

DST REPORT

GENERAL INFORMATION

DATE : 6/3/96	TICKET : 22010
CUSTOMER : KYTEX, INC.	LEASE : PFLUGHOEFT
WELL : #3 TEST: 1	GEOLOGIST: MARTIN
ELEVATION: 1598 KB	FORMATION: LANSING 80' & 90'
SECTION : 24	TOWNSHIP : 15S
RANGE : 9W	STATE : KS
COUNTY: ELLSWORTH	CLOCK : 12
GAUGE SN#: 11018	RANGE : 4425

WELL INFORMATION

PERFORATION INTERVAL FROM: 2694.00 ft	TO: 2736.00 ft	TVD: 2736.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: OIL	
DEPTH OF RECORDERS: 2710.0 ft	2733.0 ft	
TEMPERATURE: 102.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2674.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 42.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 2689.0 ft	SIZE:	6.630 in
PACKER DEPTH: 2694.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRLG RIG 1	VISCOSITY : 42.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 10.400 cc
WEIGHT : 9.300 ppg	SERIAL NUMBER:
CHLORIDES : 8000 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
 IN 45 SECONDS. FINAL FLOW PERIOD STRONG BLOW -
 BOTTOM OF BUCKET IN 5 MINUTES. GAS TO SURFACE IN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

55 MINUTES. TOO SMALL TO MEASURE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
40.0	10.0	20.0	0.0	70.0	GAS & OIL CUT MUD
62.0	20.0	42.0	8.0	30.0	HV GAS & OIL C/SL WTR MUD
82.0	24.0	40.0	18.0	18.0	HV GAS C/WTR & MUD C/OIL
42.0	5.0	12.0	55.0	28.0	SL GAS & OIL C/MDY WTR
124.0	2.0	11.0	74.0	13.0	V SL GAS & OIL C/MDY WTR
0.0	0.0	0.0	0.0	0.0	CHLORIDES 50000 PPM
0.0	0.0	0.0	0.0	0.0	RW .090 @ 70 DEGREES F

RATE INFORMATION

OIL VOLUME: 0.5703 STB
 GAS VOLUME: 6.7354 SCF
 MUD VOLUME: 1.2517 STB
 WATER VOLUME: 1.8877 STB
 TOTAL FLUID : 3.7097 STB

TOTAL FLOW TIME: 120.0000 min.
 AVERAGE OIL RATE: 15.4488 STB/D
 AVERAGE WATER RATE: 29.0675 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1304.00

Description	Duration	p1	p End
INITIAL FLOW	60.00	31.00	96.00
INITIAL SHUT-IN	60.00		543.00
FINAL FLOW	60.00	111.00	159.00
FINAL SHUT-IN	60.00		518.00

FINAL HYDROSTATIC PRESSURE: 1267.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1310.30

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	60.00	83.80	95.20
INITIAL SHUT-IN	60.00		541.40
FINAL FLOW	60.00	173.30	157.00
FINAL SHUT-IN	60.00		516.50

FINAL HYDROSTATIC PRESSURE: 1241.20

Company: KYTEX INC.
 Well: PFLUGHOEFT #3 DST #1
 Field: TKT 22010

[Monday: June 3, 1996]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)

