

15-171-20505

31-17s-31w

**WELL NAME:** Strickert #9  
**COMPANY:** Wabash Energy Corp.  
**LOCATION:** 31-17S-31W  
Scott County Kansas  
**DATE:** 12-12-96

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp.

DATE 12-8-96

WELL NAME : Strickert #9

KB 2964.00 ft

TICKET NO: 9571

DST #1

LOCATION : 31-17s-31w Scott Cty KS

GR 2955.00 ft

FORMATION: Marmaton

INTERVAL : 4345.00 To 4370.00 ft

TD 4370.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2341			PF Fr. 1732 to 1802 hr
SI 60 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1802 to 1902 hr
SF 60 Clock(hrs)	12 HR	12 hr	Alp.			SF Fr. 1902 to 2002 hr
FS 90 Depth(ft )	4365.0	4365.0	4347.0	0.0	0.0	FS Fr. 2002 to 2132 hr

	Field	1	2	3	4	
A. Init Hydro	2113.0	2120.0	2126.0	0.0	0.0	T STARTED 1530 hr
B. First Flow	52.0	70.0	35.0	0.0	0.0	T ON BOTM 1730 hr
Bl. Final Flow	124.0	142.0	170.0	0.0	0.0	T OPEN 1732 hr
C. In Shut-in	1080.0	1094.0	1114.0	0.0	0.0	T PULLED 2132 hr
D. Init Flow	197.0	218.0	182.0	0.0	0.0	T OUT 0015 hr
E. Final Flow	332.0	347.0	360.0	0.0	0.0	
F. Fl Shut-in	1080.0	1094.0	1103.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2093.0	2116.0	2047.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 48000.00 lbs
						Bot Choke 75.00 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 4299.00 ft

RECOVERY

Tot Fluid 840.00 ft of 30.00 ft in DC and 810.00 ft in DP

930.00 ft of Gas In Pipe

240.00 ft of Gas mud cut oil 10% gas 60% oil 30% mud

300.00 ft of Gas mud cut oil 20% gas 50% oil 30% mud

60.00 ft of Gas oil cut mud 45% gas 10% oil 45% mud

240.00 ft of Muddy water 80% water 20% mud

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 10000.00 P.P.M. A.P.I. Gravity 21.00

BLOW DESCRIPTION

Initial Flow -  
Surface blow built to bottom in 5 minutes

Initial Shut-in -  
Bled off blow - surface blow built to 6"

Final Flow -  
Surface blow built to bottom in 4 min

Final Shut-in -  
Bled off blow - surface blow built to bottom in 45 minutes

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	45.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	137.00 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.	Larry Whitmer
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

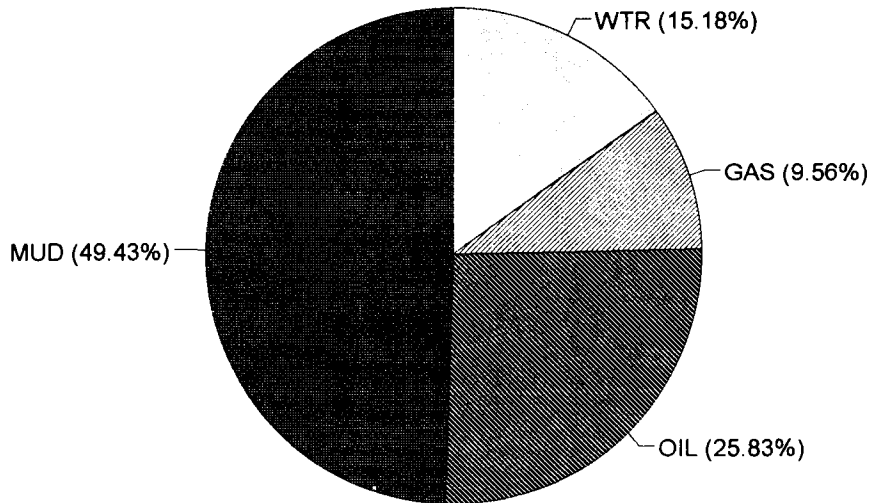


CALCULATED RECOVERY ANALYSIS

DST # 1 TICKET 9571

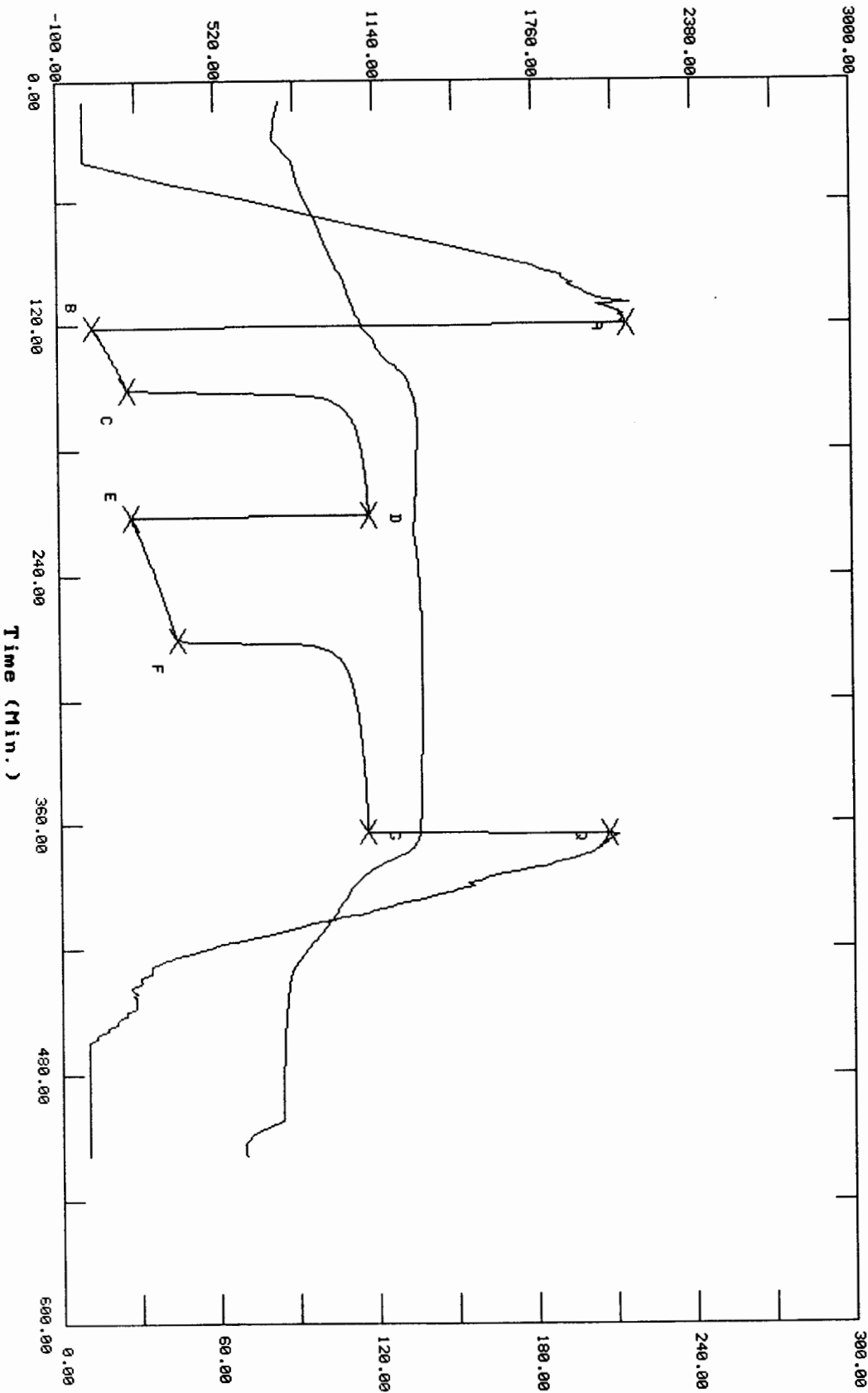
Drill pipe #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	240	10	24	60	144	0	30	72	
2	300	20	60	50	150	0	30	90	
3	60	45	27	10	6	0	45	27	
4	210		0		0	80	168	40	84
5			0		0	0		0	
6			0		0	0		0	
Drill collar									
1	30		0		0	80	24	40	12
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	840	13.214286	111	35.71	300	22.857143	192	33.93	285

