WELL NAME:	Orange #1
COMPANY:	Hummon Corporation
LOCATION:	15-25S-34W
	Finney County, Kansas
DATE:	5/5/98

TRILOBITE TESTING L.L.C.

OPERATOR : Hummon Corporation — DATE 5-2-98
WELL NAME: Orange #1 — KB 2957.00 ft — TICKET NO: 11247 — DST #1
LOCATION : 15-25s-34w Finney KS. — GR 2949.00 ft — FORMATION: Morrow
INTERVAL : 4880.00 To 4980.00 ft — TD 4980.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13339	13339	3024		
SI 60	Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12 HR	12	ALP		
FS 180	Depth(ft)	4975.0	4975.0	4885.0	0.0	0.0

TIME DATA----------
PF Fr. 1400 to 1430 hr
IS Fr. 1430 to 1530 hr
SF Fr. 1530 to 1630 hr
FS Fr. 1630 to 1930 hr

	Field	1	2	3	4
A. Init Hydro	2463.0	2468.0	2419.0	0.0	0.0
B. First Flow	83.0	107.0	34.0	0.0	0.0
B1. Final Flow	104.0	114.0	103.0	0.0	0.0
C. In Shut-in	1040.0	1051.0	1056.0	0.0	0.0
D. Init Flow	135.0	158.0	115.0	0.0	0.0
E. Final Flow	176.0	174.0	173.0	0.0	0.0
F. Fl Shut-in	1070.0	1074.0	1086.0	0.0	0.0
G. Final Hydro	2403.0	2430.0	2411.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1125 hr
T ON BOTM 1357 hr
T OPEN 1400 hr
T PULLED 1930 hr
T OUT 2145 hr

RECOVERY
Tot Fluid 390.00 ft of 120.00 ft in DC and 270.00 ft in DP
90.00 ft of Gas oil cut mud 10%gas 15%oil 75%mud
60.00 ft of Gas oil cut mud 10%gas 35%oil 55%mud
240.00 ft of Gas mud cut oil 50%gas 40%oil 10%mud
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 31.00

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	110000.00 lbs
Initial Str Wt	80000.00 lbs
Unseated Str Wt	84000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	120.00 ft
D.P. Length	4758.00 ft

BLOW DESCRIPTION

IF; Surface blow slowly built to bttm in 10 mins.

ISI; Weak surface return died in 10 mins

FF; Fair to strong blow off bttm in 2 mins.

FSI; Surface return built to 2" then died off.

MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	52.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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.	Brad Rine
Contr.	Abercrombie
Rig #	4
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Orange #1

LOCATION : 15-25s-34w Finney KS.

TICKET No. 11247 D.S.T. No. 1 DATE 5-2-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL 38

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands1 Single Total 62

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 127

D.C. ABOVE TOOLS.Stands2 Single Total 120

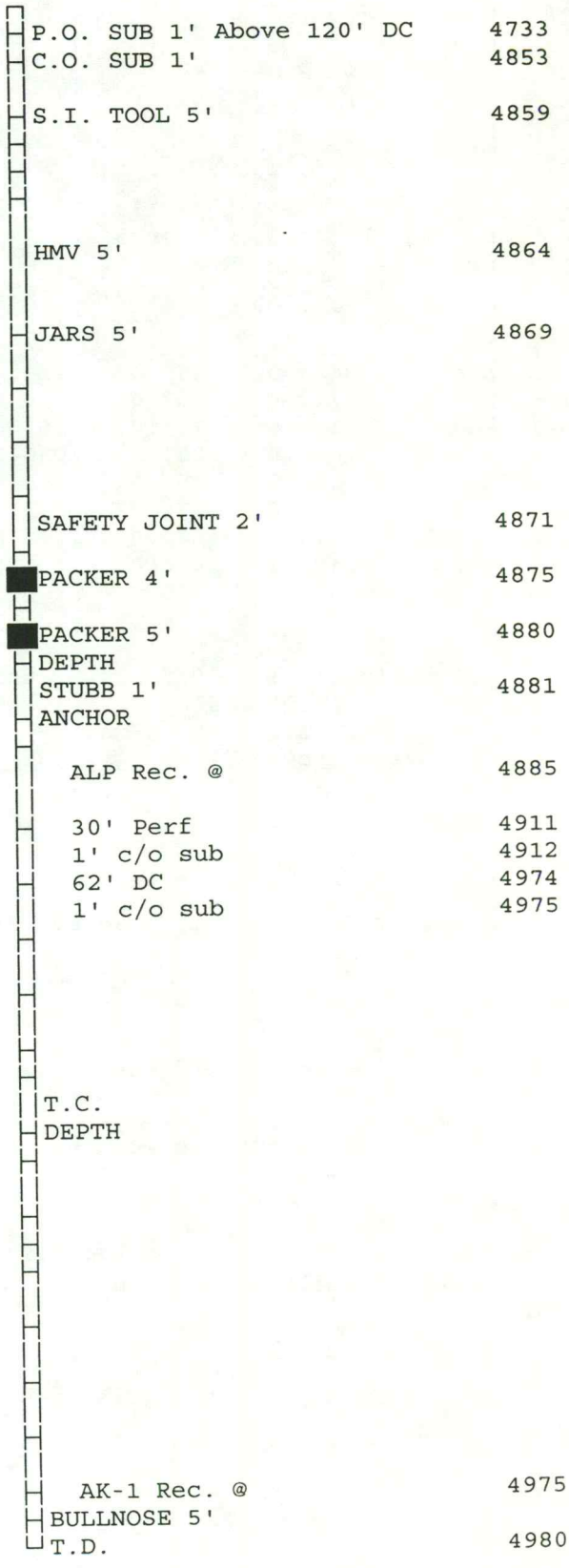
D.P. ABOVE TOOLS.Stands76 Single 1 Total 4758

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5005

TOTAL DEPTH 4980

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:



TEST HISTORY

11247 DST #1 Orange #1 Hummon Corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2419.59
B:	0.00	34.83
C:	31.00	103.18
D:	60.00	1056.42
E:	0.00	115.20
F:	58.00	173.16
G:	183.00	1086.90
Q:	0.00	2411.18

