (continued):

- Formation Test shape (Cartesian coordinates):

Drainage pattern length	Xe	537	ft
Drainage pattern width	Ye	277	ft
Location of center of active well	Xw	120	ft
Location of center of active well	Yw	95	ft
- Tested acreage

A	3.415	ACRES
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BUILD-UP TESTED RESERVOIR REGION (Skin-Storage-Boundary):

SYNtm-thesized reservoir interpretation:

- Synthesized initial pressure

Pi	2,055.80	psia
----	----------	------
- Effective wellbore average permeability (gas)

k	0.38	
---	------	--
- Measured skin effect

s	- 5.12	
---	--------	--
- Wellbore Storage Constant

CD	1,154.27	
----	----------	--
- Formation Test shape (Cartesian coordinates):

Drainage pattern length	Xe	1,029	ft
Drainage pattern width	Ye	528	ft
Location of center of active well	Xw	94	ft
Location of center of active well	Yw	105	ft
- Tested acreage

A	12.47	ACRES
---	-------	-------

RESERVOIR CHARACTERISTICS:

Assumptions and other data:

Net formation thickness	h	6.0	ft.
Average porosity	Φ	10.0	%
Mineral water saturation	Sw	20.0	%
Oil Saturation	So	10.0	%
Gas saturation	Sg	70.0	%
Abandonment pressure	Pr ₂	100.00	psia
Formation Temperature	T	126.55	o F
Drainage Area	A	160.0	Acres

A Composite Model (circular 'effective' radius) is used for all projections

For TRANSIGAStm TREATED projections (assumed 160 acres):

Effective permeability (gas)	k1	0.70	md
Measured skin effect	s	-5.2	
Wellbore Storage Constant	CD	2,000.00	
Primary radius	r1	500.00	ft.
Effective permeability (gas)	k2	0.06	md
Equivalent Drainage radius (160 acres)	r2	1,490.00	ft.

Deliverability:

Time Year	<u>Un-treated 160 acres</u>		<u>Treated 160 acres</u>	
	Annual MMcf	Production Gas rate Mcf/d	Annual MMcf	Production Gas rate MMcf
one	31.975	87.54	36.600	100.00
two	23.547	64.47	36.600	100.00
three	20.874	57.15	36.600	100.00
four	19.077	52.23	36.600	100.00
five	17.489	47.88	35.445	97.04
Six	16.043	43.92	26.643	72.94
seven	14.718	40.30	20.824	57.01
eight	13.504	36.97	16.433	44.99
nine	12.389	33.92	12.974	35.52
ten	11.366	31.12	10.243	28.04

COMMENTS:

Due to the short buildup period on the Transient Test a number of assumptions had to be made. Therefore the area of drainage must fit into the geology and the land holdings for the area. The current well-bore permeability of 0.35 md is approximately 20 % of that which is determined from the DST analysis. The skin effect has been improved from the original plus (+12.43) to a negative (- 5.12). This would indicate that the well-bore interference is from the combined fluids (oil-gas-water) and any stimulation treatment should be preceded with either a tar or wax buildup solvent - depending upon the makeup of the well's effluent.

After the oil base cleanup I would recommend an aerated (N2 or CO2) 28 % HCL acid treatment in order to extend the wellbore effective radius from 112 ft to approximately 500 ft. Your service company should be able to give you guide lines as to volumes, rates and costs from the data in this report.

Thank you for this opportunity to assist you in evaluating this well. If you have any questions concerning the data or the interpretations, please contact me.

Yours very truly,

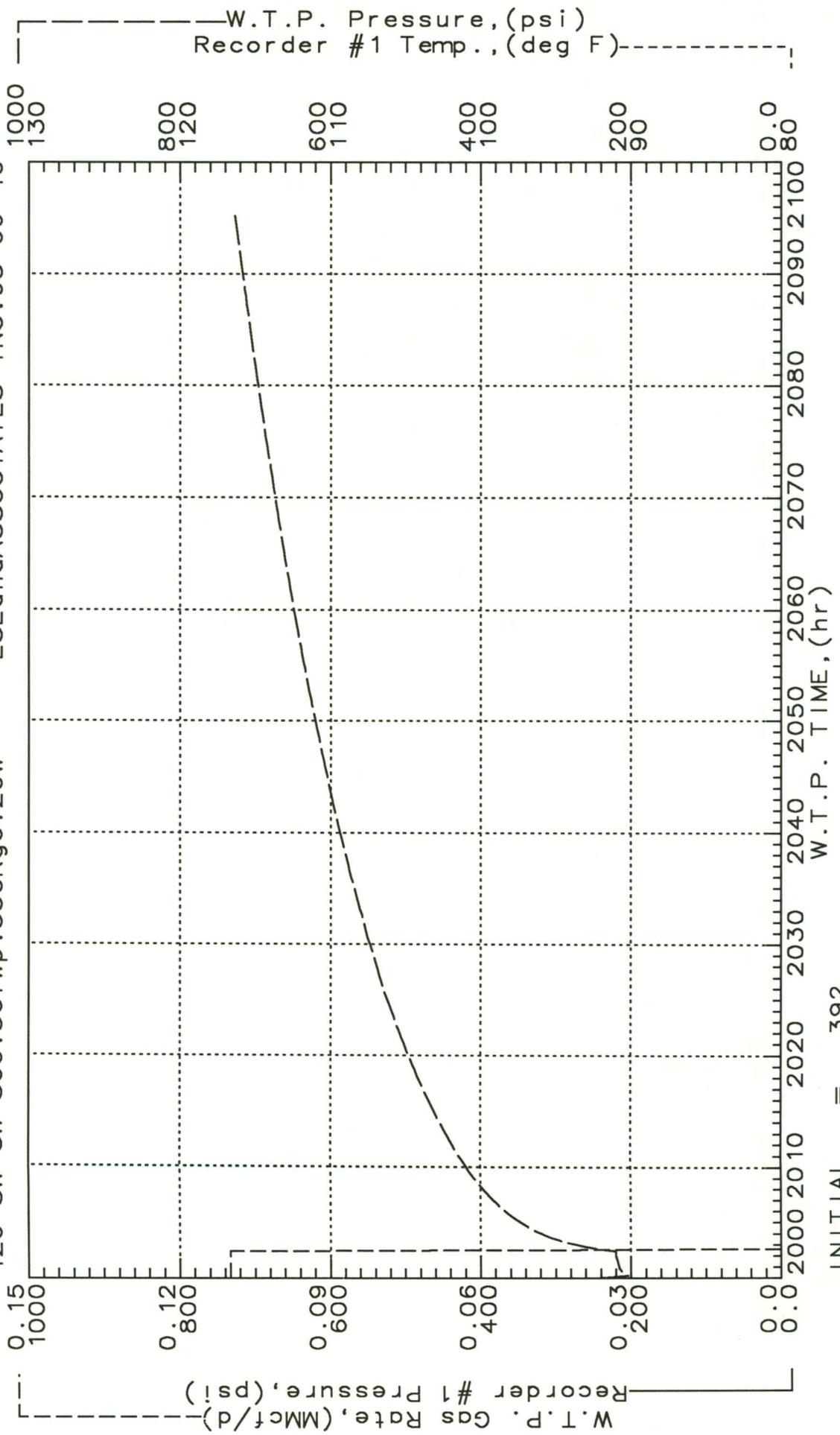


K. Glen Morrison

Encl. (1)

VALIDATA

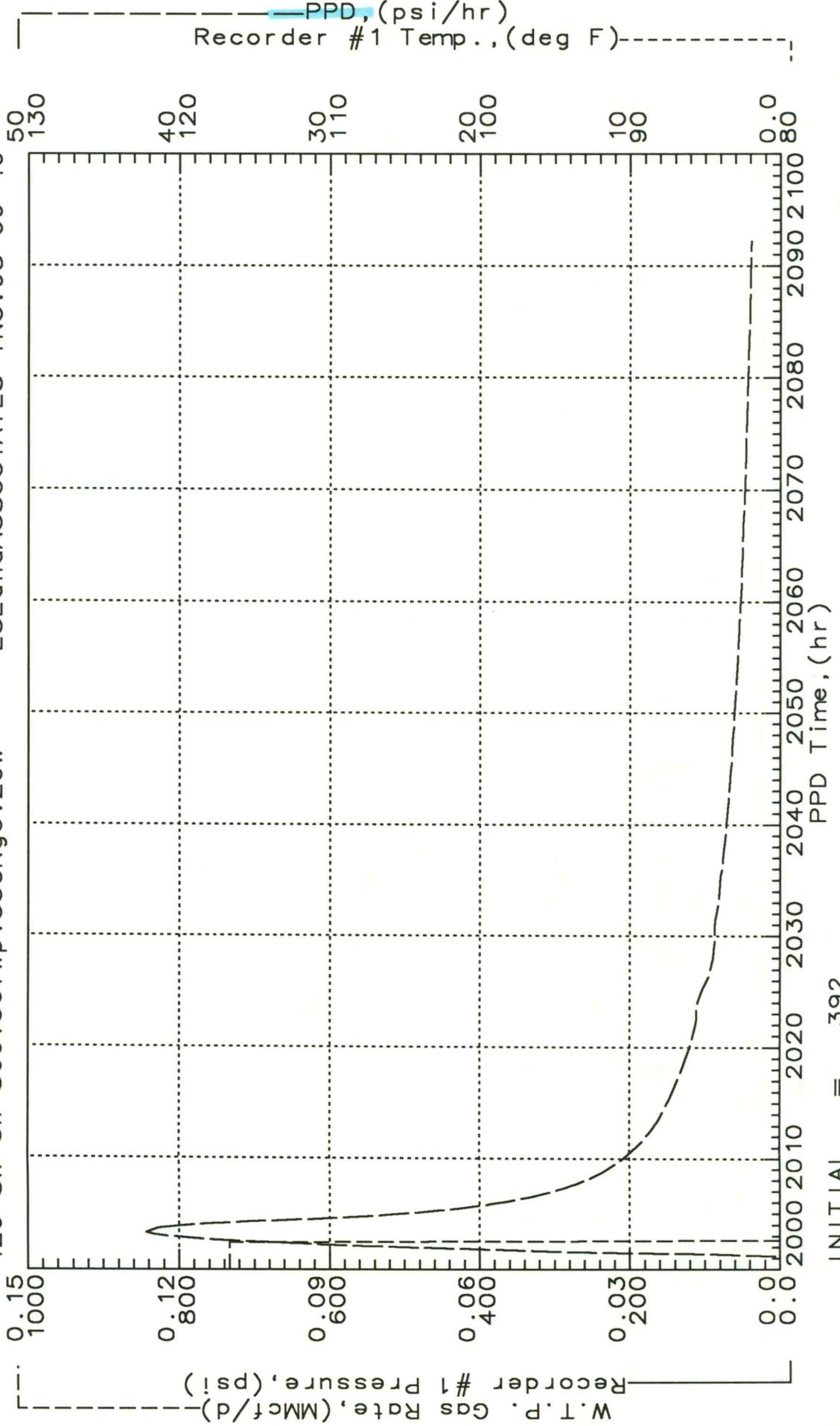
CORAL R. Baker #1-36, Comanche Cty, KS Novinger Lime reef. 98-06-30
 120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10



INITIAL = 392
 DELETED = 50
 REMAINING = 342

VALIDATA

CORAL R. Baker #1-36, Comanche Cty, KS Novinger Lime reef. 98-06-30
 120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10