	HRS	BBL/DAY
BBL OIL=	4.266	1.5 68.256
BBL WATER=	2.50632	40.1011
BBL MUD=	8.16408	
BBL GAS	1.57842	



# TEST HISTORY

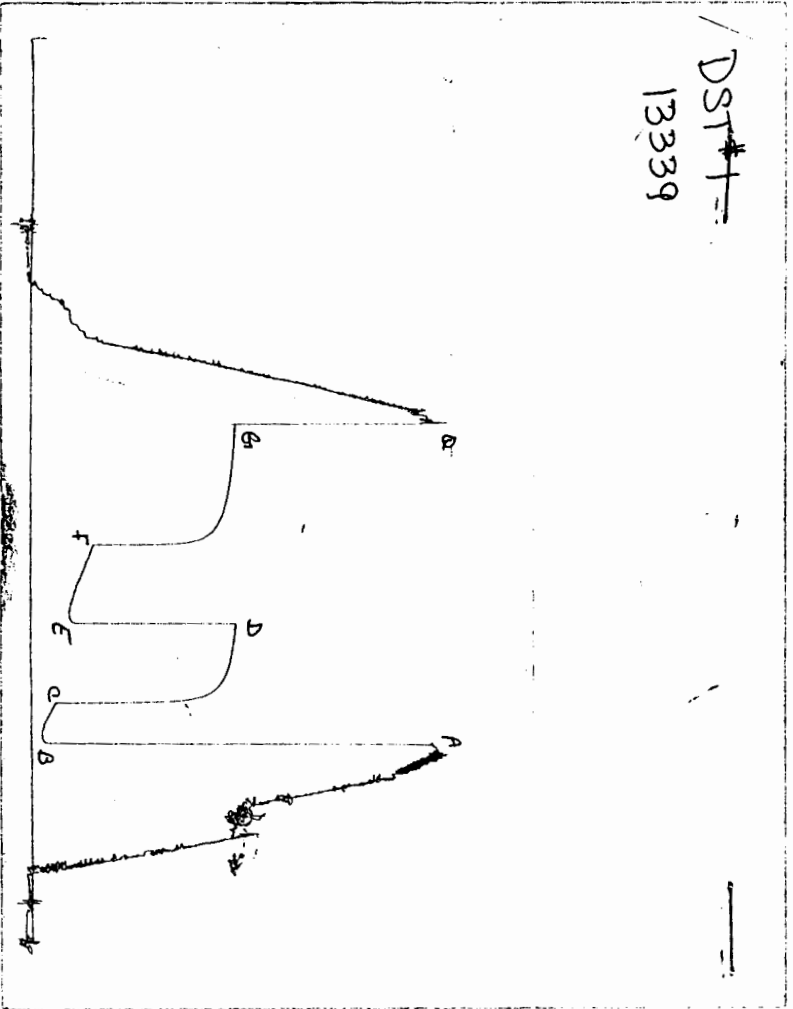
9571 DST #1 Strickert #9 Wabash Energy Corp.



Temperature (DEG F)

CHART PAGE

DST# 13339



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

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9571 DST #1 Strickert #9 Wabash Energy Corp.

DATE: 12/08/96 TIME: 15:30:19  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	120.00	2127.0	0.0	114.98		
***** Start Flow 1	0.00	35.5	0.0	115.14		
	1.00	39.9	4.4	115.49		
	2.00	46.1	10.6	116.24		
	3.00	51.1	15.6	117.18		
	4.00	57.0	21.5	118.05		
	5.00	62.6	27.1	118.77		
	6.00	67.4	31.9	119.28		
	7.00	72.4	36.9	119.66		
	8.00	76.9	41.4	120.01		
	9.00	81.6	46.1	120.39		
	10.00	86.2	50.7	120.72		
	11.00	91.0	55.5	121.15		
	12.00	95.3	59.8	121.59		
	13.00	99.8	64.3	122.14		
	14.00	104.2	68.7	122.83		
	15.00	108.5	73.0	123.60		
	16.00	113.0	77.5	124.50		
	17.00	117.4	81.8	125.42		
	18.00	121.7	86.2	126.40		
	19.00	126.0	90.5	127.49		
	20.00	130.8	95.3	128.55		
	21.00	135.4	99.9	129.50		
	22.00	140.1	104.6	130.35		
	23.00	143.8	108.3	131.07		
	24.00	147.6	112.1	131.65		
	25.00	152.0	116.5	132.14		
	26.00	155.3	119.8	132.54		
	27.00	159.7	124.2	132.89		
	28.00	163.3	127.8	133.19		
	29.00	167.1	131.6	133.43		
***** End Flow 1	30.00	170.8	135.3	133.64		
***** Start Shutin 1	0.00	170.8	0.0	133.64	0.0000	0.029
	1.00	338.9	168.1	133.84	31.0000	0.115
	2.00	785.9	615.1	134.11	16.0000	0.618
	3.00	882.1	711.3	134.36	11.0000	0.778
	4.00	927.7	757.0	134.66	8.5000	0.861
	5.00	956.5	785.7	134.94	7.0000	0.915
	6.00	977.0	806.2	135.09	6.0000	0.954
	7.00	992.3	821.6	135.29	5.2857	0.985
	8.00	1004.6	833.8	135.44	4.7500	1.009
	9.00	1014.6	843.8	135.56	4.3333	1.029
	10.00	1023.0	852.2	135.65	4.0000	1.047
	11.00	1030.2	859.4	135.73	3.7273	1.061
	12.00	1036.5	865.7	135.80	3.5000	1.074
	13.00	1042.0	871.2	135.82	3.3077	1.086
	14.00	1046.9	876.1	135.90	3.1429	1.096
	15.00	1051.3	880.5	135.93	3.0000	1.105
	16.00	1055.3	884.5	135.94	2.8750	1.114
	17.00	1058.9	888.1	135.96	2.7647	1.121
	18.00	1062.2	891.4	135.97	2.6667	1.128

