

WELL NAME: Roberts # 1-22
COMPANY: Ranken Energy Corp.
LOCATION: 22-16S-29W
Lane County Kansas
DATE: 09/03/97

TRILOBITE TESTING L.L.C.

OPERATOR : Ranken Energy Corp.

DATE 8-27-97

WELL NAME: Roberts #1-22

KB 2795.00 ft

TICKET NO: 10325

DST #1

LOCATION : 22-16S-29W Lane KS.

GR 2790.00 ft

FORMATION: Lans/KC "J"

INTERVAL : 4136.00 To 4159.00 ft

TD 4159.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2346			PF Fr. 2250 to 2320 hr
SI 45 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2320 to 0005 hr
SF 10 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 0005 to 0015 hr
FS 0 Depth(ft)	4154.0	4154.0	4138.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2053.0	2048.0	2027.0	0.0	0.0	T STARTED 2110 hr
B. First Flow	41.0	69.0	14.0	0.0	0.0	T ON BOTM 2247 hr
B1. Final Flow	41.0	57.0	26.0	0.0	0.0	T OPEN 2250 hr
C. In Shut-in	759.0	752.0	763.0	0.0	0.0	T PULLED 0015 hr
D. Init Flow	62.0	112.0	26.0	0.0	0.0	T OUT 0215 hr
E. Final Flow	62.0	90.0	30.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2023.0	2012.0	2015.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3167.00 ft
						H.W. I.D 2.80 in
						H.W. Length 567.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP

10.00 ft of Drilling Mud

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak surface blow throughout

Initial Shut In:

No Blow

Final Flow:

No return - flushed tool/good surge
no help. Pulled out of Hole at
company orders

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type Chemical

Weight 9.00 lb/cf

Vis. 40.00 S/L

W.L. 6.80 in3

F.C. 0.00 in

Mud Drop N

Amt. of fill 0.00 ft

Btm. H. Temp. 115.00 F

Hole Condition Good

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out N

Tool Chased N

Tester Rod Steinbrink

Co. Rep. Mark Herndon

Contr. Abercrombie

Rig # 8

Unit #

Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVETIONAL

WELL NAME: Roberts #1-22

LOCATION : 22-16S-29W Lane KS.

TICKET No. 10325 D.S.T. No. 1 DATE 8-27-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 23

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
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37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
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45	1	1	1
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94	1	1	1
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96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
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8	1	1	1
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90	1	1	1
91	1	1	1
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94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

TOTAL ASSEMBLY 43

D.C. ABOVE TOOLS.Stands	Single	Total
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
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24	1	1
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26	1	1
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96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

D.P. ABOVE TOOLS.Stands66 Single 1 Total 4139

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4182

TOTAL DEPTH 4159

TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS :

P.O. SUB 1' Above 120' WP 3996

C.O. SUB 1' 4116

S.I. TOOL 5' 4122

HMV 5' 4127

JARS N/A

SAFETY JOINT N/A

PACKER 4 ' 4131

PACKER 5' 4136

DEPTH
STUBB 1' 4137

ANCHOR

Alpine Rec. @ 4138

17' Perf. 4154

T.C.
DEPTH

AK-1 Rec. @ 4154

BULLNOSE 5'

T.D. 4159

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 10325 DST #1 Roberts #1-22 Ranken Energy Corp.
DATE: 08/27/97 TIME: 21:10:31

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	102.00	2027.1	0.0	115.45		
***** Start Flow 1	0.00	13.7	0.0	115.52		
	1.00	14.5	0.8	115.56		
	2.00	15.0	1.4	115.59		
	3.00	15.6	1.9	115.60		
	4.00	16.1	2.4	115.60		
	5.00	16.6	2.9	115.60		
	6.00	16.9	3.3	115.60		
	7.00	17.4	3.8	115.60		
	8.00	17.8	4.1	115.60		
	9.00	18.2	4.5	115.61		
	10.00	18.6	4.9	115.63		
	11.00	19.0	5.3	115.63		
	12.00	19.4	5.7	115.64		
	13.00	19.8	6.1	115.65		
	14.00	20.1	6.4	115.66		
	15.00	20.5	6.9	115.67		
	16.00	20.9	7.2	115.70		
	17.00	21.2	7.6	115.70		
	18.00	21.5	7.9	115.73		
	19.00	21.9	8.3	115.74		
	20.00	22.3	8.6	115.76		
	21.00	22.6	8.9	115.78		
	22.00	22.9	9.3	115.79		
	23.00	23.3	9.6	115.82		
	24.00	23.6	9.9	115.83		
	25.00	23.8	10.2	115.85		
	26.00	24.2	10.5	115.87		
	27.00	24.4	10.8	115.89		
	28.00	24.7	11.1	115.91		
	29.00	25.0	11.3	115.94		
	30.00	25.2	11.5	115.96		
	31.00	25.5	11.8	115.97		
***** End Flow 1	32.00	25.6	11.9	116.00		
***** Start Shutin 1	0.00	25.6	0.0	116.00	0.0000	0.001
	1.00	28.1	2.5	116.02	33.0000	0.001
	2.00	52.3	26.7	116.05	17.0000	0.003
	3.00	122.0	96.4	116.08	11.6667	0.015
	4.00	338.8	313.2	116.11	9.0000	0.115
	5.00	524.6	499.1	116.15	7.4000	0.275
	6.00	593.6	568.0	116.20	6.3333	0.352
	7.00	627.6	602.0	116.25	5.5714	0.394
	8.00	648.9	623.3	116.31	5.0000	0.421
	9.00	664.1	638.5	116.39	4.5556	0.441
	10.00	675.9	650.3	116.48	4.2000	0.457
	11.00	685.2	659.6	116.58	3.9091	0.469
	12.00	692.9	667.3	116.68	3.6667	0.480
	13.00	699.3	673.7	116.77	3.4615	0.489
	14.00	704.8	679.3	116.85	3.2857	0.497
	15.00	709.7	684.1	116.91	3.1333	0.504
	16.00	713.9	688.4	116.96	3.0000	0.510

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10325 DST #1 Roberts #1-22 Ranken Energy Corp.

DATE: 08/27/97

TIME: 21:10:31

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	17.00	717.7	692.2	117.02	2.8824	0.515
	18.00	721.1	695.5	117.07	2.7778	0.520
	19.00	724.2	698.6	117.10	2.6842	0.524
	20.00	727.0	701.4	117.13	2.6000	0.528
	21.00	729.5	704.0	117.16	2.5238	0.532
	22.00	731.9	706.3	117.19	2.4545	0.536
	23.00	734.0	708.4	117.23	2.3913	0.539
	24.00	736.0	710.4	117.26	2.3333	0.542
	25.00	737.9	712.3	117.29	2.2800	0.544
	26.00	739.7	714.1	117.31	2.2308	0.547
	27.00	741.2	715.7	117.35	2.1852	0.549
	28.00	742.9	717.3	117.37	2.1429	0.552
	29.00	744.3	718.7	117.39	2.1034	0.554
	30.00	745.6	720.1	117.41	2.0667	0.556
	31.00	747.0	721.4	117.43	2.0323	0.558
	32.00	748.2	722.6	117.45	2.0000	0.560
	33.00	749.4	723.8	117.48	1.9697	0.562
	34.00	750.4	724.8	117.50	1.9412	0.563
	35.00	751.4	725.9	117.51	1.9143	0.565
	36.00	752.5	726.9	117.53	1.8889	0.566
	37.00	753.4	727.8	117.55	1.8649	0.568
	38.00	754.3	728.8	117.56	1.8421	0.569
	39.00	755.3	729.7	117.58	1.8205	0.570
	40.00	756.1	730.5	117.60	1.8000	0.572
	41.00	757.0	731.4	117.62	1.7805	0.573
	42.00	757.7	732.2	117.63	1.7619	0.574
	43.00	758.5	732.9	117.65	1.7442	0.575
	44.00	759.2	733.7	117.67	1.7273	0.576
	45.00	759.9	734.4	117.68	1.7111	0.578
	46.00	760.6	735.1	117.69	1.6957	0.579
	47.00	761.2	735.7	117.73	1.6809	0.579
	48.00	762.0	736.4	117.74	1.6667	0.581
	49.00	762.6	737.0	117.77	1.6531	0.581
***** End Shut-in 1	50.00	763.1	737.6	117.77	1.6400	0.582
***** Start Flow 2	0.00	26.2	0.0	117.78		
	1.00	27.0	0.8	117.79		
	2.00	27.4	1.2	117.78		
	3.00	2001.0	1974.8	117.80		
	4.00	2011.6	1985.4	117.85		
	5.00	29.0	2.8	117.92		
	6.00	29.7	3.5	117.98		
***** End Flow 2	7.00	30.1	3.9	118.03		
***** Start Shutin 2	0.00	30.1	0.0	118.03	0.0000	0.001
***** End Shut-in 2	1.00	2014.7	1984.7	118.10	40.0000	4.059
***** Final Hydro.	194.00	2014.7	0.0	118.10		

TEST HISTORY

10325 DST #1 Roberts #1-22 Ranken Energy Corp.

Flag Points

t (Min.) P (PSIg)

A:	0.00	2027.06
B:	0.00	13.66
C:	32.00	25.58
D:	50.00	763.14
E:	0.00	26.20
F:	7.00	30.06
Q:	0.00	2014.74

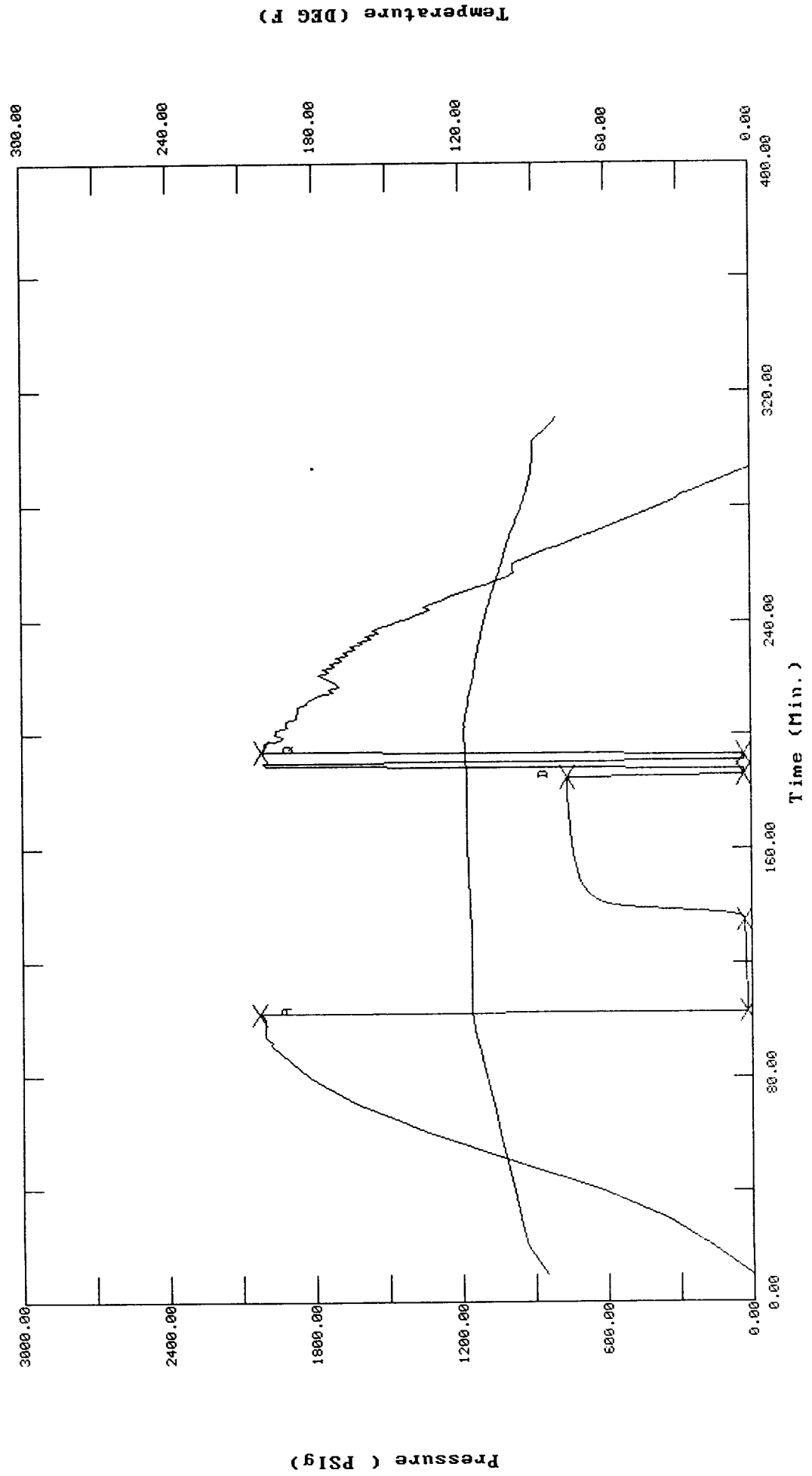
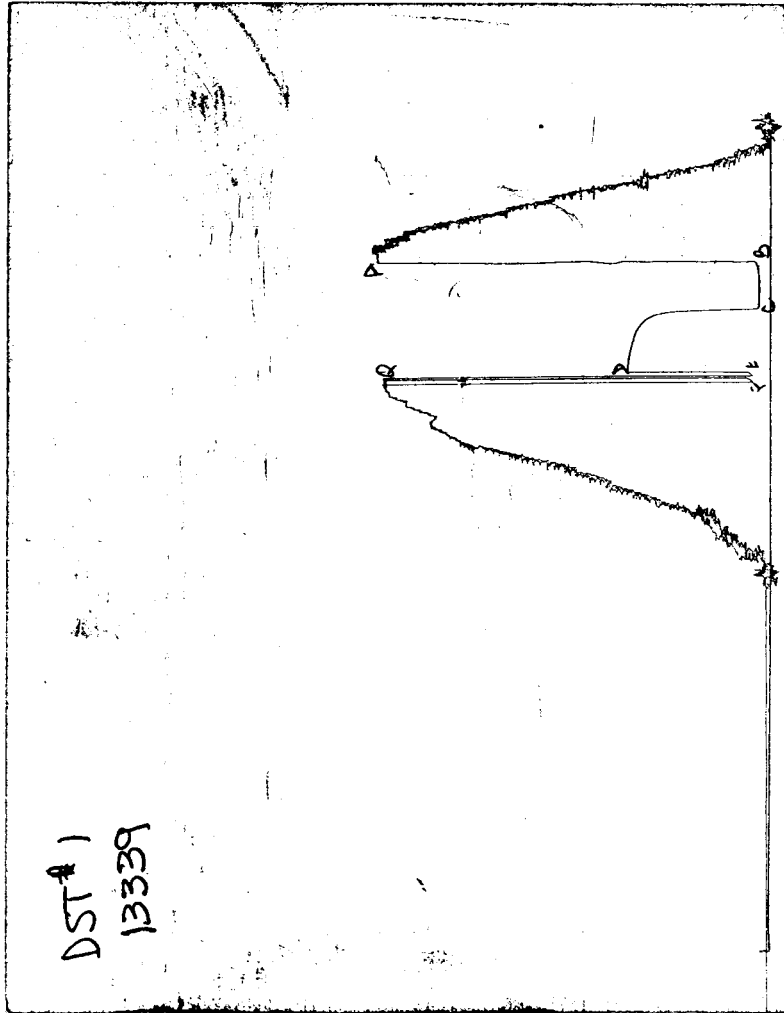


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Ranken Energy Corp.

DATE 8-28-97

WELL NAME: Roberts #1-22

KB 2795.00 ft

TICKET NO: 10326

DST #2

LOCATION : 22-16S-29W Lane KS.