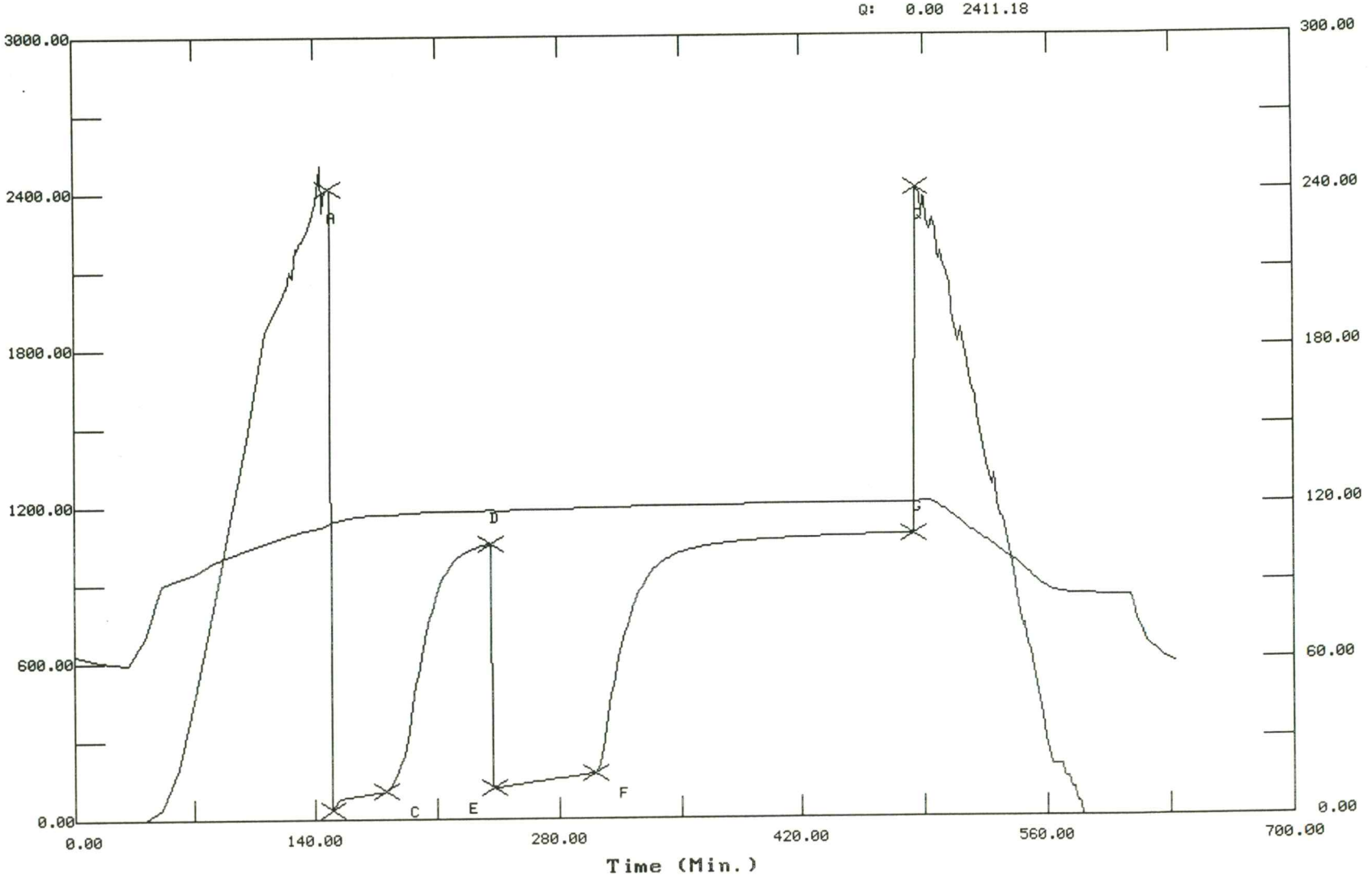
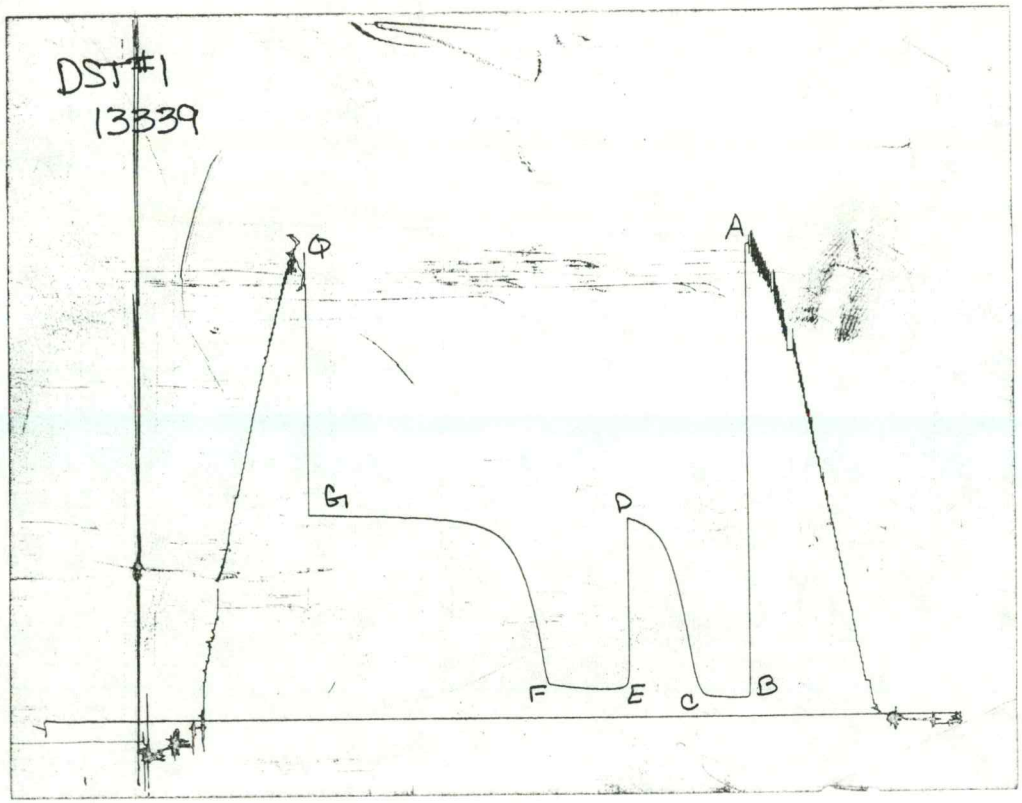