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.00	1065.3	894.5	135.97	2.5789	1.135
20.00	1068.2	897.4	135.99	2.5000	1.141
21.00	1070.8	900.0	135.99	2.4286	1.147
22.00	1073.2	902.4	135.99	2.3636	1.152
23.00	1075.4	904.6	135.97	2.3043	1.157
24.00	1077.6	906.8	135.97	2.2500	1.161
25.00	1079.5	908.8	135.95	2.2000	1.165
26.00	1081.5	910.7	135.93	2.1538	1.170
27.00	1083.2	912.5	135.89	2.1111	1.173
28.00	1085.0	914.2	135.88	2.0714	1.177
29.00	1086.6	915.8	135.86	2.0345	1.181
30.00	1088.0	917.2	135.83	2.0000	1.184
31.00	1089.4	918.7	135.81	1.9677	1.187
32.00	1090.9	920.1	135.79	1.9375	1.190
33.00	1092.2	921.4	135.75	1.9091	1.193
34.00	1093.4	922.6	135.72	1.8824	1.196
35.00	1094.6	923.8	135.71	1.8571	1.198
36.00	1095.7	924.9	135.68	1.8333	1.201
37.00	1096.8	926.0	135.66	1.8108	1.203
38.00	1097.9	927.1	135.62	1.7895	1.205
39.00	1098.9	928.1	135.59	1.7692	1.208
40.00	1099.9	929.1	135.57	1.7500	1.210
41.00	1100.8	930.0	135.59	1.7317	1.212
42.00	1101.8	931.0	135.50	1.7143	1.214
43.00	1102.7	931.9	135.48	1.6977	1.216
44.00	1103.5	932.7	135.46	1.6818	1.218
45.00	1104.3	933.5	135.43	1.6667	1.219
46.00	1105.1	934.3	135.40	1.6522	1.221
47.00	1105.8	935.0	135.38	1.6383	1.223
48.00	1106.6	935.8	135.35	1.6250	1.224
49.00	1107.3	936.5	135.31	1.6122	1.226
50.00	1108.0	937.2	135.29	1.6000	1.228
51.00	1108.7	937.9	135.26	1.5882	1.229
52.00	1109.3	938.5	135.23	1.5769	1.231
53.00	1110.0	939.2	135.20	1.5660	1.232
54.00	1110.6	939.8	135.16	1.5556	1.233
55.00	1111.1	940.3	135.13	1.5455	1.235
56.00	1111.7	940.9	135.11	1.5357	1.236
57.00	1112.3	941.5	135.10	1.5263	1.237
58.00	1113.0	942.2	135.02	1.5172	1.239
59.00	1113.4	942.7	135.00	1.5085	1.240
60.00	1114.0	943.3	134.99	1.5000	1.241
***** End Shut-in 1					
***** Start Flow 2					
0.00	182.6	0.0	134.96		
1.00	182.2	-0.4	134.86		
2.00	186.6	4.1	134.73		
3.00	191.4	8.8	134.61		
4.00	195.5	13.0	134.51		
5.00	199.5	17.0	134.45		
6.00	202.9	20.4	134.44		
7.00	206.6	24.0	134.48		
8.00	210.2	27.7	134.54		

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DATE: 12/08/96

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.00	213.8	31.2	134.62		
10.00	217.4	34.9	134.72		
11.00	221.1	38.6	134.85		
12.00	224.7	42.1	134.96		
13.00	228.2	45.6	135.03		
14.00	231.6	49.0	135.15		
15.00	234.9	52.4	135.28		
16.00	238.2	55.7	135.37		
17.00	241.4	58.8	135.48		
18.00	244.9	62.3	135.58		
19.00	247.9	65.3	135.67		
20.00	251.2	68.7	135.76		
21.00	254.3	71.7	135.85		
22.00	257.5	75.0	135.93		
23.00	260.6	78.1	136.01		
24.00	263.9	81.4	136.08		
25.00	267.0	84.4	136.15		
26.00	269.8	87.3	136.17		
27.00	273.1	90.6	136.28		
28.00	276.1	93.6	136.34		
29.00	279.0	96.5	136.39		
30.00	281.8	99.3	136.45		
31.00	284.9	102.4	136.50		
32.00	287.8	105.3	136.55		
33.00	290.7	108.1	136.60		
34.00	293.5	110.9	136.64		
35.00	296.4	113.8	136.69		
36.00	299.3	116.7	136.72		
37.00	302.1	119.6	136.77		
38.00	304.9	122.3	136.80		
39.00	307.6	125.1	136.84		
40.00	310.2	127.7	136.87		
41.00	313.1	130.5	136.91		
42.00	315.9	133.4	136.93		
43.00	318.7	136.1	136.97		
44.00	321.4	138.8	137.00		
45.00	324.0	141.5	137.01		
46.00	326.8	144.2	137.12		
47.00	329.3	146.8	137.09		
48.00	332.1	149.6	137.11		
49.00	334.8	152.2	137.12		
50.00	337.4	154.8	137.15		
51.00	340.2	157.6	137.20		
52.00	342.8	160.3	137.20		
53.00	345.4	162.8	137.23		
54.00	348.0	165.4	137.27		
55.00	350.7	168.1	137.30		
56.00	353.3	170.7	137.32		
57.00	355.9	173.3	137.33		
58.00	358.3	175.7	137.34		
59.00	360.7	178.2	137.37		

\*\*\*\*\* End Flow 2

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 12/08/96 TIME: 15:30:19

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Start Shutin 2	0.00	360.7	0.0	137.37	0.0000	0.130
	1.00	421.8	61.1	137.38	90.0000	0.178
	2.00	818.5	457.8	137.44	45.5000	0.670
	3.00	891.4	530.6	137.49	30.6667	0.795
	4.00	926.3	565.6	137.52	23.2500	0.858
	5.00	948.7	587.9	137.59	18.8000	0.900
	6.00	964.6	603.8	137.60	15.8333	0.930
	7.00	976.9	616.2	137.63	13.7143	0.954
	8.00	986.8	626.0	137.63	12.1250	0.974
	9.00	995.0	634.2	137.63	10.8889	0.990
	10.00	1001.8	641.1	137.63	9.9000	1.004
	11.00	1007.9	647.2	137.64	9.0909	1.016
	12.00	1013.1	652.4	137.58	8.4167	1.026
	13.00	1017.7	657.0	137.63	7.8462	1.036
	14.00	1022.0	661.2	137.63	7.3571	1.044
	15.00	1025.8	665.1	137.63	6.9333	1.052
	16.00	1029.3	668.6	137.63	6.5625	1.060
	17.00	1032.5	671.8	137.62	6.2353	1.066
	18.00	1035.4	674.7	137.60	5.9444	1.072
	19.00	1038.2	677.5	137.59	5.6842	1.078
	20.00	1040.8	680.1	137.59	5.4500	1.083
	21.00	1043.3	682.5	137.59	5.2381	1.088
	22.00	1045.6	684.8	137.58	5.0455	1.093
	23.00	1047.8	687.0	137.56	4.8696	1.098
	24.00	1049.7	689.0	137.55	4.7083	1.102
	25.00	1051.7	691.0	137.55	4.5600	1.106
	26.00	1053.6	692.8	137.53	4.4231	1.110
	27.00	1055.2	694.5	137.53	4.2963	1.114
	28.00	1056.9	696.2	137.51	4.1786	1.117
	29.00	1058.6	697.9	137.51	4.0690	1.121
	30.00	1060.1	699.4	137.48	3.9667	1.124
	31.00	1061.5	700.8	137.45	3.8710	1.127
	32.00	1063.0	702.2	137.44	3.7812	1.130
	33.00	1064.3	703.6	137.43	3.6970	1.133
	34.00	1065.7	705.0	137.41	3.6176	1.136
	35.00	1066.8	706.1	137.44	3.5429	1.138
	36.00	1068.0	707.3	137.38	3.4722	1.141
	37.00	1069.3	708.6	137.37	3.4054	1.143
	38.00	1070.3	709.6	137.35	3.3421	1.146
	39.00	1071.4	710.7	137.32	3.2821	1.148
	40.00	1072.6	711.8	137.31	3.2250	1.150
	41.00	1073.6	712.9	137.30	3.1707	1.153
	42.00	1074.6	713.8	137.27	3.1190	1.155
	43.00	1075.5	714.8	137.25	3.0698	1.157
	44.00	1076.4	715.7	137.23	3.0227	1.159
	45.00	1077.4	716.7	137.21	2.9778	1.161
	46.00	1078.2	717.5	137.19	2.9348	1.163
	47.00	1079.1	718.4	137.18	2.8936	1.165
	48.00	1079.9	719.2	137.17	2.8542	1.166
	49.00	1080.8	720.1	137.15	2.8163	1.168
	50.00	1081.6	720.9	137.14	2.7800	1.170