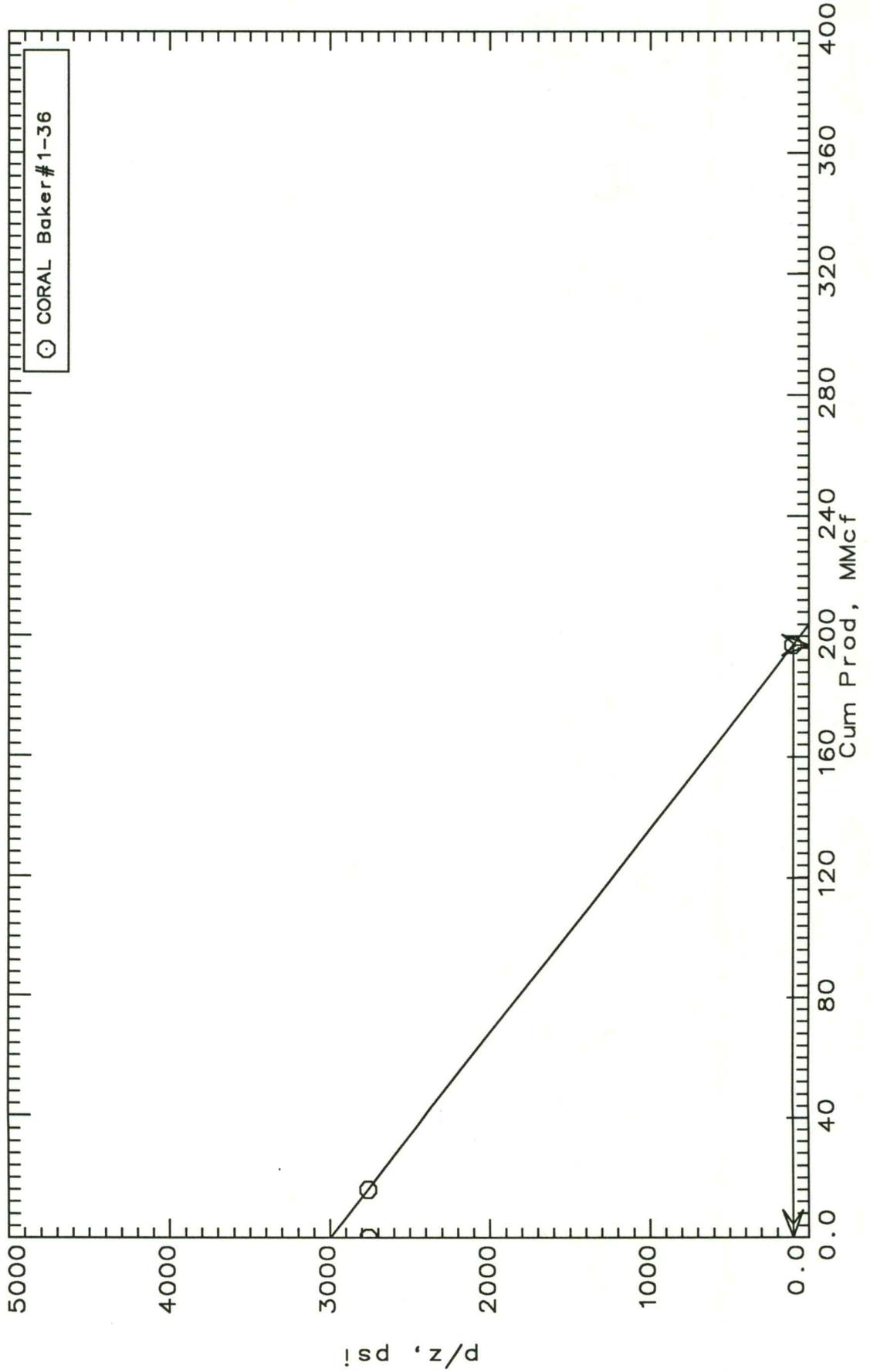


INITIAL = 392
 DELETED = 50
 REMAINING = 342

MATERIAL BALANCE

CORAL R. Baker #1-36, Comanche Cty, KS
 120' SW Sec. 36 Twp. 33s Rge. 20w
 Novinger Lime reef. UN-TREATED 160
 ESE and ASSOCIATES INC. 98-09-10

IGIP = 204 MMcf
 IRGIP = 197 MMcf
 IMGIP = 183 MMcf
 RMGIP = 168 MMcf



Material Balance

CORAL R. Baker#1-36, Comanche Cty, KS Novinger Lime reef. UN-TREATED 160
 120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10

Gas Gravity G = 0.83
 Formation Temperature T = 126.55 deg F
 Co2 Concentration = 0.05 %
 H2s Concentration = 0.00 %
 N2 Concentration = 3.34 %
 Critical Pressure = 650.8 psi <DEF>
 Critical Temperature = 403.86 deg R <DEF>

Initial Gas In Place = 204 MMcf

Recovery Factor = 96.60 % <CALC>
 Initial Recoverable Gas In Place = 197 MMcf

Surface Loss = 7.30 %
 Initial Marketable Gas In Place = 183 MMcf

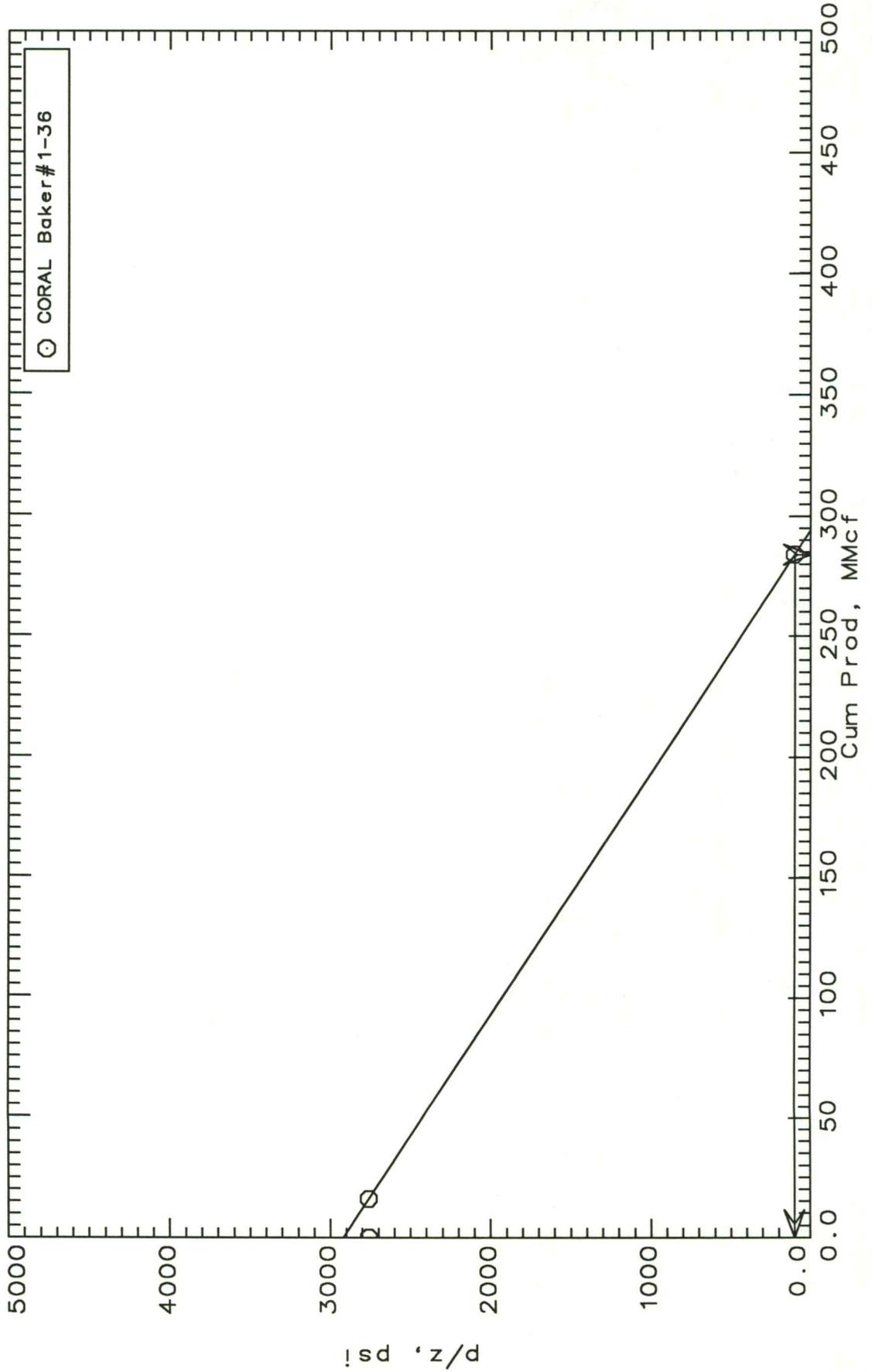
Effective Date = 1998-06-06
 Sales To Date = 14 MMcf
 Remaining Marketable = 168 MMcf

Date	Well Name	Pressure	Comp. Factor	P/z	Cum Prod
Yr-mo-da		psi			Total MMcf
1998-03-03	CORAL Baker#1-36	2055.6	0.745	2760.5	0
1998-06-06	MDH TEST MODEL	2055.8	0.745	2760.8	16
1998-09-10	TESTED MODEL 160 AC	100.0	0.983	101.7	197

MATERIAL BALANCE

CORAL R. Baker #1-36, Comanche Cty, KS
 120' SW Sec. 36 Twp. 33s Rge. 20w
 Novinger Lime reef. TREATED 160 ACRE
 ESE and ASSOCIATES INC. 98-09-10

IGIP = 294 MMcf
 IRGIP = 284 MMcf
 IMGIP = 263 MMcf
 RMGIP = 249 MMcf



○ CORAL Baker #1-36

Material Balance

CORAL R. Baker#1-36, Comanche Cty, KS Novinger Lime reef. TREATED 160 ACRE
 120' SW SW Sec. 36 Twp. 33s Rge. 20w
 ESE and ASSOCIATES INC. 98-09-10

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 Formation Temperature = 126.55 deg F
 Co2 Concentration = 0.05 %
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 N2 Concentration = 3.34 %
 Critical Pressure = 650.8 psi <DEF>
 Critical Temperature = 403.86 deg R <DEF>

Initial Gas In Place = 294 MMcf

Recovery Factor = 96.52 % <CALC>
 Initial Recoverable Gas In Place = 284 MMcf

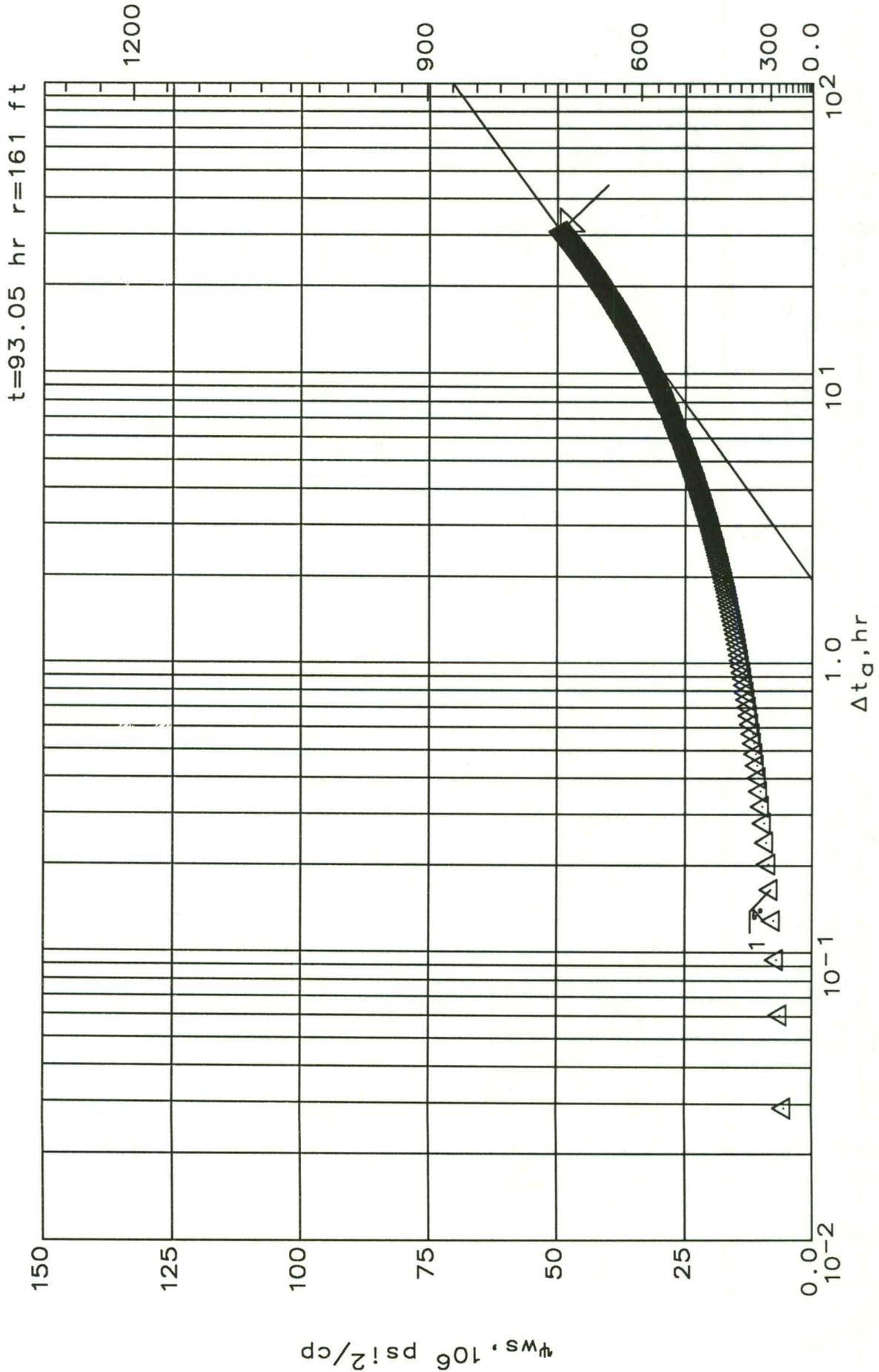
Surface Loss = 7.30 %
 Initial Marketable Gas In Place = 263 MMcf

