

WELL NAME: Vonfeldt #6
COMPANY: Raney Oil Company
LOCATION: 16-15S-17W
Ellis County, Kansas
DATE: 12/11/97

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company DATE 12/08/97
 WELL NAME: Vonfeldt #6 KB 1974.00 ft TICKET NO: 10563 DST #1
 LOCATION : Sec 16 15s 17w Ellis KS GR 1966.00 ft FORMATION: Lansing I
 INTERVAL : 3335.00 To 3370.00 ft TD 3370.00 ft TEST TYPE: CONV

RECORDER DATA

mins		Field	1	2	3	4	TIME DATA-----
30	Rec.	24174	24174	Alpine			PF Fr. 1624 to 1654 hr
60	Range(Psi)	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 1654 to 1754 hr
45	Clock(hrs)	12hr	12hr	batt			SF Fr. 1754 to 1839 hr
90	Depth(ft)	3365.0	3365.0	3337.0	0.0	0.0	FS Fr. 1839 to 2009 hr

	Field	1	2	3	4	
Init Hydro	1934.0	1927.0	0.0	0.0	0.0	T STARTED 1458 hr
First Flow	74.0	80.0	0.0	0.0	0.0	T ON BOTM 1622 hr
Final Flow	104.0	108.0	0.0	0.0	0.0	T OPEN 1624 hr
In Shut-in	759.0	766.0	0.0	0.0	0.0	T PULLED 2009 hr
Init Flow	164.0	160.0	0.0	0.0	0.0	T OUT hr
Final Flow	187.0	192.0	0.0	0.0	0.0	
Fl Shut-in	751.0	745.0	0.0	0.0	0.0	TOOL DATA-----
Final Hydro	1919.0	1907.0	0.0	0.0	0.0	Tool Wt. 2900.00 lbs
Inside/Outside	o	o	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3339.00 ft

RECOVERY

Est Fluid 360.00 ft of 0.00 ft in DC and 360.00 ft in DP
 0.00 ft of Gas in pipe
 50.00 ft of Gassy salt water
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of
 .00 ft of

ALINITY 72000.00 P.P.M. A.P.I. Gravity 0.00

LOW DESCRIPTION

Initial Flow-
 fair blow building to bottom of
 bucket in 10 minutes

Initial Shutin-
 no blow

Final Flow-

bucket in 24 minutes

Final Shutin-

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Starch
Weight	10.40 lb/c
Vis.	51.00 S/L
W.L.	15.20 in3
F.C.	0.00 in
Mud Drop	
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	0
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful:

*** TOOL DIAGRAM *** CONV

WELL NAME: Vonfeldt #6	P.O. SUB Top of tool at	3315
	C.O. SUB	
LOCATION : Sec 16 15s 17w Ellis KS	S.I. TOOL Sterling	3321
TICKET No. 10563 D.S.T. No. 1 DATE 12/08/97		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 21	HMV Sterling	3326
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 35	JARS n/a	
TOTAL TOOL 46		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT n/a	
D.P. ANCHOR STND.Stands Single Total		
TOTAL ASSEMBLY 46	PACKER Top	3330
D.C. ABOVE TOOLS.Stands Single Total	PACKER Bottom	3335
D.P. ABOVE TOOLS.Stands53 Single 1 Total 3339	DEPTH 3335	
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3385	STUBB	3336
	ANCHOR	
	1' perf	3337
	Alpine rec @ 3337	
TOTAL DEPTH 3370	5' perf	3342
TOTAL DRILL PIPE ABOVE K.B. 15	5' perf	3347
REMARKS:	5' perf	3352
	5' perf	3357
	T.C.	
	DEPTH	
	5' perf	3362
	5' perf	3367
	AK-1 rec @ 3365	
	3' bull plug	
	BULLNOSE to	
	T.D.	3370

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10563 Raney Oil Co. Vonfeldt #6 DST #1

DATE: 12/08/97 TIME: 14:09:32

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	131.50	1904.8	0.0	96.84		
***** Start Flow 1	0.00	33.0	0.0	97.09		
	0.50	32.9	-0.1	97.15		
	1.00	33.3	0.3	97.19		
	1.50	33.8	0.8	97.24		
	2.00	35.5	2.4	97.27		
	2.50	37.5	4.5	97.31		
	3.00	39.4	6.4	97.36		
	3.50	41.3	8.3	97.42		
	4.00	42.8	9.8	97.59		
	4.50	45.1	12.1	97.84		
	5.00	46.9	13.9	98.19		
	5.50	48.7	15.6	98.56		
	6.00	50.3	17.3	98.97		
	6.50	52.0	18.9	99.39		
	7.00	53.6	20.6	99.80		
	7.50	55.2	22.2	100.20		
	8.00	56.8	23.8	100.57		
	8.50	58.5	25.5	100.92		
	9.00	60.1	27.1	101.25		
	9.50	61.7	28.7	101.56		
	10.00	63.2	30.2	101.85		
	10.50	64.8	31.7	102.11		
	11.00	66.2	33.2	102.37		
	11.50	67.8	34.8	102.61		
	12.00	69.3	36.2	102.82		
	12.50	70.7	37.7	103.02		
	13.00	72.2	39.2	103.20		
	13.50	73.8	40.8	103.38		
	14.00	75.3	42.3	103.55		
	14.50	76.7	43.7	103.69		
	15.00	78.1	45.1	103.84		
	15.50	79.5	46.5	103.97		
	16.00	80.9	47.9	104.11		
	16.50	82.1	49.0	104.24		
	17.00	83.3	50.3	104.35		
	17.50	84.5	51.5	104.47		
	18.00	85.7	52.7	104.58		
	18.50	86.9	53.9	104.68		
	19.00	88.2	55.2	104.79		
	19.50	89.4	56.3	104.87		
	20.00	90.5	57.5	104.96		
	20.50	91.6	58.6	105.04		
	21.00	92.8	59.8	105.12		
	21.50	93.9	60.9	105.20		
	22.00	95.0	62.0	105.26		
	22.50	96.2	63.1	105.33		
	23.00	97.2	64.2	105.39		
	23.50	98.3	65.2	105.44		
	24.00	99.3	66.3	105.51		
	24.50	100.3	67.3	105.55		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 12/08/97 TIME: 14:09:32