GR 2790.00 ft

FORMATION: Lans/KC

INTERVAL : 4174.00 To 4213.00 ft

TD 4213.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2346			PF Fr. 1432 to 1502 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1502 to 1602 hr
SF 60 Clock(hrs)	12 HR	12 hr	Elec			SF Fr. 1602 to 1702 hr
FS 120 Depth(ft)	4208.0	4208.0	4176.0	0.0	0.0	FS Fr. 1702 to 1902 hr

	Field	1	2	3	4	
A. Init Hydro	2113.0	2117.0	2059.0	0.0	0.0	T STARTED 1255 hr
B. First Flow	62.0	103.0	21.0	0.0	0.0	T ON BOTM 1430 hr
B1. Final Flow	72.0	88.0	51.0	0.0	0.0	T OPEN 1432 hr
C. In Shut-in	343.0	340.0	340.0	0.0	0.0	T PULLED 1902 hr
D. Init Flow	124.0	156.0	67.0	0.0	0.0	T OUT 2115 hr
E. Final Flow	166.0	156.0	110.0	0.0	0.0	
F. Fl Shut-in	291.0	300.0	289.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2053.0	2028.0	2042.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3601.00 ft
						H.W. I.D 2.80 in
						H.W. Length 567.00 ft

RECOVERY

Tot Fluid 300.00 ft of 0.00 ft in DC and 300.00 ft in DP
 550.00 ft of Gas In Pipe
 230.00 ft of Clean Gassy Oil
 0.00 ft of 20%gas 80%oil
 70.00 ft of Oil Cut Mud
 0.00 ft of 10%oil 90%mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 35.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	44.00 S/L
W.L.	7.60 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:

Weak surface blow built to 11"

Initial Shut In:

Bled off blow, surface return built to 1"

Final Flow:

Weak Surface return built to bottom in 30 mins

Final Shut In:

Bled off blow, surface return built to 1"

SAMPLES:

SENT TO:

Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	Good
% Porosity	14.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Rod Steinbrink
Co. Rep.	Mark Herndon
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Roberts #1-22

LOCATION : 22-16S-29W Lane KS.

TICKET No. 10326 D.S.T. No. 2 DATE 8-28-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 39

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 59

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 59

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands77 Single Total 4168

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4227

TOTAL DEPTH 4213

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

P.O. SUB 1' Above 120' WP 4034
C.O. SUB 1' 4154

S.I. TOOL 5' 4160

HMV 5' 4165

JARS N/A

SAFETY JOINT N/A

PACKER 4' 4169

PACKER 5' 4174

DEPTH
STUBB 1' 4175

ANCHOR

Alpine Rec. @ 4176

33' Perf. 4208

T.C.
DEPTH

AK-1 Rec. @ 4208

BULLNOSE 5' 4213
T.D.

Operator.....: Ranken Energy Corp
Well Name.....: Roberts #1-22
DST Number.....: 2

Location.: 22-16S-29W Lane KS Recorder No...: 2346
Test Type: CONV Recorder Depth: 4176
Formation: Lansing KC Test Interval.: 4174-4213

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	5.00 ft
Porosity.....:	14.00 %
Bottom Hole Temp.....:	122.00 F
Specific Gravity.....:	0.031
API Gravity.....:	35.00
Compressibility.....:	0.000005 /psi
Viscosity.....:	5.9750 cp
Total Recovery.....:	300.00 ft
Total Flowing Time.....:	90.00 min.
Flow Rate.....:	43.50 bbls/d
Final Flowing Pressure.....:	110.00 psi
Horner Slope.....:	77.2285 psi/cycle
Extrapolated Pressure.....:	308.24 psi
Formation Volume Factor.....:	1.03 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	112.838881 md
Flow Capacity.....:	564.1944 md.ft
Transmissibility.....:	94.4258 md.ft/cp
Skin Factor.....:	-2.7621
Radius of Investigation.....:	184.48244 ft
Damage Ratio.....:	0.5168
Productivity Index.....:	0.2194 bbls/psi.d
Productivity Index W/O Damage..:	0.1134 bbls/psi.d

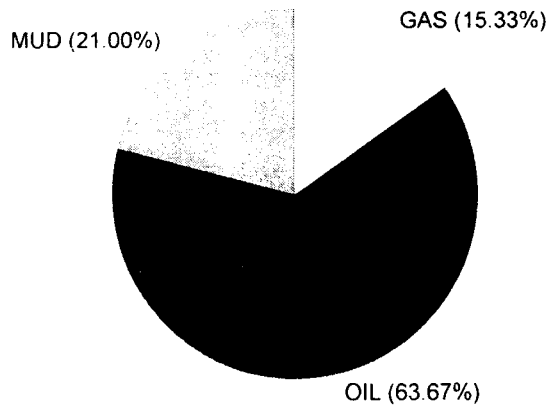
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 10326

SAMPLE		TOTAL		GAS		OIL		WATER		MUD	
		FEET	%	FEET	%	FEET	%	FEET	%	FEET	%
DRILL	1	230	20	46	80	184		0		0	
PIPE	2	70		0	10	7		0	90	63	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
	6			0		0		0		0	
WEIGHT	1			0		0		0		0	
PIPE	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
DRILL	1			0		0		0		0	
COLLARS	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
TOTAL		300		46		191		0		63	

		HRS OPEN		BBL/DAY
BBL OIL=	2.71602	*	1.5	= 43.5
BBL WATER=	0	*		= 0
BBL MUD=	0.89586			
BBL GAS =	0.65412			



 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 10326 DST #2 Roberts #1-22 Ranken Energy Corp.
 DATE: 08/28/97 TIME: 12:55:22

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	94.00	2059.4	0.0	110.62		
***** Start Flow 1	0.00	20.7	0.0	111.02		
	1.00	23.1	2.3	111.14		
	2.00	25.1	4.4	111.22		
	3.00	26.7	6.0	111.27		
	4.00	28.1	7.3	111.34		
	5.00	28.8	8.1	111.45		
	6.00	30.0	9.3	111.59		
	7.00	30.8	10.1	111.75		
	8.00	32.1	11.3	111.90		
	9.00	32.8	12.1	112.04		
	10.00	33.9	13.1	112.18		
	11.00	35.4	14.7	112.31		
	12.00	35.9	15.2	112.43		
	13.00	37.1	16.4	112.55		
	14.00	38.1	17.4	112.67		
	15.00	39.1	18.4	112.78		
	16.00	39.8	19.0	112.90		
	17.00	38.8	18.0	113.01		
	18.00	39.7	19.0	113.11		
	19.00	40.8	20.0	113.22		
	20.00	41.6	20.9	113.33		
	21.00	42.5	21.8	113.43		
	22.00	43.3	22.6	113.51		
	23.00	44.4	23.6	113.59		
	24.00	45.0	24.3	113.66		
	25.00	46.0	25.3	113.73		
	26.00	47.4	26.7	113.80		
	27.00	47.7	27.0	113.86		
	28.00	48.7	28.0	113.94		
	29.00	49.6	28.9	114.01		
	30.00	50.8	30.1	114.10		
***** End Flow 1	31.00	51.5	30.8	114.18		
***** Start Shutin 1	0.00	51.5	0.0	114.18	0.0000	0.003
	1.00	72.8	21.3	114.27	32.0000	0.005
	2.00	99.4	47.8	114.36	16.5000	0.01
	3.00	142.5	91.0	114.47	11.3333	0.020
	4.00	177.6	126.1	114.56	8.7500	0.032
	5.00	195.9	144.4	114.65	7.2000	0.038
	6.00	204.2	152.7	114.75	6.1667	0.042
	7.00	208.5	157.0	114.84	5.4286	0.043
	8.00	211.1	159.6	114.93	4.8750	0.045
	9.00	212.5	161.0	115.01	4.4444	0.045
	10.00	213.3	161.8	115.10	4.1000	0.045
	11.00	213.6	162.1	115.18	3.8182	0.046
	12.00	214.4	162.9	115.25	3.5833	0.046
	13.00	215.0	163.5	115.33	3.3846	0.046
	14.00	215.0	163.5	115.40	3.2143	0.046
	15.00	215.2	163.7	115.46	3.0667	0.046
	16.00	215.5	163.9	115.54	2.9375	0.046
	17.00	215.7	164.2	115.60	2.8235	0.047

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10326 DST #2 Roberts #1-22 Ranken Energy Corp.

DATE: 08/28/97

TIME: 12:55:22

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	216.0	164.5	115.66	2.7222	0.047
	19.00	216.3	164.8	115.71	2.6316	0.047
	20.00	216.9	165.4	115.78	2.5500	0.047
	21.00	217.3	165.8	115.84	2.4762	0.047
	22.00	218.2	166.6	115.89	2.4091	0.048
	23.00	219.6	168.1	115.95	2.3478	0.048
	24.00	221.1	169.6	116.01	2.2917	0.049
	25.00	222.6	171.1	116.07	2.2400	0.050
	26.00	224.4	172.9	116.13	2.1923	0.050
	27.00	226.7	175.2	116.18	2.1481	0.051
	28.00	229.9	178.4	116.24	2.1071	0.053
	29.00	235.2	183.6	116.26	2.0690	0.055
	30.00	242.5	190.9	116.35	2.0333	0.059
	31.00	247.6	196.1	116.41	2.0000	0.061
	32.00	253.8	202.3	116.47	1.9688	0.064
	33.00	259.6	208.1	116.52	1.9394	0.067
	34.00	265.1	213.6	116.58	1.9118	0.070
	35.00	270.8	219.3	116.64	1.8857	0.073
	36.00	275.8	224.3	116.71	1.8611	0.076
	37.00	281.1	229.6	116.78	1.8378	0.079
	38.00	285.5	233.9	116.85	1.8158	0.081
	39.00	290.2	238.6	116.91	1.7949	0.084
	40.00	294.6	243.1	116.99	1.7750	0.087
	41.00	298.6	247.0	117.07	1.7561	0.089
	42.00	302.0	250.4	117.14	1.7381	0.091
	43.00	305.7	254.1	117.20	1.7209	0.093
	44.00	308.9	257.4	117.27	1.7045	0.095
	45.00	311.8	260.3	117.31	1.6889	0.097
	46.00	313.6	262.1	117.36	1.6739	0.098
	47.00	315.8	264.3	117.40	1.6596	0.10
	48.00	318.1	266.6	117.44	1.6458	0.101
	49.00	320.0	268.5	117.47	1.6327	0.102
	50.00	323.1	271.6	117.50	1.6200	0.104
	51.00	327.0	275.5	117.54	1.6078	0.107
	52.00	329.3	277.8	117.56	1.5962	0.108
	53.00	331.5	280.0	117.59	1.5849	0.110
	54.00	332.9	281.3	117.63	1.5741	0.111
	55.00	334.1	282.6	117.66	1.5636	0.112
	56.00	335.2	283.7	117.69	1.5536	0.112
	57.00	336.4	284.9	117.72	1.5439	0.113
	58.00	337.8	286.3	117.75	1.5345	0.114
	59.00	338.8	287.3	117.78	1.5254	0.115
***** End Shut-in 1	60.00	340.0	288.5	117.82	1.5167	0.116
***** Start Flow 2	0.00	67.3	0.0	117.86		
	1.00	68.7	1.3	117.90		
	2.00	70.6	3.3	117.98		
	3.00	69.9	2.6	118.06		
	4.00	70.4	3.0	118.14		
	5.00	71.9	4.6	118.21		
	6.00	72.3	5.0	118.28		
	7.00	75.2	7.9	118.35		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10326 DST #2 Roberts #1-22 Ranken Energy Corp.

DATE: 08/28/97 TIME: 12:55:22

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
8.00	75.2	7.9	118.41		
9.00	76.4	9.1	118.42		
10.00	77.2	9.9	118.44		
11.00	78.3	11.0	118.51		
12.00	79.2	11.9	118.56		
13.00	79.7	12.4	118.61		
14.00	81.2	13.8	118.66		
15.00	81.8	14.5	118.70		
16.00	82.5	15.2	118.74		
17.00	83.0	15.6	118.78		
18.00	83.7	16.4	118.82		
19.00	84.4	17.0	118.86		
20.00	85.1	17.8	118.91		
21.00	85.5	18.2	118.94		
22.00	86.2	18.8	118.98		
23.00	87.0	19.6	119.03		
24.00	87.4	20.1	119.07		
25.00	88.4	21.1	119.12		
26.00	89.2	21.9	119.16		
27.00	90.2	22.8	119.20		
28.00	90.9	23.6	119.25		
29.00	91.6	24.3	119.28		
30.00	91.6	24.3	119.32		
31.00	92.2	24.9	119.36		
32.00	93.0	25.7	119.40		
33.00	93.9	26.5	119.45		
34.00	94.6	27.3	119.49		
35.00	95.2	27.9	119.53		
36.00	96.2	28.8	119.57		
37.00	97.0	29.7	119.61		
38.00	97.8	30.4	119.66		
39.00	98.4	31.0	119.71		
40.00	99.1	31.8	119.74		
41.00	99.6	32.3	119.78		
42.00	100.1	32.8	119.83		
43.00	100.4	33.0	119.87		
44.00	100.7	33.4	119.91		
45.00	101.4	34.1	119.95		
46.00	102.4	35.0	119.99		
47.00	103.2	35.8	120.03		
48.00	103.6	36.3	120.08		
49.00	104.2	36.9	120.11		
50.00	104.8	37.5	120.15		
51.00	105.4	38.1	120.19		
52.00	105.6	38.3	120.22		
53.00	106.1	38.8	120.25		
54.00	106.9	39.6	120.29		
55.00	108.0	40.7	120.33		
56.00	108.7	41.4	120.37		
57.00	108.9	41.5	120.39		
58.00	109.1	41.7	120.42		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10326 DST #2 Roberts #1-22 Ranken Energy Corp.