Effective Date = 1998-06-06
 Sales to Date = 14 MMcf
 Remaining Marketable = 249 MMcf

Date	Well Name	Pressure	Comp. Factor	P/z	Cum Prod
Yr-mo-da		psi			Total MMcf
1998-03-03	CORAL Baker#1-36	2055.6	0.745	2760.5	0
1998-06-06	MDH TEST MODEL	2055.8	0.745	2760.8	16
1998-09-10	TREATED 160 AC MODEL	100.0	0.983	101.7	284

M.D.H.
 PRESSURE BUILDUP PLOT
 CORAL R. Baker #1-36, Comanche Cty, Kansas
 120' SW Sec. 36 Twp. 33s Rge. 20w
 Lime reefer tested boundary
 ESE and ASSOCIATES INC. 98-09-10

$[k_1/u] = 20.80$ $k_1 = 0.43$ md $s = -4.7$



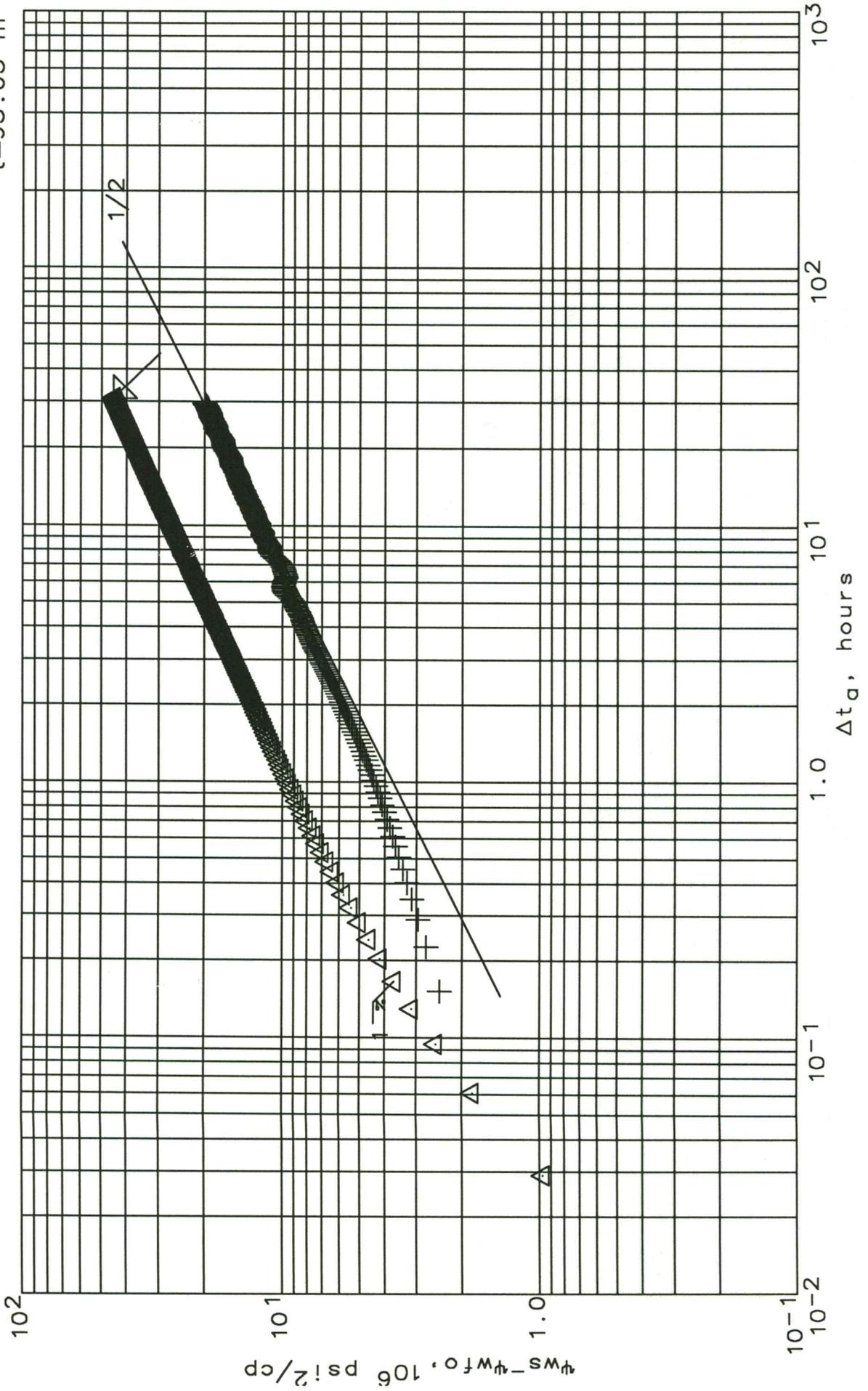
DIAGNOSTIC PREPLOT TYPECURVE

PRESSURE BUILDUP PLOT

CORAL R. Baker #1-36, Comanche Cty, KS
120' SW SW Sec. 36 Twp. 33s Rge. 20w

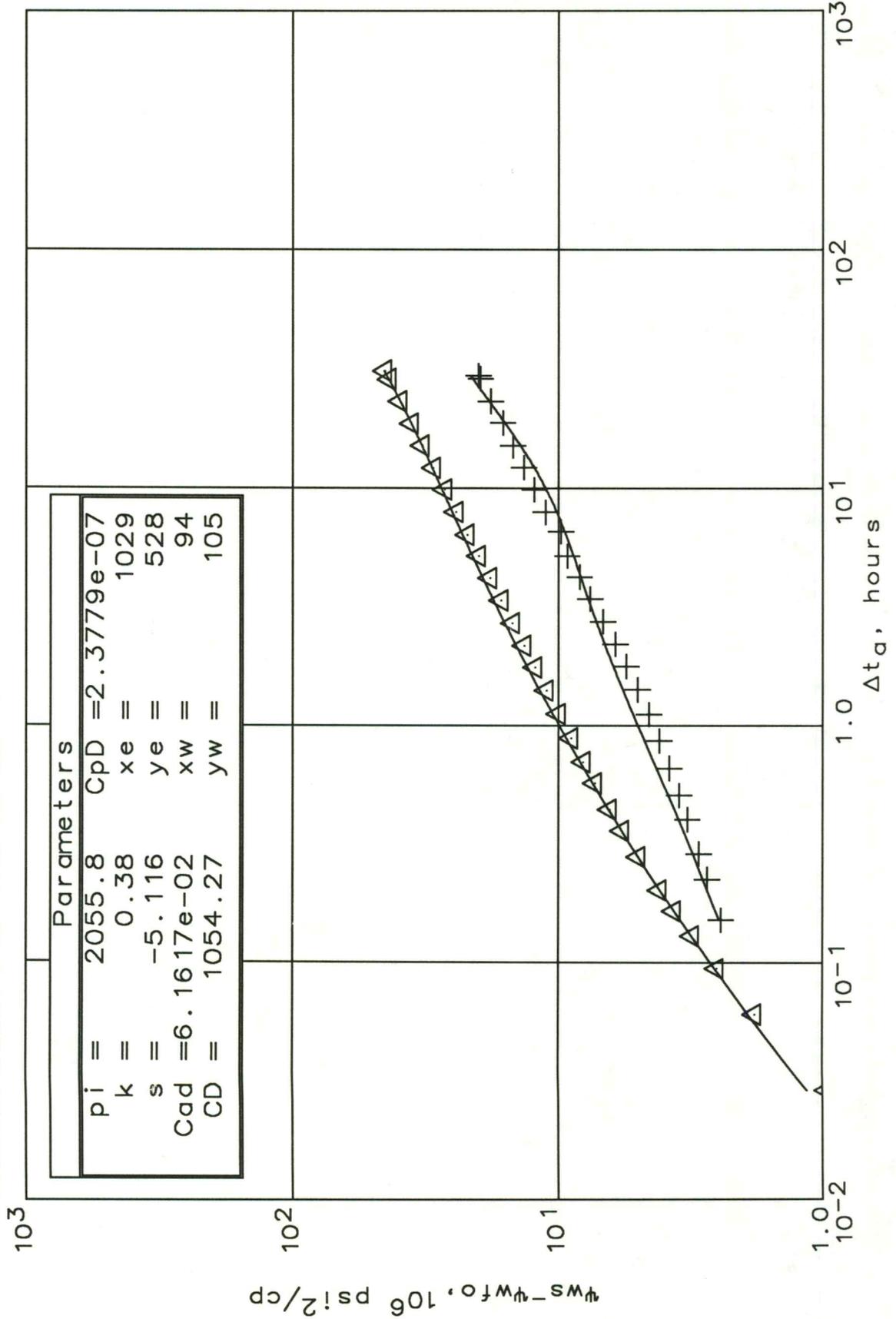
Novinger Lime reef: 98-06-30
ESE and ASSOCIATES INC: 98-09-10

t = 93.05 hr



STORAGE - SKIN - BOUNDARIES

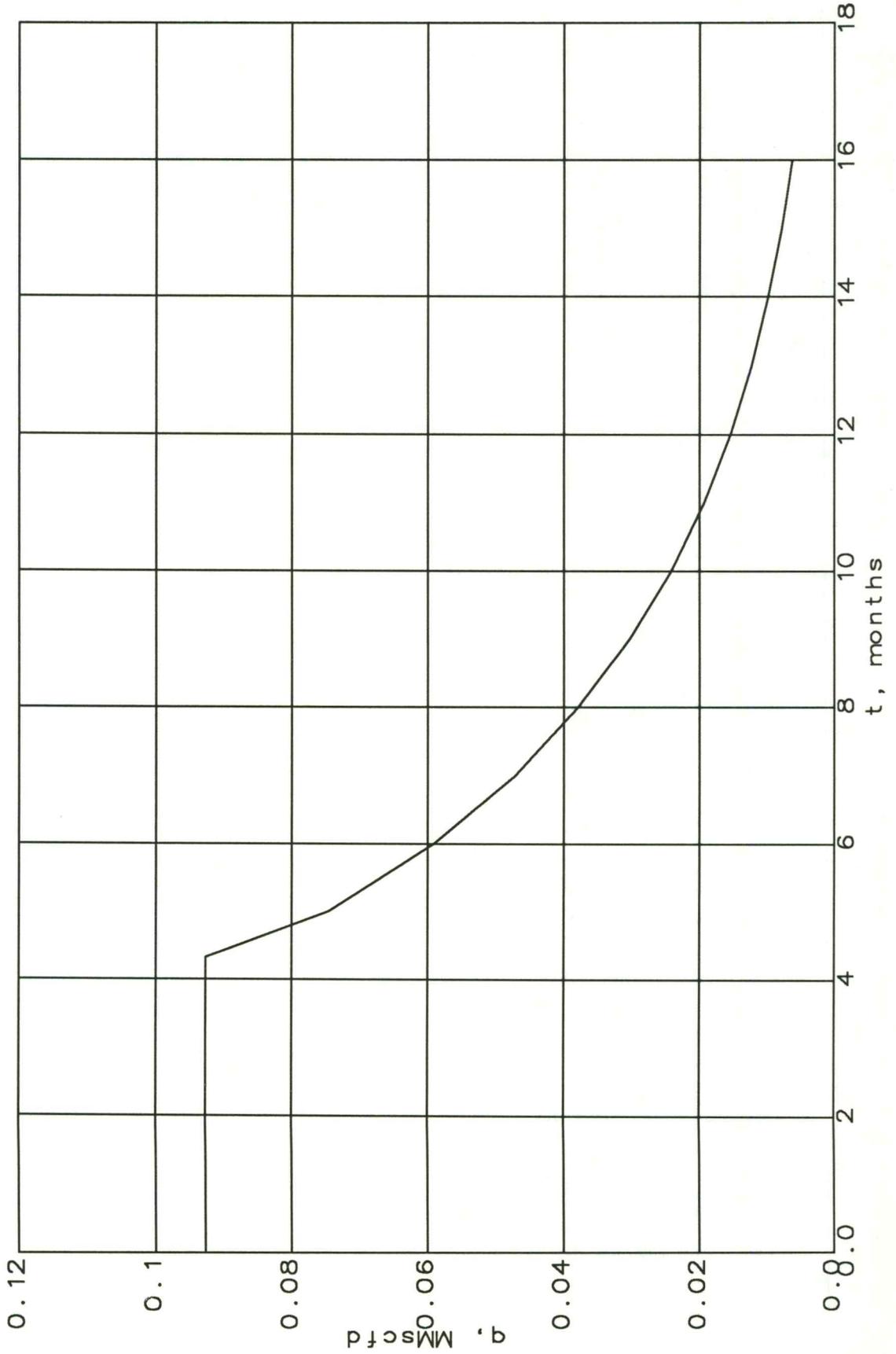
CORAL R. Baker #1-36, Comanche Cty, KS
 120' SW SW Sec. 36 Twp. 33s Rge. 20w
 Novinger Lime reef. 98-06-30
 ESE and ASSOCIATES INC. 98-09-10