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	101.3	68.3	105.60		
	25.50	102.5	69.4	105.65		
	26.00	103.5	70.5	105.69		
	26.50	104.6	71.5	105.74		
	27.00	105.5	72.5	105.77		
	27.50	106.5	73.5	105.81		
	28.00	107.4	74.3	105.85		
	28.50	108.4	75.4	105.89		
	29.00	109.4	76.3	105.92		
***** End Flow 1	29.50	110.3	77.3	105.95		
***** Start Shutin 1	0.00	110.3	0.0	105.95	0.0000	0.012
	0.50	111.2	0.9	105.98	60.0000	0.012
	1.00	111.8	1.4	106.02	30.5000	0.012
	1.50	112.5	2.1	106.06	20.6667	0.013
	2.00	189.4	79.1	106.07	15.7500	0.036
	2.50	298.7	188.3	106.10	12.8000	0.089
	3.00	351.6	241.3	106.13	10.8333	0.124
	3.50	377.0	266.6	106.17	9.4286	0.142
	4.00	404.9	294.6	106.20	8.3750	0.164
	4.50	441.5	331.2	106.25	7.5556	0.195
	5.00	478.0	367.7	106.29	6.9000	0.228
	5.50	510.6	400.2	106.33	6.3636	0.261
	6.00	540.4	430.1	106.36	5.9167	0.292
	6.50	566.2	455.9	106.41	5.5385	0.321
	7.00	588.1	477.8	106.44	5.2143	0.346
	7.50	606.7	496.4	106.48	4.9333	0.368
	8.00	622.3	512.0	106.51	4.6875	0.387
	8.50	635.3	525.0	106.54	4.4706	0.404
	9.00	646.2	535.8	106.56	4.2778	0.418
	9.50	655.2	544.9	106.58	4.1053	0.429
	10.00	662.7	552.4	106.59	3.9500	0.439
	10.50	669.2	558.9	106.60	3.8095	0.448
	11.00	674.8	564.4	106.61	3.6818	0.455
	11.50	679.7	569.3	106.61	3.5652	0.462
	12.00	684.1	573.7	106.60	3.4583	0.468
	12.50	688.0	577.7	106.60	3.3600	0.473
	13.00	691.6	581.2	106.60	3.2692	0.478
	13.50	694.7	584.4	106.59	3.1852	0.483
	14.00	697.7	587.4	106.58	3.1071	0.487
	14.50	700.3	590.0	106.57	3.0345	0.490
	15.00	702.8	592.5	106.54	2.9667	0.494
	15.50	705.1	594.8	106.53	2.9032	0.497
	16.00	707.4	597.0	106.51	2.8438	0.500
	16.50	709.4	599.1	106.48	2.7879	0.503
	17.00	711.4	601.0	106.45	2.7353	0.506
	17.50	713.2	602.9	106.43	2.6857	0.509
	18.00	715.0	604.7	106.41	2.6389	0.511
	18.50	716.7	606.3	106.39	2.5946	0.514
	19.00	718.3	607.9	106.38	2.5526	0.516
	19.50	719.8	609.4	106.37	2.5128	0.518
	20.00	721.2	610.9	106.35	2.4750	0.520

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20.50	722.6	612.2	106.33	2.4390	0.522
21.00	723.9	613.6	106.32	2.4048	0.524
21.50	725.1	614.8	106.31	2.3721	0.526
22.00	726.3	616.0	106.30	2.3409	0.528
22.50	727.5	617.2	106.28	2.3111	0.529
23.00	728.6	618.3	106.26	2.2826	0.531
23.50	729.7	619.4	106.25	2.2553	0.532
24.00	730.7	620.4	106.24	2.2292	0.534
24.50	731.7	621.4	106.22	2.2041	0.535
25.00	732.7	622.4	106.20	2.1800	0.537
25.50	733.7	623.3	106.19	2.1569	0.538
26.00	734.6	624.2	106.17	2.1346	0.540
26.50	735.4	625.1	106.15	2.1132	0.541
27.00	736.3	626.0	106.14	2.0926	0.542
27.50	737.1	626.8	106.12	2.0727	0.543
28.00	737.9	627.6	106.11	2.0536	0.545
28.50	738.7	628.4	106.08	2.0351	0.546
29.00	739.5	629.1	106.08	2.0172	0.547
29.50	740.2	629.9	106.06	2.0000	0.548
30.00	740.9	630.6	106.05	1.9833	0.549
30.50	741.6	631.3	106.03	1.9672	0.550
31.00	742.3	632.0	106.02	1.9516	0.551
31.50	743.0	632.6	106.01	1.9365	0.552
32.00	743.7	633.3	105.99	1.9219	0.553
32.50	744.3	633.9	105.98	1.9077	0.554
33.00	744.9	634.6	105.96	1.8939	0.555
33.50	745.5	635.2	105.95	1.8806	0.556
34.00	746.1	635.8	105.94	1.8676	0.557
34.50	746.7	636.4	105.92	1.8551	0.558
35.00	747.3	636.9	105.92	1.8429	0.558
35.50	747.8	637.5	105.90	1.8310	0.559
36.00	748.3	638.0	105.89	1.8194	0.560
36.50	748.9	638.6	105.88	1.8082	0.561
37.00	749.4	639.1	105.87	1.7973	0.562
37.50	750.0	639.6	105.86	1.7867	0.562
38.00	750.5	640.2	105.86	1.7763	0.563
38.50	751.0	640.7	105.84	1.7662	0.564
39.00	751.5	641.2	105.83	1.7564	0.565
39.50	752.0	641.7	105.82	1.7468	0.566
40.00	752.5	642.2	105.81	1.7375	0.566
40.50	753.0	642.7	105.81	1.7284	0.567
41.00	753.5	643.2	105.79	1.7195	0.568
41.50	753.9	643.6	105.78	1.7108	0.568
42.00	754.4	644.1	105.78	1.7024	0.569
42.50	754.8	644.5	105.77	1.6941	0.570
43.00	755.3	645.0	105.76	1.6860	0.570
43.50	755.7	645.4	105.75	1.6782	0.571
44.00	756.1	645.8	105.74	1.6705	0.572
44.50	756.5	646.2	105.72	1.6629	0.572
45.00	757.0	646.6	105.72	1.6556	0.573
45.50	757.3	647.0	105.71	1.6484	0.574