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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	51.00	1082.4	721.7	137.12	2.7451	1.172
	52.00	1083.2	722.4	137.09	2.7115	1.173
	53.00	1083.9	723.2	137.09	2.6792	1.175
	54.00	1084.7	723.9	137.07	2.6481	1.176
	55.00	1085.4	724.7	137.06	2.6182	1.178
	56.00	1086.0	725.3	137.03	2.5893	1.179
	57.00	1086.7	726.0	137.02	2.5614	1.181
	58.00	1087.4	726.7	136.99	2.5345	1.182
	59.00	1088.0	727.3	136.98	2.5085	1.184
	60.00	1088.7	727.9	136.95	2.4833	1.185
	61.00	1089.2	728.4	136.93	2.4590	1.186
	62.00	1089.9	729.1	136.92	2.4355	1.188
	63.00	1090.4	729.7	136.90	2.4127	1.189
	64.00	1091.1	730.4	136.87	2.3906	1.191
	65.00	1091.6	730.8	136.86	2.3692	1.192
	66.00	1092.2	731.4	136.84	2.3485	1.193
	67.00	1092.8	732.0	136.84	2.3284	1.194
	68.00	1093.2	732.5	136.80	2.3088	1.195
	69.00	1093.8	733.1	136.78	2.2899	1.196
	70.00	1094.4	733.7	136.76	2.2714	1.198
	71.00	1094.8	734.1	136.74	2.2535	1.199
	72.00	1095.3	734.6	136.73	2.2361	1.200
	73.00	1095.8	735.1	136.71	2.2192	1.201
	74.00	1096.3	735.6	136.69	2.2027	1.202
	75.00	1096.7	736.0	136.69	2.1867	1.203
	76.00	1097.2	736.5	136.67	2.1711	1.204
	77.00	1097.7	737.0	136.59	2.1558	1.205
	78.00	1098.2	737.4	136.53	2.1410	1.206
	79.00	1098.6	737.9	136.58	2.1266	1.207
	80.00	1099.0	738.3	136.56	2.1125	1.208
	81.00	1099.5	738.8	136.55	2.0988	1.209
	82.00	1100.0	739.3	136.53	2.0854	1.210
	83.00	1100.3	739.6	136.51	2.0723	1.211
	84.00	1100.7	740.0	136.49	2.0595	1.212
	85.00	1101.2	740.4	136.48	2.0471	1.213
	86.00	1101.5	740.8	136.46	2.0349	1.213
	87.00	1101.9	741.2	136.44	2.0230	1.214
	88.00	1102.1	741.4	136.43	2.0114	1.215
	89.00	1102.7	741.9	136.41	2.0000	1.216
	90.00	1103.0	742.3	136.39	1.9889	1.217
	91.00	1103.3	742.6	136.37	1.9780	1.217
	92.00	1103.7	743.0	136.36	1.9674	1.218
***** End Shut-in 2	93.00	1104.0	743.3	136.34	1.9570	1.219
***** Final Hydro.	365.00	2047.7	0.0	136.41		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 9571

Well Name & No. Strickert #9 Test No. 1 Date 12-8-96  
Company Wabash Energy Corporation Zone Tested Marmaton  
Address P.O. Box 595 Lawrenceville, IL 62439 Elevation 2964 KB 2955 GL  
Co. Rep / Geo. Larry Whitmer / John Cont. Discovery # 2 Est. Ft. of Pay      Por.      %  
Location: Sec. 31 Twp. 17<sup>S</sup> Rge. 31<sup>W</sup> Co. Scott State KS  
No. of Copies Nml. Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)     

Interval Tested 4345 - 4370 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 48,000  
Anchor Length 25' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000  
Top Packer Depth 4340 Tool Weight 1800  
Bottom Packer Depth 4345 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Total Depth 4370 Wt. Pipe Run      Drill Collar Run 4' H-90/30'  
Mud Wt. 9.3 LCM      Vis. 45 WL 9.2 Drill Pipe Size 4 1/2" XH Ft. Run 4299'  
Blow Description IF: Surface blow built to bttm in 5 mins  
ISI: Bled off blow - surface blow built to 6"  
FF: Surface blow built to bttm in 4 mins  
FST: Bled off blow - surface blow built to bttm in 45 mins

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>840'</u>	<u>930'</u>	<u>30'</u>	<u>810'</u>
Rec. <u>240'</u> Feet Of <u>GMCO</u>	<u>10</u> %gas	<u>60</u> %oil	<u>    </u> %water <u>30</u> %mud
Rec. <u>300'</u> Feet Of <u>GMCO</u>	<u>20</u> %gas	<u>50</u> %oil	<u>    </u> %water <u>30</u> %mud
Rec. <u>60'</u> Feet Of <u>GDCM</u>	<u>45</u> %gas	<u>10</u> %oil	<u>    </u> %water <u>45</u> %mud
Rec. <u>240'</u> Feet Of <u>MW</u>	<u>    </u> %gas	<u>    </u> %oil	<u>80</u> %water <u>20</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil	<u>    </u> %water <u>    </u> %mud

BHT 137° °F Gravity 21 °API D@ 60° °F Corrected Gravity 21 °API  
RW 1-D @ 43° °F Chlorides 10,000 ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud	<u>2113</u>   <u>2126</u> PSI	Recorder No. <u>13339</u>	T-Started <u>1530</u>
(B) First Initial Flow Pressure	<u>52</u>   <u>35</u> PSI	(depth) <u>4365</u>	T-Open <u><del>1802</del> 1732</u>
(C) First Final Flow Pressure	<u>124</u>   <u>170</u> PSI	Recorder No. <u>2341</u>	T-Pulled <u>2132</u>
(D) Initial Shut-in Pressure	<u>1080</u>   <u>1114</u> PSI	(depth) <u>4347</u>	T-Out <u>0015</u>
(E) Second Initial Flow Pressure	<u>197</u>   <u>182</u> PSI	Recorder No. <u>    </u>	
(F) Second Final Flow Pressure	<u>332</u>   <u>360</u> PSI	(depth) <u>    </u>	
(G) Final Shut-in Pressure	<u>1080</u>   <u>1103</u> PSI	Initial Opening <u>30</u>	Test <u>600</u>
(H) Final Hydrostatic Mud	<u>2093</u>   <u>2047</u> PSI	Initial Shut-in <u>60</u>	Jars <u>    </u>

AK-1 Alp. Final Flow 60 Safety Joint       
Final Shut-in 90 Straddle     

TRILOBITE 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 [Signature]  
Our Representative Rod Steinbrink

Circ. Sub X NIC  
Sampler       
Extra Packer       
Elect. Rec. X 150  
Other       
TOTAL PRICE \$ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp.