INITIAL HYDROSTATIC					
6	0	1:47:31	1.0420	1253.40	98.40
9	0	1:49: 1	1.0670	1309.00	98.60
12	0	1:50:31	1.0920	1310.30	98.80
START FLOW 1					
15	0	1:52: 1	1.1170	83.80	99.00
18	0	1:53:31	1.1420	35.00	99.20
21	0	1:55: 1	1.1670	30.70	99.40
24	0	1:56:31	1.1920	32.50	99.50
27	0	1:58: 1	1.2170	34.60	99.70
30	0	1:59:31	1.2420	36.40	99.90
33	0	2: 1: 1	1.2670	38.20	100.00
36	0	2: 2:31	1.2920	40.40	100.20
39	0	2: 4: 1	1.3170	43.30	100.30
42	0	2: 5:31	1.3420	46.20	100.50
45	0	2: 7: 1	1.3670	48.40	100.70
48	0	2: 8:31	1.3920	50.90	100.80
51	0	2:10: 1	1.4170	53.10	100.90
54	0	2:11:31	1.4420	55.30	101.00
57	0	2:13: 1	1.4670	57.10	101.10
60	0	2:14:31	1.4920	59.00	101.20
63	0	2:16: 1	1.5170	60.80	101.30
66	0	2:17:31	1.5420	62.60	101.40
69	0	2:19: 1	1.5670	64.10	101.40
72	0	2:20:31	1.5920	65.20	101.50
75	0	2:22: 1	1.6170	67.10	101.50
78	0	2:23:31	1.6420	68.50	101.60
81	0	2:25: 1	1.6670	70.00	101.70
84	0	2:26:31	1.6920	71.50	101.70
87	0	2:28: 1	1.7170	73.00	101.70
90	0	2:29:31	1.7420	74.50	101.80
93	0	2:31: 1	1.7670	76.00	101.80
96	0	2:32:31	1.7920	77.50	101.90
99	0	2:34: 1	1.8170	79.00	101.90
102	0	2:35:31	1.8420	80.90	101.90
105	0	2:37: 1	1.8670	82.40	102.00
108	0	2:38:31	1.8920	83.90	102.00
111	0	2:40: 1	1.9170	85.80	102.00
114	0	2:41:31	1.9420	86.90	102.00
117	0	2:43: 1	1.9670	88.80	102.10
120	0	2:44:31	1.9920	90.30	102.10
123	0	2:46: 1	2.0170	91.40	102.10
126	0	2:47:31	2.0420	92.90	102.10
129	0	2:49: 1	2.0670	94.10	102.20
132	0	2:50:31	2.0920	95.20	102.20
END FLOW 1					
START SHUTIN 1					
135	0	2:52: 1	2.1170	96.70	102.20
138	0	2:53:31	2.1420	144.40	102.20
141	0	2:55: 1	2.1670	191.80	102.20
144	0	2:56:31	2.1920	234.50	102.20
147	0	2:58: 1	2.2170	271.50	102.20
150	0	2:59:31	2.2420	301.70	102.30
153	0	3: 1: 1	2.2670	326.10	102.30
156	0	3: 2:31	2.2920	346.30	102.30

WESTERN TESTING CO., INC.

Company: KYTEX INC.
Well: PFLUGHOEFT #3 DST #1
Field: TKT 22010

[Monday: June 3, 1996]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg. F)
159	0	3: 4: 1	2.3170	363.10	102.30
162	0	3: 5:31	2.3420	377.60	102.40
165	0	3: 7: 1	2.3670	390.20	102.40
168	0	3: 8:31	2.3920	401.30	102.40
171	0	3:10: 1	2.4170	411.60	102.40
174	0	3:11:31	2.4420	420.70	102.40
177	0	3:13: 1	2.4670	429.10	102.40
180	0	3:14:31	2.4920	436.70	102.40
183	0	3:16: 1	2.5170	444.40	102.40
186	0	3:17:31	2.5420	451.20	102.40
189	0	3:19: 1	2.5670	457.70	102.40
192	0	3:20:31	2.5920	463.80	102.40
195	0	3:22: 1	2.6170	470.00	102.40
198	0	3:23:31	2.6420	475.30	102.40
201	0	3:25: 1	2.6670	480.30	102.40
204	0	3:26:31	2.6920	485.20	102.40
207	0	3:28: 1	2.7170	490.20	102.40
210	0	3:29:31	2.7420	494.80	102.40
213	0	3:31: 1	2.7670	499.00	102.40
216	0	3:32:31	2.7920	503.20	102.40
219	0	3:34: 1	2.8170	507.00	102.40
222	0	3:35:31	2.8420	510.80	102.40
225	0	3:37: 1	2.8670	514.20	102.40
228	0	3:38:31	2.8920	517.60	102.40
231	0	3:40: 1	2.9170	521.10	102.40
234	0	3:41:31	2.9420	524.50	102.40
237	0	3:43: 1	2.9670	527.20	102.40
240	0	3:44:31	2.9920	530.30	102.40
243	0	3:46: 1	3.0170	533.30	102.40
246	0	3:47:31	3.0420	536.00	102.40
249	0	3:49: 1	3.0670	538.70	102.40
252	0	3:50:31	3.0920	541.40	102.40
		END SHUTIN 1			
		START FLOW 2			
255	0	3:52: 1	3.1170	173.30	102.40
258	0	3:53:31	3.1420	111.40	102.40
261	0	3:55: 1	3.1670	113.70	102.40
264	0	3:56:31	3.1920	114.90	102.40
267	0	3:58: 1	3.2170	116.00	102.40
270	0	3:59:31	3.2420	117.50	102.40
273	0	4: 1: 1	3.2670	119.80	102.40
276	0	4: 2:31	3.2920	121.40	102.40
279	0	4: 4: 1	3.3170	122.90	102.40
282	0	4: 5:31	3.3420	124.40	102.40
285	0	4: 7: 1	3.3670	125.50	102.50
288	0	4: 8:31	3.3920	127.00	102.50
291	0	4:10: 1	3.4170	128.60	102.50
294	0	4:11:31	3.4420	129.30	102.50
297	0	4:13: 1	3.4670	130.80	102.50
300	0	4:14:31	3.4920	132.00	102.50
303	0	4:16: 1	3.5170	133.50	102.60
306	0	4:17:31	3.5420	134.60	102.60
309	0	4:19: 1	3.5670	135.70	102.60
312	0	4:20:31	3.5920	136.50	102.60
315	0	4:22: 1	3.6170	137.60	102.60