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46.00	757.8	647.4	105.70	1.6413	0.574
46.50	758.2	647.8	105.69	1.6344	0.575
47.00	758.6	648.2	105.69	1.6277	0.575
47.50	758.9	648.6	105.69	1.6211	0.576
48.00	759.3	649.0	105.68	1.6146	0.577
48.50	759.7	649.3	105.67	1.6082	0.577
49.00	760.0	649.7	105.66	1.6020	0.578
49.50	760.4	650.1	105.65	1.5960	0.578
50.00	760.8	650.4	105.64	1.5900	0.579
50.50	761.1	650.8	105.63	1.5842	0.579
51.00	761.5	651.1	105.62	1.5784	0.580
51.50	761.8	651.5	105.61	1.5728	0.580
52.00	762.2	651.8	105.60	1.5673	0.581
52.50	762.5	652.2	105.61	1.5619	0.581
53.00	762.8	652.5	105.59	1.5566	0.582
53.50	763.1	652.8	105.57	1.5514	0.582
54.00	763.5	653.1	105.57	1.5463	0.583
54.50	763.8	653.5	105.57	1.5413	0.583
55.00	764.1	653.8	105.56	1.5364	0.584
55.50	764.5	654.1	105.56	1.5315	0.584
56.00	764.8	654.4	105.54	1.5268	0.585
56.50	765.1	654.7	105.53	1.5221	0.585
57.00	765.4	655.0	105.52	1.5175	0.586
57.50	765.6	655.3	105.52	1.5130	0.586
58.00	766.0	655.6	105.52	1.5086	0.587
58.50	766.2	655.9	105.50	1.5043	0.587
59.00	766.5	656.2	105.50	1.5000	0.587
59.50	766.8	656.4	105.49	1.4958	0.588
60.00	767.0	656.7	105.47	1.4917	0.588
60.50	767.3	657.0	105.48	1.4876	0.589
61.00	767.5	657.2	105.46	1.4836	0.589
61.50	767.5	657.2	105.45	1.4797	0.589
62.00	767.1	656.8	105.45	1.4758	0.589
62.50	766.4	656.1	105.44	1.4720	0.587
63.00	767.0	656.6	105.43	1.4683	0.588
63.50	767.8	657.4	105.42	1.4646	0.589
64.00	768.3	658.0	105.42	1.4609	0.590
64.50	768.8	658.5	105.41	1.4574	0.591
65.00	769.2	658.8	105.41	1.4538	0.592
65.50	769.5	659.2	105.40	1.4504	0.592
66.00	769.8	659.5	105.39	1.4470	0.593
66.50	770.1	659.8	105.38	1.4436	0.593
67.00	770.4	660.1	105.38	1.4403	0.594
67.50	770.7	660.4	105.38	1.4370	0.594
68.00	771.0	660.7	105.37	1.4338	0.594
68.50	771.2	660.9	105.36	1.4307	0.595
69.00	771.5	661.2	105.34	1.4275	0.595
69.50	771.8	661.4	105.34	1.4245	0.596
70.00	772.0	661.7	105.33	1.4214	0.596
70.50	772.3	661.9	105.33	1.4184	0.596

***** End Shut-in 1

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	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Start Flow 2	0.00	119.7	0.0	105.34		
	0.50	121.3	1.6	105.32		
	1.00	123.1	3.4	105.30		
	1.50	124.8	5.1	105.26		
	2.00	126.5	6.7	105.24		
	2.50	128.1	8.4	105.25		
	3.00	129.7	10	105.27		
	3.50	131.2	11.5	105.30		
	4.00	132.8	13.1	105.37		
	4.50	134.3	14.5	105.44		
	5.00	135.7	15.9	105.52		
	5.50	137.0	17.2	105.60		
	6.00	138.3	18.6	105.69		
	6.50	139.6	19.8	105.77		
	7.00	140.8	21.1	105.86		
	7.50	142.1	22.4	105.94		
	8.00	143.3	23.6	106.02		
	8.50	144.5	24.7	106.09		
	9.00	145.6	25.9	106.17		
	9.50	146.9	27.1	106.23		
	10.00	148.0	28.3	106.29		
	10.50	149.1	29.4	106.35		
	11.00	150.2	30.5	106.41		
	11.50	151.3	31.5	106.47		
	12.00	152.3	32.5	106.51		
	12.50	153.3	33.5	106.55		
	13.00	154.3	34.6	106.60		
	13.50	155.5	35.7	106.64		
	14.00	156.4	36.7	106.68		
	14.50	157.4	37.7	106.71		
	15.00	158.4	38.7	106.74		
	15.50	159.3	39.6	106.77		
	16.00	160.2	40.5	106.80		
	16.50	161.1	41.4	106.83		
	17.00	162.1	42.4	106.85		
	17.50	163.0	43.3	106.88		
	18.00	163.9	44.2	106.90		
	18.50	164.8	45.0	106.92		
	19.00	165.6	45.9	106.94		
	19.50	166.5	46.7	106.97		
	20.00	167.4	47.6	106.98		
	20.50	168.1	48.4	107.01		
	21.00	168.9	49.2	107.02		
	21.50	169.8	50.1	107.04		
	22.00	170.6	50.8	107.07		
	22.50	171.4	51.6	107.09		
	23.00	172.2	52.4	107.12		
	23.50	173.0	53.2	107.13		
	24.00	173.8	54.0	107.14		
	24.50	174.5	54.7	107.16		
	25.00	175.3	55.5	107.18		
	25.50	176.0	56.2	107.19		