TRANS I GAS

STORAGE - SKIN - BOUNDARIES

CORAL R. Baker #1-36, Comanche Cty, KS
120' SW Sec. 36 Twp. 33s Rge. 20w
Novinger Lime reef. tested boundary
ESE and ASSOCIATES INC. 98-09-10
Reservoir Pressure = 2056 psi
Flowing Pressure = 100 psi



Transient Deliverability Forecast

 Monthly Forecast

Storage - Skin - Boundaries Model

CORAL R. Baker#1-36, Comanche Cty, KS Novinger lime reef. tested boundary
 120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10

Initial Reservoir Pressure = 2056.0 psi
 Sandface Flowing Pressure = 100.0 psi
 Contract Gas Rate = 0.100 MMcf/d
 Surface Loss = 7.30 %

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
1.000	0.093	2.827
2.000	0.093	5.655
3.000	0.093	8.482
4.000	0.093	11.309
4.321	0.093	12.216
5.000	0.075	13.761
6.000	0.059	15.565
7.000	0.047	17.006
8.000	0.038	18.161
9.000	0.030	19.087
10.000	0.024	19.827
11.000	0.019	20.419
12.000	0.016	20.892
13.000	0.012	21.270
14.000	0.010	21.573
15.000	0.008	21.815
16.000	0.006	22.008

Transient Deliverability Forecast

Model Parameters

Storage - Skin - Boundaries Model

CORAL R.Baker#1-36,Comanche Cty,Ks Novinger lime reef.tested boundary
120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Formation Parameters

Transmissivity	kh/mu =	111.38	md.ft/cp
Mobility	k/mu =	18.563	md/cp
Flow Capacity	kh =	2.28	md.ft
Permeability	k =	0.38	md
Skin	s =	-5.116	
Apparent Wellbore Storage (dim.)	CAD =	0.06	
Wellbore Storage Constant (dim.)	CD =	1054.27	
Storage Pressure Param (dim.)	CPD =	2.38x10 ⁻⁷	
Inter Porosity Coeff	Lambda =	-	
Storativity Ratio	Omega =	-	

N. B. Origin At Lower Left Corner

Reservoir Length	(xe) =	1029	ft
Reservoir Width	(ye) =	528	ft
Active Well At	xw =	94	ft
Active Well At	yw =	105	ft

Transient Deliverability Forecast

Storage - Skin - Boundaries Model

CORAL R.Baker#1-36,Comanche Cty,Ks Novinger lime reef.tested boundary
120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Fluid Properties

Gas Gravity	G =	0.83	
Co2 Concentration	=	0.05 %	
H2s Concentration	=	0.00 %	
N2 Concentration	=	3.34 %	
P V T Reference Pressure	pRef =	2500.0 psi	
		-4 -1	
Gas Compressibility	cg =	3.627x10 psi	<DEF>
Compressibility Factor	z =	0.7480	
Gas Viscosity	mug =	0.020 cp	<DEF>

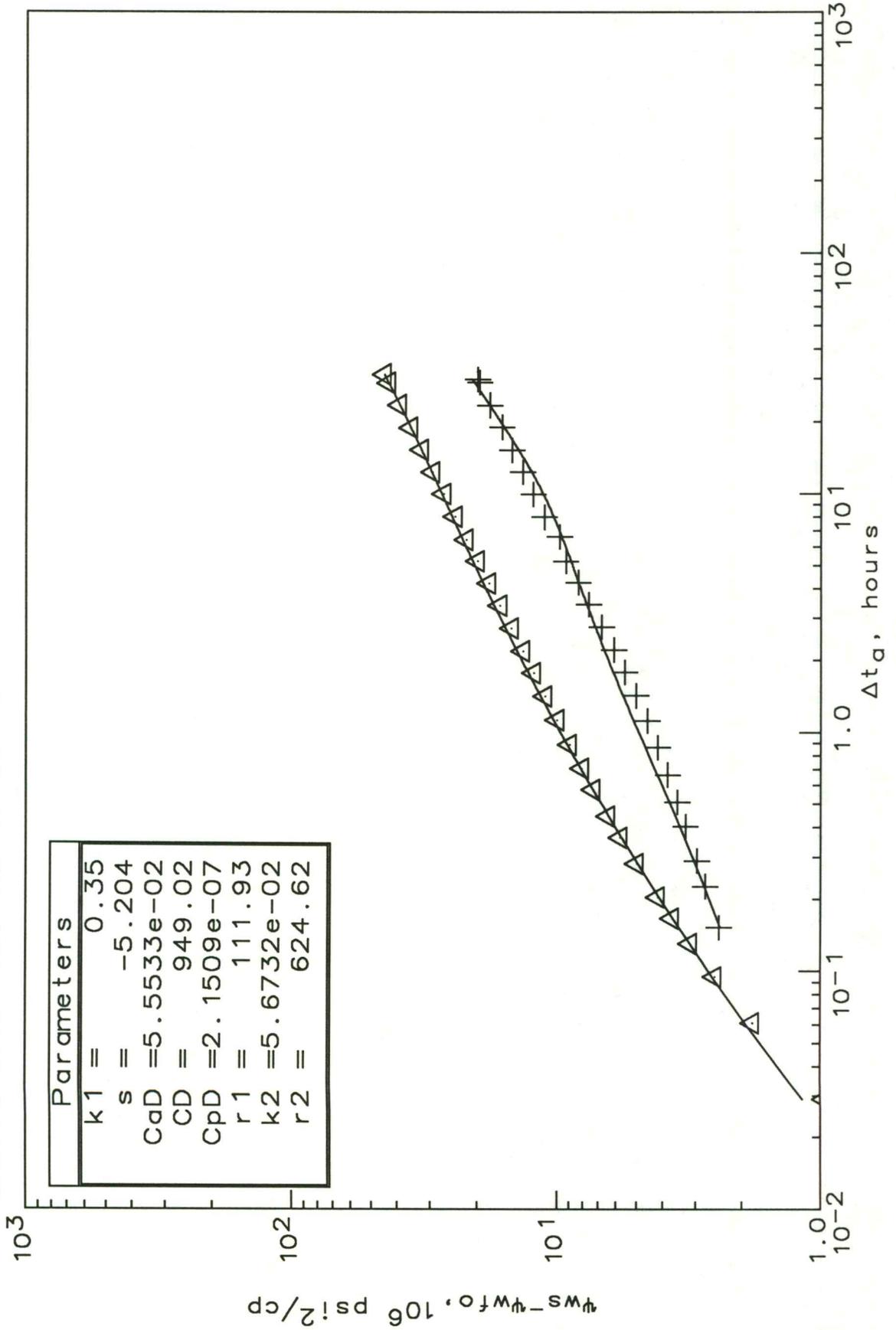
Reservoir Parameters

Net Pay	h =	6.00 ft	
Total Porosity	phit =	10.00 %	
Water Saturation	Sw =	20.00 %	
Oil Saturation	So =	10.00 %	
Gas Saturation	Sg =	70.00 %	
Wellbore Radius	rw =	0.30 ft	<DEF>
Formation Temperature	T =	126.55 deg F	
		-6 -1	
Formation Compressibility	cf =	4.862x10 psi	<DEF>
		-4 -1	
Total Compressibility	ct =	2.760x10 psi	<DEF>

COMPOSITE MODEL

CORAL R. Baker # 1-36, Comanche Cty, KS
 120' SW SW Sec. 36 Twp. 33s Rge. 20w
 Novinger Lime reef 98-06-30
 ESE and ASSOCIATES INC. 98-09-10

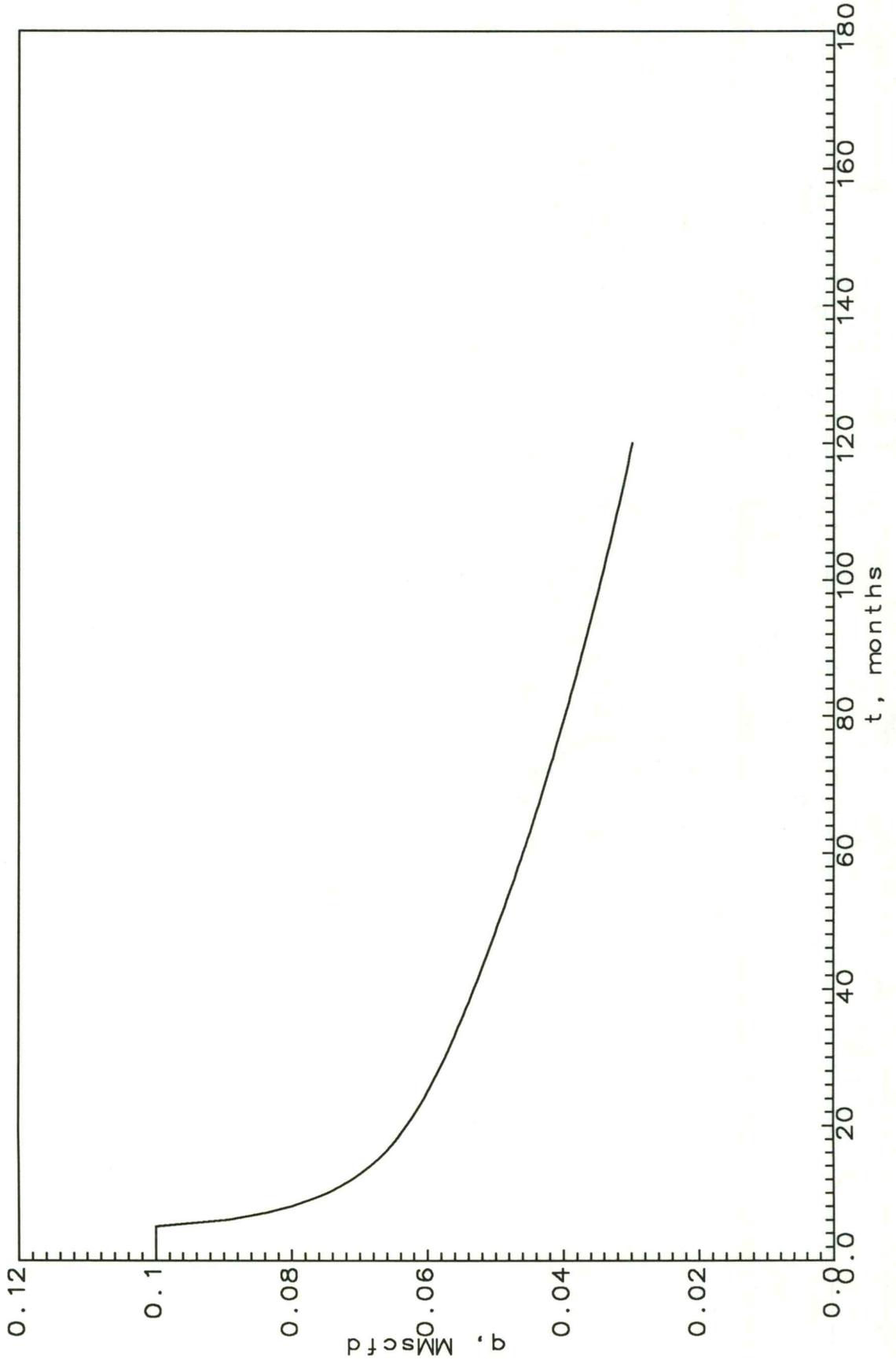
Parameters	
k1 =	0.35
s =	-5.204
CaD =	5.5533e-02
CD =	949.02
CpD =	2.1509e-07
r1 =	111.93
k2 =	5.6732e-02
r2 =	624.62



TRANS I GAS

COMPOSITE MODEL

CORAL R. Baker #1-36, Comanche Cty, KS
120'SW SW Sec. 36Twp. 33sRge. 20w
Novinger Lime reef UN-TREATED 160 Reservoir Pressure = 2000 psi
ESEandASSOCIATES INC. 98-09-10 Flowing Pressure = 100 psi



Transient Deliverability Forecast

 Monthly Forecast

Composite Model

CORAL R.Baker#1-36,Comanche Cty,KS Novinger lime reef.UN-TREATED 160
 120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Initial Reservoir Pressure = 2000.0 psi
 Sandface Flowing Pressure = 100.0 psi
 Contract Gas Rate = 0.100 MMcf/d
 Surface Loss = 0.00 %