DATE: 08/28/97

TIME: 12:55:22

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Flow 2	59.00	109.7	42.4	120.45		
***** Start Shutin 2	0.00	109.7	0.0	120.45	0.0000	0.012
	1.00	117.4	7.7	120.48	91.0000	0.014
	2.00	148.7	39.0	120.51	46.0000	0.022
	3.00	174.6	64.9	120.52	31.0000	0.030
	4.00	195.4	85.7	120.55	23.5000	0.038
	5.00	214.8	105.1	120.59	19.0000	0.046
	6.00	230.8	121.1	120.62	16.0000	0.053
	7.00	242.6	132.9	120.64	13.8571	0.059
	8.00	250.5	140.8	120.68	12.2500	0.063
	9.00	256.1	146.4	120.70	11.0000	0.066
	10.00	259.5	149.8	120.73	10.0000	0.067
	11.00	261.9	152.2	120.76	9.1818	0.069
	12.00	263.6	153.9	120.78	8.5000	0.070
	13.00	264.9	155.2	120.80	7.9231	0.070
	14.00	266.0	156.3	120.82	7.4286	0.071
	15.00	266.9	157.2	120.84	7.0000	0.071
	16.00	267.6	157.9	120.86	6.6250	0.072
	17.00	268.2	158.5	120.89	6.2941	0.072
	18.00	268.7	159.0	120.90	6.0000	0.072
	19.00	269.4	159.7	120.93	5.7368	0.073
	20.00	269.7	160.0	120.95	5.5000	0.073
	21.00	270.2	160.4	120.97	5.2857	0.073
	22.00	270.6	160.9	120.99	5.0909	0.073
	23.00	270.9	161.2	121.01	4.9130	0.073
	24.00	271.2	161.5	121.03	4.7500	0.074
	25.00	271.6	161.9	121.05	4.6000	0.074
	26.00	272.0	162.2	121.06	4.4615	0.074
	27.00	272.3	162.6	121.08	4.3333	0.074
	28.00	272.5	162.8	121.11	4.2143	0.074
	29.00	272.7	163.0	121.12	4.1034	0.074
	30.00	273.1	163.3	121.14	4.0000	0.075
	31.00	273.3	163.5	121.16	3.9032	0.075
	32.00	273.5	163.8	121.18	3.8125	0.075
	33.00	273.7	164.0	121.19	3.7273	0.075
	34.00	274.0	164.2	121.21	3.6471	0.075
	35.00	274.2	164.5	121.23	3.5714	0.075
	36.00	274.4	164.7	121.25	3.5000	0.075
	37.00	274.7	165.0	121.26	3.4324	0.075
	38.00	274.9	165.2	121.29	3.3684	0.076
	39.00	275.1	165.4	121.30	3.3077	0.076
	40.00	275.3	165.6	121.31	3.2500	0.076
	41.00	275.5	165.7	121.34	3.1951	0.076
	42.00	275.7	165.9	121.36	3.1429	0.076
	43.00	275.9	166.1	121.37	3.0930	0.076
	44.00	276.0	166.3	121.39	3.0455	0.076
	45.00	276.3	166.6	121.41	3.0000	0.076
	46.00	276.5	166.7	121.42	2.9565	0.076
	47.00	276.6	166.9	121.44	2.9149	0.077
	48.00	276.8	167.1	121.47	2.8750	0.077
	49.00	277.0	167.3	121.48	2.8367	0.077

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 10326 DST #2 Roberts #1-22 Ranken Energy Corp.
 DATE: 08/28/97 TIME: 12:55:22

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
50.00	277.2	167.5	121.50	2.8000	0.077
51.00	277.4	167.7	121.51	2.7647	0.077
52.00	277.7	168.0	121.53	2.7308	0.077
53.00	278.0	168.3	121.55	2.6981	0.077
54.00	278.3	168.6	121.57	2.6667	0.077
55.00	278.5	168.8	121.59	2.6364	0.078
56.00	278.8	169.1	121.60	2.6071	0.078
57.00	278.9	169.2	121.62	2.5789	0.078
58.00	279.3	169.6	121.63	2.5517	0.078
59.00	279.5	169.8	121.65	2.5254	0.078
60.00	279.6	169.9	121.68	2.5000	0.078
61.00	279.8	170.1	121.70	2.4754	0.078
62.00	280.1	170.4	121.72	2.4516	0.078
63.00	280.3	170.6	121.73	2.4286	0.079
64.00	280.5	170.8	121.75	2.4062	0.079
65.00	280.7	171.0	121.75	2.3846	0.079
66.00	280.8	171.1	121.78	2.3636	0.079
67.00	281.0	171.3	121.79	2.3433	0.079
68.00	281.1	171.4	121.80	2.3235	0.079
69.00	281.3	171.6	121.83	2.3043	0.079
70.00	281.6	171.9	121.84	2.2857	0.079
71.00	281.9	172.2	121.86	2.2676	0.079
72.00	282.1	172.4	121.87	2.2500	0.080
73.00	282.3	172.6	121.88	2.2329	0.080
74.00	282.3	172.6	121.90	2.2162	0.080
75.00	282.5	172.8	121.92	2.2000	0.080
76.00	282.8	173.1	121.94	2.1842	0.080
77.00	282.9	173.2	121.96	2.1688	0.080
78.00	283.0	173.3	121.97	2.1538	0.080
79.00	283.2	173.5	121.99	2.1392	0.080
80.00	283.4	173.7	122.00	2.1250	0.080
81.00	283.7	174.0	122.02	2.1111	0.080
82.00	283.8	174.1	122.02	2.0976	0.081
83.00	284.0	174.3	122.05	2.0843	0.081
84.00	284.2	174.5	122.06	2.0714	0.081
85.00	284.5	174.7	122.07	2.0588	0.081
86.00	284.6	174.9	122.09	2.0465	0.081
87.00	284.9	175.2	122.10	2.0345	0.081
88.00	284.9	175.2	122.12	2.0227	0.081
89.00	285.1	175.4	122.14	2.0112	0.081
90.00	285.3	175.6	122.14	2.0000	0.081
91.00	285.4	175.7	122.16	1.9890	0.081
92.00	285.5	175.8	122.18	1.9783	0.082
93.00	285.7	176.0	122.20	1.9677	0.082
94.00	285.9	176.2	122.21	1.9574	0.082
95.00	286.1	176.4	122.23	1.9474	0.082
96.00	286.2	176.5	122.24	1.9375	0.082
97.00	286.4	176.6	122.26	1.9278	0.082
98.00	286.6	176.8	122.27	1.9184	0.082
99.00	286.7	177.0	122.28	1.9091	0.082
100.00	286.8	177.1	122.29	1.9000	0.082

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10326 DST #2 Roberts #1-22 Ranken Energy Corp.

DATE: 08/28/97 TIME: 12:55:22

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	101.00	286.9	177.2	122.31	1.8911	0.082
	102.00	287.1	177.4	122.32	1.8824	0.082
	103.00	287.2	177.5	122.34	1.8738	0.082
	104.00	287.3	177.6	122.34	1.8654	0.083
	105.00	287.4	177.7	122.36	1.8571	0.083
	106.00	287.5	177.8	122.38	1.8491	0.083
	107.00	287.7	178.0	122.40	1.8411	0.083
	108.00	288.0	178.2	122.40	1.8333	0.083
	109.00	288.0	178.3	122.42	1.8257	0.083
	110.00	288.2	178.5	122.43	1.8182	0.083
	111.00	288.3	178.6	122.45	1.8108	0.083
	112.00	288.5	178.8	122.46	1.8036	0.083
	113.00	288.6	178.9	122.48	1.7965	0.083
	114.00	288.8	179.1	122.50	1.7895	0.083
	115.00	288.8	179.1	122.51	1.7826	0.083
	116.00	288.9	179.2	122.51	1.7759	0.083
	117.00	289.1	179.4	122.53	1.7692	0.084
	118.00	289.3	179.6	122.55	1.7627	0.084
	119.00	289.4	179.7	122.56	1.7563	0.084
	120.00	289.4	179.7	122.57	1.7500	0.084
***** End Shut-in 2	121.00	289.4	179.7	122.59	1.7438	0.084
***** Final Hydro.	369.00	2042.4	0.0	122.63		

TEST HISTORY

10326 DST #2 Roberts #1-22 Ranken Energy Corp.

Flag Points

t (Min.) P (PSig)

A: 0.00 2059.36
 B: 0.00 20.73
 C: 31.00 51.51
 D: 60.00 339.97
 E: 0.00 67.34
 F: 59.00 109.71
 G: 121.00 289.43
 Q: 0.00 2042.40

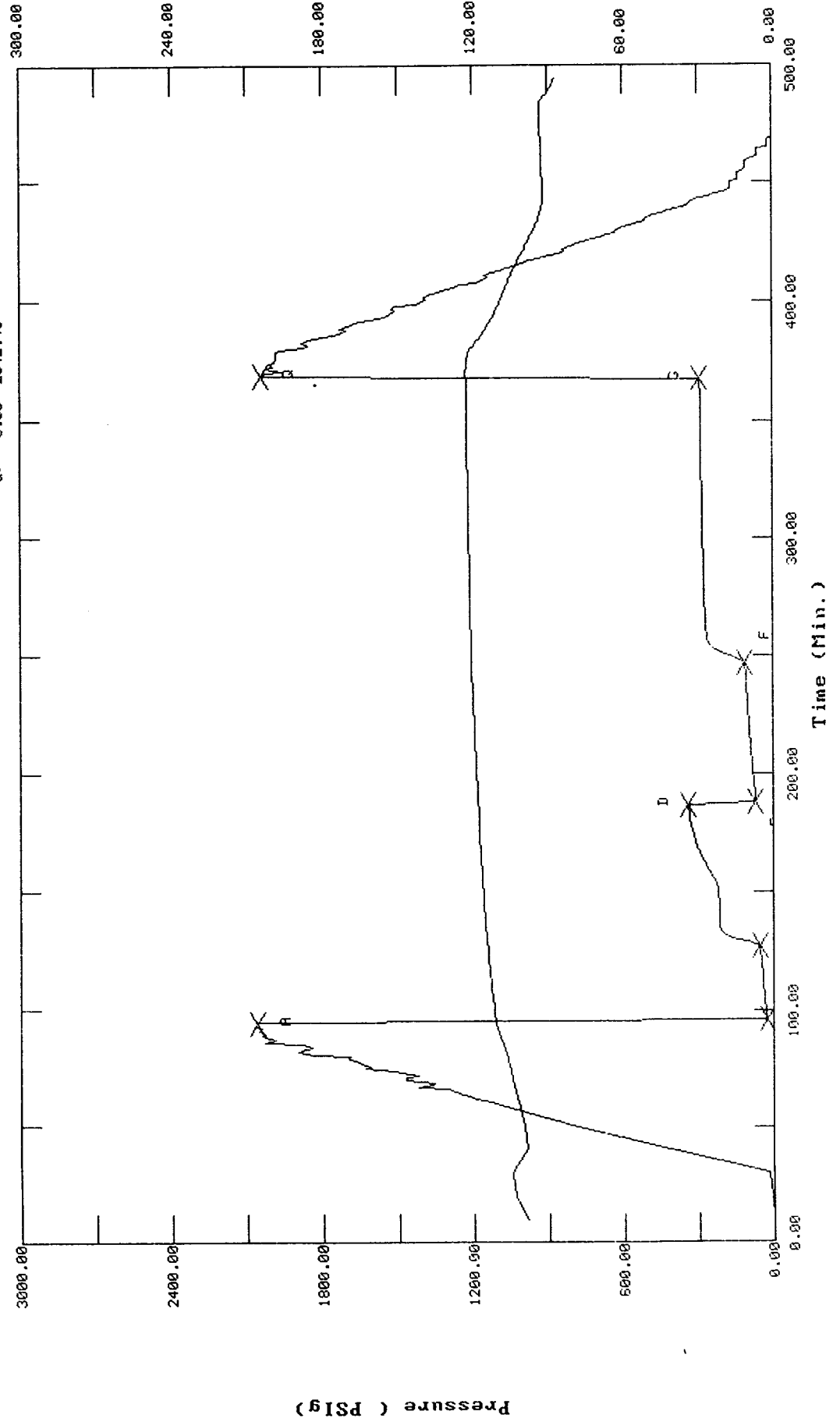
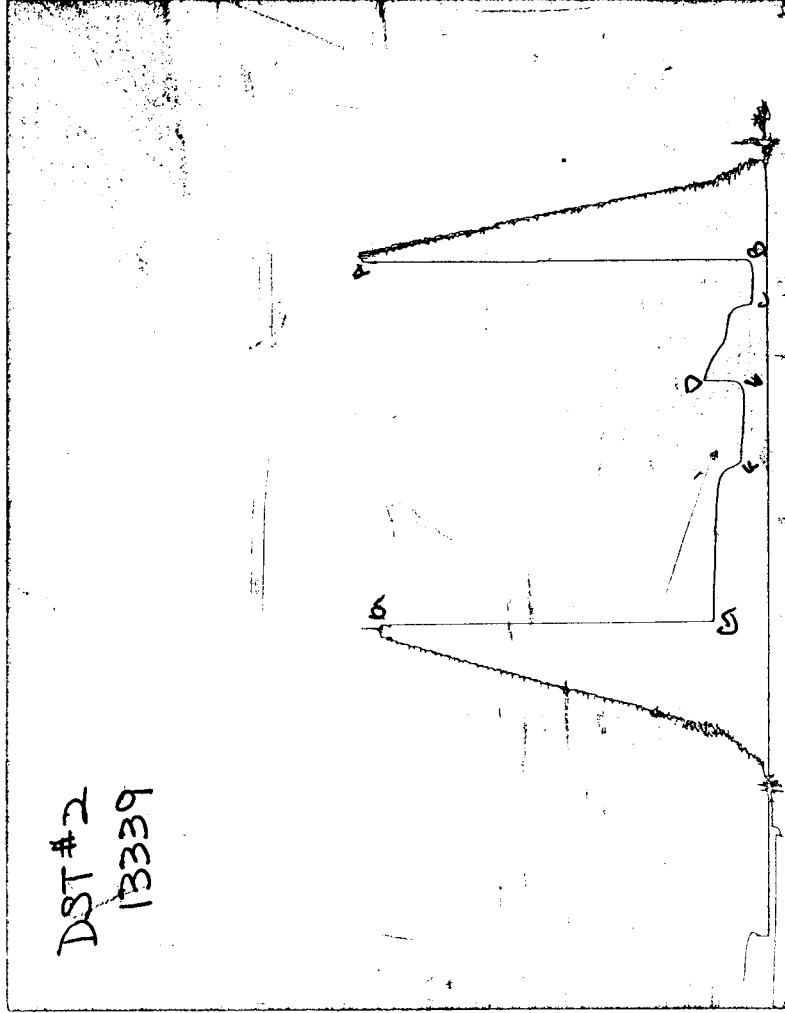


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

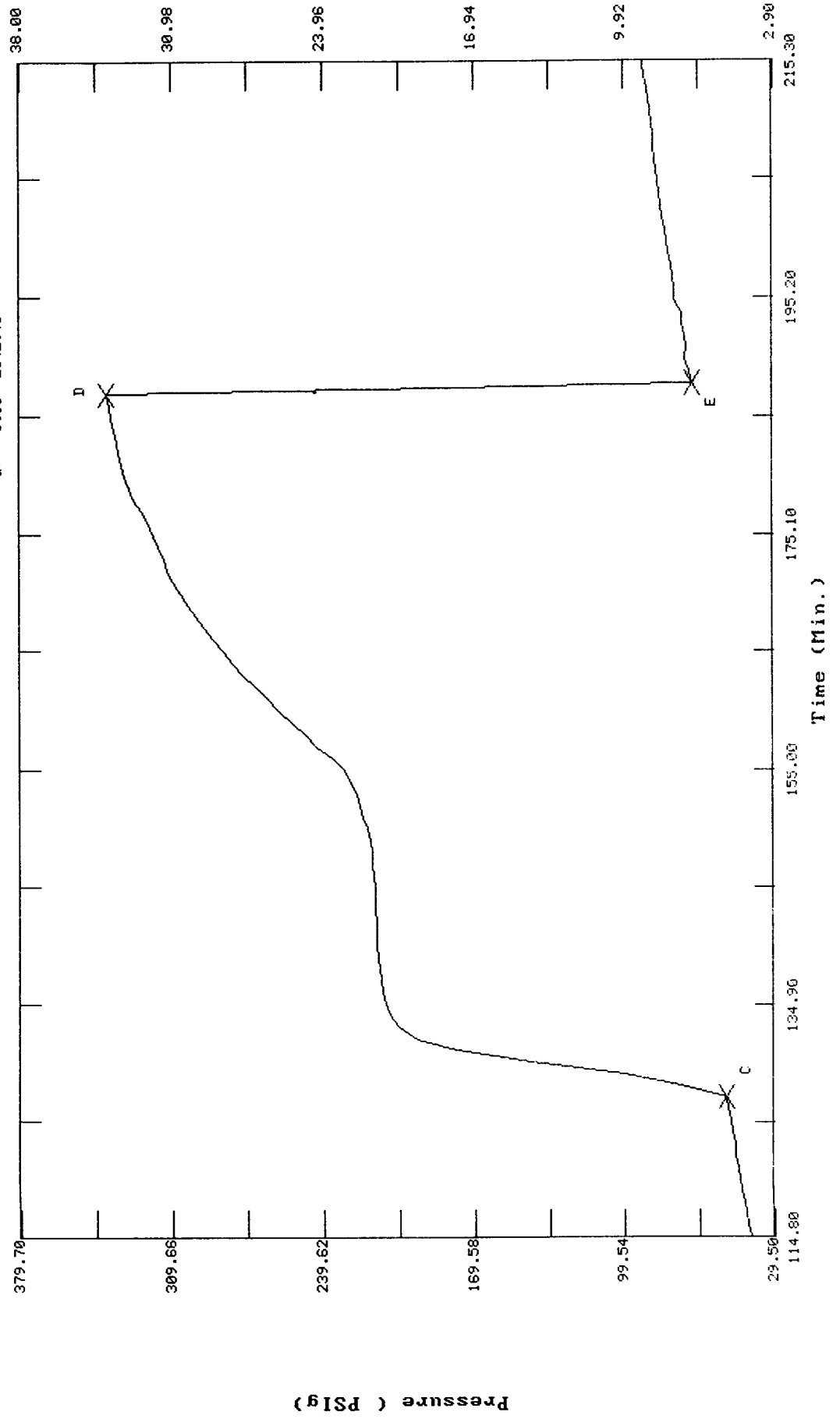
TEST HISTORY

10326 DST #2 Roberts #1-22 Ranken Energy Corp.

Flag Points

t(Min.) P(PSig)