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	148.00	2419.6	0.0	113.49		
****** Start Flow 1	0.00	34.8	0.0	114.11		
	1.00	51.3	16.4	114.33		
	2.00	62.7	27.9	114.51		
	3.00	70.9	36.1	114.69		
	4.00	76.8	42.0	114.87		
	5.00	77.6	42.8	115.02		
	6.00	78.5	43.7	115.19		
	7.00	79.3	44.4	115.37		
	8.00	80.5	45.6	115.53		
	9.00	82.4	47.5	115.67		
	10.00	83.5	48.7	115.81		
	11.00	84.7	49.8	115.93		
	12.00	86.3	51.5	116.04		
	13.00	88.1	53.3	116.16		
	14.00	89.3	54.4	116.27		
	15.00	89.4	54.6	116.36		
	16.00	89.4	54.5	116.45		
	17.00	90.0	55.2	116.53		
	18.00	91.3	56.5	116.61		
	19.00	93.2	58.4	116.69		
	20.00	94.4	59.5	116.74		
	21.00	95.0	60.2	116.79		
	22.00	95.6	60.8	116.82		
	23.00	96.6	61.7	116.84		
	24.00	98.2	63.4	116.86		
	25.00	99.3	64.5	116.89		
	26.00	99.6	64.8	116.92		
	27.00	100.3	65.4	116.93		
	28.00	101.0	66.2	116.96		
	29.00	101.7	66.8	116.96		
	30.00	102.2	67.4	116.98		
****** End Flow 1	31.00	103.2	68.4	116.99		
****** Start Shutin 1	0.00	103.2	0.0	116.99	0.0000	0.011
	1.00	110.8	7.6	117.01	32.0000	0.012
	2.00	122.6	19.4	117.02	16.5000	0.015
	3.00	134.6	31.5	117.06	11.3333	0.018
	4.00	147.1	43.9	117.08	8.7500	0.022
	5.00	158.4	55.2	117.12	7.2000	0.025
	6.00	169.8	66.6	117.15	6.1667	0.029
	7.00	184.0	80.8	117.19	5.4286	0.034
	8.00	199.6	96.5	117.25	4.8750	0.040
	9.00	220.8	117.6	117.30	4.4444	0.049
	10.00	244.9	141.7	117.36	4.1000	0.060
	11.00	272.2	169.0	117.40	3.8182	0.074
	12.00	304.8	201.6	117.46	3.5833	0.093
	13.00	343.1	239.9	117.51	3.3846	0.118
	14.00	385.7	282.6	117.56	3.2143	0.149
	15.00	429.9	326.7	117.61	3.0667	0.185
	16.00	473.2	370.0	117.67	2.9375	0.224
	17.00	513.5	410.3	117.70	2.8235	0.264