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	Time	Pressure	delta P	Temp.	(T+dT)/dT	P^2/10^6
		PSI	PSI	DEG F		
	26.00	176.8	57.1	107.21		
	26.50	177.6	57.9	107.22		
	27.00	178.3	58.6	107.23		
	27.50	179.1	59.3	107.25		
	28.00	179.8	60.0	107.26		
	28.50	180.5	60.8	107.25		
	29.00	181.2	61.5	107.27		
	29.50	181.9	62.2	107.29		
	30.00	182.5	62.8	107.28		
	30.50	183.2	63.5	107.28		
	31.00	183.9	64.1	107.29		
	31.50	184.6	64.8	107.29		
	32.00	185.2	65.5	107.29		
	32.50	185.9	66.1	107.31		
	33.00	186.5	66.8	107.30		
	33.50	187.2	67.5	107.30		
	34.00	187.9	68.1	107.31		
	34.50	188.5	68.8	107.31		
	35.00	189.2	69.4	107.32		
	35.50	189.8	70.1	107.33		
	36.00	190.4	70.7	107.32		
	36.50	191.0	71.3	107.33		
	37.00	191.7	72.0	107.32		
	37.50	192.4	72.6	107.33		
	38.00	192.8	73.1	107.33		
	38.50	193.3	73.6	107.34		
***** End Flow 2	39.00	193.9	74.1	107.35		
***** Start Shutin 2	0.00	193.9	0.0	107.35	0.0000	0.038
	0.50	205.2	11.3	107.35	138.0000	0.042
	1.00	275.1	81.2	107.34	69.5000	0.076
	1.50	324.2	130.4	107.35	46.6667	0.105
	2.00	353.2	159.3	107.35	35.2500	0.125
	2.50	371.4	177.6	107.36	28.4000	0.138
	3.00	388.9	195.1	107.37	23.8333	0.151
	3.50	409.8	216.0	107.38	20.5714	0.168
	4.00	431.2	237.3	107.38	18.1250	0.186
	4.50	453.1	259.2	107.40	16.2222	0.205
	5.00	474.4	280.5	107.40	14.7000	0.225
	5.50	495.4	301.5	107.41	13.4545	0.245
	6.00	515.2	321.3	107.42	12.4167	0.265
	6.50	533.4	339.5	107.42	11.5385	0.284
	7.00	550.2	356.3	107.43	10.7857	0.303
	7.50	565.5	371.7	107.43	10.1333	0.320
	8.00	579.1	385.3	107.43	9.5625	0.335
	8.50	591.3	397.4	107.43	9.0588	0.350
	9.00	602.2	408.4	107.43	8.6111	0.363
	9.50	612.0	418.1	107.44	8.2105	0.375
	10.00	620.5	426.7	107.43	7.8500	0.385
	10.50	628.2	434.3	107.43	7.5238	0.395
	11.00	634.9	441.0	107.43	7.2273	0.403
	11.50	640.9	447.0	107.43	6.9565	0.411

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10563 Raney Oil Co. Vonfeldt #6 DST #1

DATE: 12/08/97 TIME: 14:09:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.00	646.3	452.4	107.43	6.7083	0.418
12.50	651.0	457.1	107.41	6.4800	0.424
13.00	655.3	461.4	107.41	6.2692	0.429
13.50	659.2	465.4	107.40	6.0741	0.435
14.00	662.8	468.9	107.39	5.8929	0.439
14.50	666.0	472.2	107.38	5.7241	0.444
15.00	669.1	475.2	107.37	5.5667	0.448
15.50	671.9	478.0	107.37	5.4194	0.451
16.00	674.4	480.6	107.36	5.2812	0.455
16.50	676.8	482.9	107.36	5.1515	0.458
17.00	679.0	485.2	107.34	5.0294	0.461
17.50	681.1	487.3	107.33	4.9143	0.464
18.00	683.1	489.3	107.32	4.8056	0.467
18.50	685.0	491.1	107.31	4.7027	0.469
19.00	686.8	492.9	107.29	4.6053	0.472
19.50	688.5	494.6	107.28	4.5128	0.474
20.00	690.1	496.2	107.28	4.4250	0.476
20.50	691.6	497.8	107.26	4.3415	0.478
21.00	693.1	499.2	107.25	4.2619	0.480
21.50	694.5	500.6	107.23	4.1860	0.482
22.00	695.8	502.0	107.23	4.1136	0.484
22.50	697.1	503.3	107.23	4.0444	0.486
23.00	698.4	504.5	107.22	3.9783	0.488
23.50	699.5	505.6	107.20	3.9149	0.489
24.00	700.7	506.8	107.19	3.8542	0.491
24.50	701.8	507.9	107.18	3.7959	0.493
25.00	702.9	509.0	107.18	3.7400	0.494
25.50	703.9	510.1	107.16	3.6863	0.495
26.00	704.9	511.1	107.16	3.6346	0.497
26.50	705.9	512.1	107.15	3.5849	0.498
27.00	706.9	513.0	107.15	3.5370	0.500
27.50	707.8	513.9	107.14	3.4909	0.501
28.00	708.7	514.8	107.14	3.4464	0.502
28.50	709.5	515.7	107.13	3.4035	0.503
29.00	710.4	516.5	107.12	3.3621	0.505
29.50	711.2	517.3	107.11	3.3220	0.506
30.00	712.0	518.1	107.09	3.2833	0.507
30.50	712.8	518.9	107.09	3.2459	0.508
31.00	713.5	519.6	107.09	3.2097	0.509
31.50	714.2	520.3	107.06	3.1746	0.510
32.00	715.0	521.1	107.05	3.1406	0.511
32.50	715.7	521.8	107.04	3.1077	0.512
33.00	716.4	522.5	107.02	3.0758	0.513
33.50	717.0	523.1	107.01	3.0448	0.514
34.00	717.7	523.8	107.00	3.0147	0.515
34.50	718.3	524.4	106.99	2.9855	0.516
35.00	718.9	525.1	106.98	2.9571	0.517
35.50	719.6	525.7	106.96	2.9296	0.518
36.00	720.2	526.3	106.95	2.9028	0.519
36.50	720.8	526.9	106.93	2.8767	0.519
37.00	721.3	527.5	106.93	2.8514	0.520