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg. F)
318	0	4:23:31	3.6420	138.40	102.60
321	0	4:25: 1	3.6670	139.90	102.60
324	0	4:26:31	3.6920	141.00	102.60
327	0	4:28: 1	3.7170	142.20	102.60
330	0	4:29:31	3.7420	142.50	102.70
333	0	4:31: 1	3.7670	144.10	102.70
336	0	4:32:31	3.7920	145.20	102.70
339	0	4:34: 1	3.8170	145.60	102.70
342	0	4:35:31	3.8420	147.10	102.70
345	0	4:37: 1	3.8670	147.80	102.70
348	0	4:38:31	3.8920	149.00	102.70
351	0	4:40: 1	3.9170	150.10	102.70
354	0	4:41:31	3.9420	150.90	102.70
357	0	4:43: 1	3.9670	151.70	102.70
360	0	4:44:31	3.9920	152.80	102.80
363	0	4:46: 1	4.0170	153.50	102.80
366	0	4:47:31	4.0420	155.10	102.80
369	0	4:49: 1	4.0670	155.50	102.80
372	0	4:50:31	4.0920	156.20	102.80
375	0	4:52: 1	4.1170	157.00	102.80
		END FLOW 2			
		START SHUTIN 2			
377	0	4:52:59	4.1330	181.80	102.80
378	0	4:53:31	4.1420	200.50	102.80
381	0	4:55: 1	4.1670	245.90	102.80
384	0	4:56:31	4.1920	280.30	102.80
387	0	4:58: 1	4.2170	307.00	102.80
390	0	4:59:31	4.2420	328.00	102.80
393	0	5: 1: 1	4.2670	345.50	102.80
396	0	5: 2:31	4.2920	359.60	102.80
399	0	5: 4: 1	4.3170	371.90	102.80
402	0	5: 5:31	4.3420	382.60	102.80
405	0	5: 7: 1	4.3670	392.10	102.90
408	0	5: 8:31	4.3920	400.80	102.90
411	0	5:10: 1	4.4170	408.50	102.90
414	0	5:11:31	4.4420	415.40	102.90
417	0	5:13: 1	4.4670	422.20	102.90
420	0	5:14:31	4.4920	428.30	102.90
423	0	5:16: 1	4.5170	434.10	102.90
426	0	5:17:31	4.5420	439.00	102.90
429	0	5:19: 1	4.5670	444.70	102.90
432	0	5:20:31	4.5920	449.70	102.90
435	0	5:22: 1	4.6170	453.90	102.90
438	0	5:23:31	4.6420	458.50	102.90
441	0	5:25: 1	4.6670	462.70	102.90
444	0	5:26:31	4.6920	466.50	102.90
447	0	5:28: 1	4.7170	470.70	102.90
450	0	5:29:31	4.7420	474.10	102.90
453	0	5:31: 1	4.7670	478.00	102.90
456	0	5:32:31	4.7920	481.00	102.90
459	0	5:34: 1	4.8170	484.50	102.90
462	0	5:35:31	4.8420	487.50	102.90
465	0	5:37: 1	4.8670	490.60	102.90
468	0	5:38:31	4.8920	493.60	102.90
471	0	5:40: 1	4.9170	496.30	102.90

WESTERN TESTING CO., INC.