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	551.2	448.0	117.75	2.7222	0.304
	19.00	586.6	483.4	117.79	2.6316	0.344
	20.00	621.0	517.8	117.83	2.5500	0.386
	21.00	654.3	551.1	117.87	2.4762	0.428
	22.00	685.7	582.5	117.90	2.4091	0.470
	23.00	715.6	612.4	117.93	2.3478	0.512
	24.00	743.9	640.8	117.97	2.2917	0.553
	25.00	770.7	667.5	118.00	2.2400	0.594
	26.00	796.4	693.2	118.01	2.1923	0.634
	27.00	820.5	717.3	118.05	2.1481	0.673
	28.00	842.9	739.7	118.07	2.1071	0.711
	29.00	863.6	760.4	118.08	2.0690	0.746
	30.00	882.7	779.5	118.10	2.0333	0.779
	31.00	899.9	796.7	118.12	2.0000	0.810
	32.00	915.5	812.3	118.14	1.9688	0.838
	33.00	929.5	826.3	118.16	1.9394	0.864
	34.00	942.0	838.9	118.17	1.9118	0.887
	35.00	953.3	850.1	118.18	1.8857	0.909
	36.00	963.6	860.4	118.20	1.8611	0.929
	37.00	972.9	869.7	118.21	1.8378	0.947
	38.00	981.1	877.9	118.22	1.8158	0.963
	39.00	988.5	885.3	118.23	1.7949	0.977
	40.00	995.2	892.0	118.24	1.7750	0.990
	41.00	1001.2	898.1	118.25	1.7561	1.002
	42.00	1006.7	903.5	118.27	1.7381	1.013
	43.00	1011.6	908.4	118.27	1.7209	1.023
	44.00	1016.1	912.9	118.28	1.7045	1.032
	45.00	1020.3	917.1	118.28	1.6889	1.041
	46.00	1024.1	920.9	118.30	1.6739	1.049
	47.00	1027.6	924.4	118.30	1.6596	1.056
	48.00	1030.8	927.6	118.31	1.6458	1.063
	49.00	1033.9	930.7	118.32	1.6327	1.069
	50.00	1036.7	933.5	118.34	1.6200	1.075
	51.00	1039.3	936.1	118.35	1.6078	1.080
	52.00	1041.7	938.5	118.35	1.5962	1.085
	53.00	1043.9	940.7	118.37	1.5849	1.090
	54.00	1046.1	942.9	118.38	1.5741	1.094
	55.00	1048.0	944.9	118.39	1.5636	1.098
	56.00	1049.9	946.7	118.41	1.5536	1.102
	57.00	1051.7	948.5	118.41	1.5439	1.106
	58.00	1053.3	950.2	118.43	1.5345	1.110
	59.00	1054.9	951.7	118.43	1.5254	1.113
****** End Shut-in 1	60.00	1056.4	953.2	118.44	1.5167	1.116
****** Start Flow 2	0.00	115.2	0.0	118.45		
	1.00	115.2	0.0	118.41		
	2.00	117.6	2.4	118.39		
	3.00	119.5	4.3	118.38		
	4.00	120.4	5.2	118.38		
	5.00	121.3	6.1	118.39		
	6.00	121.7	6.5	118.40		
	7.00	123.0	7.8	118.39		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	123.8	8.6	118.40		
	9.00	124.3	9.1	118.41		
	10.00	125.4	10.2	118.42		
	11.00	126.8	11.6	118.42		
	12.00	127.5	12.3	118.44		
	13.00	128.3	13.1	118.44		
	14.00	129.4	14.2	118.46		
	15.00	130.7	15.5	118.47		
	16.00	132.1	16.9	118.48		
	17.00	133.7	18.5	118.48		
	18.00	134.8	19.6	118.51		
	19.00	135.4	20.2	118.53		
	20.00	136.9	21.7	118.54		
	21.00	137.2	22.0	118.55		
	22.00	140.2	25.0	118.58		
	23.00	142.7	27.5	118.60		
	24.00	142.5	27.3	118.62		
	25.00	142.1	26.9	118.66		
	26.00	142.7	27.5	118.69		
	27.00	143.8	28.6	118.71		
	28.00	143.6	28.4	118.74		
	29.00	145.1	29.9	118.75		
	30.00	146.4	31.2	118.78		
	31.00	147.3	32.1	118.79		
	32.00	148.6	33.4	118.81		
	33.00	149.8	34.6	118.82		
	34.00	150.3	35.1	118.83		
	35.00	151.2	36.0	118.84		
	36.00	152.1	36.9	118.85		
	37.00	152.4	37.2	118.85		
	38.00	153.1	37.9	118.86		
	39.00	154.3	39.1	118.88		
	40.00	154.9	39.7	118.91		
	41.00	156.0	40.8	118.92		
	42.00	156.2	41.0	118.95		
	43.00	157.3	42.1	118.98		
	44.00	159.2	44.0	118.99		
	45.00	159.3	44.1	119.02		
	46.00	160.5	45.3	119.04		
	47.00	161.3	46.1	119.07		
	48.00	162.0	46.8	119.09		
	49.00	163.1	47.9	119.10		
	50.00	164.1	48.9	119.12		
	51.00	165.2	50.0	119.13		
	52.00	166.2	51.0	119.14		
	53.00	167.3	52.1	119.15		
	54.00	168.9	53.7	119.16		
	55.00	169.2	54.0	119.17		
	56.00	169.2	54.0	119.18		
	57.00	171.3	56.1	119.19		
****** End Flow 2	58.00	173.2	58.0	119.19		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
102.00	1067.5	894.3	120.29	1.8725	1.140
103.00	1067.9	894.7	120.29	1.8641	1.140
104.00	1068.2	895.1	120.31	1.8558	1.141
105.00	1068.6	895.4	120.30	1.8476	1.142
106.00	1068.9	895.7	120.31	1.8396	1.143
107.00	1069.2	896.1	120.31	1.8318	1.143
108.00	1069.5	896.4	120.31	1.8241	1.144
109.00	1069.9	896.7	120.32	1.8165	1.145
110.00	1070.2	897.1	120.32	1.8091	1.145
111.00	1070.6	897.4	120.32	1.8018	1.146
112.00	1070.9	897.8	120.33	1.7946	1.147
113.00	1071.3	898.1	120.35	1.7876	1.148
114.00	1071.6	898.4	120.35	1.7807	1.148
115.00	1071.9	898.7	120.36	1.7739	1.149
116.00	1072.2	899.0	120.34	1.7672	1.150
117.00	1072.4	899.3	120.35	1.7607	1.150
118.00	1072.7	899.6	120.37	1.7542	1.151
119.00	1073.1	899.9	120.38	1.7479	1.151
120.00	1073.3	900.2	120.38	1.7417	1.152
121.00	1073.6	900.5	120.38	1.7355	1.153
122.00	1073.9	900.8	120.39	1.7295	1.153
123.00	1074.2	901.1	120.38	1.7236	1.154
124.00	1074.5	901.3	120.40	1.7177	1.155
125.00	1074.8	901.6	120.40	1.7120	1.155
126.00	1075.0	901.9	120.40	1.7063	1.156
127.00	1075.3	902.1	120.40	1.7008	1.156
128.00	1075.6	902.4	120.41	1.6953	1.157
129.00	1075.8	902.7	120.41	1.6899	1.157
130.00	1076.1	902.9	120.42	1.6846	1.158
131.00	1076.4	903.2	120.42	1.6794	1.159
132.00	1076.6	903.5	120.43	1.6742	1.159
133.00	1076.9	903.8	120.43	1.6692	1.160
134.00	1077.2	904.0	120.44	1.6642	1.160
135.00	1077.4	904.2	120.44	1.6593	1.161
136.00	1077.7	904.5	120.44	1.6544	1.161
137.00	1077.9	904.8	120.44	1.6496	1.162
138.00	1078.2	905.0	120.45	1.6449	1.162
139.00	1078.4	905.3	120.46	1.6403	1.163
140.00	1078.7	905.5	120.46	1.6357	1.164
141.00	1078.9	905.7	120.47	1.6312	1.164
142.00	1079.1	905.9	120.46	1.6268	1.164
143.00	1079.4	906.2	120.46	1.6224	1.165
144.00	1079.6	906.5	120.47	1.6181	1.166
145.00	1079.8	906.7	120.48	1.6138	1.166
146.00	1080.0	906.9	120.48	1.6096	1.166
147.00	1080.3	907.1	120.49	1.6054	1.167
148.00	1080.5	907.3	120.48	1.6014	1.167
149.00	1080.7	907.5	120.50	1.5973	1.168
150.00	1080.9	907.7	120.50	1.5933	1.168
151.00	1081.1	907.9	120.50	1.5894	1.169
152.00	1081.3	908.2	120.51	1.5855	1.169

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Start Shutin 2	0.00	173.2	0.0	119.19	0.0000	0.030
	1.00	183.4	10.2	119.20	90.0000	0.034
	2.00	209.9	36.7	119.21	45.5000	0.044
	3.00	236.7	63.5	119.22	30.6667	0.056
	4.00	267.4	94.3	119.24	23.2500	0.072
	5.00	303.3	130.1	119.26	18.8000	0.092
	6.00	344.6	171.4	119.27	15.8333	0.119
	7.00	388.8	215.7	119.29	13.7143	0.151
	8.00	432.2	259.0	119.32	12.1250	0.187
	9.00	473.4	300.2	119.35	10.8889	0.224
	10.00	510.8	337.7	119.37	9.9000	0.261
	11.00	546.0	372.8	119.40	9.0909	0.298
	12.00	579.0	405.8	119.43	8.4167	0.335
	13.00	609.4	436.2	119.44	7.8462	0.371
	14.00	637.9	464.7	119.47	7.3571	0.407
	15.00	664.7	491.5	119.49	6.9333	0.442
	16.00	690.3	517.1	119.52	6.5625	0.477
	17.00	714.6	541.4	119.55	6.2353	0.511
	18.00	737.6	564.5	119.57	5.9444	0.544
	19.00	759.5	586.3	119.59	5.6842	0.577
	20.00	780.2	607.1	119.61	5.4500	0.609
	21.00	799.8	626.6	119.64	5.2381	0.640
	22.00	818.2	645.0	119.66	5.0455	0.669
	23.00	835.3	662.2	119.68	4.8696	0.698
	24.00	851.3	678.2	119.69	4.7083	0.725
	25.00	866.2	693.1	119.71	4.5600	0.750
	26.00	880.0	706.8	119.72	4.4231	0.774
	27.00	892.7	719.5	119.74	4.2963	0.797
	28.00	904.3	731.2	119.76	4.1786	0.818
	29.00	915.1	741.9	119.77	4.0690	0.837
	30.00	925.0	751.8	119.79	3.9667	0.856
	31.00	934.1	760.9	119.80	3.8710	0.873
	32.00	942.4	769.3	119.82	3.7812	0.888
	33.00	950.2	777.0	119.83	3.6970	0.903
	34.00	957.2	784.1	119.85	3.6176	0.916
	35.00	963.8	790.6	119.86	3.5429	0.929
	36.00	969.8	796.7	119.88	3.4722	0.941
	37.00	975.4	802.2	119.87	3.4054	0.951
	38.00	980.6	807.4	119.90	3.3421	0.961
	39.00	985.3	812.1	119.90	3.2821	0.971
	40.00	989.7	816.6	119.92	3.2250	0.980
	41.00	993.9	820.7	119.93	3.1707	0.988
	42.00	997.7	824.6	119.94	3.1190	0.995
	43.00	1001.3	828.2	119.95	3.0698	1.003
	44.00	1004.7	831.5	119.96	3.0227	1.009
	45.00	1007.8	834.7	119.96	2.9778	1.016
	46.00	1010.8	837.6	119.98	2.9348	1.022
	47.00	1013.5	840.4	119.99	2.8936	1.027
	48.00	1016.1	843.0	120.00	2.8542	1.033
	49.00	1018.6	845.4	120.00	2.8163	1.038
	50.00	1020.9	847.8	120.01	2.7800	1.042