A: 0.00 2059.36
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 G: 121.00 289.43
 Q: 0.00 2042.40



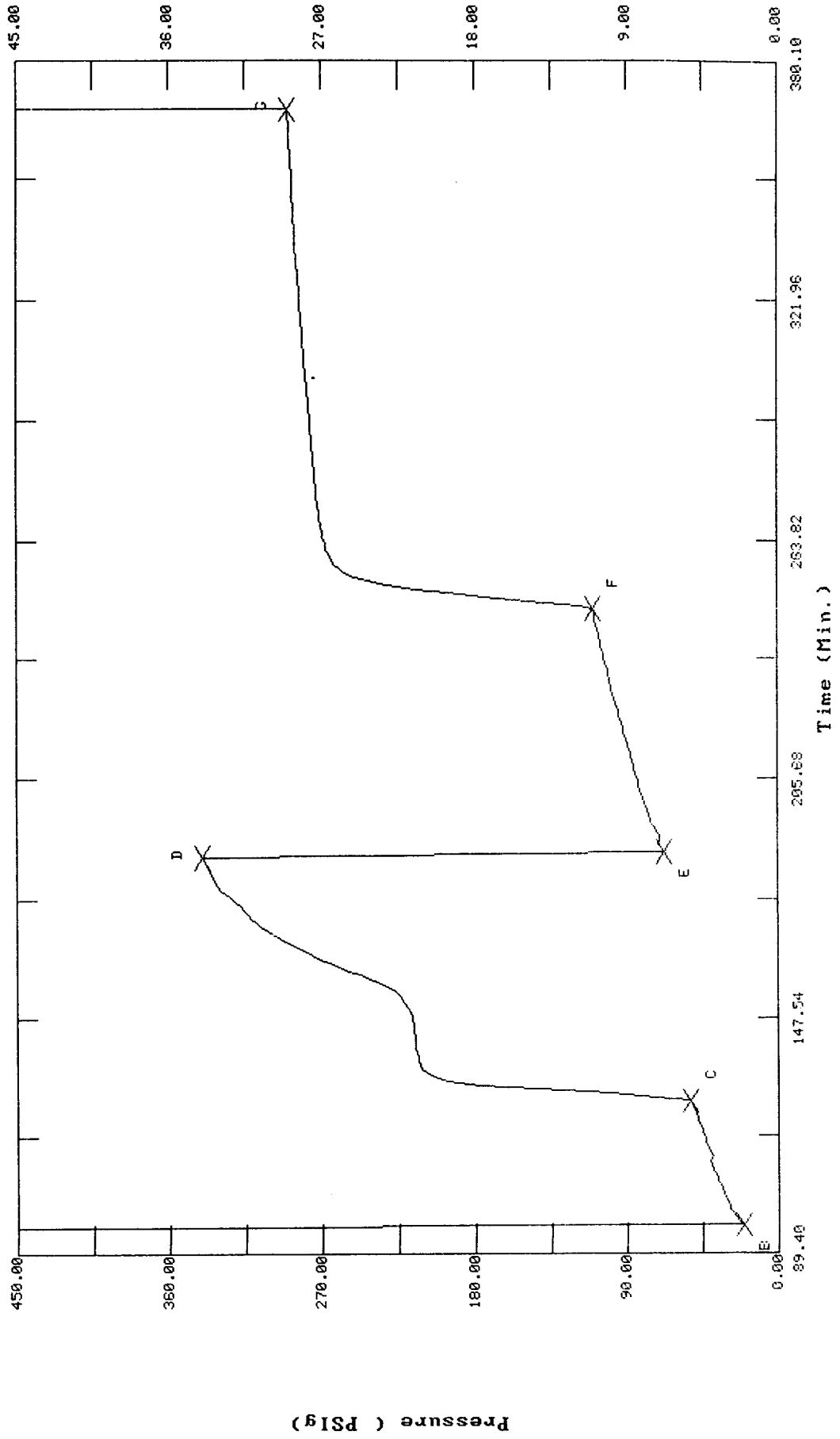
TEST HISTORY

10326 DST #2 Roberts #1-22 Ranken Energy Corp.

Flag Points

t (Min.) P (PSig)

A: 0.00 2059.36
 B: 0.00 20.73
 C: 31.00 51.51
 D: 60.00 339.97
 E: 0.00 67.34
 F: 59.00 109.71
 G: 121.00 289.43
 Q: 0.00 2042.40

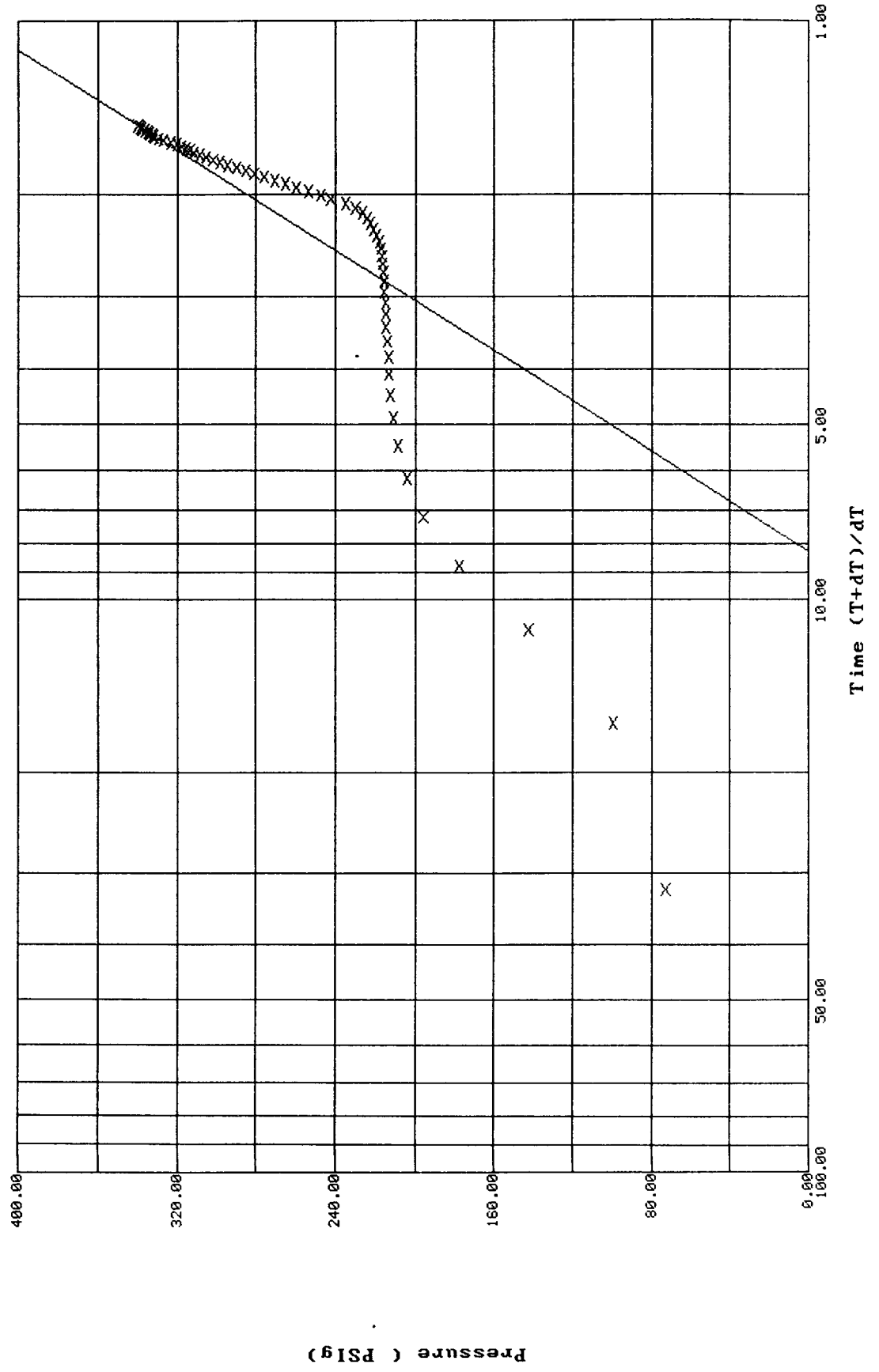


Horner Plot: shut-in #1

10326 DST #2 Roberts #1-22 Ranken Energy Corp.

Slope: 463.6142 PSig/cycle

Ext. Pressure: 423.8285 PSig

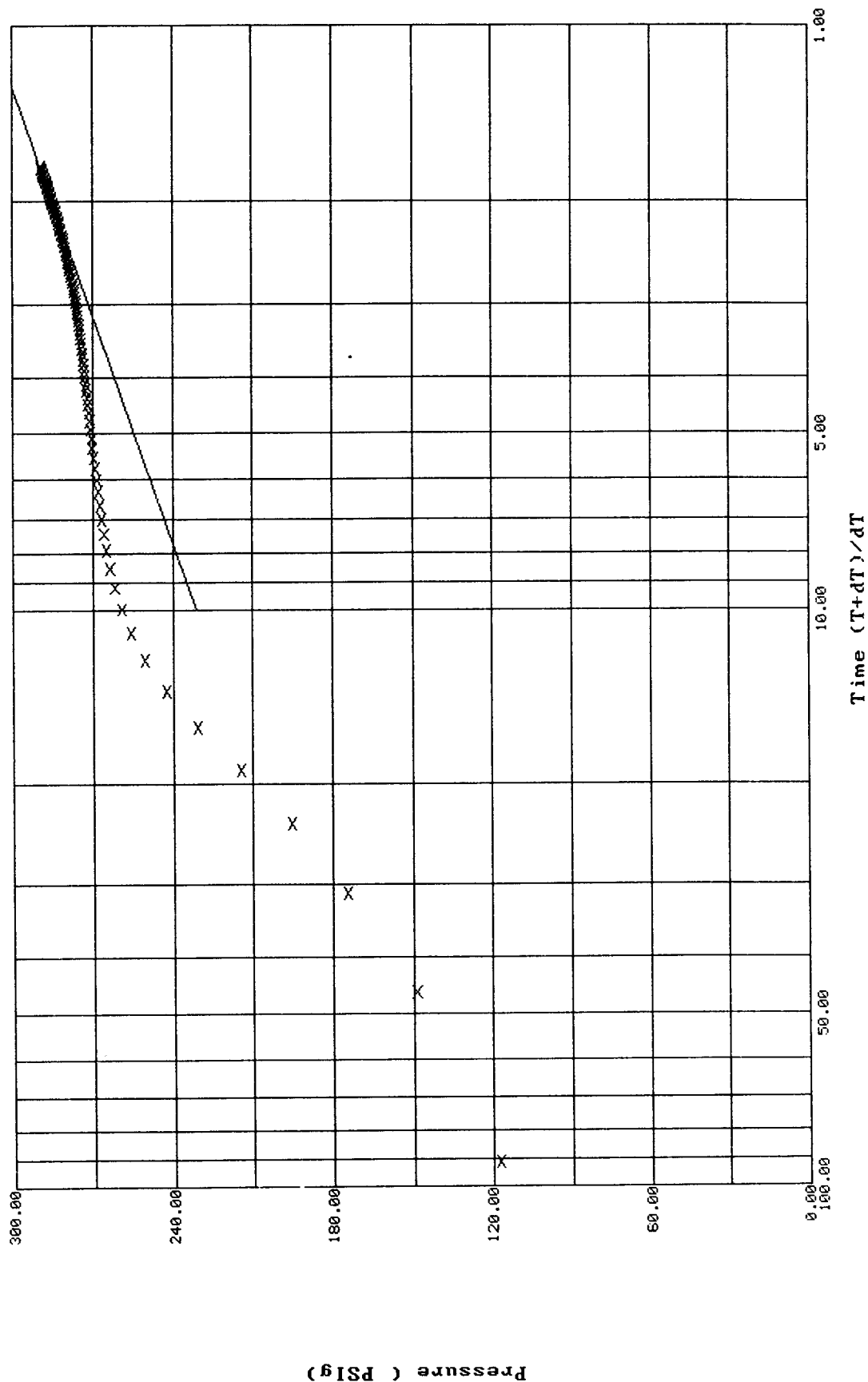


Horner Plot: shut-in #2

10326 DST #2 Roberts #1-22 Ranken Energy Corp.

Slope: 77.2285 PSig/cycle

Ext. Pressure: 308.2444 PSig



TRILOBITE TESTING L.L.C.

OPERATOR : Ranken Energy Corp.

DATE 2-29-97

WELL NAME: Roberts #1-22

KB 2795.00 ft

TICKET NO: 10327 DST #3

LOCATION : 22-16S-29W Lane KS.

GR 2790.00 ft

FORMATION: Lans/KC "L"

INTERVAL : 4207.00 To 4257.00 ft

TD 4257.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2346			PF Fr. 0802 to 0832 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0832 to 0932 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 0932 to 1032 hr
FS 120 Depth(ft)	4252.0	4252.0	4210.0	0.0	0.0	FS Fr. 1032 to 1232 hr

	Field	1	2	3	4	
A. Init Hydro	2103.0	2130.0	2096.0	0.0	0.0	T STARTED 0600 hr
B. First Flow	31.0	50.0	20.0	0.0	0.0	T ON BOTM 0800 hr
B1. Final Flow	72.0	97.0	86.0	0.0	0.0	T OPEN 0802 hr
C. In Shut-in	322.0	345.0	341.0	0.0	0.0	T PULLED 1232 hr
D. Init Flow	135.0	179.0	94.0	0.0	0.0	T OUT 1500 hr
E. Final Flow	176.0	202.0	170.0	0.0	0.0	
F. Fl Shut-in	311.0	333.0	318.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2023.0	1975.0	2020.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3631.00 ft
						H.W. I.D 2.80 in
						H.W. Length 567.00 ft

RECOVERY

Tot Fluid 400.00 ft of 0.00 ft in DC and 400.00 ft in DP

280.00 ft of Gas In Pipe

280.00 ft of Clean Gassy Oil - 10%gas 90%oil

60.00 ft of Gassy Slight Oil Cut Mud

0.00 ft of 15%gas 5%oil 80%mud

60.00 ft of Gas Oil Water Cut Mud

0.00 ft of 15%gas 5%oil 20%water 60%mud

0.00 ft of

0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 31.00

MUD DATA-----

Mud Type Chemical

Weight 9.20 lb/c

Vis. 47.00 S/L

W.L. 8.00 in3

F.C. 0.00 in

Mud Drop N

BLOW DESCRIPTION

Initial Flow:

Weak to fair blow built to 9"

Initial Shut In:

Bled off blow - Surface return built to 1/2" and died at 60 mins

Final Flow:

Weak to fair blow off bottom in 45 min

Amt. of fill 0.00 ft

Btm. H. Temp. 120.00 F

Hole Condition Good

% Porosity 10.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out N

Tool Chased N

Tester Rod Steinbrink

Co. Rep. Mark Herndon

Contr. Abercrombie

Rig # 8

Unit #

Pump T.

Final Shut In:

Bled off blow - surface return built to 1/2"

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Roberts #1-22

LOCATION : 22-16S-29W Lane KS.