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
1.000	0.100	3.050
2.000	0.100	6.100
3.000	0.100	9.150
4.000	0.100	12.200
5.000	0.100	15.250
5.014	0.100	15.292
6.000	0.089	17.980
7.000	0.084	20.534
8.000	0.080	22.971
9.000	0.077	25.318
10.000	0.075	27.594
11.000	0.073	29.810
12.000	0.071	31.975
13.000	0.070	34.097
14.000	0.068	36.180
15.000	0.067	38.228
16.000	0.066	40.245
17.000	0.065	42.234
18.000	0.064	44.197
19.000	0.064	46.136
20.000	0.063	48.052
21.000	0.062	49.948
22.000	0.062	51.824
23.000	0.061	53.682
24.000	0.060	55.522
25.000	0.060	57.344
26.000	0.059	59.151
27.000	0.059	60.942

Transient Deliverability Forecast

 Monthly Forecast

Composite Model

CORAL R.Baker#1-36,Comanche Cty,KS Novinger lime reef.UN-TREATED 160
 120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
28.000	0.058	62.718
29.000	0.058	64.479
30.000	0.057	66.226
31.000	0.057	67.960
32.000	0.056	69.679
33.000	0.056	71.385
34.000	0.056	73.078
35.000	0.055	74.758
36.000	0.055	76.426
37.000	0.054	78.081
38.000	0.054	79.723
39.000	0.053	81.354
40.000	0.053	82.972
41.000	0.053	84.579
42.000	0.052	86.174
43.000	0.052	87.757
44.000	0.052	89.329
45.000	0.051	90.889
46.000	0.051	92.438
47.000	0.050	93.976
48.000	0.050	95.503
49.000	0.050	97.019
50.000	0.049	98.524
51.000	0.049	100.018
52.000	0.049	101.502
53.000	0.048	102.974
54.000	0.048	104.436
55.000	0.048	105.888
56.000	0.047	107.329
57.000	0.047	108.760
58.000	0.047	110.181
59.000	0.046	111.591
60.000	0.046	112.992
61.000	0.046	114.382
62.000	0.045	115.762
63.000	0.045	117.133
64.000	0.045	118.494
65.000	0.044	119.845
66.000	0.044	121.186

Transient Deliverability Forecast

 Monthly Forecast

Composite Model

CORAL R.Baker#1-36,Comanche Cty,KS Novinger lime reef.UN-TREATED 160
 120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
67.000	0.044	122.518
68.000	0.043	123.840
69.000	0.043	125.153
70.000	0.043	126.456
71.000	0.042	127.750
72.000	0.042	129.035
73.000	0.042	130.310
74.000	0.042	131.577
75.000	0.041	132.834
76.000	0.041	134.082
77.000	0.041	135.322
78.000	0.040	136.552
79.000	0.040	137.774
80.000	0.040	138.987
81.000	0.039	140.192
82.000	0.039	141.387
83.000	0.039	142.575
84.000	0.039	143.753
85.000	0.038	144.923
86.000	0.038	146.085
87.000	0.038	147.239
88.000	0.038	148.384
89.000	0.037	149.521
90.000	0.037	150.650
91.000	0.037	151.771
92.000	0.036	152.884
93.000	0.036	153.989
94.000	0.036	155.086
95.000	0.036	156.175
96.000	0.035	157.257
97.000	0.035	158.331
98.000	0.035	159.397
99.000	0.035	160.455
100.000	0.034	161.506
101.000	0.034	162.549
102.000	0.034	163.585
103.000	0.034	164.613
104.000	0.033	165.634
105.000	0.033	166.648

Transient Deliverability Forecast

Monthly Forecast

Composite Model

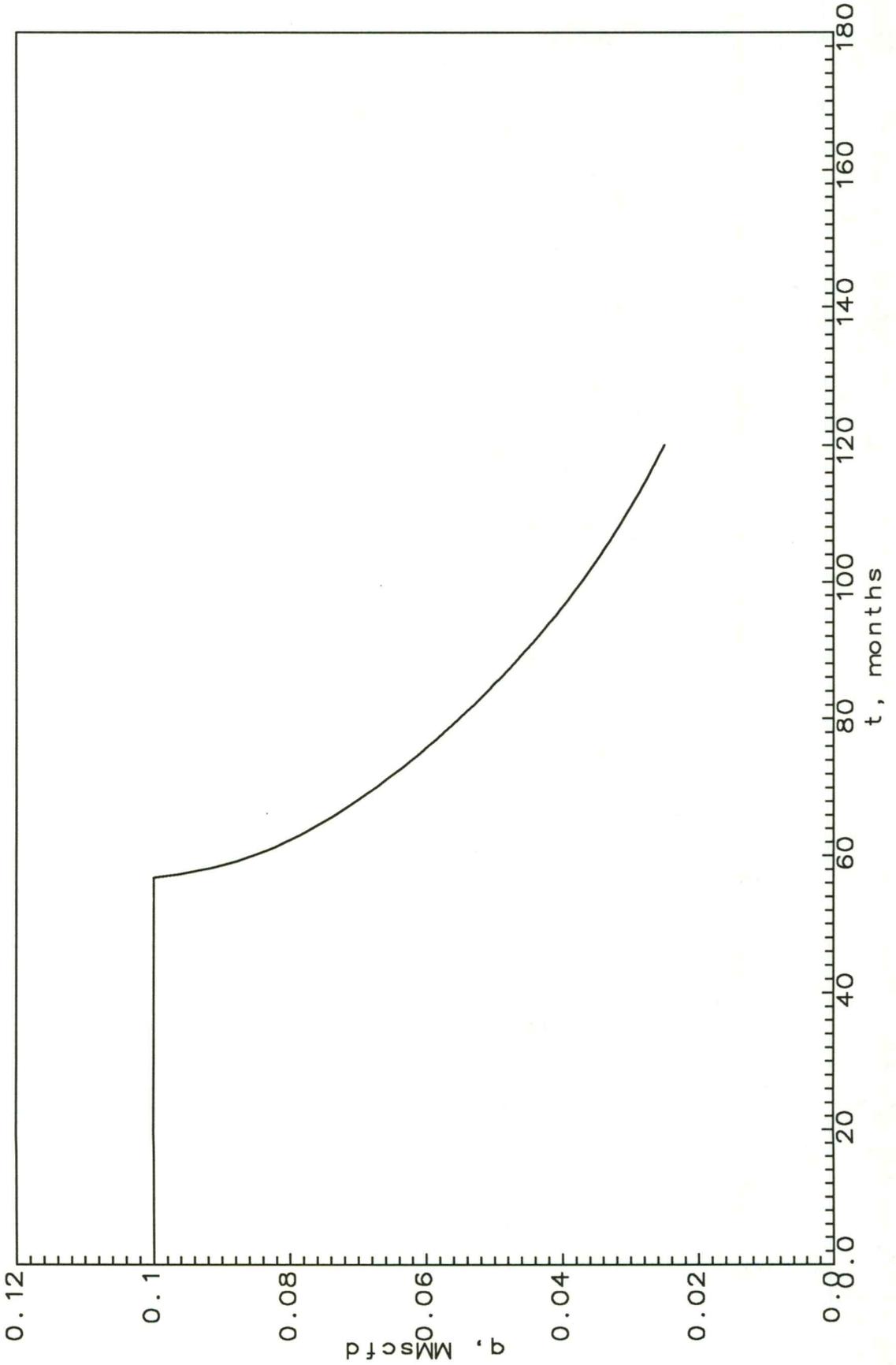
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120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
106.000	0.033	167.654
107.000	0.033	168.654
108.000	0.033	169.646
109.000	0.032	170.631
110.000	0.032	171.609
111.000	0.032	172.580
112.000	0.032	173.544
113.000	0.031	174.501
114.000	0.031	175.452
115.000	0.031	176.395
116.000	0.031	177.332
117.000	0.030	178.262
118.000	0.030	179.185
119.000	0.030	180.102
120.000	0.030	181.012

TRANS I GAS

COMPOSITE MODEL

CORAL R. Baker #1-36, Comanche Cty, KS
120' SW Sec. 36 Twp. 33s Rge. 20w
Novinger Lime reef. TREATED 160 ACRE Reservoir Pressure = 2000 psi
ESE and ASSOCIATES INC. 98-09-10 Flowing Pressure = 100 psi



Transient Deliverability Forecast

 Monthly Forecast

Composite Model

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 120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10

Initial Reservoir Pressure = 2000.0 psi
 Sandface Flowing Pressure = 100.0 psi
 Contract Gas Rate = 0.100 MMcf/d
 Surface Loss = 0.00 %

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
1.000	0.100	3.050
2.000	0.100	6.100
3.000	0.100	9.150
4.000	0.100	12.200
5.000	0.100	15.250
6.000	0.100	18.300
7.000	0.100	21.350
8.000	0.100	24.400
9.000	0.100	27.450
10.000	0.100	30.500
11.000	0.100	33.550
12.000	0.100	36.600
13.000	0.100	39.650
14.000	0.100	42.700
15.000	0.100	45.750
16.000	0.100	48.800
17.000	0.100	51.850
18.000	0.100	54.900
19.000	0.100	57.950
20.000	0.100	61.000
21.000	0.100	64.050
22.000	0.100	67.100
23.000	0.100	70.150
24.000	0.100	73.200
25.000	0.100	76.250
26.000	0.100	79.300
27.000	0.100	82.350
28.000	0.100	85.400

Transient Deliverability Forecast

 Monthly Forecast

Composite Model

CORAL R.Baker#1-36,Comanche Cty,KSNovinger lime reef. TREATED 160 ACRE
 120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
29.000	0.100	88.450
30.000	0.100	91.500
31.000	0.100	94.550
32.000	0.100	97.600
33.000	0.100	100.650
34.000	0.100	103.700
35.000	0.100	106.750
36.000	0.100	109.800
37.000	0.100	112.850
38.000	0.100	115.900
39.000	0.100	118.950
40.000	0.100	122.000
41.000	0.100	125.050
42.000	0.100	128.100
43.000	0.100	131.150
44.000	0.100	134.200
45.000	0.100	137.250
46.000	0.100	140.300
47.000	0.100	143.350
48.000	0.100	146.400
49.000	0.100	149.450
50.000	0.100	152.500
51.000	0.100	155.550
52.000	0.100	158.600
53.000	0.100	161.650
54.000	0.100	164.700
55.000	0.100	167.750
56.000	0.100	170.800
56.508	0.100	172.351
57.000	0.096	173.792
58.000	0.091	176.579
59.000	0.088	179.256
60.000	0.085	181.845
61.000	0.082	184.360
62.000	0.080	186.808
63.000	0.078	189.195
64.000	0.076	191.529
65.000	0.075	193.809
66.000	0.073	196.040

Transient Deliverability Forecast

 Monthly Forecast

Composite Model

CORAL R. Baker#1-36, Comanche Cty, KS Novinger lime reef. TREATED 160 ACRE
 120' SW SW Sec. 36 Twp. 33s Rge. 20w ESE and ASSOCIATES INC. 98-09-10

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
67.000	0.072	198.223
68.000	0.070	200.361
69.000	0.069	202.456
70.000	0.067	204.507
71.000	0.066	206.517
72.000	0.065	208.488
73.000	0.063	210.419
74.000	0.062	212.311
75.000	0.061	214.167
76.000	0.060	215.986
77.000	0.058	217.769
78.000	0.057	219.517
79.000	0.056	221.231
80.000	0.055	222.912
81.000	0.054	224.560
82.000	0.053	226.175
83.000	0.052	227.759
84.000	0.051	229.312
85.000	0.050	230.834
86.000	0.049	232.327
87.000	0.048	233.791
88.000	0.047	235.226
89.000	0.046	236.633
90.000	0.045	238.013
91.000	0.044	239.366
92.000	0.043	240.693
93.000	0.043	241.993
94.000	0.042	243.268
95.000	0.041	244.519
96.000	0.040	245.745
97.000	0.039	246.947
98.000	0.039	248.126
99.000	0.038	249.281
100.000	0.037	250.414
101.000	0.036	251.525
102.000	0.036	252.615
103.000	0.035	253.683
104.000	0.034	254.730
105.000	0.034	255.757

Transient Deliverability Forecast

Monthly Forecast

Composite Model

CORAL R.Baker#1-36,Comanche Cty,KSNovinger lime reef.TREATED 160 ACRE
120'SW SW Sec.36Twp.33sRge.20w ESEandASSOCIATES INC.98-09-10

Months Of Production	Forecast Rate MMcf/d	Cumulative Production MMcf
-----	-----	-----
106.000	0.033	256.764
107.000	0.032	257.751
108.000	0.032	258.719
109.000	0.031	259.668
110.000	0.031	260.598
111.000	0.030	261.511
112.000	0.029	262.405
113.000	0.029	263.282
114.000	0.028	264.142
115.000	0.028	264.986
116.000	0.027	265.812
117.000	0.027	266.623
118.000	0.026	267.418
119.000	0.026	268.197
120.000	0.025	268.962