DATE 12-10-96

WELL NAME: Strickert #9

KB 2964.00 ft

TICKET NO: 9572

DST #2

LOCATION : 31-17s-31w Scott Cty KS

GR 2955.00 ft

FORMATION: Cherokee

INTERVAL : 4535.00 To 4561.00 ft

TD 4561.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13339		2341			PF Fr. 0710 to 0755 hr
SI 60 Range(Psi )	4025.0	0.0	4995.0	0.0	0.0	IS Fr. 0755 to 0855 hr
SF 60 Clock(hrs)	12 HR		Alp.			SF Fr. 0855 to 0955 hr
FS 90 Depth(ft )	4556.0	0.0	4538.0	0.0	0.0	FS Fr. 0955 to 1125 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 0530 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM 0708 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 0710 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1125 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1330 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0		I			Tool Wt. 1800.00 lbs
						Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 46000.00 lbs
						Unseated Str Wt 46000.00 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 30.00 ft
						D.P. Length 4513.00 ft

RECOVERY

Tot Fluid 190.00 ft of 30.00 ft in DC and 160.00 ft in DP  
 1230.00 ft of Gas in pipe  
 60.00 ft of Slightly gassy oil 5% gas 95% oil  
 10.00 ft of Gas mud cut oil 30% gas 50% oil 20% mud  
 120.00 ft of Gas mud cut oil 55% gas 30% oil 15% 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 30.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	49.00 S/L
W.L.	9.60 in3
F.C.	0.00 in

BLOW DESCRIPTION

Initial Flow -  
 Weak to fail blow off bottom in  
 14 minutes

Initial Shut-in -  
 Bled off blow - surface return  
 built to 1"

Final Flow -  
 Fair blow off bottom in 10 minutes

Final Shut-in  
 Bled off blow - surface return  
 built to .5"

Mud Drop N

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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.	Larry Whitmer
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful:



CALCULATED RECOVERY ANALYSIS

DST # 2 TICKET 9572

Drill pipe #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	60	5	3	95	57		0		0
2	10	30	3	50	5		0	20	2
3	90	55	49.5	30	27		0	15	13.5
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
Drill collar									
1	30	55	16.5	30	9		0	15	4.5
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	190	37.894737	72	51.58	98	0	0	10.53	20

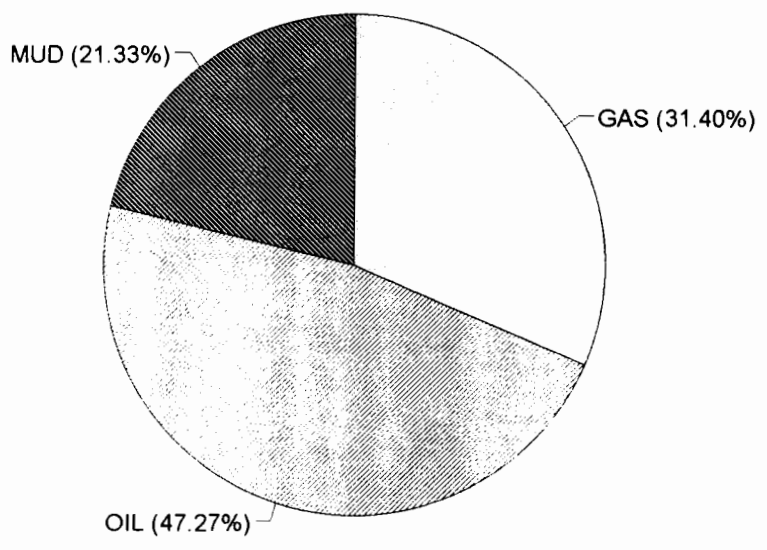
HRS BBL/DAY

BBL OIL= 1.30959 \* 2.5 12.5721

BBL WATER= 0 \* 0

BBL MUD= 0.590805

BBL GAS 0.869895

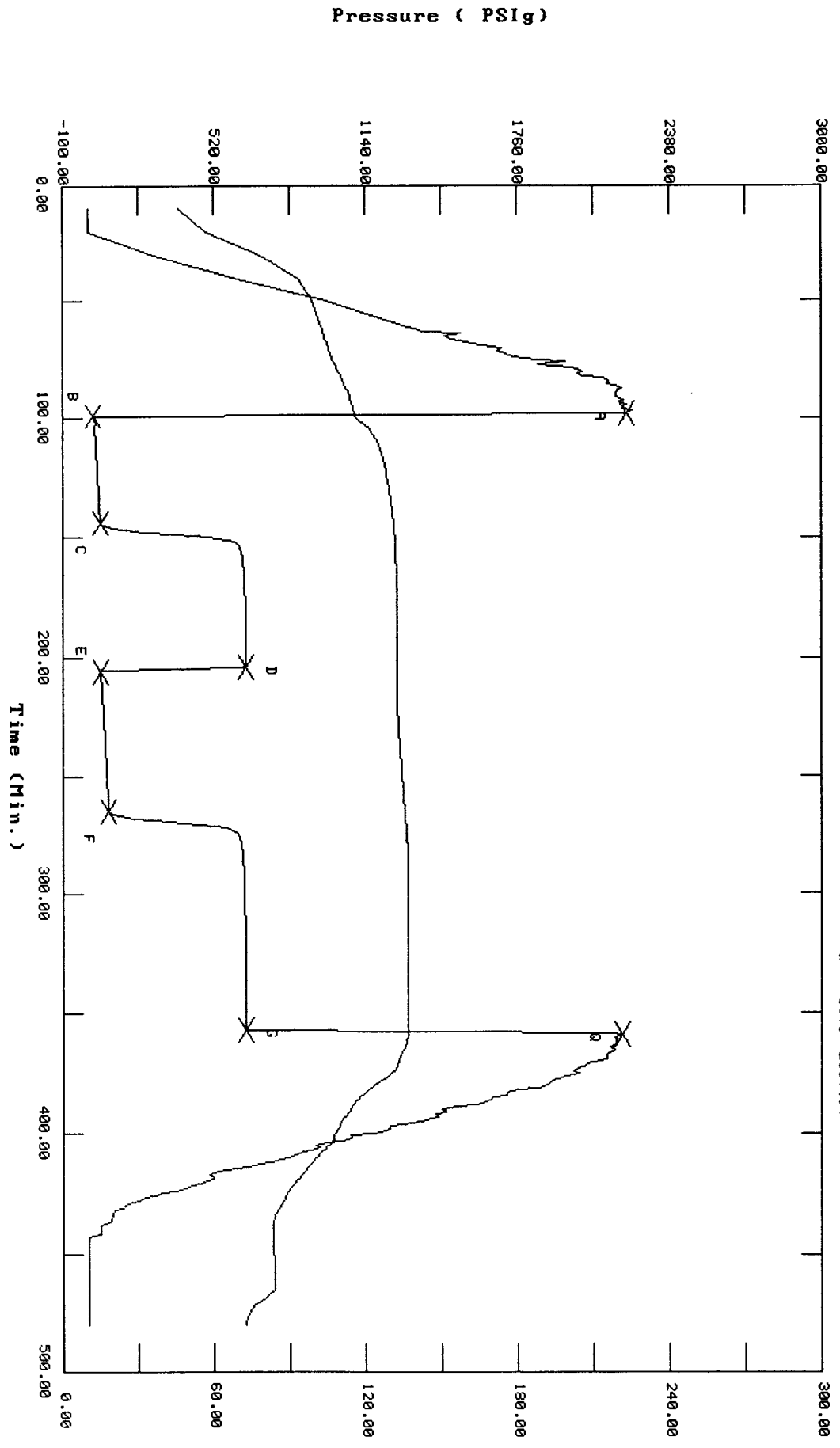


# TEST HISTORY

9572 DST #2 Strickert #9 Wabash Energy

Flag Points

Flag Points	Time (Min.)	Pressure (PSig)
A:	0.00	2210.02
B:	0.00	21.86
C:	45.00	51.65
D:	60.00	650.80
E:	0.00	53.36
F:	59.00	85.66
G:	92.00	650.62
H:	0.00	2187.04