TICKET No. 10327 D.S.T. No. 3 DATE 2-29-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 20

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY 70

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands67 Single 1 Total 4198

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4268

TOTAL DEPTH 4257

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

P.O. SUB 1' Above 120' WP	4067
C.O. SUB 1'	4187
S.I. TOOL 5'	4193
HMV 5'	4198
JARS N/A	
SAFETY JOINT N/A	
PACKER 4'	4202
PACKER 5'	4207
DEPTH	
STUBB 1'	4208
ANCHOR	
ALP. Rec. @	4210
2' Perf.	4210
1' CO Sub	4211
30' DP	4241
1' CO Sub	4242
10' Perf.	4252
T.C.	
DEPTH	
AK-1 Rec. @	4252
BULLNOSE 5'	
T.D.	4257

Operator.....: Ranken Energy Corp
Well Name.....: Roberts #1-22
DST Number.....: 3

Location.: 22-16S-29W Lane KS Recorder No....: 2346
Test Type: CONV Recorder Depth: 4210
Formation: Lansing KC L Test Interval.: 4207-4257

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....	7.00 ft
Porosity.....	10.00 %
Bottom Hole Temp.....	120.00 F
Specific Gravity.....	0.035
API Gravity.....	31.00
Compressibility.....	0.000003 /psi
Viscosity.....	9.8400 cp
Total Recovery.....	400.00 ft
Total Flowing Time.....	90.00 min.
Flow Rate.....	58.70 bbls/d
Final Flowing Pressure.....	170.00 psi
Horner Slope.....	51.3359 psi/cycle
Extrapolated Pressure.....	330.83 psi
Formation Volume Factor.....	1.03 Reservoir/Surface
Well Bore Radius.....	3.94 in

RESULTS:

Effective Permeability.....	268.413876 md
Flow Capacity.....	1878.8971 md.ft
Transmissibility.....	190.9448 md.ft/cp
Skin Factor.....	-2.7180
Radius of Investigation.....	338.67874 ft
Damage Ratio.....	0.5702
Productivity Index.....	0.3650 bbls/psi.d
Productivity Index W/O Damage..	0.2081 bbls/psi.d

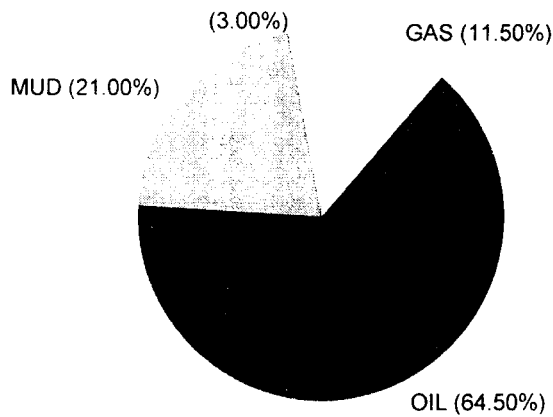
CALCULATED RECOVERY ANALYSIS

DST 3

TICKET 10327

SAMPLE		TOTAL		GAS		OIL		WATER		MUD	
		FEET	%	FEET	%	FEET	%	FEET	%	FEET	%
DRILL	1	280	10	28	90	252		0		0	
PIPE	2	60	15	9	5	3		0	80	48	
	3	60	15	9	5	3	20	12	60	36	
	4			0		0		0		0	
	5			0		0		0		0	
	6			0		0		0		0	
WEIGHT	1			0		0		0		0	
PIPE	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
DRILL	1			0		0		0		0	
COLLARS	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
TOTAL		400		46		258		12		84	

		HRS OPEN		BBL/DAY
BBL OIL=	3.66876	*	1.5	= 58.7
BBL WATER=	0.17064	*		= 2.73024
BBL MUD=	1.19448			
BBL GAS =	0.65412			



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10327 DST #3 Roberts #1-22 Ranken Energy Corp.

DATE: 08/29/97

TIME: 06:01:02

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	120.00	2096.6	0.0	111.00		
***** Start Flow 1	0.00	20.2	0.0	111.28		
	1.00	26.5	6.3	111.53		
	2.00	31.0	10.9	111.73		
	3.00	33.9	13.7	111.89		
	4.00	37.2	17.0	112.06		
	5.00	40.0	19.8	112.24		
	6.00	42.8	22.6	112.50		
	7.00	45.7	25.5	112.83		
	8.00	46.8	26.6	113.19		
	9.00	50.0	29.8	113.53		
	10.00	53.2	33.0	113.84		
	11.00	56.6	36.4	114.11		
	12.00	56.0	35.8	114.33		
	13.00	58.0	37.8	114.50		
	14.00	59.7	39.5	114.65		
	15.00	62.8	42.7	114.77		
	16.00	64.2	44.0	114.86		
	17.00	66.5	46.3	114.94		
	18.00	68.7	48.5	115.02		
	19.00	70.9	50.7	115.14		
	20.00	72.5	52.3	115.31		
	21.00	74.1	53.9	115.51		
	22.00	76.1	55.9	115.71		
	23.00	77.9	57.7	115.91		
	24.00	78.5	58.3	116.11		
	25.00	80.3	60.1	116.29		
	26.00	81.4	61.2	116.46		
	27.00	83.0	62.8	116.63		
	28.00	84.9	64.7	116.80		
***** End Flow 1	29.00	86.1	65.9	116.94		
***** Start Shutin 1	0.00	86.1	0.0	116.94	0.0000	0.007
	1.00	119.2	33.0	117.07	30.0000	0.014
	2.00	181.9	95.7	117.16	15.5000	0.033
	3.00	232.4	146.3	117.22	10.6667	0.054
	4.00	265.9	179.7	117.25	8.2500	0.071
	5.00	285.9	199.8	117.25	6.8000	0.082
	6.00	297.9	211.8	117.23	5.8333	0.089
	7.00	306.1	220.0	117.21	5.1429	0.094
	8.00	311.7	225.6	117.18	4.6250	0.097
	9.00	315.7	229.6	117.16	4.2222	0.10
	10.00	318.7	232.5	117.13	3.9000	0.102
	11.00	321.0	234.9	117.11	3.6364	0.103
	12.00	323.3	237.1	117.09	3.4167	0.105
	13.00	325.1	239.0	117.08	3.2308	0.106
	14.00	326.7	240.6	117.05	3.0714	0.107
	15.00	328.0	241.9	117.05	2.9333	0.108
	16.00	329.2	243.1	117.03	2.8125	0.108
	17.00	330.3	244.1	117.02	2.7059	0.109
	18.00	331.2	245.0	117.02	2.6111	0.110
	19.00	332.1	245.9	117.01	2.5263	0.110

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10327 DST #3 Roberts #1-22 Ranken Energy Corp.

DATE: 08/29/97

TIME: 06:01:02

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	20.00	332.8	246.7	117.01	2.4500	0.111
	21.00	333.0	246.8	116.99	2.3810	0.111
	22.00	333.5	247.4	117.00	2.3182	0.111
	23.00	334.0	247.9	117.00	2.2609	0.112
	24.00	334.5	248.4	116.99	2.2083	0.112
	25.00	335.0	248.8	116.99	2.1600	0.112
	26.00	335.3	249.2	116.99	2.1154	0.112
	27.00	335.8	249.6	117.00	2.0741	0.113
	28.00	336.2	250.1	117.00	2.0357	0.113
	29.00	336.5	250.4	117.01	2.0000	0.113
	30.00	336.9	250.7	117.01	1.9667	0.113
	31.00	337.2	251.1	117.02	1.9355	0.114
	32.00	337.6	251.4	117.03	1.9062	0.114
	33.00	337.7	251.6	117.03	1.8788	0.114
	34.00	338.0	251.8	117.04	1.8529	0.114
	35.00	338.3	252.1	117.05	1.8286	0.114
	36.00	338.5	252.4	117.05	1.8056	0.115
	37.00	338.7	252.6	117.08	1.7838	0.115
	38.00	338.9	252.8	117.08	1.7632	0.115
	39.00	339.1	253.0	117.10	1.7436	0.115
	40.00	339.2	253.1	117.11	1.7250	0.115
	41.00	339.5	253.3	117.12	1.7073	0.115
	42.00	339.6	253.5	117.13	1.6905	0.115
	43.00	339.7	253.6	117.14	1.6744	0.115
	44.00	339.9	253.8	117.16	1.6591	0.116
	45.00	340.0	253.9	117.17	1.6444	0.116
	46.00	340.2	254.0	117.19	1.6304	0.116
	47.00	340.3	254.2	117.20	1.6170	0.116
	48.00	340.4	254.3	117.21	1.6042	0.116
	49.00	340.5	254.4	117.23	1.5918	0.116
	50.00	340.6	254.5	117.25	1.5800	0.116
	51.00	340.6	254.5	117.26	1.5686	0.116
	52.00	340.6	254.5	117.28	1.5577	0.116
	53.00	340.7	254.6	117.30	1.5472	0.116
	54.00	340.8	254.6	117.31	1.5370	0.116
	55.00	340.9	254.7	117.32	1.5273	0.116
	56.00	340.9	254.8	117.34	1.5179	0.116
	57.00	341.1	254.9	117.36	1.5088	0.116
	58.00	341.1	255.0	117.38	1.5000	0.116
	59.00	341.2	255.1	117.40	1.4915	0.116
	60.00	341.3	255.1	117.41	1.4833	0.116
***** End Shut-in 1	61.00	341.3	255.2	117.43	1.4754	0.117
***** Start Flow 2	0.00	94.5	0.0	117.45		
	1.00	94.8	0.3	117.47		
	2.00	96.5	2.0	117.47		
	3.00	98.3	3.8	117.49		
	4.00	99.2	4.7	117.50		
	5.00	101.1	6.6	117.52		
	6.00	103.4	8.9	117.53		
	7.00	105.6	11.2	117.55		
	8.00	107.4	12.9	117.57		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10327 DST #3 Roberts #1-22 Ranken Energy Corp.

DATE: 08/29/97

TIME: 06:01:02

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	109.4	14.9	117.60		
	10.00	111.4	16.9	117.61		
	11.00	113.1	18.6	117.63		
	12.00	114.7	20.2	117.66		
	13.00	116.5	22.0	117.68		
	14.00	118.3	23.8	117.70		
	15.00	119.7	25.2	117.72		
	16.00	121.5	27.0	117.75		
	17.00	123.1	28.6	117.77		
	18.00	124.7	30.2	117.80		
	19.00	126.2	31.7	117.81		
	20.00	127.9	33.4	117.84		
	21.00	129.2	34.7	117.87		
	22.00	130.6	36.1	117.89		
	23.00	132.3	37.8	117.91		
	24.00	133.6	39.1	117.95		
	25.00	135.0	40.5	117.97		
	26.00	136.4	41.9	118.00		
	27.00	137.8	43.3	118.02		
	28.00	139.3	44.8	118.06		
	29.00	140.6	46.1	118.09		
	30.00	142.3	47.8	118.12		
	31.00	143.6	49.1	118.15		
	32.00	144.8	50.3	118.18		
	33.00	146.0	51.5	118.21		
	34.00	147.3	52.8	118.24		
	35.00	148.4	54.0	118.28		
	36.00	149.5	55.0	118.31		
	37.00	150.7	56.2	118.35		
	38.00	152.0	57.5	118.41		
	39.00	153.1	58.6	118.41		
	40.00	153.9	59.4	118.42		
	41.00	154.7	60.2	118.42		
	42.00	155.7	61.2	118.45		
	43.00	156.8	62.3	118.49		
	44.00	157.9	63.4	118.54		
	45.00	159.0	64.5	118.57		
	46.00	159.9	65.4	118.61		
	47.00	160.8	66.3	118.64		
	48.00	161.6	67.1	118.67		
	49.00	162.4	67.9	118.70		
	50.00	163.3	68.8	118.75		
	51.00	164.0	69.6	118.79		
	52.00	164.9	70.4	118.82		
	53.00	165.9	71.4	118.85		
	54.00	166.9	72.4	118.89		
	55.00	167.9	73.4	118.92		
	56.00	168.9	74.4	118.97		
	57.00	169.8	75.3	119.01		
***** End Flow 2	58.00	170.6	76.1	119.04		
***** Start Shutin 2	0.00	170.6	0.0	119.04	0.0000	0.029

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10327 DST #3 Roberts #1-22 Ranken Energy Corp.

DATE: 08/29/97

TIME: 06:01:02

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
1.00	213.6	43.0	119.08	88.0000	0.046
2.00	241.4	70.8	119.13	44.5000	0.058
3.00	257.1	86.5	119.17	30.0000	0.066
4.00	266.8	96.2	119.21	22.7500	0.071
5.00	273.0	102.4	119.26	18.4000	0.075
6.00	277.3	106.6	119.31	15.5000	0.077
7.00	280.4	109.7	119.35	13.4286	0.079
8.00	282.8	112.2	119.39	11.8750	0.080
9.00	284.9	114.3	119.44	10.6667	0.081
10.00	286.6	116.0	119.48	9.7000	0.082
11.00	287.9	117.3	119.53	8.9091	0.083
12.00	289.2	118.6	119.56	8.2500	0.084
13.00	290.3	119.7	119.61	7.6923	0.084
14.00	291.4	120.7	119.65	7.2143	0.085
15.00	292.3	121.7	119.69	6.8000	0.085
16.00	293.3	122.6	119.73	6.4375	0.086
17.00	294.0	123.4	119.77	6.1176	0.086
18.00	294.9	124.2	119.80	5.8333	0.087
19.00	295.6	125.0	119.84	5.5789	0.087
20.00	296.3	125.7	119.88	5.3500	0.088
21.00	297.0	126.4	119.92	5.1429	0.088
22.00	297.7	127.1	119.94	4.9545	0.089
23.00	298.3	127.7	119.98	4.7826	0.089
24.00	298.8	128.2	120.01	4.6250	0.089
25.00	299.4	128.8	120.04	4.4800	0.090
26.00	299.9	129.2	120.07	4.3462	0.090
27.00	300.3	129.6	120.10	4.2222	0.090
28.00	300.7	130.1	120.12	4.1071	0.090
29.00	301.2	130.5	120.16	4.0000	0.091
30.00	301.6	131.0	120.19	3.9000	0.091
31.00	302.1	131.4	120.21	3.8065	0.091
32.00	302.6	132.0	120.24	3.7188	0.092
33.00	303.0	132.4	120.27	3.6364	0.092
34.00	303.5	132.8	120.28	3.5588	0.092
35.00	303.7	133.1	120.32	3.4857	0.092
36.00	304.1	133.5	120.34	3.4167	0.092
37.00	304.4	133.8	120.36	3.3514	0.093
38.00	304.8	134.1	120.38	3.2895	0.093
39.00	305.2	134.6	120.41	3.2308	0.093
40.00	305.5	134.9	120.42	3.1750	0.093
41.00	305.8	135.2	120.44	3.1220	0.094
42.00	306.2	135.6	120.46	3.0714	0.094
43.00	306.5	135.9	120.48	3.0233	0.094
44.00	306.8	136.2	120.51	2.9773	0.094
45.00	307.1	136.5	120.53	2.9333	0.094
46.00	307.4	136.8	120.54	2.8913	0.095
47.00	307.7	137.1	120.57	2.8511	0.095
48.00	308.0	137.4	120.59	2.8125	0.095
49.00	308.2	137.6	120.60	2.7755	0.095
50.00	308.5	137.9	120.63	2.7400	0.095
51.00	308.8	138.2	120.64	2.7059	0.095

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10327 DST #3 Roberts #1-22 Ranken Energy Corp.