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
51.00	1023.1	849.9	120.02	2.7451	1.047
52.00	1025.2	852.0	120.02	2.7115	1.051
53.00	1027.1	854.0	120.03	2.6792	1.055
54.00	1028.9	855.8	120.04	2.6481	1.059
55.00	1030.7	857.6	120.04	2.6182	1.062
56.00	1032.4	859.2	120.05	2.5893	1.066
57.00	1034.0	860.8	120.06	2.5614	1.069
58.00	1035.5	862.3	120.07	2.5345	1.072
59.00	1036.9	863.8	120.07	2.5085	1.075
60.00	1038.3	865.1	120.08	2.4833	1.078
61.00	1039.6	866.5	120.08	2.4590	1.081
62.00	1040.9	867.7	120.09	2.4355	1.083
63.00	1042.1	868.9	120.09	2.4127	1.086
64.00	1043.2	870.1	120.10	2.3906	1.088
65.00	1044.3	871.2	120.11	2.3692	1.091
66.00	1045.4	872.2	120.11	2.3485	1.093
67.00	1046.4	873.2	120.11	2.3284	1.095
68.00	1047.4	874.2	120.13	2.3088	1.097
69.00	1048.3	875.2	120.12	2.2899	1.099
70.00	1049.2	876.1	120.14	2.2714	1.101
71.00	1050.1	877.0	120.14	2.2535	1.103
72.00	1051.0	877.8	120.14	2.2361	1.105
73.00	1051.8	878.7	120.16	2.2192	1.106
74.00	1052.6	879.4	120.15	2.2027	1.108
75.00	1053.4	880.2	120.16	2.1867	1.110
76.00	1054.1	880.9	120.17	2.1711	1.111
77.00	1054.8	881.7	120.18	2.1558	1.113
78.00	1055.5	882.4	120.18	2.1410	1.114
79.00	1056.2	883.0	120.18	2.1266	1.116
80.00	1056.8	883.7	120.19	2.1125	1.117
81.00	1057.5	884.3	120.19	2.0988	1.118
82.00	1058.1	884.9	120.19	2.0854	1.120
83.00	1058.7	885.5	120.20	2.0723	1.121
84.00	1059.3	886.1	120.21	2.0595	1.122
85.00	1059.8	886.6	120.21	2.0471	1.123
86.00	1060.4	887.2	120.21	2.0349	1.124
87.00	1060.9	887.8	120.22	2.0230	1.126
88.00	1061.4	888.3	120.23	2.0114	1.127
89.00	1062.0	888.8	120.23	2.0000	1.128
90.00	1062.5	889.3	120.24	1.9889	1.129
91.00	1062.9	889.8	120.25	1.9780	1.130
92.00	1063.4	890.2	120.25	1.9674	1.131
93.00	1063.9	890.7	120.25	1.9570	1.132
94.00	1064.3	891.2	120.25	1.9468	1.133
95.00	1064.8	891.6	120.25	1.9368	1.134
96.00	1065.2	892.0	120.26	1.9271	1.135
97.00	1065.6	892.4	120.26	1.9175	1.135
98.00	1066.0	892.8	120.27	1.9082	1.136
99.00	1066.4	893.2	120.28	1.8990	1.137
100.00	1066.8	893.6	120.28	1.8900	1.138
101.00	1067.1	894.0	120.29	1.8812	1.139

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11247 DST #1 Orange #1 Hummon Corp.

DATE: 05/02/98 TIME: 10:26:21

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	153.00	1081.5	908.4	120.51	1.5817	1.170
	154.00	1081.7	908.6	120.52	1.5779	1.170
	155.00	1082.0	908.8	120.52	1.5742	1.171
	156.00	1082.1	909.0	120.53	1.5705	1.171
	157.00	1082.4	909.2	120.53	1.5669	1.171
	158.00	1082.6	909.4	120.53	1.5633	1.172
	159.00	1082.8	909.6	120.54	1.5597	1.172
	160.00	1082.9	909.8	120.53	1.5562	1.173
	161.00	1083.1	910.0	120.53	1.5528	1.173
	162.00	1083.3	910.2	120.55	1.5494	1.174
	163.00	1083.5	910.3	120.55	1.5460	1.174
	164.00	1083.7	910.5	120.55	1.5427	1.174
	165.00	1083.9	910.7	120.56	1.5394	1.175
	166.00	1084.1	910.9	120.56	1.5361	1.175
	167.00	1084.3	911.1	120.57	1.5329	1.176
	168.00	1084.4	911.3	120.58	1.5298	1.176
	169.00	1084.6	911.4	120.57	1.5266	1.176
	170.00	1084.8	911.6	120.58	1.5235	1.177
	171.00	1085.0	911.8	120.58	1.5205	1.177
	172.00	1085.1	912.0	120.59	1.5174	1.178
	173.00	1085.3	912.1	120.60	1.5145	1.178
	174.00	1085.5	912.3	120.60	1.5115	1.178
	175.00	1085.6	912.5	120.60	1.5086	1.179
	176.00	1085.8	912.6	120.60	1.5057	1.179
	177.00	1086.0	912.8	120.61	1.5028	1.179
	178.00	1086.1	913.0	120.62	1.5000	1.180
	179.00	1086.3	913.1	120.62	1.4972	1.180
	180.00	1086.4	913.3	120.62	1.4944	1.180
	181.00	1086.6	913.4	120.63	1.4917	1.181
	182.00	1086.8	913.6	120.63	1.4890	1.181
****** End Shut-in 2	183.00	1086.9	913.7	120.64	1.4863	1.181
****** Final Hydro.	485.00	2411.2	0.0	120.66		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11247

Well Name & No. Orange #1 Test No. 1 Date 5-2-98

Company Hummon Corporation Zone Tested Morrow

Address 950 N Taylor Wichita, KS 67212 Elevation 2957 KB 2949 GL

Co. Rep / Geo. Brad Rine Cont. Abercrombie #4 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 15 Twp. 25S Rge. 34W Co. Finney State KS.