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10563 Raney Oil Co. Vonfeldt #6 DST #1

DATE: 12/08/97 TIME: 14:09:32

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
37.50	721.9	528.1	106.92	2.8267	0.521
38.00	722.5	528.6	106.90	2.8026	0.522
38.50	723.0	529.1	106.90	2.7792	0.523
39.00	723.5	529.7	106.88	2.7564	0.524
39.50	724.0	530.2	106.86	2.7342	0.524
40.00	724.5	530.7	106.86	2.7125	0.525
40.50	725.0	531.2	106.85	2.6914	0.526
41.00	725.5	531.7	106.84	2.6707	0.526
41.50	726.0	532.2	106.83	2.6506	0.527
42.00	726.5	532.7	106.82	2.6310	0.528
42.50	727.0	533.1	106.81	2.6118	0.529
43.00	727.5	533.6	106.81	2.5930	0.529
43.50	728.0	534.1	106.80	2.5747	0.530
44.00	728.4	534.6	106.79	2.5568	0.531
44.50	728.9	535.0	106.78	2.5393	0.531
45.00	729.3	535.4	106.77	2.5222	0.532
45.50	729.8	535.9	106.77	2.5055	0.533
46.00	730.2	536.3	106.75	2.4891	0.533
46.50	730.6	536.7	106.75	2.4731	0.534
47.00	731.0	537.2	106.75	2.4574	0.534
47.50	731.5	537.6	106.74	2.4421	0.535
48.00	731.9	538.0	106.73	2.4271	0.536
48.50	732.3	538.4	106.73	2.4124	0.536
49.00	732.6	538.8	106.72	2.3980	0.537
49.50	733.0	539.2	106.73	2.3838	0.537
50.00	733.4	539.6	106.73	2.3700	0.538
50.50	733.8	540.0	106.72	2.3564	0.538
51.00	734.2	540.3	106.73	2.3431	0.539
51.50	734.5	540.7	106.73	2.3301	0.540
52.00	734.9	541.0	106.73	2.3173	0.540
52.50	735.3	541.4	106.73	2.3048	0.541
53.00	735.6	541.8	106.72	2.2925	0.541
53.50	736.0	542.1	106.73	2.2804	0.542
54.00	736.3	542.5	106.74	2.2685	0.542
54.50	736.7	542.8	106.74	2.2569	0.543
55.00	737.0	543.1	106.74	2.2455	0.543
55.50	737.3	543.5	106.74	2.2342	0.544
56.00	737.6	543.8	106.74	2.2232	0.544
56.50	738.0	544.1	106.74	2.2124	0.545
57.00	738.3	544.4	106.75	2.2018	0.545
57.50	738.6	544.7	106.75	2.1913	0.546
58.00	738.9	545.0	106.76	2.1810	0.546
58.50	739.2	545.4	106.76	2.1709	0.546
59.00	739.5	545.7	106.76	2.1610	0.547
59.50	739.8	546.0	106.76	2.1513	0.547
60.00	740.2	546.3	106.76	2.1417	0.548
60.50	740.4	546.6	106.75	2.1322	0.548
61.00	740.7	546.9	106.75	2.1230	0.549
61.50	741.0	547.2	106.76	2.1138	0.549
62.00	741.3	547.4	106.76	2.1048	0.550
62.50	741.6	547.7	106.75	2.0960	0.550

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10563 Raney Oil Co. Vonfeldt #6 DST #1