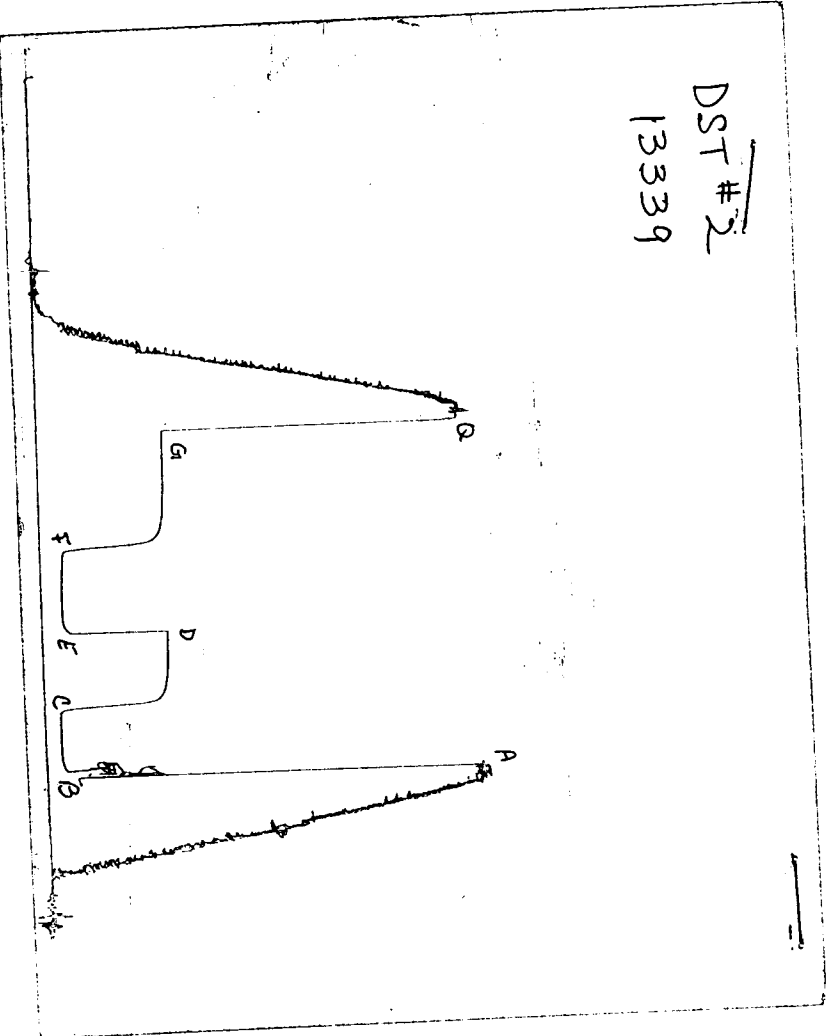


Temperature (DEG F)

Pressure ( PSig )

Time (Min.)

CHART PAGE



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

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9572 DST #2 Strickert #9 Wabash Energy

DATE: 12/10/96 TIME: 05:31:31  
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	Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	98.00	2210.0	0.0	115.70		
***** Start Flow 1	0.00	21.9	0.0	115.79		
	1.00	28.8	7.0	116.56		
	2.00	31.0	9.1	117.63		
	3.00	32.3	10.4	118.81		
	4.00	30.9	9.1	119.92		
	5.00	30.2	8.4	120.90		
	6.00	30.4	8.5	121.78		
	7.00	30.4	8.6	122.53		
	8.00	30.9	9.1	123.19		
	9.00	31.4	9.6	123.78		
	10.00	32.0	10.2	124.32		
	11.00	32.7	10.8	124.78		
	12.00	33.2	11.4	125.19		
	13.00	33.8	12.0	125.56		
	14.00	34.2	12.4	125.88		
	15.00	35.1	13.2	126.19		
	16.00	35.9	14.0	126.48		
	17.00	36.4	14.6	126.73		
	18.00	36.8	14.9	126.98		
	19.00	37.4	15.6	127.23		
	20.00	37.9	16.1	127.48		
	21.00	38.3	16.5	127.69		
	22.00	38.9	17.1	127.85		
	23.00	39.5	17.6	128.05		
	24.00	40.1	18.2	128.24		
	25.00	40.7	18.8	128.43		
	26.00	41.2	19.4	128.60		
	27.00	42.0	20.2	128.77		
	28.00	42.7	20.9	128.93		
	29.00	43.1	21.2	129.10		
	30.00	43.6	21.8	129.26		
	31.00	44.1	22.2	129.41		
	32.00	44.6	22.7	129.55		
	33.00	45.0	23.2	129.70		
	34.00	45.7	23.8	129.85		
	35.00	46.0	24.1	129.98		
	36.00	46.3	24.5	130.11		
	37.00	47.0	25.1	130.24		
	38.00	47.5	25.7	130.36		
	39.00	48.0	26.2	130.48		
	40.00	48.5	26.6	130.58		
	41.00	49.2	27.3	130.71		
	42.00	49.8	27.9	130.83		
	43.00	50.2	28.3	130.92		
	44.00	50.9	29.0	131.08		
***** End Flow 1	45.00	51.6	29.8	131.17		
***** Start Shutin 1	0.00	51.6	0.0	131.17	0.0000	0.003
	1.00	67.8	16.1	131.28	46.0000	0.005
	2.00	102.9	51.2	131.34	23.5000	0.011
	3.00	151.3	99.7	131.45	16.0000	0.023

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9572 DST #2 Strickert #9 Wabash Energy