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Well: PFLUGHOEFT #3 DST #1
Field: TKT 22010

[Monday: June 3, 1996]
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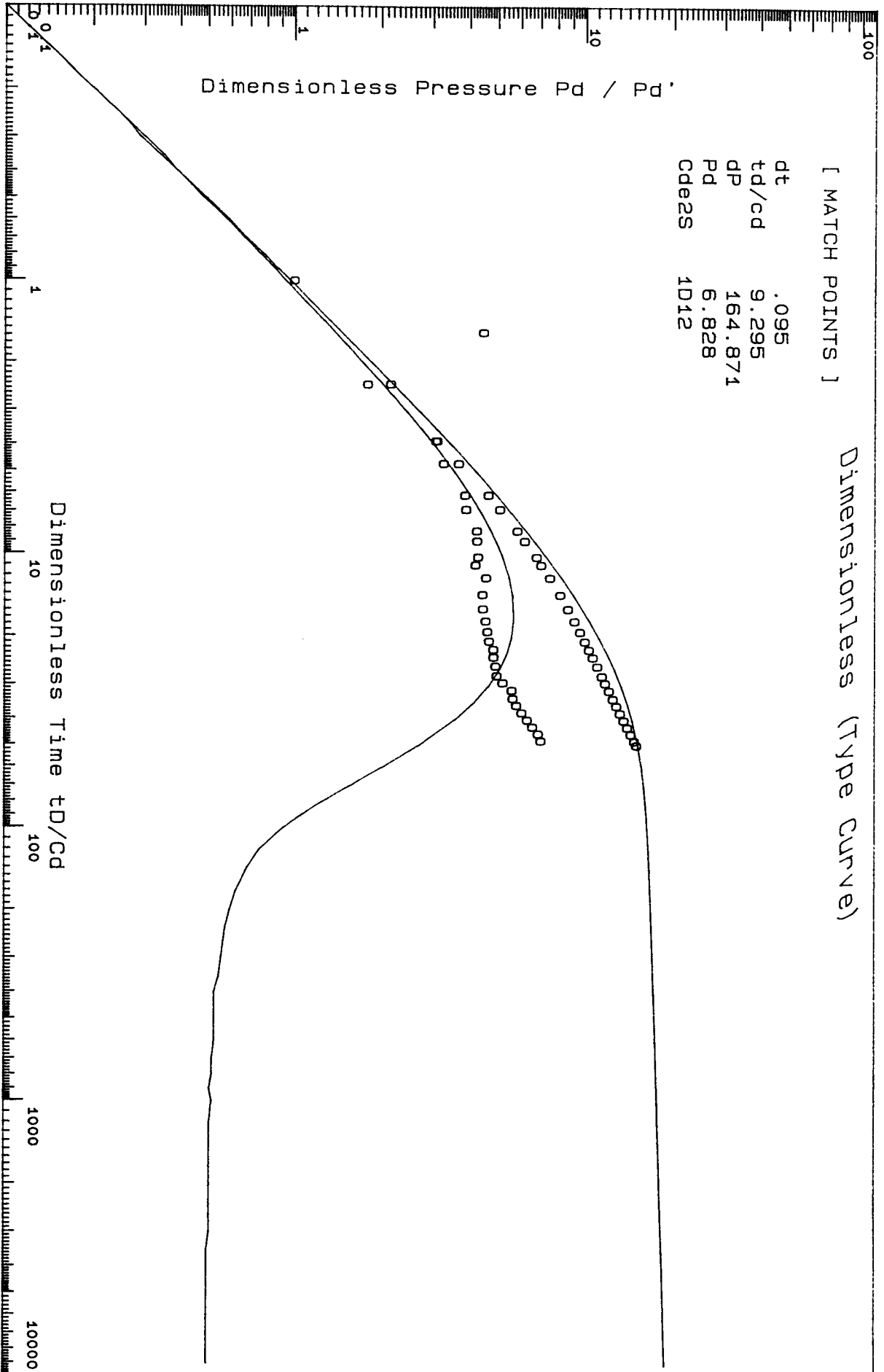
REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
474	0	5:41:31	4.9420	499.30	102.90
477	0	5:43: 1	4.9670	502.00	102.90
480	0	5:44:31	4.9920	504.70	102.90
483	0	5:46: 1	5.0170	507.00	102.90
486	0	5:47:31	5.0420	509.30	102.90
489	0	5:49: 1	5.0670	511.90	102.90
492	0	5:50:31	5.0920	514.20	102.90
495	0	5:52: 1	5.1170	516.50	102.90
		END SHUTIN 2			
498	0	5:53:31	5.1420	518.40	102.90
501	0	5:55: 1	5.1670	1268.60	102.90
504	0	5:56:31	5.1920	1267.20	102.80
		FINAL HYDROSTATIC			
507	0	5:58: 1	5.2170	1241.20	102.70

WESTERN TESTING CO., INC.