VALIDATA LISTING

Every Point Printed

W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate									
hr	psi	MMcf/d									
2000.0000	242.30	0.1100	2005.2160	351.08	0.0000	2011.8160	436.60	0.0000	2018.4160	486.37	0.0000
2000.2500	242.40	0.1100	2005.4160	355.28	0.0000	2012.0160	438.45	0.0000	2018.6160	487.72	0.0000
2000.2830	198.25	0.1100	2005.6160	359.31	0.0000	2012.2160	440.21	0.0000	2018.8160	488.98	0.0000
2000.3160	203.79	0.1100	2005.8160	363.08	0.0000	2012.4160	441.98	0.0000	2019.0160	490.23	0.0000
2000.4000	210.00	0.1100	2006.0160	366.69	0.0000	2012.6160	443.65	0.0000	2019.2160	491.41	0.0000
2000.4830	212.10	0.1100	2006.2160	370.13	0.0000	2012.8160	445.25	0.0000	2019.4160	492.67	0.0000
2000.5660	213.27	0.1100	2006.4160	373.58	0.0000	2013.0160	446.93	0.0000	2019.6160	493.84	0.0000
2000.6500	213.95	0.1100	2006.6160	376.68	0.0000	2013.2160	448.61	0.0000	2019.8160	495.18	0.0000
2000.7330	214.78	0.1100	2006.8160	379.87	0.0000	2013.4160	450.12	0.0000	2020.0160	496.36	0.0000
2000.8160	215.12	0.1100	2007.0160	382.89	0.0000	2013.6160	451.88	0.0000	2020.2160	497.62	0.0000
2000.9000	215.54	0.1100	2007.2160	385.74	0.0000	2013.8160	453.56	0.0000	2020.4160	498.80	0.0000
2000.9830	215.87	0.1100	2007.4160	388.43	0.0000	2014.0160	455.15	0.0000	2020.6160	499.88	0.0000
2001.1500	216.71	0.1100	2007.6160	391.20	0.0000	2014.2160	456.58	0.0000	2020.8160	501.13	0.0000
2001.3160	216.97	0.1100	2007.8160	393.97	0.0000	2014.4160	458.17	0.0000	2021.0160	502.31	0.0000
2001.4830	217.64	0.1100	2008.0160	396.49	0.0000	2014.6160	459.68	0.0000	2021.2160	503.50	0.0000
2001.6500	219.06	0.1100	2008.2160	398.92	0.0000	2014.8160	461.28	0.0000	2021.4160	504.57	0.0000
2001.8160	219.82	0.1100	2008.4160	401.44	0.0000	2015.0160	462.71	0.0000	2021.6160	505.68	0.0000
2001.9330	219.99	0.1100	2008.6160	403.87	0.0000	2015.2160	464.22	0.0000	2021.8160	506.77	0.0000
2002.2330	219.90	0.1100	2008.8160	406.14	0.0000	2015.4160	465.73	0.0000	2022.0160	507.94	0.0000
2002.4160	219.99	0.1100	2009.0160	408.49	0.0000	2015.6160	467.15	0.0000	2022.2160	509.03	0.0000
2002.6160	242.40	0.0000	2009.2160	410.67	0.0000	2015.8160	468.58	0.0000	2022.4160	510.21	0.0000
2002.8160	260.52	0.0000	2009.4160	412.94	0.0000	2016.0160	470.18	0.0000	2022.6160	511.30	0.0000
2003.0160	274.62	0.0000	2009.6160	415.12	0.0000	2016.2160	471.52	0.0000	2022.8160	512.46	0.0000
2003.2160	286.29	0.0000	2009.8160	417.13	0.0000	2016.4160	472.95	0.0000	2023.0160	513.57	0.0000
2003.4160	296.03	0.0000	2010.0160	419.32	0.0000	2016.6160	474.37	0.0000	2023.2160	514.56	0.0000
2003.6160	304.75	0.0000	2010.2160	421.33	0.0000	2016.8160	475.72	0.0000	2023.4160	515.75	0.0000
2003.8160	312.39	0.0000	2010.4160	423.34	0.0000	2017.0160	477.06	0.0000	2023.6160	516.74	0.0000
2004.0160	319.27	0.0000	2010.6160	425.36	0.0000	2017.2160	478.40	0.0000	2023.8330	518.27	0.0000
2004.2160	325.82	0.0000	2010.8160	427.29	0.0000	2017.4160	479.74	0.0000	2024.2160	519.95	0.0000
2004.4160	331.70	0.0000	2011.0160	429.30	0.0000	2017.6160	481.17	0.0000	2024.5500	521.88	0.0000
2004.6160	337.07	0.0000	2011.2160	431.15	0.0000	2017.8160	482.51	0.0000	2024.8330	523.97	0.0000
2004.8160	341.93	0.0000	2011.4160	433.00	0.0000	2018.0160	483.86	0.0000	2025.2160	526.07	0.0000
2005.0160	346.55	0.0000	2011.6160	434.76	0.0000	2018.2160	485.20	0.0000	2025.5500	527.75	0.0000

VALIDATA LISTING

CORAL R. Baker#1-36, Comanche Cty, KS
 120'SW SW Sec. 36Twp. 33sRge. 20w
 Novinger lime reef. 98-06-03
 ESEandASSOCIATES INC. 98-09-10

Every Point Printed

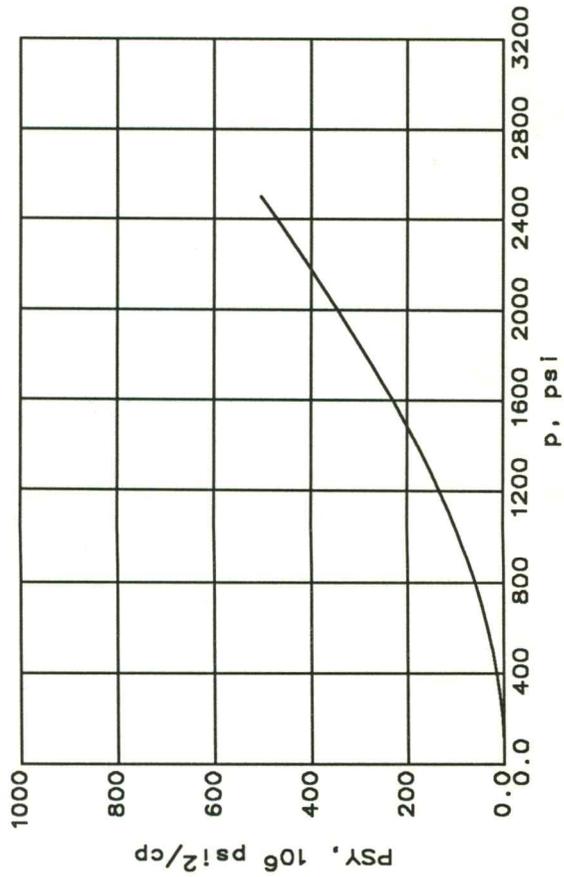
W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate	W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate	W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate
hr	psi	MMcf/d	hr	psi	MMcf/d	hr	psi	MMcf/d
2025.8830	529.35	0.0000	2036.8830	575.93	0.0000	2047.9660	614.03	0.0000
2026.2160	530.86	0.0000	2037.2160	576.85	0.0000	2048.3000	615.04	0.0000
2026.5500	532.28	0.0000	2037.5500	577.86	0.0000	2048.6330	615.96	0.0000
2026.8830	533.71	0.0000	2037.8830	579.53	0.0000	2048.9660	617.13	0.0000
2027.2160	535.22	0.0000	2038.2160	581.04	0.0000	2049.3000	618.22	0.0000
2027.5500	536.65	0.0000	2038.5500	582.14	0.0000	2049.6330	619.23	0.0000
2027.8830	537.99	0.0000	2038.8830	583.23	0.0000	2049.9660	620.16	0.0000
2028.2160	539.33	0.0000	2039.2160	584.40	0.0000	2050.3000	621.08	0.0000
2028.5500	540.93	0.0000	2039.5500	585.49	0.0000	2050.6330	622.25	0.0000
2028.8830	542.02	0.0000	2039.8830	586.75	0.0000	2050.9660	623.26	0.0000
2029.2160	543.11	0.0000	2040.2160	588.26	0.0000	2051.3000	624.27	0.0000
2029.5500	545.04	0.0000	2040.5500	589.35	0.0000	2051.6330	625.11	0.0000
2029.8830	546.97	0.0000	2040.8830	590.44	0.0000	2051.9660	626.20	0.0000
2030.2160	548.82	0.0000	2041.2160	591.45	0.0000	2052.3000	627.29	0.0000
2030.5500	550.33	0.0000	2041.5500	592.54	0.0000	2052.6330	628.21	0.0000
2030.8830	551.67	0.0000	2041.8830	593.97	0.0000	2052.9660	629.14	0.0000
2031.2160	552.93	0.0000	2042.2160	595.31	0.0000	2053.3000	630.06	0.0000
2031.5500	554.27	0.0000	2042.5500	596.24	0.0000	2053.6330	631.15	0.0000
2031.8830	555.53	0.0000	2042.8830	597.49	0.0000	2053.9660	632.07	0.0000
2032.2160	556.79	0.0000	2043.2160	598.33	0.0000	2054.3000	633.08	0.0000
2032.5500	557.80	0.0000	2043.5500	599.42	0.0000	2054.6330	633.92	0.0000
2032.8830	559.73	0.0000	2043.8830	600.94	0.0000	2054.9660	634.76	0.0000
2033.2160	561.49	0.0000	2044.2160	602.03	0.0000	2055.3000	635.93	0.0000
2033.5500	562.83	0.0000	2044.5500	602.95	0.0000	2055.6330	636.77	0.0000
2033.8830	564.09	0.0000	2044.8830	603.96	0.0000	2055.9660	637.70	0.0000
2034.2160	565.35	0.0000	2045.2160	604.88	0.0000	2056.3000	638.62	0.0000
2034.5500	566.53	0.0000	2045.5500	606.31	0.0000	2056.6330	639.54	0.0000
2034.8830	567.78	0.0000	2045.8830	607.40	0.0000	2056.9660	640.63	0.0000
2035.2160	568.88	0.0000	2046.2160	608.41	0.0000	2057.3000	641.47	0.0000
2035.5500	570.47	0.0000	2046.5500	609.41	0.0000	2057.6330	642.31	0.0000
2035.8830	572.15	0.0000	2046.8830	610.42	0.0000	2057.9660	643.15	0.0000
2036.2160	573.41	0.0000	2047.2160	611.59	0.0000	2058.3000	644.16	0.0000
2036.5500	574.58	0.0000	2047.5500	612.77	0.0000	2058.6330	645.17	0.0000

VALIDATA LISTING

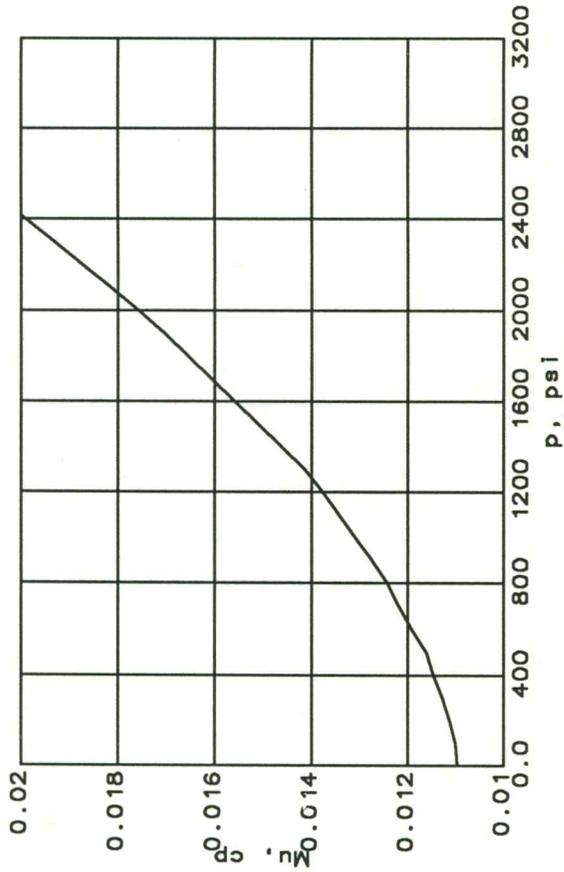
CORAL R. Baker #1-36, Comanche Cty, KS
 120' SW SW Sec. 36 Twp. 33 S Rge. 20 W
 Novinger lime reef. 98-06-03
 ESE and ASSOCIATES INC. 98-09-10