No. of Copies ____ Distribution Sheet (Y, N) ____ Turnkey (Y, N) M Evaluation (Y, N) ____

Interval Tested 4880 - 4980 Initial Str Wt./Lbs. 80,000 Unseated Str Wt./Lbs. 84,000

Anchor Length 100' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 110,000

Top Packer Depth 4875 Tool Weight 1,800

Bottom Packer Depth 4880 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 4980 Wt. Pipe Run — Drill Collar Run 120' (2)

Mud Wt. 9.2 LCM 1#/bbl Vis. 52 WL 8.8 Drill Pipe Size 4 1/2" XH Ft. Run 4758' (76.1)

Blow Description IF: Surface blow slowly built to bttm in 10 min.

ISI: Weak surface return died in 10 mins.

FF: Fair to strong blow off bttm in 2 mins.

FST: Surface return built to 2" then died off.

Recovery — Total Feet 390' GIP — Ft. in DC 120' Ft. in DP 270'

Rec. 90'	Feet Of GOCM	10 %gas	15 %oil	%water	75 %mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. 60'	Feet Of GOCM	10 %gas	35 %oil	%water	55 %mud
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud
Rec. 240'	Feet Of GMCO	50 %gas	40 %oil	— %water	10 %mud

BHT 120° °F Gravity 31 °API D@ 60° °F Corrected Gravity 31 °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud	2463	2419	PSI	Recorder No.	3024	T-Started	1025
(B) First Initial Flow Pressure	83	34	PSI	(depth)	4885	T-Open	1400
(C) First Final Flow Pressure	104	103	PSI	Recorder No.	13339	T-Pulled	1930
(D) Initial Shut-in Pressure	1040	1056	PSI	(depth)	4975	T-Out	2145
(E) Second Initial Flow Pressure	135	115	PSI	Recorder No.	—		
(F) Second Final Flow Pressure	176	173	PSI	(depth)	—		
(G) Final Shut-in Pressure	1070	1086	PSI	Initial Opening	30	Test	700
(H) Final Hydrostatic Mud	2403	2411	PSI	Initial Shut-in	60	Jars	X 200
				Final Flow	60	Safety Joint	X 50
				Final Shut-in	180	Straddle	____
				on loc.	0930	Circ. Sub	X N/C
				off loc.	2245	Sampler	____
						Extra Packer	X
						Elect. Rec.	X 150
						Other	____

AK-1 Mech. Alp. Elec.

TOTAL PRICE $ 1100

TRILOBIITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Brad Rine

Our Representative Rod Schmidt

Operator.....: Hunnon Corporation
Well Name.....: Orange #1
DST Number.....: 1

Location.: 15-25S-34W Finney co KS Recorder No...: 3024
Test Type: Conv Recorder Depth: 4885
Formation: Morrow Test Interval.: 4880-4980

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

RESERVOIR PARAMETERS USED:

Net Pay	25.00 ft
Porosity	15.00 %
Bottom Hole Temp	120.00 F
Specific Gravity	0.035
API Gravity	31.00
Compressibility	0.000002 /psi
Viscosity	11.4400 cp
Total Recovery	390.00 ft
Total Flowing Time	90.00 min.
Flow Rate	22.53 bbls/d
Final Flowing Pressure	173.00 psi
Horner Slope	198.6916 psi/cycle
Extrapolated Pressure	1121.11 psi
Formation Volume Factor	1.04 Reservoir/Surface
Well Bore Radius	3.94 in

RESULTS:

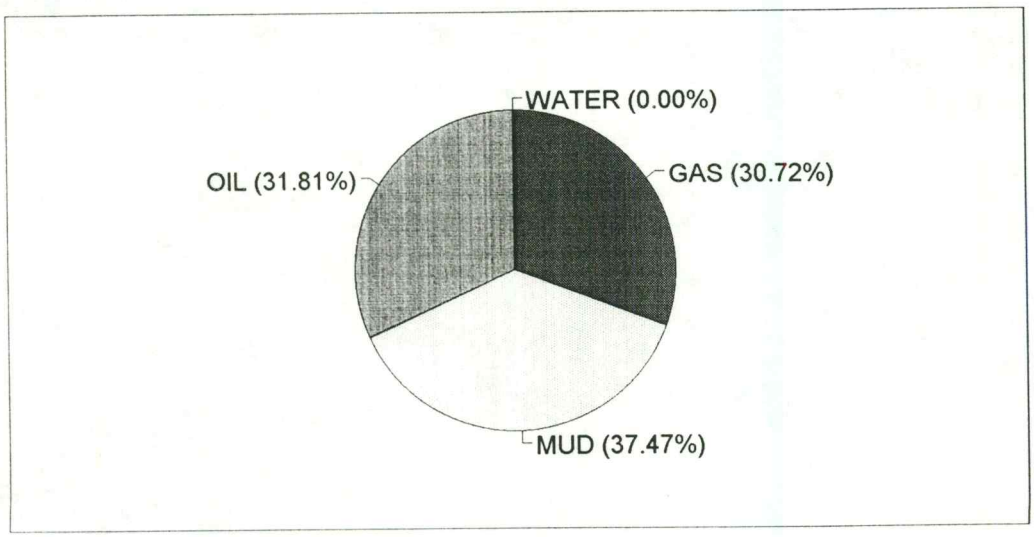
Effective Permeability	8.796506 md
Flow Capacity	219.9127 md.ft
Transmissibility	19.2231 md.ft/cp
Skin Factor	1.0434
Radius of Investigation	51.90802 ft
Damage Ratio	1.2345
Productivity Index	0.0238 bbls/psi.d
Productivity Index W/O Damage.	0.0293 bbls/psi.d