DATE: 12/08/97 TIME: 14:09:32

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	63.00	741.9	548.0	106.74	2.0873	0.550
	63.50	742.1	548.3	106.75	2.0787	0.551
	64.00	742.4	548.6	106.73	2.0703	0.551
	64.50	742.7	548.8	106.74	2.0620	0.552
	65.00	743.0	549.1	106.74	2.0538	0.552
	65.50	743.2	549.4	106.74	2.0458	0.552
	66.00	743.5	549.6	106.73	2.0379	0.553
	66.50	743.8	549.9	106.72	2.0301	0.553
	67.00	744.1	550.2	106.73	2.0224	0.554
	67.50	744.3	550.4	106.72	2.0148	0.554
	68.00	744.5	550.7	106.71	2.0074	0.554
	68.50	744.8	550.9	106.70	2.0000	0.555
	69.00	745.0	551.1	106.70	1.9928	0.555
	69.50	745.3	551.4	106.70	1.9856	0.555
	70.00	745.5	551.7	106.69	1.9786	0.556
	70.50	745.8	551.9	106.69	1.9716	0.556
	71.00	746.0	552.1	106.68	1.9648	0.557
	71.50	746.3	552.4	106.67	1.9580	0.557
	72.00	746.5	552.6	106.67	1.9514	0.557
	72.50	746.7	552.9	106.67	1.9448	0.558
	73.00	747.0	553.1	106.66	1.9384	0.558
	73.50	747.2	553.3	106.66	1.9320	0.558
	74.00	747.4	553.6	106.65	1.9257	0.559
	74.50	747.6	553.8	106.66	1.9195	0.559
	75.00	747.9	554.0	106.65	1.9133	0.559
	75.50	748.1	554.2	106.64	1.9073	0.560
	76.00	748.3	554.4	106.63	1.9013	0.560
	76.50	748.5	554.6	106.63	1.8954	0.560
	77.00	748.7	554.9	106.62	1.8896	0.561
	77.50	748.9	555.1	106.61	1.8839	0.561
	78.00	749.2	555.3	106.61	1.8782	0.561
	78.50	749.4	555.5	106.60	1.8726	0.562
	79.00	749.6	555.7	106.60	1.8671	0.562
	79.50	749.8	555.9	106.60	1.8616	0.562
	80.00	750.0	556.1	106.59	1.8562	0.562
	80.50	750.2	556.3	106.58	1.8509	0.563
	81.00	750.4	556.6	106.57	1.8457	0.563
	81.50	750.6	556.8	106.57	1.8405	0.563
	82.00	750.8	557.0	106.56	1.8354	0.564
	82.50	751.0	557.1	106.57	1.8303	0.564
	83.00	751.2	557.3	106.56	1.8253	0.564
	83.50	751.4	557.5	106.56	1.8204	0.565
	84.00	751.6	557.7	106.55	1.8155	0.565
	84.50	751.8	557.9	106.53	1.8107	0.565
***** End Shut-in 2	85.00	752.0	558.1	106.53	1.8059	0.565
***** Final Hydro.	359.50	1961.7	0.0	106.50		

10563

Raney Oil Co. Vonfeldt #6 DST #1

TEST HISTORY

Flag Points

t(Min.)	P (PSI)
A: 0.00	1904.81
B: 0.00	33.02
C: 29.50	110.33
D: 70.50	772.27
E: 0.00	119.74
F: 39.00	193.86
G: 85.00	751.96
H: 0.00	1961.69

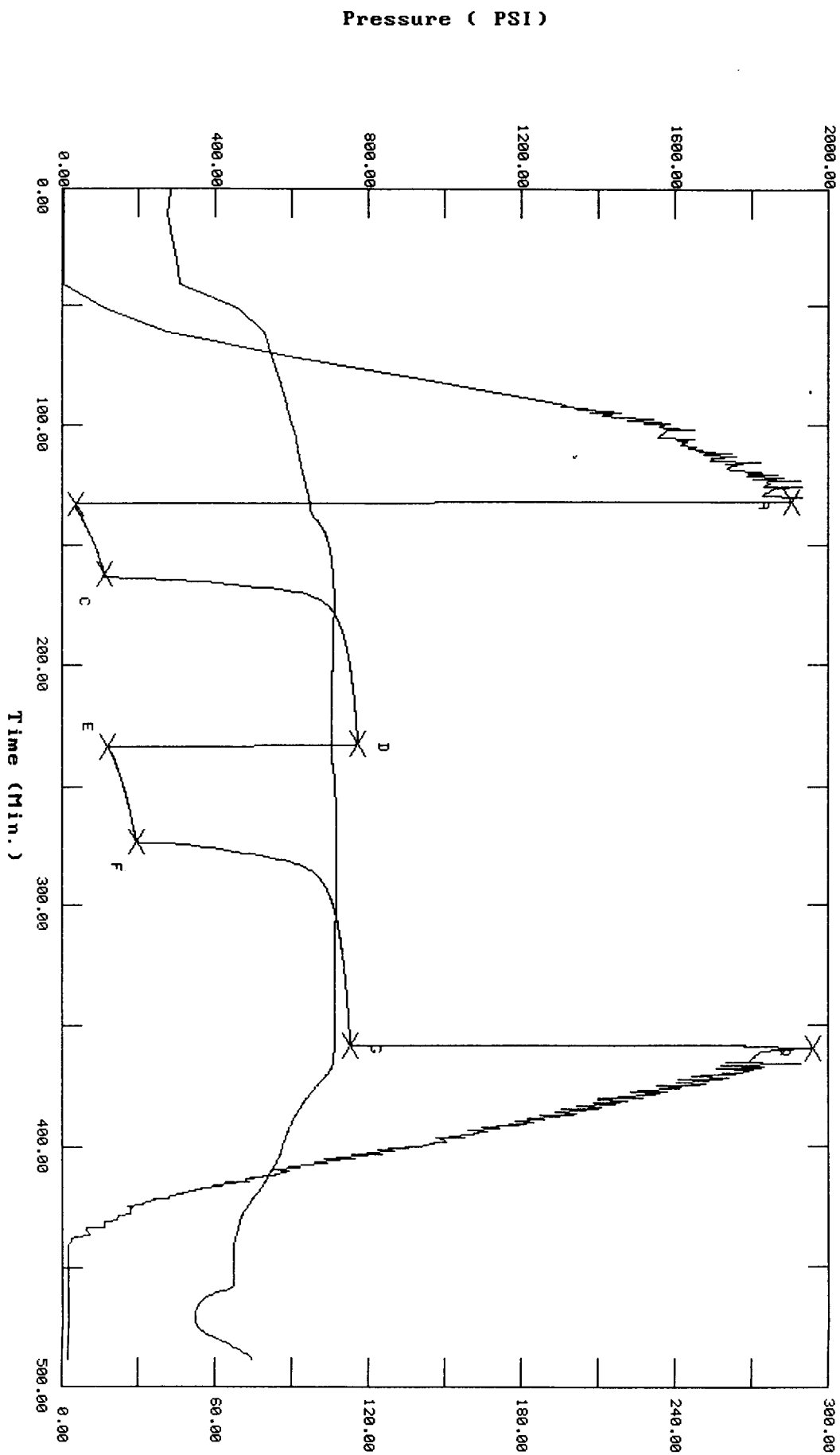
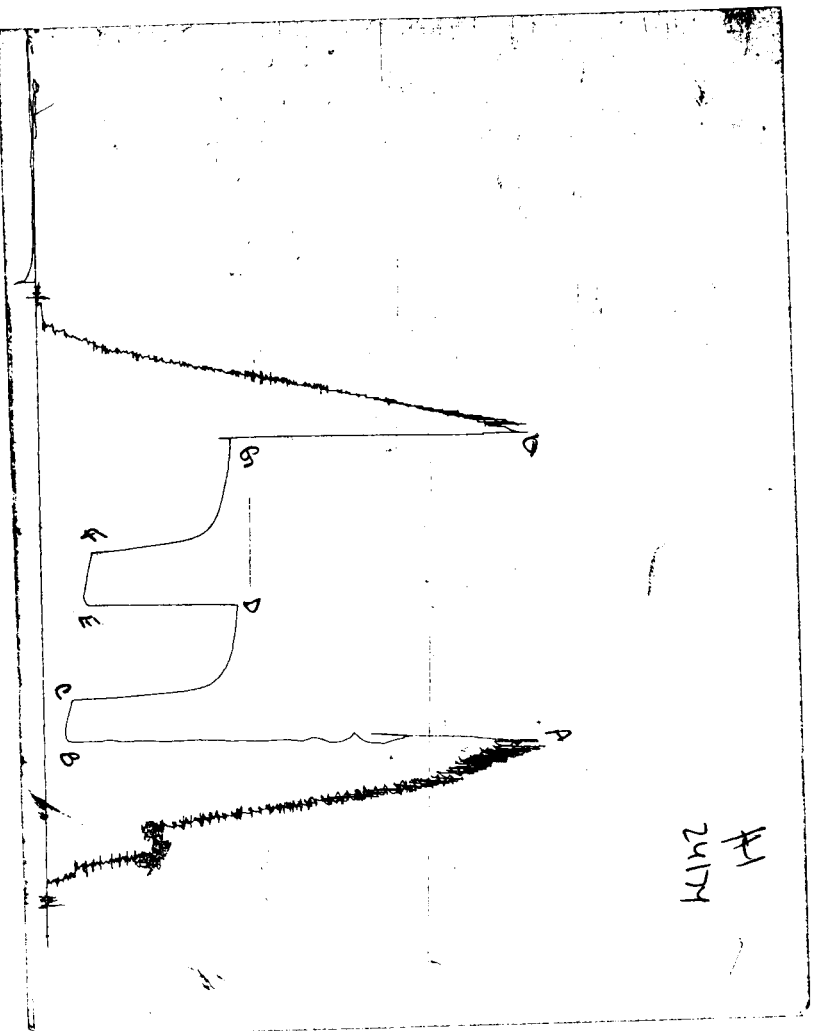