W. T. P. TIME	W. T. P. Pressure	W. T. P. Gas Rate	W. T. P. TIME	W. T. P. Pressure	W. T. P. Gas Rate	W. T. P. TIME	W. T. P. Pressure	W. T. P. Gas Rate
hr	psi	MMcf/d	hr	psi	MMcf/d	hr	psi	MMcf/d
2069.9660	673.87	0.0000	2080.9660	698.63	0.0000	2091.9660	720.95	0.0000
2070.3000	674.62	0.0000	2081.3000	699.30	0.0000	2092.3000	721.71	0.0000
2070.6330	675.30	0.0000	2081.6330	699.97	0.0000	2092.6330	722.30	0.0000
2070.9660	676.05	0.0000	2081.9660	700.64	0.0000	2092.9660	722.88	0.0000
2071.3000	676.97	0.0000	2082.3000	701.40	0.0000	2093.3000	723.64	0.0000
2071.6330	677.65	0.0000	2082.6330	702.15	0.0000	2093.6330	724.23	0.0000
2071.9660	678.40	0.0000	2082.9660	702.74	0.0000	2093.9660	724.98	0.0000
2072.3000	679.16	0.0000	2083.3000	703.50	0.0000	2094.3000	725.48	0.0000
2072.6330	680.00	0.0000	2083.6330	704.25	0.0000	2094.6330	726.24	0.0000
2072.9660	680.83	0.0000	2083.9660	704.84	0.0000	2094.9660	726.74	0.0000
2073.3000	681.42	0.0000	2084.3000	705.59	0.0000	2095.3000	727.41	0.0000
2073.6330	682.09	0.0000	2084.6330	706.35	0.0000	2095.6660	727.67	0.0000
2073.9660	683.10	0.0000	2084.9660	706.94	0.0000			
2074.3000	683.86	0.0000	2085.3000	707.61	0.0000			
2074.6330	684.53	0.0000	2085.6330	708.28	0.0000			
2074.9660	685.28	0.0000	2085.9660	709.03	0.0000			
2075.3000	686.12	0.0000	2086.3000	709.71	0.0000			
2075.6330	686.88	0.0000	2086.6330	710.29	0.0000			
2075.9660	687.63	0.0000	2086.9660	711.05	0.0000			
2076.3000	688.22	0.0000	2087.3000	711.72	0.0000			
2076.6330	689.06	0.0000	2087.6330	712.31	0.0000			
2076.9660	689.82	0.0000	2087.9660	712.98	0.0000			
2077.3000	690.57	0.0000	2088.3000	713.73	0.0000			
2077.6330	691.33	0.0000	2088.6330	714.41	0.0000			
2077.9660	692.00	0.0000	2088.9660	715.08	0.0000			
2078.3000	692.75	0.0000	2089.3000	715.66	0.0000			
2078.6330	693.51	0.0000	2089.6330	716.50	0.0000			
2078.9660	694.10	0.0000	2089.9660	717.18	0.0000			
2079.3000	695.02	0.0000	2090.3000	717.60	0.0000			
2079.6330	695.77	0.0000	2090.6330	718.35	0.0000			
2079.9660	696.36	0.0000	2090.9660	719.02	0.0000			
2080.3000	697.03	0.0000	2091.3000	719.69	0.0000			
2080.6330	697.79	0.0000	2091.6330	720.36	0.0000			

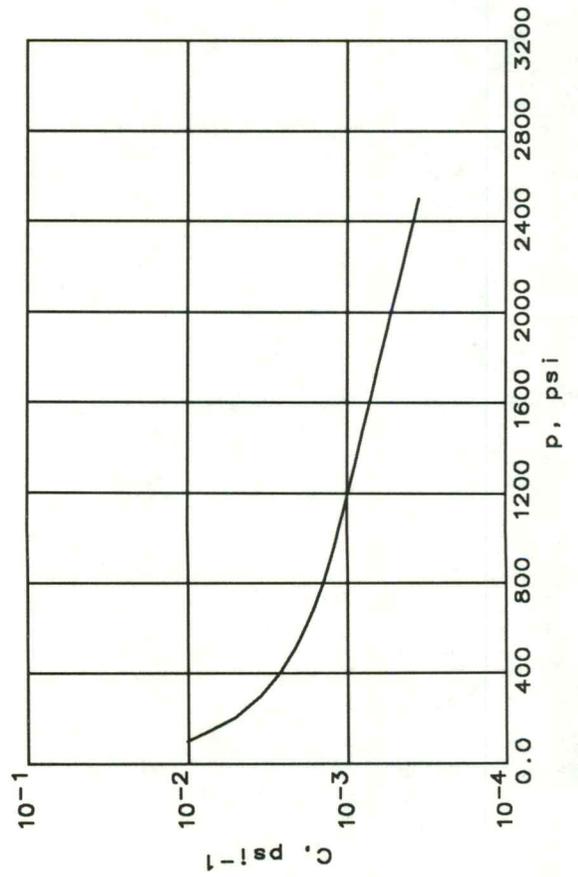
PSEUDO PRESSURE vs PRESSURE
 CORAL R. Baker #1-36, Comanche Cty, KS
 120' SW SW Sec. 36 Twp. 33s Rge. 20w



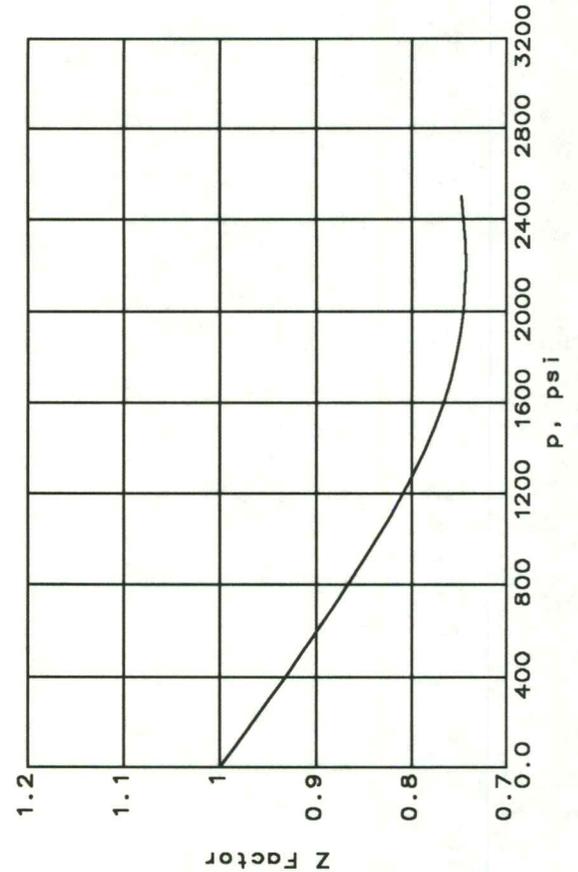
GAS VISCOSITY vs PRESSURE
 Novinger Lime reef. 98-06-30
 ESE and ASSOCIATES INC. 98-09-10



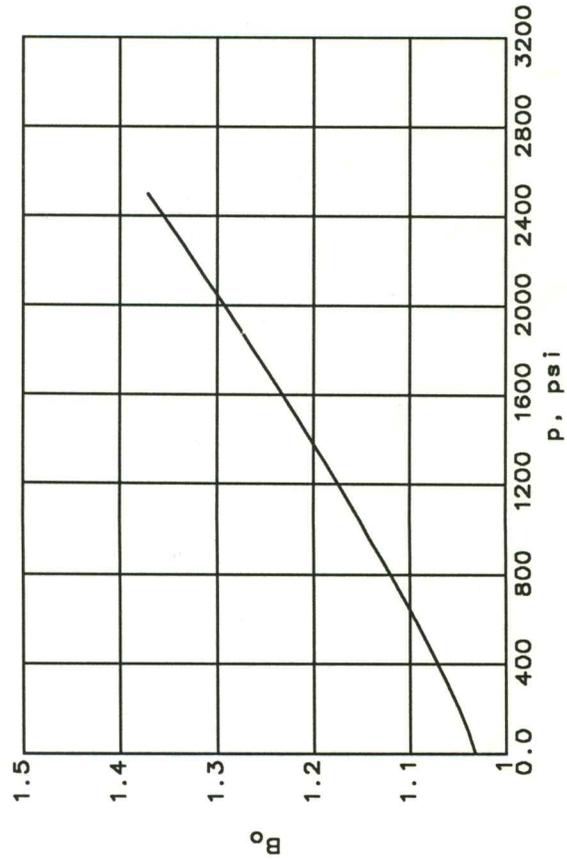
GAS COMPRESSIBILITY vs PRESSURE



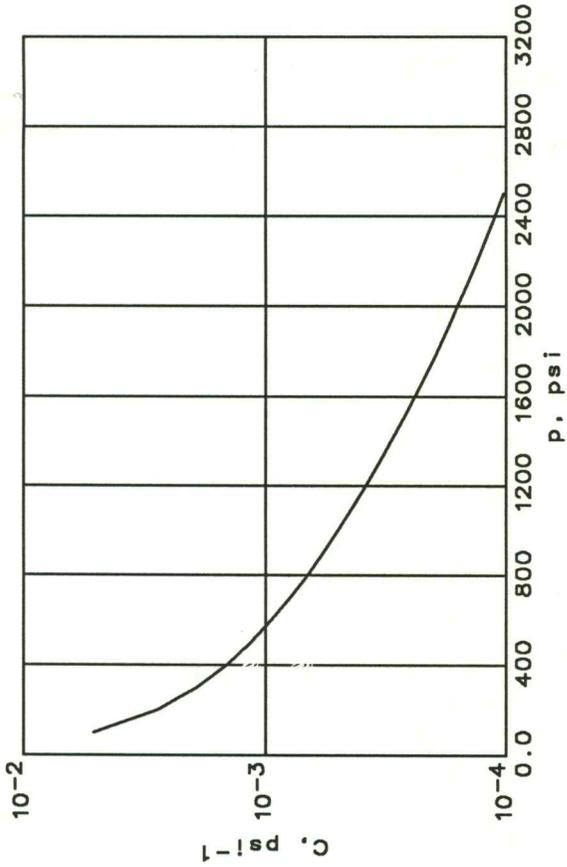
Z FACTOR vs PRESSURE



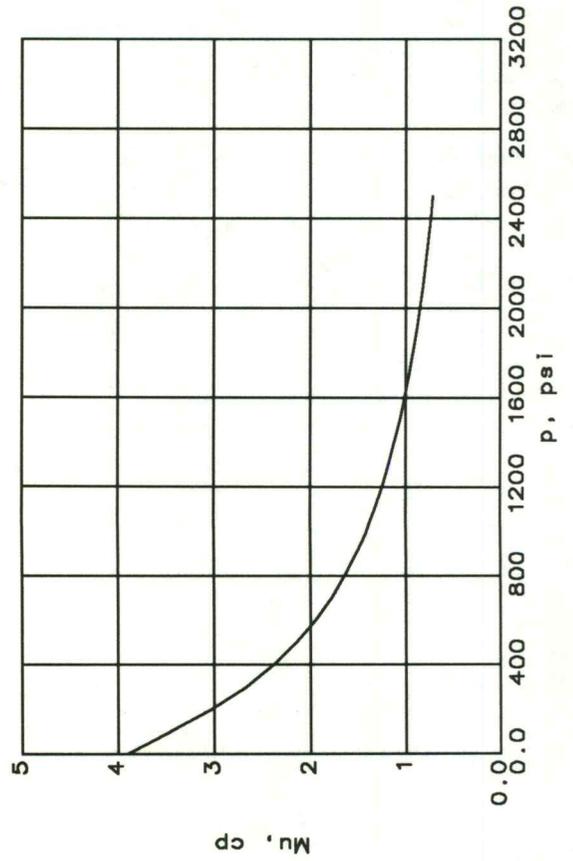
FORMATION VOLUME FACTOR vs PRESSURE
 CORAL R. Baker #1-36, Comanche Cty, KS
 120' SW SW Sec. 36 Twp. 33s Rge. 20w



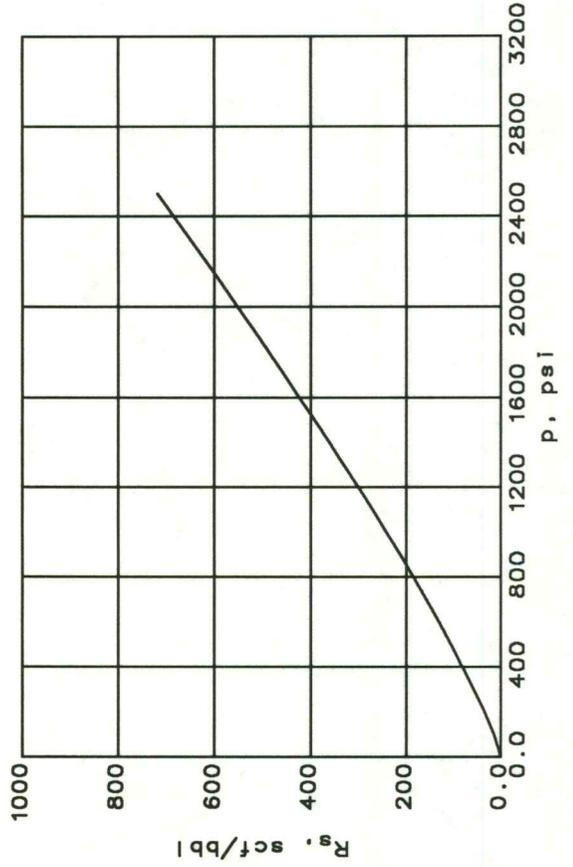
OIL COMPRESSIBILITY vs PRESSURE
 Novinger Lime reef 98-06-30
 ESE and ASSOCIATES INC. 98-09-10



OIL VISCOSITY vs PRESSURE



SOLUTION GAS RATIO vs PRESSURE



ESE and ASSOCIATES INC.