CALCULATED RECOVERY ANALYSIS

DST 1 TICKET 11247

SAMPLE #		TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL	1	90	10	9	15	13.5		0	75	67.5
PIPE	2	60	10	6	35	21		0	55	33
	3	120	50	60	40	48		0	10	12
	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	120	50	60	40	48		0	10	12
COLLARS	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
TOTAL		390		135		130.5		0		124.5

			HRS OPEN		BBL/DAY
BBL OIL=	1.40787	*	1.5	=	22.52592
BBL WATER=	0	*		=	0
BBL MUD=	1.65843				
BBL GAS =	1.3599				

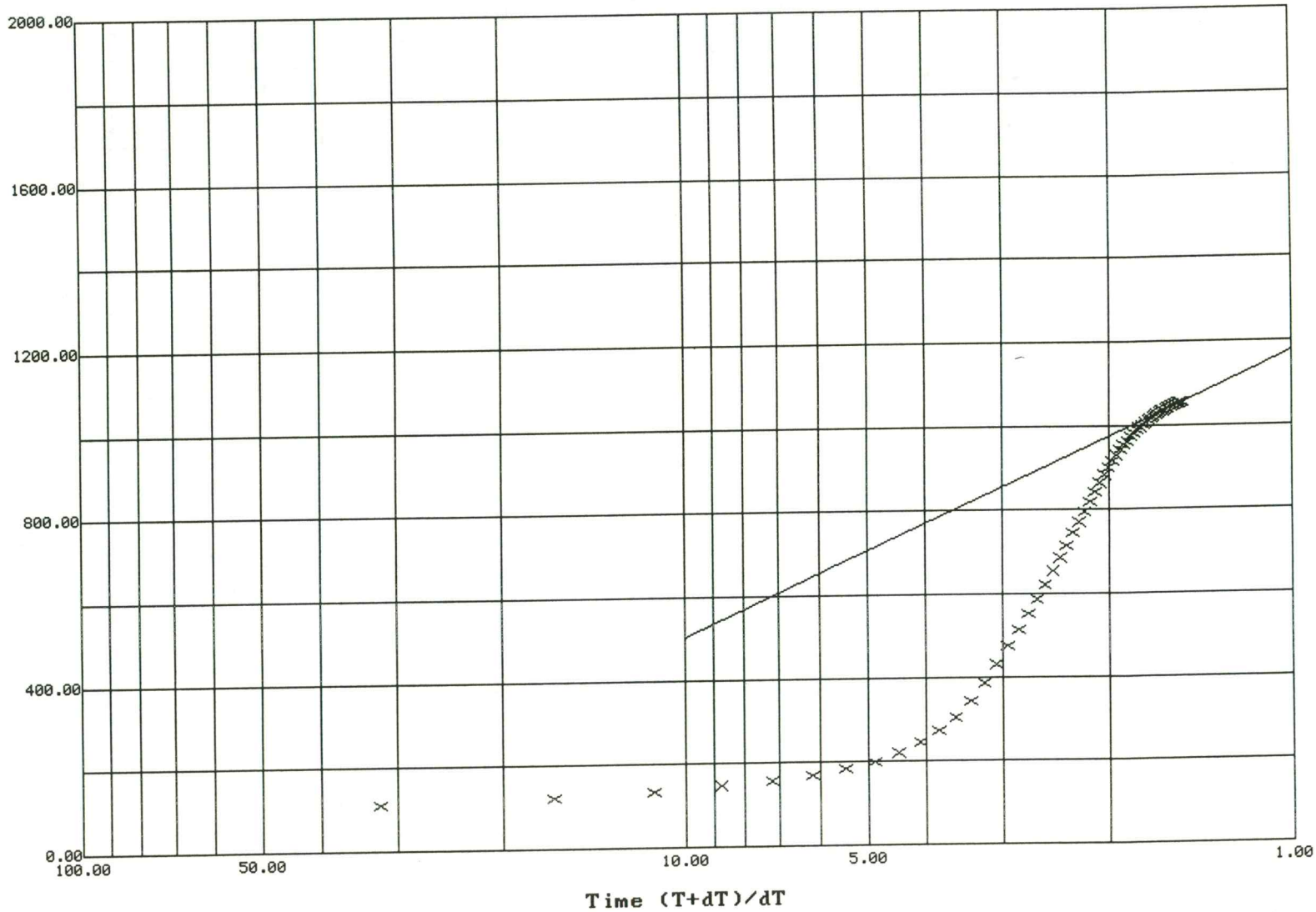


Horner Plot: shut-in #1

11247 DST #1 Orange #1 Hummon Corp.

Slope: 674.3906 PSIg/cycle

Ext. Pressure: 1178.7202 PSIg