DATE: 08/29/97

TIME: 06:01:02

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
52.00	309.1	138.4	120.66	2.6731	0.096
53.00	309.4	138.8	120.68	2.6415	0.096
54.00	309.6	139.0	120.70	2.6111	0.096
55.00	309.8	139.2	120.71	2.5818	0.096
56.00	310.2	139.5	120.73	2.5536	0.096
57.00	310.3	139.7	120.76	2.5263	0.096
58.00	310.5	139.9	120.76	2.5000	0.096
59.00	310.7	140.1	120.78	2.4746	0.097
60.00	310.9	140.3	120.80	2.4500	0.097
61.00	311.1	140.5	120.80	2.4262	0.097
62.00	311.3	140.7	120.83	2.4032	0.097
63.00	311.6	141.0	120.84	2.3810	0.097
64.00	311.7	141.1	120.85	2.3594	0.097
65.00	311.9	141.3	120.87	2.3385	0.097
66.00	312.0	141.4	120.88	2.3182	0.097
67.00	312.3	141.7	120.89	2.2985	0.098
68.00	312.5	141.9	120.91	2.2794	0.098
69.00	312.6	142.0	120.93	2.2609	0.098
70.00	312.7	142.1	120.94	2.2429	0.098
71.00	313.0	142.4	120.96	2.2254	0.098
72.00	313.1	142.5	120.96	2.2083	0.098
73.00	313.3	142.7	120.98	2.1918	0.098
74.00	313.4	142.8	120.99	2.1757	0.098
75.00	313.6	143.0	121.01	2.1600	0.098
76.00	313.8	143.1	121.02	2.1447	0.098
77.00	313.9	143.3	121.03	2.1299	0.099
78.00	314.0	143.4	121.05	2.1154	0.099
79.00	314.3	143.7	121.06	2.1013	0.099
80.00	314.4	143.7	121.07	2.0875	0.099
81.00	314.5	143.9	121.09	2.0741	0.099
82.00	314.6	144.0	121.10	2.0610	0.099
83.00	314.7	144.1	121.11	2.0482	0.099
84.00	314.9	144.3	121.12	2.0357	0.099
85.00	315.0	144.4	121.13	2.0235	0.099
86.00	315.1	144.5	121.14	2.0116	0.099
87.00	315.3	144.7	121.15	2.0000	0.099
88.00	315.3	144.7	121.16	1.9886	0.099
89.00	315.5	144.8	121.18	1.9775	0.10
90.00	315.6	144.9	121.18	1.9667	0.10
91.00	315.7	145.1	121.21	1.9560	0.10
92.00	315.9	145.3	121.21	1.9457	0.10
93.00	316.0	145.3	121.23	1.9355	0.10
94.00	316.1	145.5	121.24	1.9255	0.10
95.00	316.3	145.6	121.26	1.9158	0.100
96.00	316.3	145.7	121.27	1.9062	0.100
97.00	316.4	145.8	121.29	1.8969	0.100
98.00	316.6	146.0	121.28	1.8878	0.100
99.00	316.7	146.1	121.29	1.8788	0.100
100.00	316.8	146.2	121.30	1.8700	0.100
101.00	316.9	146.3	121.31	1.8614	0.100
102.00	317.0	146.4	121.32	1.8529	0.100

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10327 DST #3 Roberts #1-22 Ranken Energy Corp.

DATE: 08/29/97

TIME: 06:01:02

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	103.00	317.1	146.4	121.34	1.8447	0.101
	104.00	317.2	146.6	121.35	1.8365	0.101
	105.00	317.2	146.6	121.36	1.8286	0.101
	106.00	317.3	146.7	121.37	1.8208	0.101
	107.00	317.3	146.7	121.38	1.8131	0.101
	108.00	317.4	146.7	121.38	1.8056	0.101
	109.00	317.5	146.9	121.40	1.7982	0.101
	110.00	317.6	147.0	121.41	1.7909	0.101
	111.00	317.8	147.2	121.42	1.7838	0.101
	112.00	317.8	147.2	121.43	1.7768	0.101
	113.00	318.0	147.4	121.43	1.7699	0.101
	114.00	318.2	147.6	121.44	1.7632	0.101
	115.00	318.2	147.6	121.45	1.7565	0.101
	116.00	318.3	147.7	121.46	1.7500	0.101
	117.00	318.4	147.8	121.47	1.7436	0.101
	118.00	318.5	147.9	121.49	1.7373	0.101
	119.00	318.6	147.9	121.50	1.7311	0.101
***** End Shut-in 2	120.00	318.6	148.0	121.51	1.7250	0.102
***** Start Flow 3	0.00	2020.3	0.0	121.63		
***** End Flow 3	1.00	1997.6	-22.7	121.72		
***** End Shut-in 3	1.00	1997.6	0.0	121.72	88.0000	3.991
***** Final Hydro.	394.00	1997.6	0.0	121.72		

TEST HISTORY

10327 DST #3 Roberts #1-22 Ranken Energy Corp.

Flag Points

t (Min.) P (PSig) t (Min.) P (PSig)

A: 0.00 2096.62
 B: 0.00 20.19
 C: 29.00 86.14
 D: 61.00 341.35
 E: 0.00 94.49
 F: 58.00 170.62
 G: 120.00 318.64
 H: 0.00 2020.33

Q: 0.00 2020.33

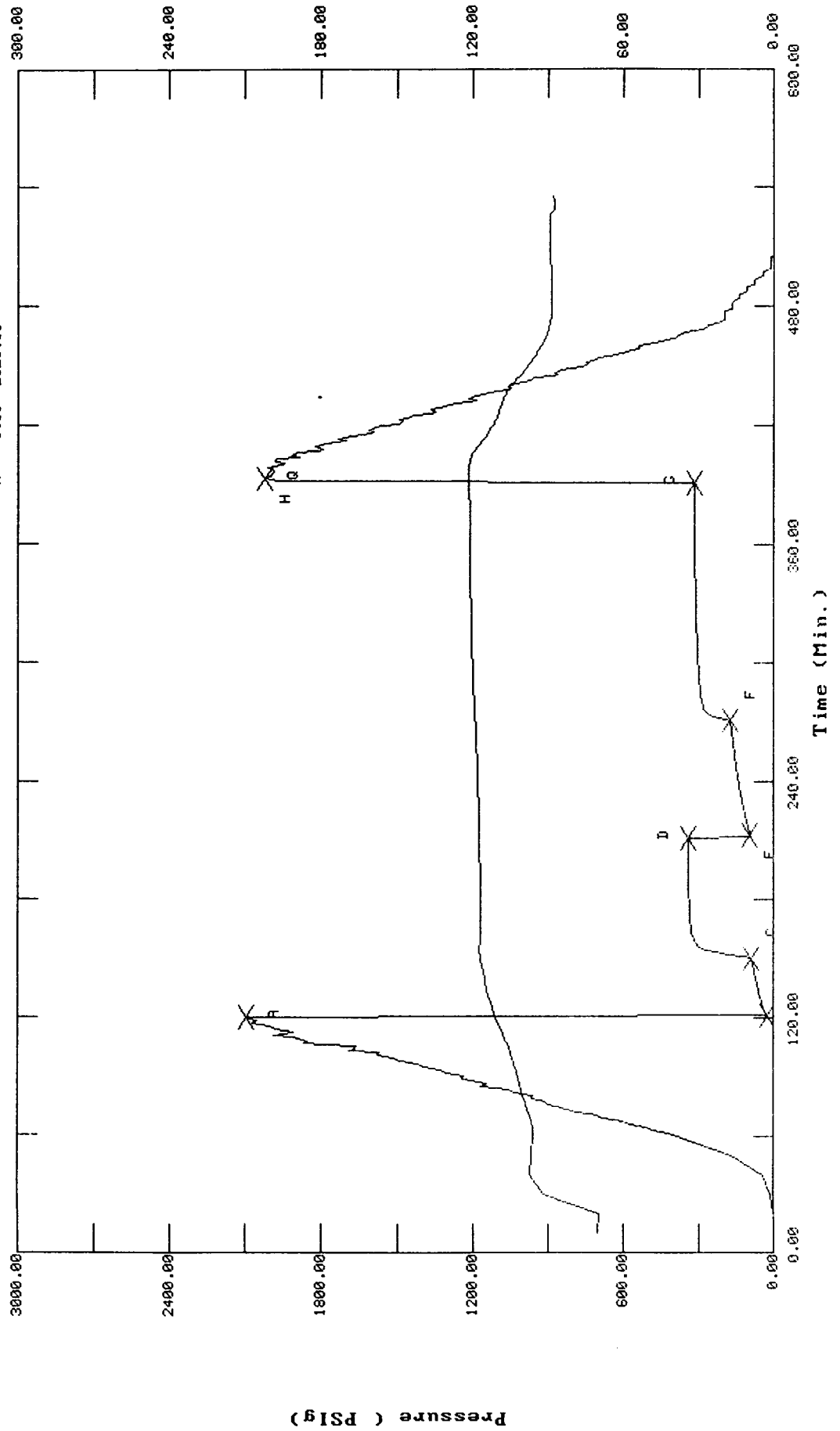
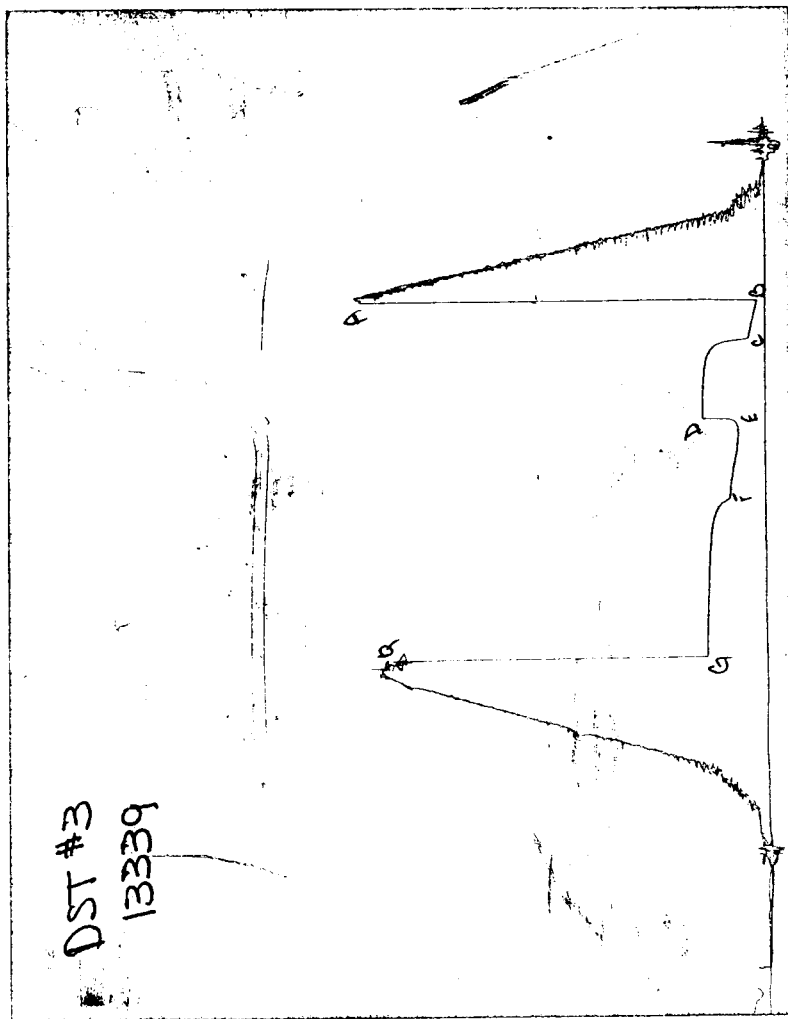


CHART PAGE



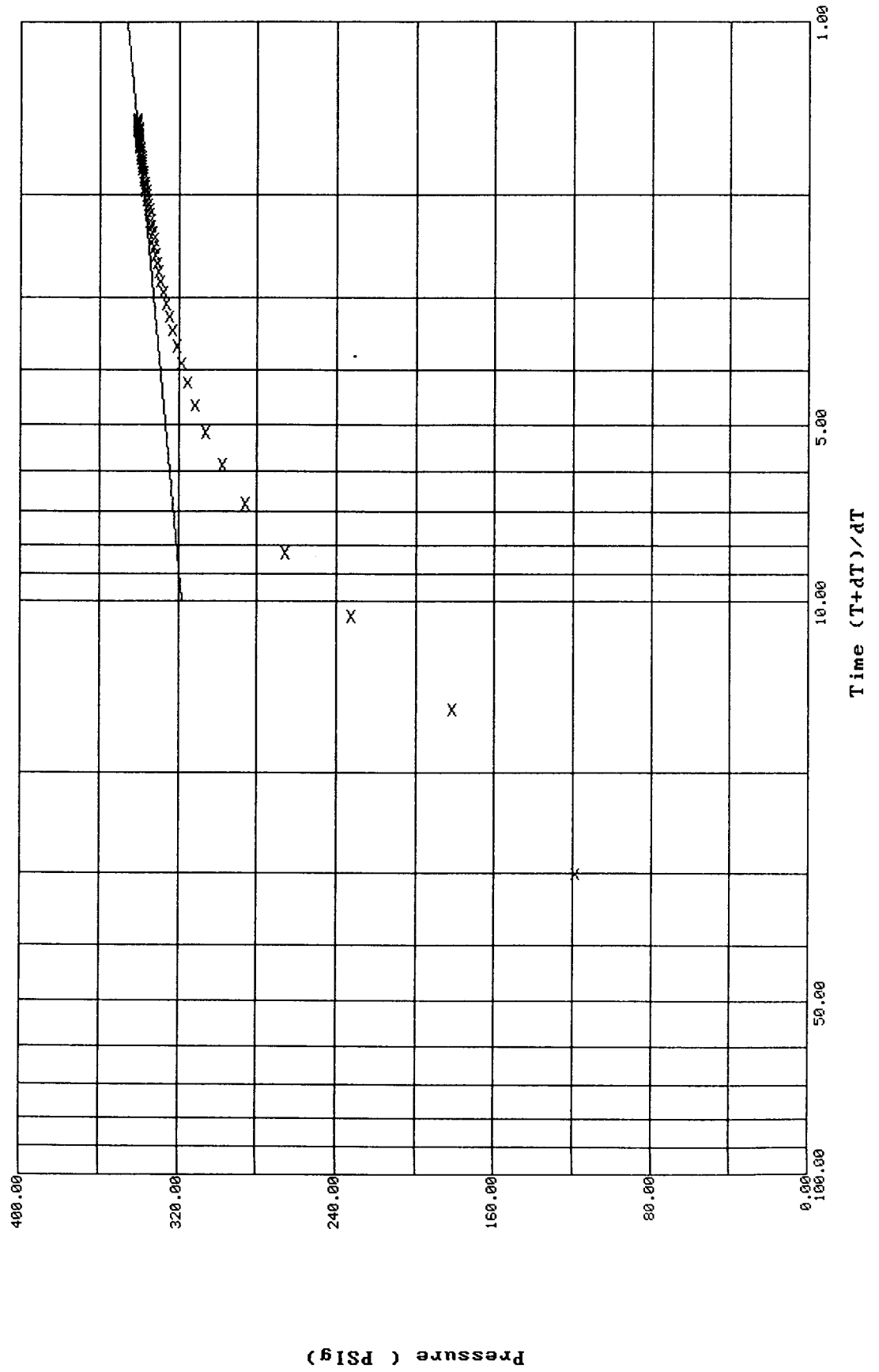
This is a photocopy of the actual AK-1 recorder chart