DST Interpretation - Pressure Transient - Deliverability Analysis
Material Balance Determination - Property Evaluation

CORAL COAST PETROLEUM, L. C.
CORAL R. Baker #1-36
120' SW SW Sec.36. Twp. 33w Rge.20w
Comanche County, Kansas
Novinger Lime Reef

DST #1
TRILOBITE TESTING L.L.C.
1998-03-03

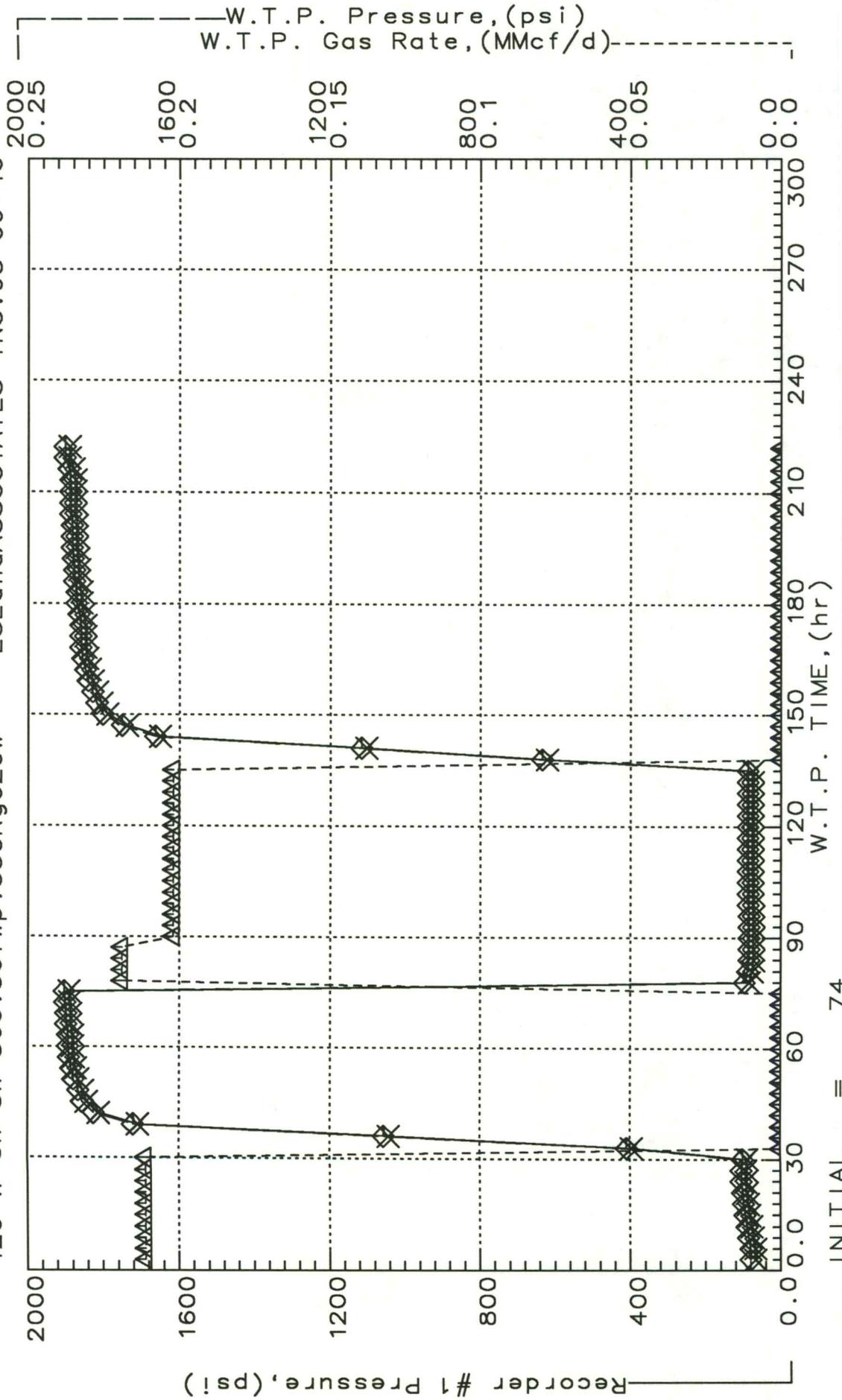
Prepared
1998 September 10
as a supplement to Pressure Transient Analysis
K. Glen Morrison

F.A.S.T.™ Fekete Software Systems used on all analysis

VALIDATA

CORAL Baker #1-36, Comanche Cty, KS
 120'W SW SW Sec. 36Twp. 33sRge20w

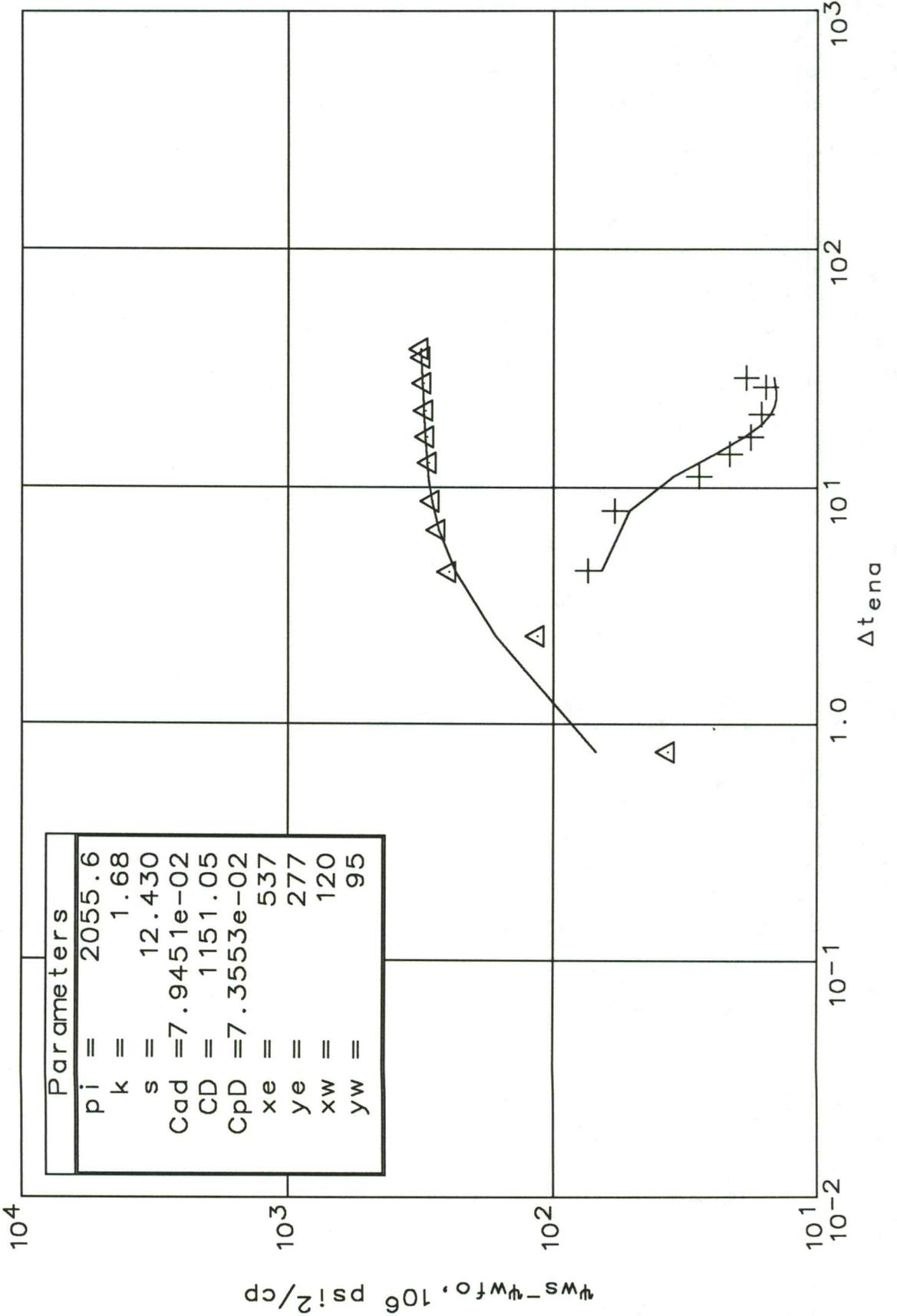
DST#1 Trilobite. 98-03-03
 ESEandASSOCIATES INC. 98-09-16



INITIAL = 74
 DELETED = 0
 REMAINING = 74

STORAGE - SKIN - BOUNDARIES

CORAL Baker#1-36 Comanche Cty, KS
 120'W SW Sec. 36Twp. 33sRge20w
 DST#1 Trilobite. 98-03-03
 ESEandASSOCIATES INC. 98-09-16



W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate	W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate	W.T.P. TIME	W.T.P. Pressure	W.T.P. Gas Rate
hr	psi	MMcf/d	hr	psi	MMcf/d	hr	psi	MMcf/d
3.0000	80.00	0.2110½	102.0000	87.00	0.2020½	201.0000	1884.00	0.0000½
6.0000	80.00	0.2110½	105.0000	87.00	0.2020½	204.0000	1888.00	0.0000½
9.0000	86.00	0.2110½	108.0000	88.00	0.2020½	207.0000	1888.00	0.0000½
12.0000	90.00	0.2110½	111.0000	88.00	0.2020½	210.0000	1888.00	0.0000½
15.0000	95.00	0.2110½	114.0000	88.00	0.2020½	213.0000	1888.00	0.0000½
18.0000	99.00	0.2110½	117.0000	88.00	0.2020½	216.0000	1893.00	0.0000½
21.0000	102.00	0.2110½	120.0000	88.00	0.2020½	219.0000	1903.00	0.0000½
24.0000	105.00	0.2110½	123.0000	88.00	0.2020½	222.0000	1903.00	0.0000½
27.0000	105.00	0.2110½	126.0000	88.00	0.2020½			
30.0000	101.00	0.2110½	129.0000	88.00	0.2020½			
33.0000	409.00	0.0000½	132.0000	88.00	0.2020½			
36.0000	1056.00	0.0000½	135.0000	88.00	0.2020½			
39.0000	1722.00	0.0000½	138.0000	635.00	0.0000½			
42.0000	1826.00	0.0000½	141.0000	1116.00	0.0000½			
45.0000	1857.00	0.0000½	144.0000	1664.00	0.0000½			
48.0000	1867.00	0.0000½	147.0000	1752.00	0.0000½			
51.0000	1880.00	0.0000½	150.0000	1803.00	0.0000½			
54.0000	1886.00	0.0000½	153.0000	1819.00	0.0000½			
57.0000	1892.00	0.0000½	156.0000	1830.00	0.0000½			
60.0000	1894.00	0.0000½	159.0000	1842.00	0.0000½			
63.0000	1894.00	0.0000½	162.0000	1849.00	0.0000½			
66.0000	1899.00	0.0000½	165.0000	1856.00	0.0000½			
69.0000	1899.00	0.0000½	168.0000	1861.00	0.0000½			
72.0000	1902.00	0.0000½	171.0000	1861.00	0.0000½			
75.0000	1904.00	0.0000½	174.0000	1861.00	0.0000½			
78.0000	97.00	0.2190½	177.0000	1866.00	0.0000½			
81.0000	89.00	0.2190½	180.0000	1872.00	0.0000½			
84.0000	85.00	0.2190½	183.0000	1872.00	0.0000½			
87.0000	85.00	0.2190½	186.0000	1878.00	0.0000½			
90.0000	85.00	0.2020½	189.0000	1878.00	0.0000½			
93.0000	85.00	0.2020½	192.0000	1881.00	0.0000½			
96.0000	85.00	0.2020½	195.0000	1884.00	0.0000½			
99.0000	87.00	0.2020½	198.0000	1884.00	0.0000½			