DATE: 12/10/96

TIME: 05:31:31  
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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
4.00	230.0	178.4	131.51	12.2500	0.053
5.00	366.2	314.6	131.59	10.0000	0.134
6.00	499.7	448.0	131.69	8.5000	0.250
7.00	574.9	523.2	131.78	7.4286	0.330
8.00	603.4	551.8	131.85	6.6250	0.364
9.00	615.4	563.8	131.92	6.0000	0.379
10.00	621.9	570.2	131.96	5.5000	0.387
11.00	626.0	574.4	132.05	5.0909	0.392
12.00	629.0	577.3	132.09	4.7500	0.396
13.00	631.4	579.7	132.13	4.4615	0.399
14.00	633.3	581.6	132.15	4.2143	0.401
15.00	634.8	583.2	132.19	4.0000	0.403
16.00	636.3	584.6	132.23	3.8125	0.405
17.00	637.4	585.8	132.23	3.6471	0.406
18.00	638.5	586.9	132.25	3.5000	0.408
19.00	639.5	587.9	132.28	3.3684	0.409
20.00	640.3	588.7	132.30	3.2500	0.410
21.00	641.1	589.4	132.30	3.1429	0.411
22.00	641.7	590.1	132.33	3.0455	0.412
23.00	642.4	590.8	132.33	2.9565	0.413
24.00	642.9	591.3	132.34	2.8750	0.413
25.00	643.5	591.8	132.34	2.8000	0.414
26.00	644.0	592.3	132.35	2.7308	0.415
27.00	644.4	592.7	132.36	2.6667	0.415
28.00	644.7	593.1	132.36	2.6071	0.416
29.00	645.1	593.5	132.36	2.5517	0.416
30.00	645.5	593.9	132.38	2.5000	0.417
31.00	645.8	594.2	132.38	2.4516	0.417
32.00	646.1	594.4	132.37	2.4062	0.417
33.00	646.5	594.8	132.38	2.3636	0.418
34.00	646.8	595.1	132.39	2.3235	0.418
35.00	647.0	595.3	132.40	2.2857	0.419
36.00	647.3	595.6	132.41	2.2500	0.419
37.00	647.4	595.8	132.41	2.2162	0.419
38.00	647.7	596.0	132.43	2.1842	0.419
39.00	647.9	596.2	132.42	2.1538	0.420
40.00	648.1	596.4	132.46	2.1250	0.420
41.00	648.3	596.6	132.44	2.0976	0.420
42.00	648.5	596.8	132.42	2.0714	0.420
43.00	648.7	597.0	132.44	2.0465	0.421
44.00	648.7	597.1	132.44	2.0227	0.421
45.00	648.9	597.2	132.46	2.0000	0.421
46.00	649.1	597.5	132.47	1.9783	0.421
47.00	649.2	597.6	132.48	1.9574	0.422
48.00	649.3	597.7	132.47	1.9375	0.422
49.00	649.5	597.9	132.51	1.9184	0.422
50.00	649.7	598.1	132.50	1.9000	0.422
51.00	649.8	598.2	132.53	1.8824	0.422
52.00	649.9	598.2	132.50	1.8654	0.422
53.00	650.0	598.4	132.51	1.8491	0.423
54.00	650.1	598.5	132.52	1.8333	0.423

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9572 DST #2 Strickert #9 Wabash Energy

DATE: 12/10/96

TIME: 05:31:31

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	55.00	650.3	598.7	132.51	1.8182	0.423
	56.00	650.4	598.7	132.53	1.8036	0.423
	57.00	650.5	598.9	132.57	1.7895	0.423
	58.00	650.6	599.0	132.53	1.7759	0.423
	59.00	650.7	599.1	132.53	1.7627	0.423
***** End Shut-in 1	60.00	650.8	599.2	132.55	1.7500	0.424
***** Start Flow 2	0.00	53.4	0.0	132.51		
	1.00	54.5	1.1	132.47		
	2.00	54.7	1.4	132.43		
	3.00	55.0	1.6	132.39		
	4.00	55.8	2.4	132.37		
	5.00	56.6	3.3	132.36		
	6.00	57.4	4.0	132.37		
	7.00	58.3	5.0	132.40		
	8.00	58.9	5.5	132.42		
	9.00	59.4	6.1	132.45		
	10.00	60.0	6.7	132.47		
	11.00	60.6	7.2	132.50		
	12.00	61.2	7.8	132.56		
	13.00	61.7	8.3	132.60		
	14.00	62.1	8.8	132.64		
	15.00	62.7	9.4	132.68		
	16.00	63.5	10.2	132.73		
	17.00	64.1	10.8	132.78		
	18.00	65.0	11.6	132.83		
	19.00	65.6	12.2	132.87		
	20.00	65.8	12.4	132.92		
	21.00	66.2	12.9	132.98		
	22.00	66.9	13.5	133.04		
	23.00	67.1	13.8	133.10		
	24.00	67.7	14.4	133.14		
	25.00	68.5	15.1	133.19		
	26.00	68.8	15.5	133.26		
	27.00	69.6	16.2	133.33		
	28.00	70.0	16.7	133.39		
	29.00	70.4	17.0	133.47		
	30.00	71.0	17.7	133.54		
	31.00	71.4	18.1	133.61		
	32.00	71.9	18.6	133.68		
	33.00	72.5	19.1	133.74		
	34.00	72.9	19.6	133.80		
	35.00	73.5	20.2	133.86		
	36.00	74.0	20.6	133.92		
	37.00	74.5	21.1	133.99		
	38.00	74.9	21.5	134.04		
	39.00	75.3	21.9	134.08		
	40.00	75.7	22.4	134.13		
	41.00	76.3	23.0	134.20		
	42.00	76.8	23.5	134.26		
	43.00	77.3	24.0	134.33		
	44.00	78.0	24.6	134.41		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9572 DST #2 Strickert #9 Wabash Energy

DATE: 12/10/96

TIME: 05:31:31  
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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	45.00	78.5	25.1	134.49		
	46.00	79.0	25.6	134.57		
	47.00	79.5	26.2	134.65		
	48.00	80.0	26.6	134.72		
	49.00	80.4	27.1	134.81		
	50.00	81.0	27.6	134.87		
	51.00	81.6	28.3	134.97		
	52.00	82.1	28.7	134.98		
	53.00	82.6	29.3	135.04		
	54.00	83.2	29.9	135.11		
	55.00	83.8	30.4	135.17		
	56.00	84.3	31.0	135.23		
	57.00	84.7	31.3	135.29		
	58.00	85.2	31.9	135.35		
***** End Flow 2	59.00	85.7	32.3	135.41		
***** Start Shutin 2	0.00	85.7	0.0	135.41	0.0000	0.007
	1.00	101.9	16.2	135.47	105.0000	0.010
	2.00	138.7	53.0	135.54	53.0000	0.019
	3.00	188.8	103.1	135.62	35.6667	0.036
	4.00	272.4	186.8	135.71	27.0000	0.074
	5.00	402.9	317.2	135.80	21.8000	0.162
	6.00	516.8	431.2	135.90	18.3333	0.267
	7.00	576.2	490.5	135.97	15.8571	0.332
	8.00	601.0	515.3	136.08	14.0000	0.361
	9.00	612.5	526.8	136.15	12.5556	0.375
	10.00	618.8	533.2	136.22	11.4000	0.383
	11.00	622.9	537.2	136.34	10.4545	0.388
	12.00	625.8	540.1	136.36	9.6667	0.392
	13.00	628.1	542.5	136.41	9.0000	0.395
	14.00	630.0	544.3	136.46	8.4286	0.397
	15.00	631.5	545.9	136.50	7.9333	0.399
	16.00	632.9	547.2	136.53	7.5000	0.401
	17.00	634.1	548.5	136.52	7.1176	0.402
	18.00	635.2	549.5	136.57	6.7778	0.403
	19.00	636.0	550.4	136.58	6.4737	0.405
	20.00	636.9	551.2	136.62	6.2000	0.406
	21.00	637.5	551.9	136.61	5.9524	0.406
	22.00	638.2	552.6	136.58	5.7273	0.407
	23.00	638.8	553.1	136.57	5.5217	0.408
	24.00	639.4	553.8	136.62	5.3333	0.409
	25.00	639.9	554.2	136.64	5.1600	0.409
	26.00	640.3	554.6	136.65	5.0000	0.410
	27.00	640.8	555.1	136.61	4.8519	0.411
	28.00	641.2	555.6	136.65	4.7143	0.411
	29.00	641.6	556.0	136.66	4.5862	0.412
	30.00	642.1	556.4	136.70	4.4667	0.412
	31.00	642.4	556.8	136.67	4.3548	0.413
	32.00	642.7	557.1	136.65	4.2500	0.413
	33.00	643.1	557.4	136.66	4.1515	0.414
	34.00	643.4	557.7	136.69	4.0588	0.414
	35.00	643.6	558.0	136.71	3.9714	0.414