Horner Plot: shut-in #1

10327 DST #3 Roberts #1-22 Ranken Energy Corp.

Slope: 27.6995 PSig/cycle

Ext. Pressure: 346.0229 PSig

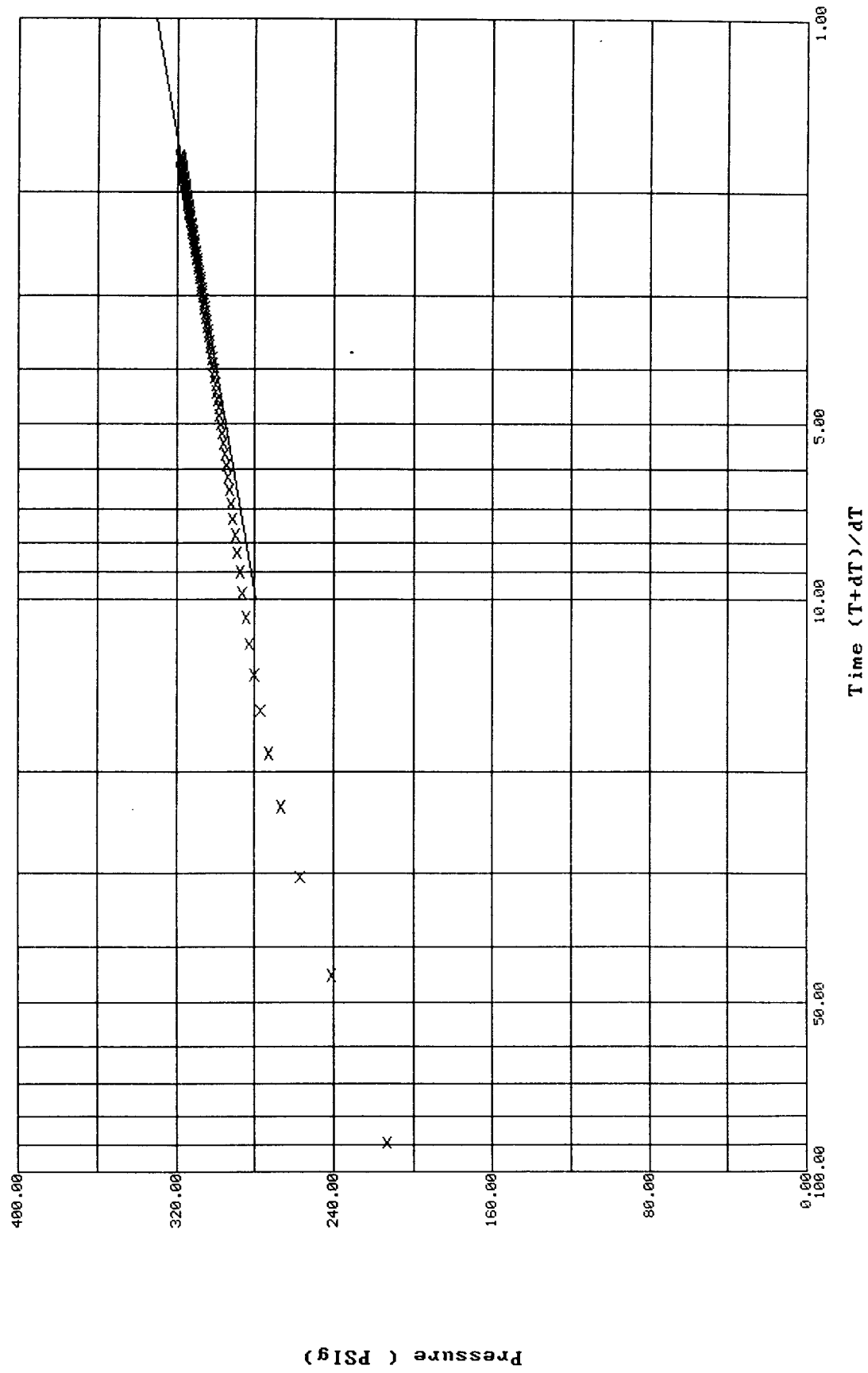


Horner Plot: shut-in #2

10327 DST #3 Roberts #1-22 Ranken Energy Corp.

Slope: 51.3359 PSig/cycle

Ext. Pressure: 330.8304 PSig



TRILOBITE TESTING L.L.C.

OPERATOR : Ranken Energy Corp.

DATE 8-30-97

WELL NAME: Roberts #1-22

KB 27950.00 ft

TICKET NO: 10328

DST #4

LOCATION : 22-16S-29W Lane KS.

GR 2790.00 ft

FORMATION: Marmaton Group

INTERVAL : 4396.00 To 4474.00 ft

TD 4474.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13339	13339	2346			PF Fr. 1337 to 1352 hr
SI 30 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1352 to 1422 hr
SF 45 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1422 to 1507 hr
FS 90 Depth(ft)	4469.0	4469.0	4398.0	0.0	0.0	FS Fr. 1507 to 1637 hr

	Field	1	2	3	4	
A. Init Hydro	2253.0	2267.0	2213.0	0.0	0.0	T STARTED 1213 hr
B. First Flow	104.0	129.0	41.0	0.0	0.0	T ON BOTM 1335 hr
B1. Final Flow	145.0	145.0	137.0	0.0	0.0	T OPEN 1337 hr
C. In Shut-in	719.0	718.0	709.0	0.0	0.0	T PULLED 1637 hr
D. Init Flow	259.0	285.0	183.0	0.0	0.0	T OUT 1930 hr
E. Final Flow	291.0	298.0	261.0	0.0	0.0	
F. Fl Shut-in	750.0	766.0	747.0	0.0	0.0	
G. Final Hydro	2223.0	2255.0	2188.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 855.00 ft of 0.00 ft in DC and 855.00 ft in DP
 500.00 ft of Clean Gassy Oil
 0.00 ft of 40%gas 60%oil
 355.00 ft of Gassy Oil Cut Mud
 0.00 ft of 55%gas 15%oil 30%mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 34.00

BLOW DESCRIPTION

Initial Flow:

Fair to strong blow off bottom in
 4 mins.

Initial Shut In:

Bled off blow, fair blow off bottom
 in 10 mins

Final Flow:

Fair to strong blow off bottom
 in 4 mins

Final Shut In:

Bled off blow, fair blow built to
 bottom in 5 mins, Gas to Surface in
 75 mins

SAMPLES:

SENT TO:

TOOL DATA-----
 Tool Wt. 2000.00 lbs
 Wt Set On Packer 30000.00 lbs
 Wt Pulled Loose 45000.00 lbs
 Initial Str Wt 40000.00 lbs
 Unseated Str Wt 44000.00 lbs
 Bot Choke 0.75 in
 Hole Size 8.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 3880.00 ft
 H.W. I.D 2.80 in
 H.W. Length 505.00 ft

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	47.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 F
Hole Condition	Good
% Porosity	8.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Rod Steinbrink
Co. Rep.	Mark Herndon
Contr.	Abercrombie
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Roberts #1-22

LOCATION : 22-16S-29W Lane KS.

TICKET No. 10328 D.S.T. No. 4 DATE 8-30-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 16

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 36

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 98

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands 71 Single 1 Total 4385

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4483

TOTAL DEPTH 4474

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

P.O. SUB 1' Above 120' WP	4256
C.O. SUB 1'	4376
S.I. TOOL 5'	4382
HMV 5'	4387
JARS N/A	
SAFETY JOINT N/A	
PACKER 4'	4391
PACKER 5'	4396
DEPTH	
STUBB 1'	4397
ANCHOR	
Alpine Rec. @ 4398	
8' Perf.	4405
1' CO Sub	4406
62' WP	4468
1' CO Sub	4469
T.C.	
DEPTH	
AK-1 Rec. @ 4469	
BULLNOSE 5'	
T.D.	4474

Operator.....: Ranken Energy Corp
Well Name.....: Roberts 1-22
DST Number.....: 4

Location.: 22-16S-29W Lane KS Recorder No...: 2346
Test Type: CONV Recorder Depth: 4398
Formation: Marmaron Test Interval.: 4396-4474

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	3.00 ft
Porosity.....:	8.00 %
Bottom Hole Temp.....:	127.00 F
Specific Gravity.....:	0.032
API Gravity.....:	34.00
Compressibility.....:	0.000006 /psi
Viscosity.....:	5.5250 cp
Total Recovery.....:	855.00 ft
Total Flowing Time.....:	60.00 min.
Flow Rate.....:	120.60 bbls/d
Final Flowing Pressure.....:	261.00 psi
Horner Slope.....:	118.5028 psi/cycle
Extrapolated Pressure.....:	769.78 psi
Formation Volume Factor.....:	1.03 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	315.116253 md
Flow Capacity.....:	945.3488 md.ft
Transmissibility.....:	171.1038 md.ft/cp
Skin Factor.....:	-1.3133
Radius of Investigation.....:	316.11612 ft
Damage Ratio.....:	0.7900
Productivity Index.....:	0.2370 bbls/psi.d
Productivity Index W/O Damage.:	0.1873 bbls/psi.d

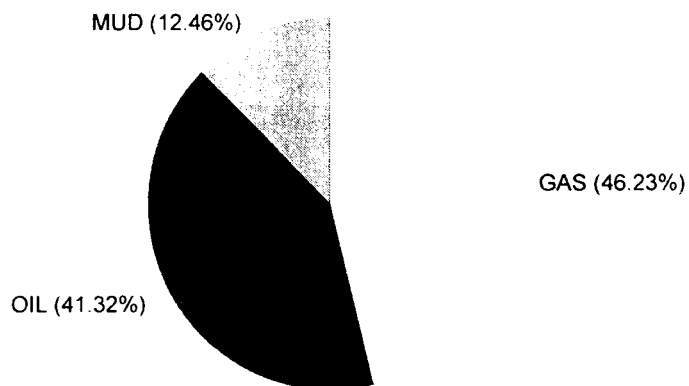
CALCULATED RECOVERY ANALYSIS

DST 4

TICKET 10328

SAMPLE		TOTAL		GAS		OIL		WATER		MUD	
		FEET	%	FEET	%	FEET	%	FEET	%	FEET	%
DRILL	1	500	40	200	60	300		0		0	
PIPE	2	355	55	195.25	15	53.25		0	30	106.5	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
	6			0		0		0		0	
WEIGHT	1			0		0		0		0	
PIPE	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
DRILL	1			0		0		0		0	
COLLARS	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
TOTAL		855		395.25		353.25		0		106.5	

BBL OIL=	5.023215	*	HRS OPEN	1	=	BBL/DAY	120.6
BBL WATER=	0	*			=		0
BBL MUD=	1.51443						
BBL GAS =	5.620455						



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10328 DST #4 Roberts #1-22 Ranken Energy Corp.

DATE: 08/30/97 TIME: 12:13:21

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	83.00	2213.0	0.0	114.91		
***** Start Flow 1	0.00	41.1	0.0	115.18		
	1.00	53.0	12.0	115.40		
	2.00	60.8	19.8	115.76		
	3.00	67.8	26.8	116.26		
	4.00	74.5	33.4	116.75		
	5.00	81.4	40.3	117.21		
	6.00	87.8	46.7	117.61		
	7.00	93.7	52.7	117.94		
	8.00	99.6	58.5	118.23		
	9.00	104.9	63.9	118.44		
	10.00	110.2	69.2	118.71		
	11.00	116.1	75.0	118.94		
	12.00	120.5	79.4	119.14		
	13.00	125.1	84.0	119.32		
	14.00	130.6	89.6	119.48		
	15.00	134.7	93.6	119.61		
***** End Flow 1	16.00	137.4	96.3	119.73		
***** Start Shutin 1	0.00	137.4	0.0	119.73	0.0000	0.019
	1.00	210.4	73.0	119.84	17.0000	0.044
	2.00	317.8	180.4	119.97	9.0000	0.101
	3.00	440.1	302.7	120.09	6.3333	0.194
	4.00	544.6	407.2	120.22	5.0000	0.297
	5.00	604.4	467.0	120.36	4.2000	0.365
	6.00	639.2	501.8	120.49	3.6667	0.409
	7.00	656.4	519.0	120.62	3.2857	0.431
	8.00	667.6	530.2	120.73	3.0000	0.446
	9.00	677.6	540.2	120.82	2.7778	0.459
	10.00	679.9	542.6	120.92	2.6000	0.462
	11.00	684.7	547.3	121.00	2.4545	0.469
	12.00	689.0	551.6	121.07	2.3333	0.475
	13.00	692.5	555.1	121.14	2.2308	0.480
	14.00	694.9	557.6	121.20	2.1429	0.483
	15.00	697.1	559.8	121.25	2.0667	0.486
	16.00	700.9	563.5	121.31	2.0000	0.491
	17.00	703.0	565.6	121.35	1.9412	0.494
	18.00	704.4	567.0	121.40	1.8889	0.496
	19.00	705.6	568.2	121.44	1.8421	0.498
	20.00	706.6	569.3	121.49	1.8000	0.499
	21.00	707.6	570.2	121.53	1.7619	0.501
	22.00	710.9	573.5	121.57	1.7273	0.505
	23.00	711.9	574.5	121.62	1.6957	0.507
	24.00	709.9	572.5	121.66	1.6667	0.504
	25.00	708.6	571.2	121.69	1.6400	0.502
	26.00	708.6	571.2	121.74	1.6154	0.502
	27.00	708.6	571.2	121.79	1.5926	0.502
***** End Shut-in 1	28.00	708.7	571.3	121.81	1.5714	0.502
***** Start Flow 2	0.00	183.0	0.0	121.89		
	1.00	184.5	1.5	121.91		
	2.00	192.7	9.7	121.93		
	3.00	193.1	10.1	121.95		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10328 DST #4 Roberts #1-22 Ranken Energy Corp.

DATE: 08/30/97

TIME: 12:13:21

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.00	193.0	10	121.98		
5.00	191.3	8.3	122.00		
6.00	185.9	2.9	122.04		
7.00	193.8	10.8	122.08		
8.00	194.8	11.8	122.12		
9.00	196.4	13.4	122.17		
10.00	199.1	16.1	122.21		
11.00	202.3	19.3	122.26		
12.00	203.1	20.1	122.32		
13.00	205.6	22.6	122.38		
14.00	207.6	24.6	122.43		
15.00	209.9	26.9	122.50		
16.00	212.3	29.3	122.56		
17.00	214.6	31.6	122.63		
18.00	216.5	33.5	122.69		
19.00	219.2	36.2	122.76		
20.00	221.1	38.1	122.83		
21.00	223.4	40.4	122.89		
22.00	225.7	42.7	122.96		
23.00	228.1	45.1	123.03		
24.00	230.7	47.7	123.10		
25.00	233.0	49.9	123.17		
26.00	235.1	52.1	123.23		
27.00	237.2	54.2	123.30		
28.00	239.5	56.5	123.37		
29.00	242.0	59.0	123.43		
30.00	244.4	61.4	123.50		
31.00	246.4	63.4	123.57		
32.00	248.5	65.5	123.63		
33.00	250.3	67.3	123.70		
34.00	252.5	69.5	123.76		
35.00	255.0	72.0	123.83		
36.00	257.1	74.1	123.89		
37.00	259.1	76.1	123.95		
38.00	260.8	77.7	124.02		

***** End Flow 2

***** Start Shutin 2	0.00	260.8	0.0	124.02	0.0000	0.068
	1.00	376.8	116.1	124.08	55.0000	0.142
	2.00	510.3	249.5	124.16	28.0000	0.260
	3.00	573.5	312.7	124.24	19.0000	0.329
	4.00	608.9	348.2	124.32	14.5000	0.371
	5.00	631.8	371.1	124.41	11.8000	0.399
	6.00	647.4	386.7	124.50	10.0000	0.419
	7.00	659.0	398.3	124.59	8.7143	0.434
	8.00	668.2	407.4	124.68	7.7500	0.446
	9.00	675.0	414.2	124.77	7.0000	0.456
	10.00	680.4	419.7	124.85	6.4000	0.463
	11.00	685.5	424.7	124.93	5.9091	0.470
	12.00	689.9	429.1	125.00	5.5000	0.476
	13.00	693.8	433.1	125.06	5.1538	0.481
	14.00	697.0	436.2	125.13	4.8571	0.486
	15.00	700.0	439.2	125.18	4.6000	0.490

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10328 DST #4 Roberts #1-22 Ranken Energy Corp.