[MATCH POINTS]

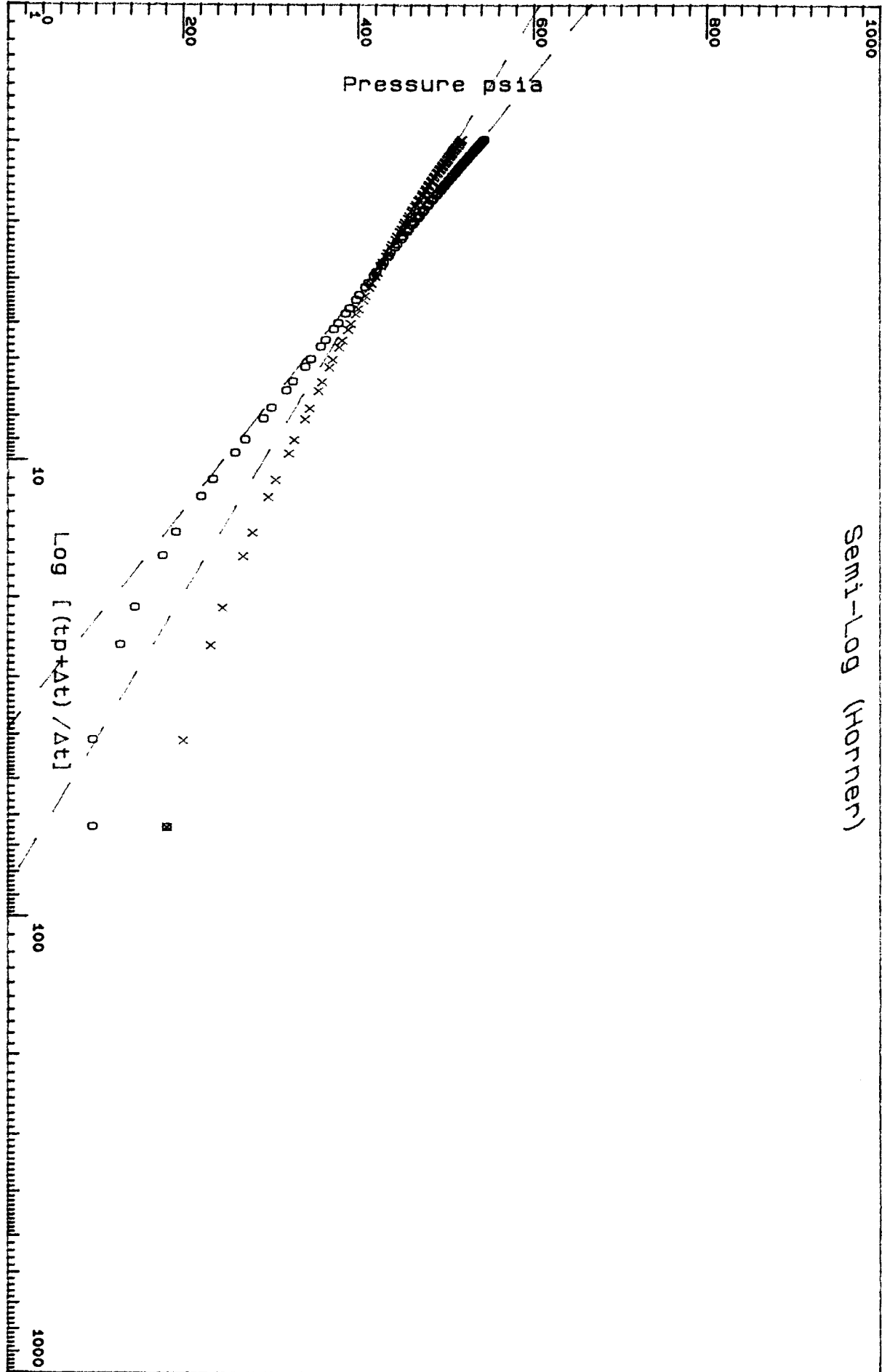
Dimensionless (Type Curve)

dt	.095
td/cd	9.295
dp	164.871
Pd	6.828
cdess	1D12



Company: KYTEX INC.
Well: PFLUGHOEFT #3 DST #1
Field: TKT 22010
Date: 06\03\1996

Semi-Log (Horner)



Company: KYTEX INC.
 Well: PFLUGHOEFT #3 DST #1
 Field: TKT 22010
 Date: 06\03\1996