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9572 DST #2 Strickert #9 Wabash Energy

DATE: 12/10/96 TIME: 05:31:31  
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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
36.00	643.9	558.3	136.71	3.8889	0.415
37.00	644.2	558.5	136.72	3.8108	0.415
38.00	644.4	558.8	136.74	3.7368	0.415
39.00	644.7	559.0	136.74	3.6667	0.416
40.00	644.9	559.3	136.75	3.6000	0.416
41.00	645.1	559.4	136.75	3.5366	0.416
42.00	645.2	559.6	136.76	3.4762	0.416
43.00	645.4	559.8	136.76	3.4186	0.417
44.00	645.6	559.9	136.78	3.3636	0.417
45.00	645.8	560.2	136.78	3.3111	0.417
46.00	646.0	560.3	136.78	3.2609	0.417
47.00	646.1	560.5	136.79	3.2128	0.418
48.00	646.4	560.7	136.80	3.1667	0.418
49.00	646.5	560.9	136.80	3.1224	0.418
50.00	646.7	561.1	136.79	3.0800	0.418
51.00	646.9	561.2	136.80	3.0392	0.418
52.00	647.0	561.3	136.79	3.0000	0.419
53.00	647.1	561.5	136.80	2.9623	0.419
54.00	647.3	561.6	136.81	2.9259	0.419
55.00	647.4	561.7	136.81	2.8909	0.419
56.00	647.5	561.8	136.83	2.8571	0.419
57.00	647.6	561.9	136.82	2.8246	0.419
58.00	647.8	562.1	136.83	2.7931	0.420
59.00	647.9	562.2	136.83	2.7627	0.420
60.00	648.0	562.4	136.83	2.7333	0.420
61.00	648.1	562.4	136.83	2.7049	0.420
62.00	648.2	562.6	136.83	2.6774	0.420
63.00	648.3	562.6	136.84	2.6508	0.420
64.00	648.4	562.7	136.84	2.6250	0.420
65.00	648.5	562.8	136.84	2.6000	0.421
66.00	648.6	563.0	136.84	2.5758	0.421
67.00	648.7	563.0	136.85	2.5522	0.421
68.00	648.7	563.1	136.86	2.5294	0.421
69.00	648.9	563.3	136.85	2.5072	0.421
70.00	649.0	563.3	136.85	2.4857	0.421
71.00	649.1	563.4	136.85	2.4648	0.421
72.00	649.2	563.5	136.86	2.4444	0.421
73.00	649.2	563.6	136.87	2.4247	0.422
74.00	649.3	563.6	136.86	2.4054	0.422
75.00	649.4	563.8	136.86	2.3867	0.422
76.00	649.6	563.9	136.86	2.3684	0.422
77.00	649.6	564.0	136.86	2.3506	0.422
78.00	649.6	563.9	136.87	2.3333	0.422
79.00	649.7	564.0	136.87	2.3165	0.422
80.00	649.7	564.1	136.87	2.3000	0.422
81.00	649.8	564.2	136.87	2.2840	0.422
82.00	649.9	564.3	136.87	2.2683	0.422
83.00	650.0	564.4	136.88	2.2530	0.423
84.00	650.1	564.4	136.87	2.2381	0.423
85.00	650.2	564.5	136.88	2.2235	0.423
86.00	650.2	564.6	136.88	2.2093	0.423

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9572 DST #2 Strickert #9 Wabash Energy  
 DATE: 12/10/96                      TIME: 05:31:31

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	87.00	650.2	564.5	136.88	2.1954	0.423
	88.00	650.3	564.7	136.88	2.1818	0.423
	89.00	650.4	564.7	136.89	2.1685	0.423
	90.00	650.4	564.8	136.88	2.1556	0.423
	91.00	650.6	564.9	136.89	2.1429	0.423
***** End Shut-in 2	92.00	650.6	565.0	136.89	2.1304	0.423
***** Final Hydro.	359.00	2187.0	0.0	136.96		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 9572

Well Name & No. Strickert #9 Test No. 2 Date 12-10-96  
 Company Wabash Energy Corporation Zone Tested Cherokee  
 Address P.O. Box 595 Lawrenceville, IL 62439 Elevation 2964 KB 2955GL  
 Co. Rep / Geo. Larry Whitmer Cont. Discovery #2 Est. Ft. of Pay      Por.      %  
 Location: Sec. 31 Twp. 17<sup>S</sup> Rge. 31<sup>W</sup> Co. Scott State KS.  
 No. of Copies Nml. Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)     

Interval Tested 4535 - 4561 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 50 46,000  
 Anchor Length 26' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000  
 Top Packer Depth 4530 Tool Weight 1,800  
 Bottom Packer Depth 4535 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 4561 Wt. Pipe Run      Drill Collar Run H-90 30'  
 Mud Wt. 9.2 LCM Trc.      Vis. 49 WL 9.6 Drill Pipe Size 4 1/2" xH Ft. Run 4513'  
 Blow Description IF: Weak to fair blow off bttm in 14 mins.  
IST: Bled off blow - surface return built to 1"  
FF: Fair blow off bttm in 10 mins.  
EST: Bled off blow - surface return built to 1/2"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>190'</u>	<u>1230'</u>	<u>30'</u>	<u>160'</u>
Rec. <u>60'</u> Feet Of <u>SGO</u>	<u>5</u> %gas <u>95</u> %oil	<u>    </u> %water	<u>    </u> %mud
Rec. <u>10'</u> Feet Of <u>GMCO</u>	<u>30</u> %gas <u>50</u> %oil	<u>    </u> %water	<u>20</u> %mud
Rec. <u>120'</u> Feet Of <u>GMCO</u>	<u>55</u> %gas <u>30</u> %oil	<u>    </u> %water	<u>15</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water	<u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water	<u>    </u> %mud

BHT 136° °F Gravity 30 °API D@ 70° °F Corrected Gravity 30 °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 2,500 ppm System

(A) Initial Hydrostatic Mud	<u>2273</u>   <u>2210</u> PSI	Recorder No. <u>13339</u>	T-Started <u>0530</u>
(B) First Initial Flow Pressure	<u>72</u>   <u>21</u> PSI	(depth) <u>4556</u>	T-Open <u>0710</u>
(C) First Final Flow Pressure	<u>72</u>   <u>51</u> PSI	Recorder No. <u>2341</u>	T-Pulled <u>1125</u>
(D) Initial Shut-in Pressure	<u>659</u>   <u>650</u> PSI	(depth) <u>4538</u>	T-Out <u>1330</u>
(E) Second Initial Flow Pressure	<u>104</u>   <u>53</u> PSI	Recorder No. <u>    </u>	
(F) Second Final Flow Pressure	<u>114</u>   <u>85</u> PSI	(depth) <u>    </u>	
(G) Final Shut-in Pressure	<u>659</u>   <u>650</u> PSI	Initial Opening <u>45</u>	Test <u>600</u>
(H) Final Hydrostatic Mud	<u>2203</u>   <u>2187</u> PSI	Initial Shut-in <u>60</u>	Jars <u>    </u>

AK-1 Alp. Final Flow 60 Safety Joint       
 Final Shut-in 90 Straddle     

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Approved By [Signature]  
 Our Representative Rod Steinbrink

Circ. Sub X N/C  
 Sampler       
 Extra Packer       
 Elect. Rec. X 150  
 Other       
 TOTAL PRICE \$ 750