DATE: 08/30/97

TIME: 12:13:21

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
16.00	702.4	441.7	125.25	4.3750	0.493
17.00	704.7	444.0	125.31	4.1765	0.497
18.00	706.8	446.1	125.37	4.0000	0.500
19.00	708.0	447.2	125.41	3.8421	0.501
20.00	708.9	448.1	125.46	3.7000	0.503
21.00	710.1	449.3	125.51	3.5714	0.504
22.00	711.4	450.6	125.55	3.4545	0.506
23.00	712.8	452.0	125.60	3.3478	0.508
24.00	714.2	453.4	125.66	3.2500	0.510
25.00	715.6	454.9	125.69	3.1600	0.512
26.00	717.0	456.2	125.74	3.0769	0.514
27.00	718.2	457.4	125.77	3.0000	0.516
28.00	719.2	458.4	125.82	2.9286	0.517
29.00	720.2	459.4	125.85	2.8621	0.519
30.00	721.1	460.3	125.90	2.8000	0.520
31.00	722.0	461.2	125.93	2.7419	0.521
32.00	722.7	461.9	125.97	2.6875	0.522
33.00	723.4	462.7	126.00	2.6364	0.523
34.00	724.2	463.4	126.04	2.5882	0.524
35.00	725.0	464.2	126.07	2.5429	0.526
36.00	725.6	464.9	126.11	2.5000	0.527
37.00	726.1	465.4	126.15	2.4595	0.527
38.00	726.9	466.1	126.18	2.4211	0.528
39.00	727.6	466.9	126.21	2.3846	0.529
40.00	728.3	467.5	126.24	2.3500	0.530
41.00	728.9	468.2	126.27	2.3171	0.531
42.00	729.6	468.8	126.31	2.2857	0.532
43.00	729.8	469.0	126.34	2.2558	0.533
44.00	730.2	469.5	126.37	2.2273	0.533
45.00	730.8	470.0	126.40	2.2000	0.534
46.00	731.4	470.6	126.43	2.1739	0.535
47.00	731.8	471.1	126.46	2.1489	0.536
48.00	732.2	471.5	126.49	2.1250	0.536
49.00	732.8	472.1	126.52	2.1020	0.537
50.00	733.2	472.5	126.54	2.0800	0.538
51.00	733.7	472.9	126.57	2.0588	0.538
52.00	734.2	473.4	126.60	2.0385	0.539
53.00	734.6	473.9	126.62	2.0189	0.540
54.00	735.0	474.2	126.65	2.0000	0.540
55.00	735.4	474.7	126.68	1.9818	0.541
56.00	735.5	474.8	126.70	1.9643	0.541
57.00	735.9	475.2	126.73	1.9474	0.542
58.00	736.3	475.6	126.75	1.9310	0.542
59.00	736.7	475.9	126.78	1.9153	0.543
60.00	737.1	476.3	126.80	1.9000	0.543
61.00	737.4	476.6	126.82	1.8852	0.544
62.00	737.7	477.0	126.85	1.8710	0.544
63.00	738.1	477.4	126.85	1.8571	0.545
64.00	738.5	477.7	126.89	1.8438	0.545
65.00	738.8	478.1	126.91	1.8308	0.546
66.00	739.2	478.4	126.93	1.8182	0.546

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10328 DST #4 Roberts #1-22 Ranken Energy Corp.

DATE: 08/30/97 TIME: 12:13:21

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	67.00	739.4	478.7	126.96	1.8060	0.547
	68.00	739.8	479.1	126.98	1.7941	0.547
	69.00	740.2	479.4	127.00	1.7826	0.548
	70.00	740.4	479.7	127.01	1.7714	0.548
	71.00	740.7	479.9	127.04	1.7606	0.549
	72.00	741.0	480.3	127.06	1.7500	0.549
	73.00	741.3	480.5	127.08	1.7397	0.549
	74.00	741.5	480.8	127.10	1.7297	0.550
	75.00	741.8	481.0	127.11	1.7200	0.550
	76.00	742.1	481.3	127.14	1.7105	0.551
	77.00	742.3	481.6	127.16	1.7013	0.551
	78.00	742.6	481.8	127.18	1.6923	0.551
	79.00	742.8	482.0	127.20	1.6835	0.552
	80.00	743.1	482.4	127.21	1.6750	0.552
	81.00	743.5	482.7	127.23	1.6667	0.553
	82.00	743.8	483.1	127.25	1.6585	0.553
	83.00	744.0	483.2	127.26	1.6506	0.554
	84.00	744.2	483.5	127.29	1.6429	0.554
	85.00	744.5	483.7	127.30	1.6353	0.554
	86.00	744.7	484.0	127.32	1.6279	0.555
	87.00	744.9	484.1	127.35	1.6207	0.555
	88.00	745.2	484.4	127.35	1.6136	0.555
	89.00	745.4	484.6	127.37	1.6067	0.556
	90.00	745.6	484.8	127.38	1.6000	0.556
	91.00	745.9	485.1	127.39	1.5934	0.556
	92.00	746.1	485.3	127.41	1.5870	0.557
	93.00	746.3	485.5	127.43	1.5806	0.557
	94.00	746.5	485.8	127.45	1.5745	0.557
	95.00	746.7	485.9	127.47	1.5684	0.558
	96.00	746.8	486.0	127.47	1.5625	0.558
	97.00	746.9	486.2	127.49	1.5567	0.558
	98.00	747.1	486.3	127.50	1.5510	0.558
***** End Shut-in 2	99.00	747.3	486.6	127.52	1.5455	0.558
***** Final Hydro.	269.00	2187.9	0.0	127.58		

TEST HISTORY

10328 DST #4 Roberts #1-22 Ranken Energy Corp.

Flag Points

t (Min.) P (PSig)

A: 0.00 2212.99
 B: 0.00 41.06
 C: 16.00 137.37
 D: 28.00 708.71
 E: 0.00 183.01
 F: 38.00 280.76
 G: 99.00 747.32
 Q: 0.00 2187.90

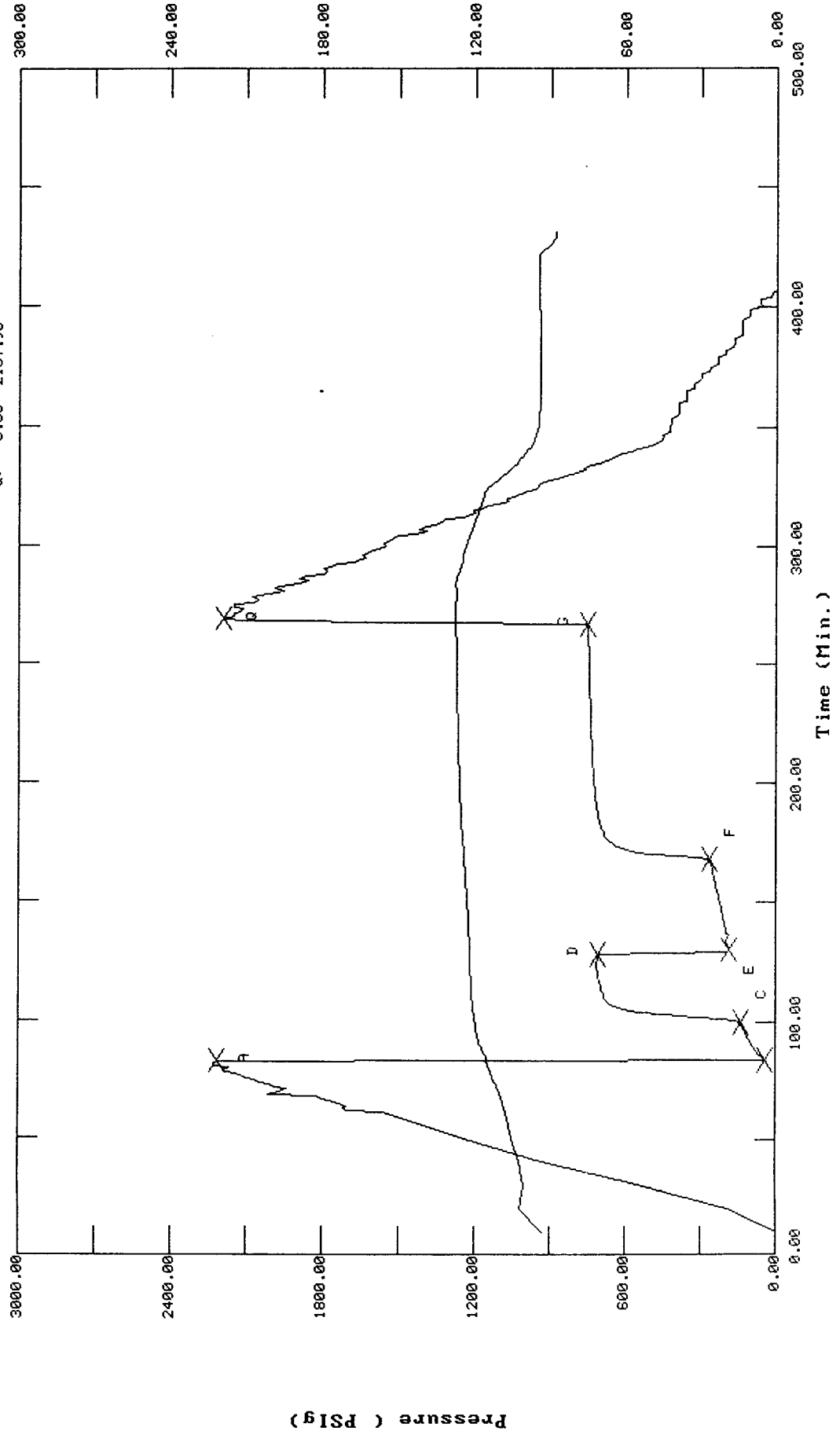
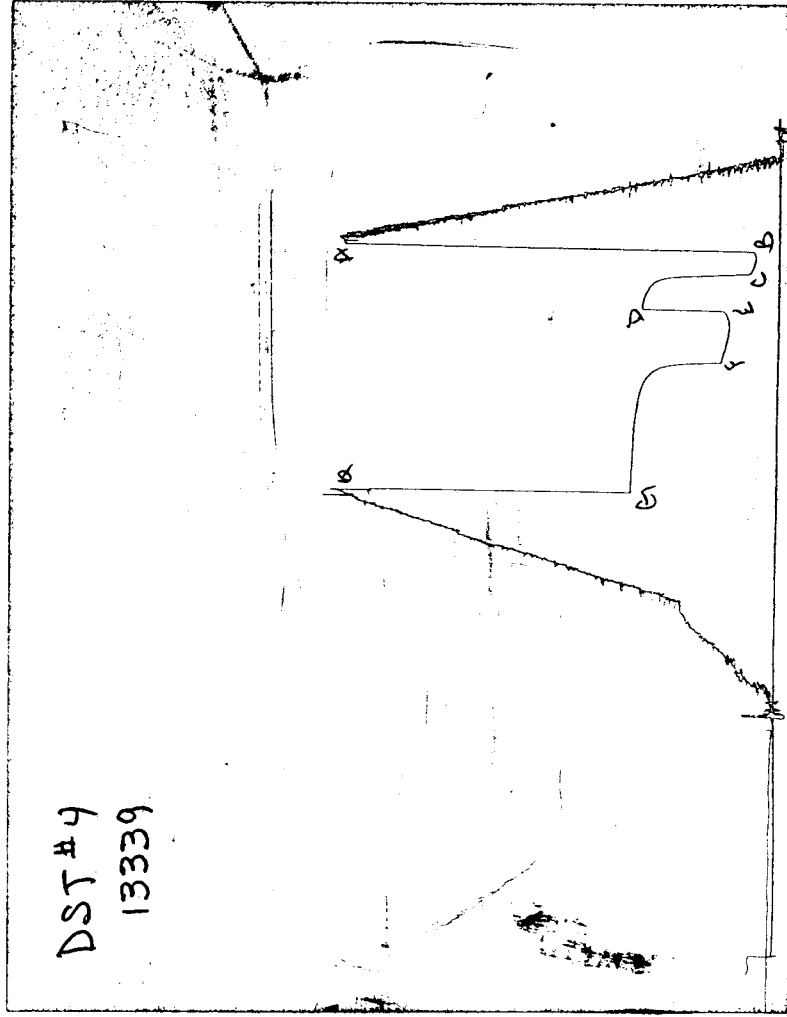


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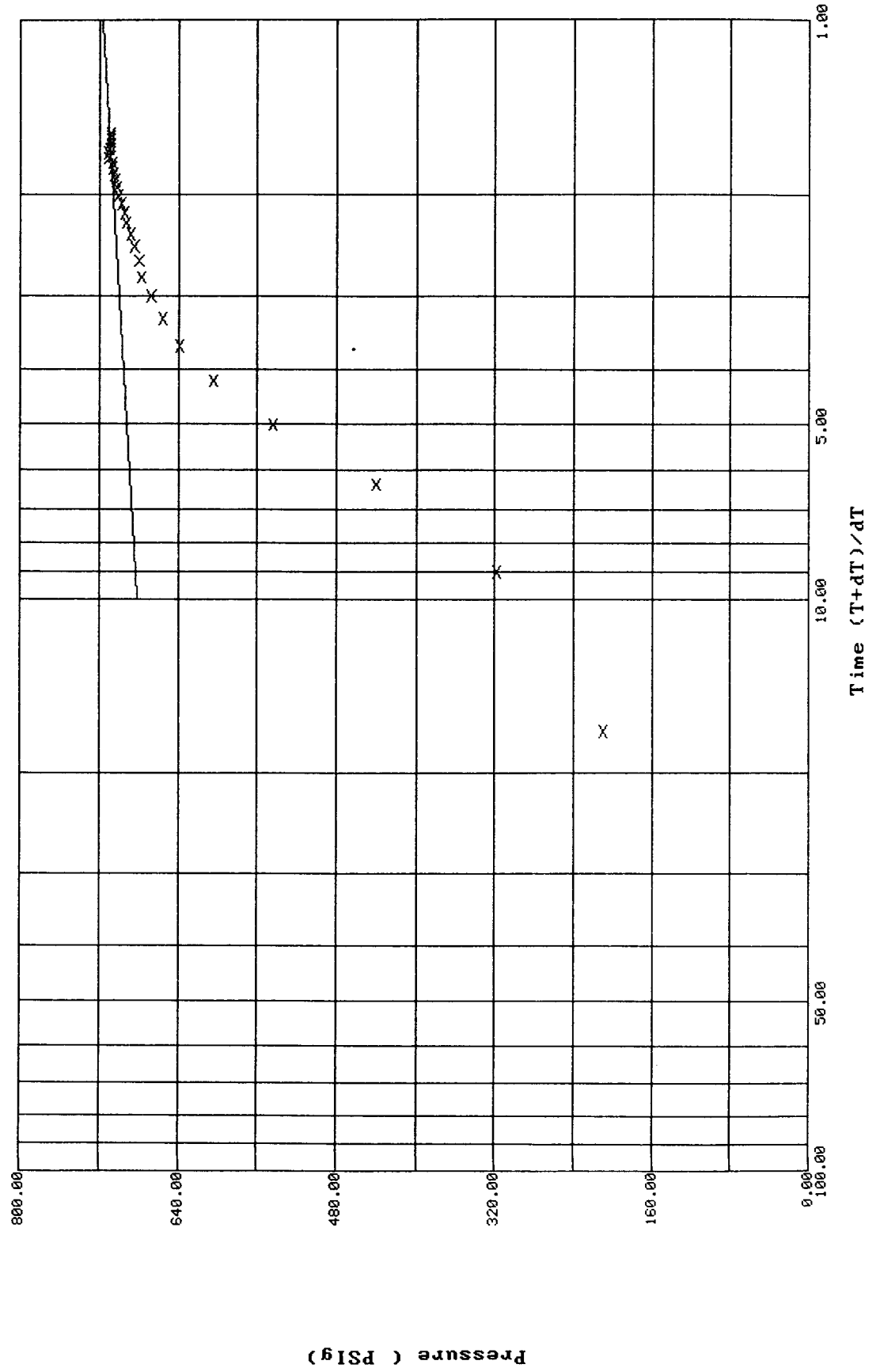
This is a photocopy of the actual AK-1 recorder chart

Horner Plot: shut-in #1

10328 DST #4 Roberts #1-22 Ranken Energy Corp.

Slope: 34.9117 PSlg/cycle

Ext. Pressure: 716.6380 PSlg



Horner Plot: shut-in #2

10328 DST #4 Roberts #1-22 Ranken Energy Corp.

Slope: 118.5028 PSig/cycle

Ext. Pressure: 769.7819 PSig