SHUTIN 1 = 0
 M = -418.707
 P1HR = 539
 P* = 665

SHUTIN 2 = X
 M = -313.543
 P1HR = 512
 P* = 606

Company: KYTEX INC.
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06\03\1996

Gauge Depth 2710.0 feet

[INPUT PARAMETERS]
 (Build-Up Analysis)

Well Type - OIL			
Reservoir Pressure	psia	P	518
Reservoir Temperature	Deg F	T	102
Final Shut-in Pressure	psia	Psi	518
Final Flowing Pressure	psia	Pwf	159
Oil Flow Rate	STB/D	Qo	21
Sand Thickness	feet	hnet	16
Wellbore Radius	feet	rw	0.3300
Formation Porosity	%	POR	24
Extrapolated Pressure	psia	P*	606
Extrapolated Press @ 1hr	psia	P1hr	512
Semi-Log Slope	psi/cycle	M	-313.543
Production Time	hrs	tp	1.00
Shut-in Time	hrs	tsi	1.00

Uo (cp)	6.6444E+00	Bo (RB/STB)	1.0608E+00
Co (1/psi)	6.9823E-06	Ct (1/psi)	5.4759E-06

[TYPE CURVE MATCH POINTS]

dP	164.871		Pd	6.828
dt	0.095	Cde2S 1E +12	tD/Cd	9.295

[CALCULATED RESULTS]

(Semi-Log) Analysis

Pressure Method

Transmissibility	md-ft/cp	kh/u	11.552
Flow Capacity	md-ft	kh	76.758
Permeability	md	k	4.797
Skin Damage	total	S	-2.71
Pressure Drop due to Skin	psia	dP	+0.00
Flow Efficiency	%	FE	+100.00
Drainage Radius	feet	rd	21

Type Curve (Log-Log) Analysis

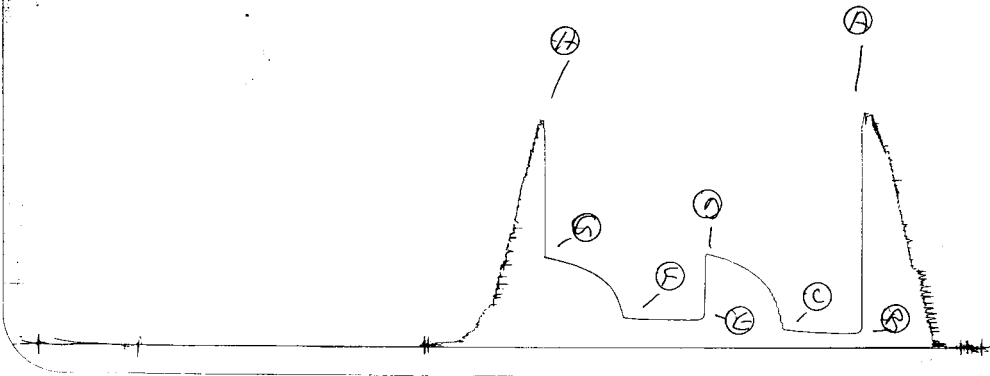
Transmissibility	md-ft/cp	kh/u	130.267
Flow Capacity	md-ft	kh	865.538
Permeability	md	k	54.096
Skin Damage	total	S	+11.30
Pressure Drop due to Skin	psia	dP	+272.84
Flow Efficiency	%	FE	+24.00

WESTERN TESTING CO., INC.

REC #11012
INVEST
D55#1

KT JJO10

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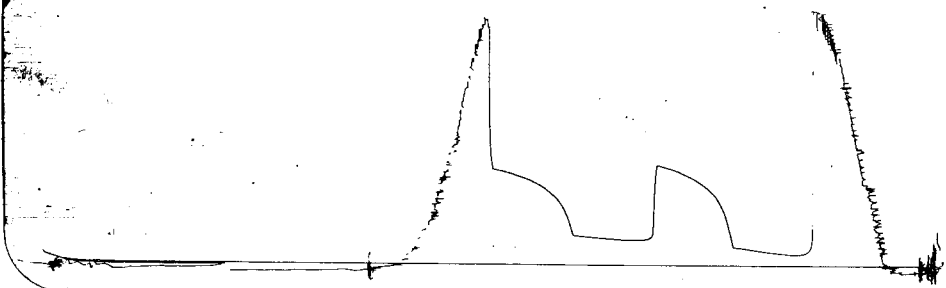


Inside Recorder

REC 10350
OUTSIDE
DST#1

KT JJO10

0



Outside Recorder