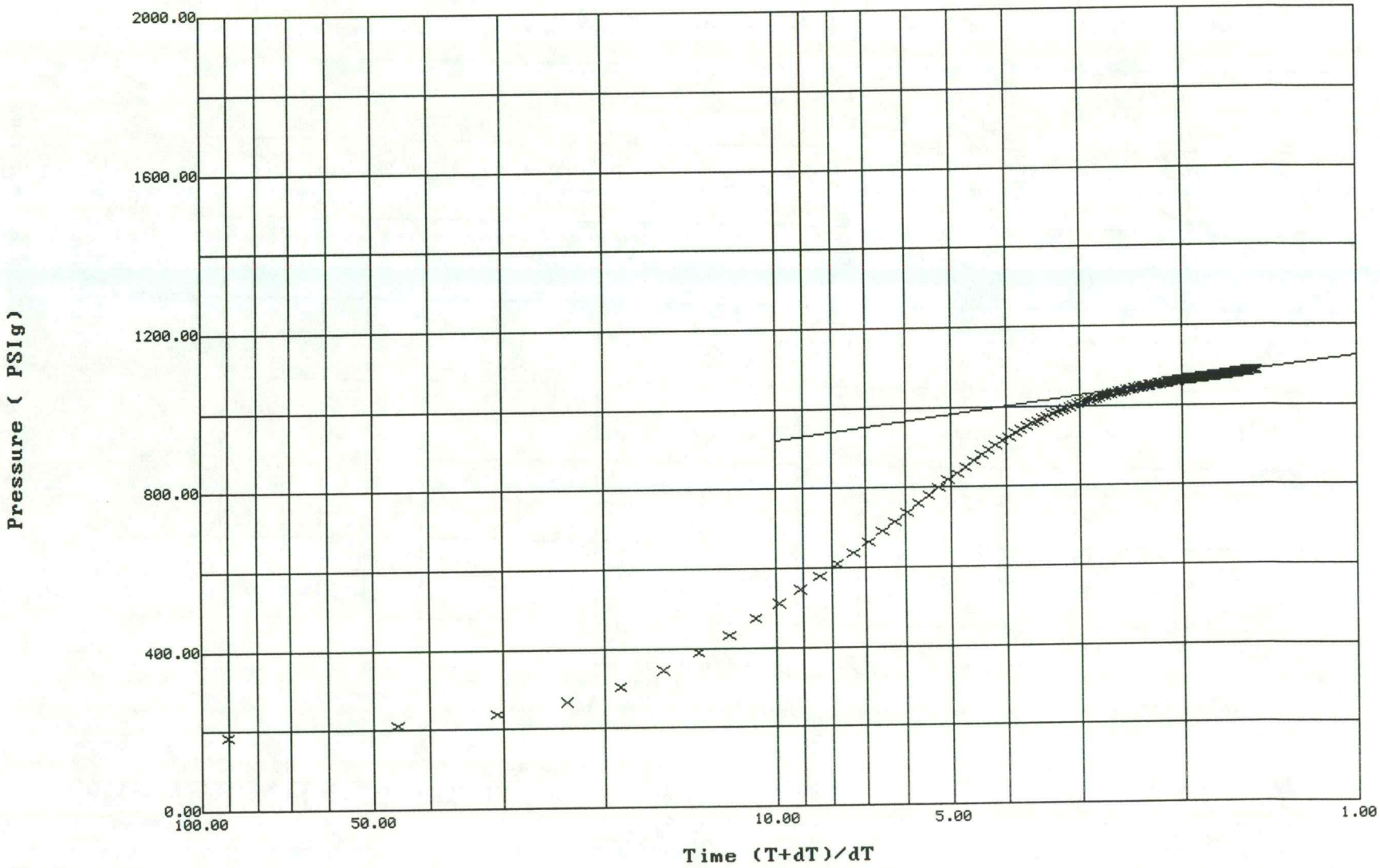


Horner Plot: shut-in #2

11247 DST #1 Orange #1 Hummon Corp.

Slope: 198.6916 PSIg/cycle

Ext. Pressure: 1121.1069 PSIg

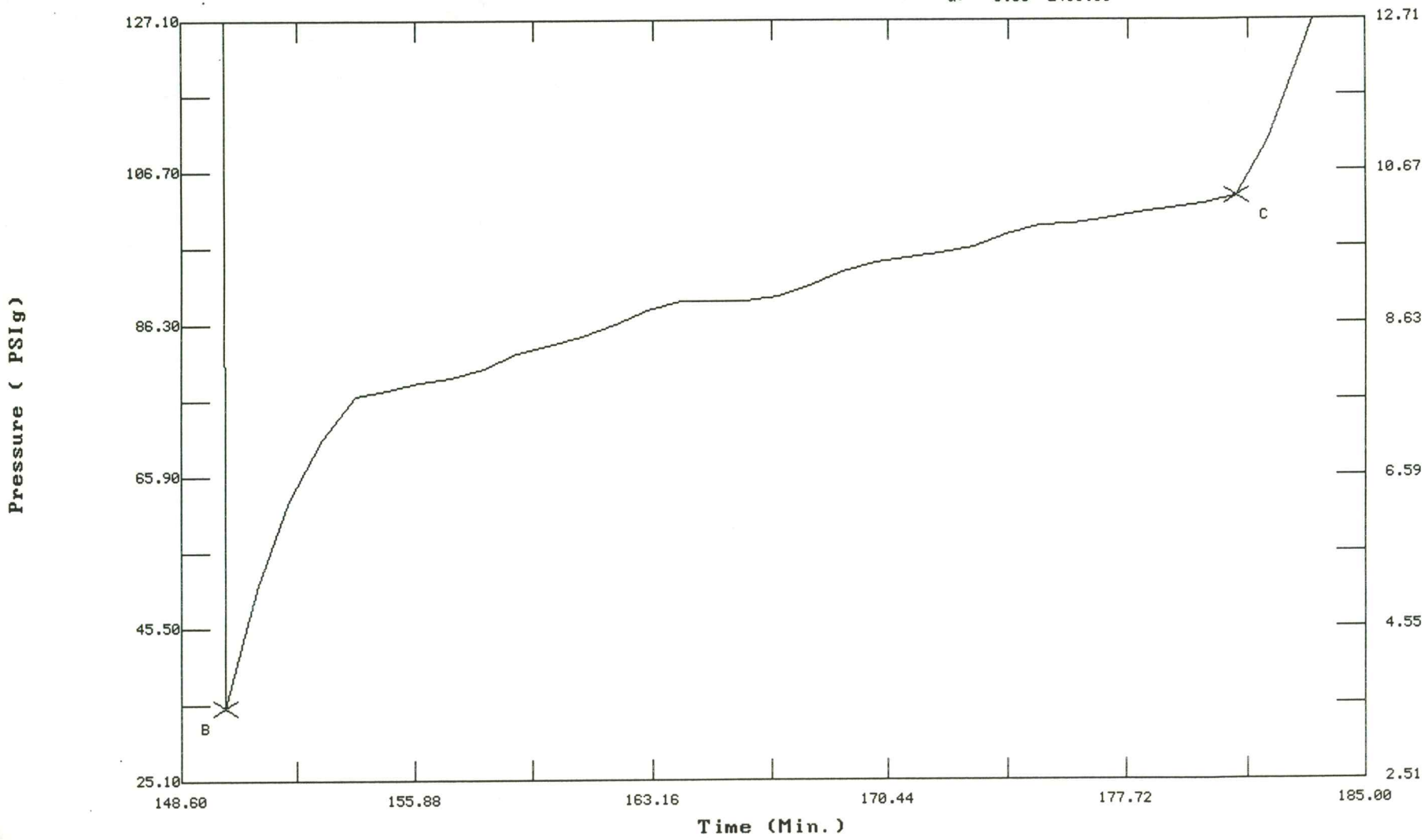


TEST HISTORY

11247 DST #1 Orange #1 Hummon Corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2419.59
B:	0.00	34.83
C:	31.00	103.18
D:	60.00	1056.42
E:	0.00	115.20
F:	58.00	173.16
G:	183.00	1086.90
Q:	0.00	2411.18



TEST HISTORY

11247 DST #1 Orange #1 Hummon Corp.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2419.59
B:	0.00	34.83
C:	31.00	103.18
D:	60.00	1056.42
E:	0.00	115.20
F:	58.00	173.16
G:	183.00	1086.90
Q:	0.00	2411.18