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company
WELL NAME: Vonfeldt #6
LOCATION : 16-15S-17W Ellis Co. KS
INTERVAL : 3546.00 To 3556.00 ft

DATE 12-10-97
KB 1974.00 ft TICKET NO: 10564 DST #2
GR 1966.00 ft FORMATION: Arbuckle
TD 3556.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11084	11084				PF Fr. 0342 to 0412 hr
SI 45	Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 0412 to 0457 hr
SF 30	Clock(hrs)	12 hr	12 hr				SF Fr. 0457 to 0527 hr
FS 60	Depth(ft)	3547.0	3547.0	0.0	0.0	0.0	FS Fr. 0527 to 0627 hr

	Field	1	2	3	4	
A. Init Hydro	2036.0	2007.0	0.0	0.0	0.0	T STARTED 0225 hr
B. First Flow	33.0	14.0	0.0	0.0	0.0	T ON BOTM 0340 hr
B1. Final Flow	33.0	14.0	0.0	0.0	0.0	T OPEN 0342 hr
C. In Shut-in	165.0	151.0	0.0	0.0	0.0	T PULLED 0627 hr
D. Init Flow	33.0	9.0	0.0	0.0	0.0	T OUT 0739 hr
E. Final Flow	33.0	9.0	0.0	0.0	0.0	
F. Fl Shut-in	110.0	98.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2015.0	1994.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	i	i				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3528.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
10.00 ft of slightly oil specked 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
0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
Weak 1/4" blow building to 1".

Initial Shutin:

Final Flow:
Surface blow died in 12 minutes.

Final Shutin:

SAMPLES:

SENT TO:

MUD DATA-----

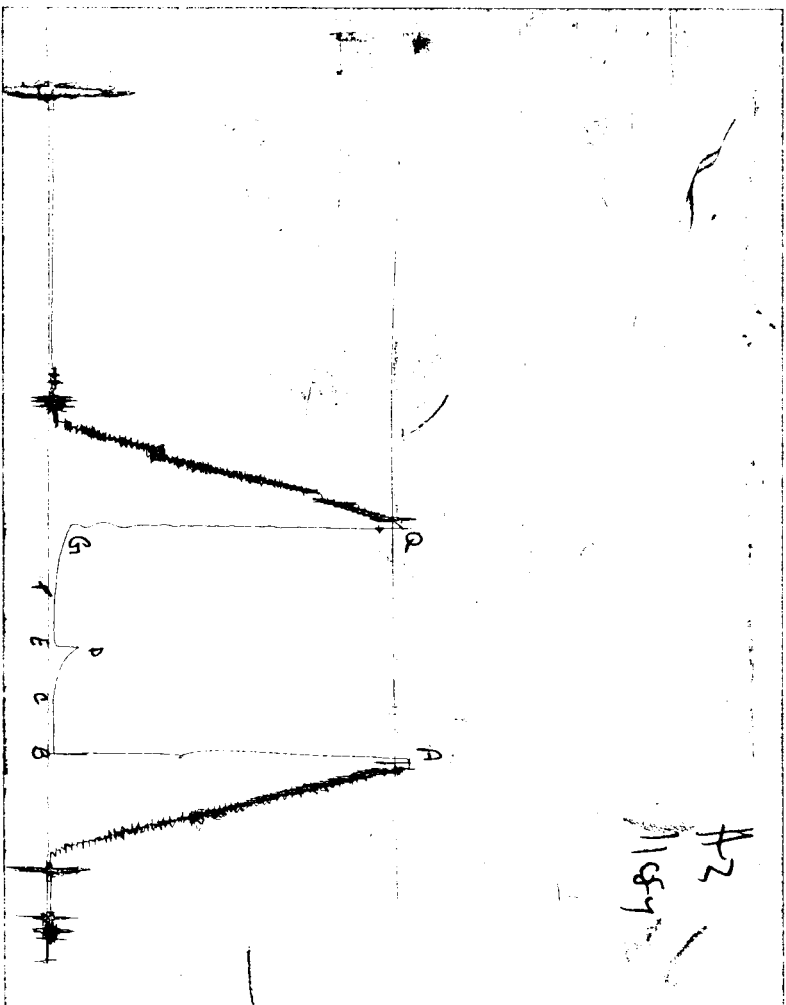
Mud Type	Chem
Weight	10.20 lb/c
Vis.	53.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

Tester	Paul Simpson
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company

DATE 12-10-97

WELL NAME: Vonfeldt #6

KB 1974.00 ft

TICKET NO: 10565

DST #3

LOCATION : 16-15S-17W Ellis Co. KS

GR 1966.00 ft

FORMATION: Arbuckle

INTERVAL : 3545.00 To 3565.00 ft

TD 3565.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11084	11084				PF Fr. 1652 to 1737 hr
SI 45 Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 1737 to 1822 hr
SF 15 Clock(hrs)	12 hr	12 hr				SF Fr. 1822 to 1837 hr
FS 0 Depth(ft)	3543.0	3543.0	0.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1983.0	1977.0	0.0	0.0	0.0	T STARTED 1542 hr
B. First Flow	22.0	18.0	0.0	0.0	0.0	T ON BOTM 1647 hr
Bl. Final Flow	22.0	18.0	0.0	0.0	0.0	T OPEN 1652 hr
C. In Shut-in	548.0	537.0	0.0	0.0	0.0	T PULLED 1845 hr
D. Init Flow	22.0	25.0	0.0	0.0	0.0	T OUT 1955 hr
E. Final Flow	22.0	25.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1972.0	1930.0	0.0	0.0	0.0	Tool Wt. 1900.00 lbs
Inside/Outside	i	i				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 52000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3528.00 ft

RECOVERY

Pot Fluid	20.00 ft of	0.00 ft in DC and	20.00 ft in DP	
20.00	ft of Slightly oil stained mud	3%oil	97%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 1/2" blow building to 2".

Initial Shutin:

Final Flow:
Weak surface blow.

Final Shutin:

SAMPLES:

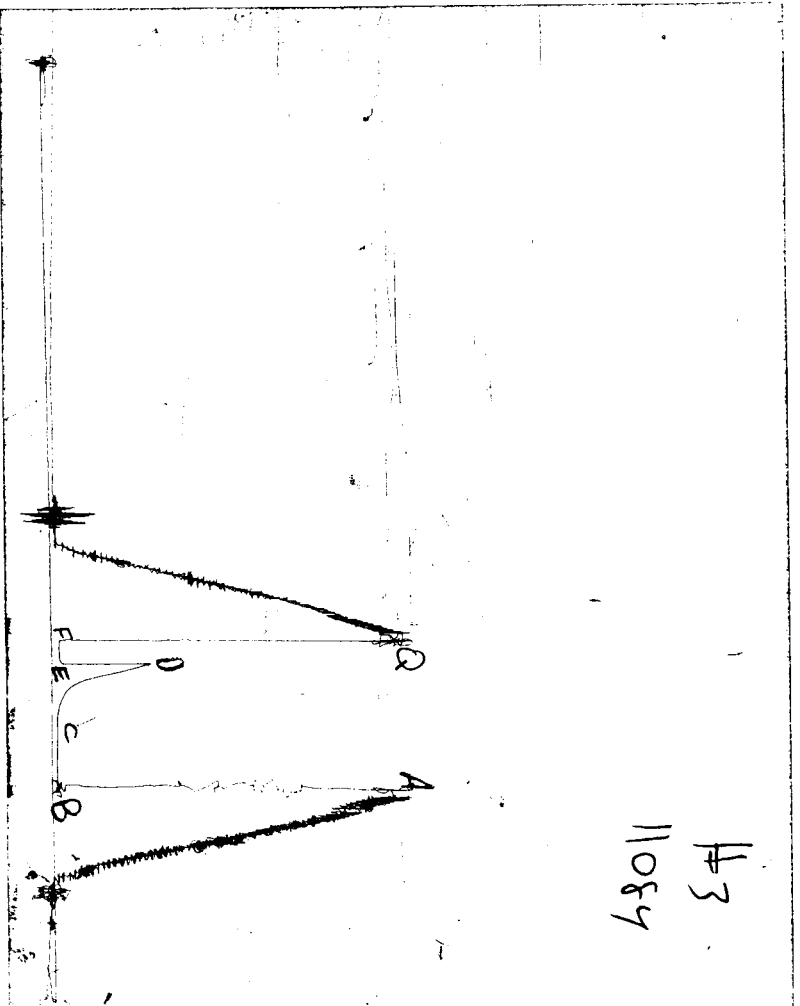
SENT TO:

MUD DATA-----

Mud Type	Chem
Weight	10.20 lb/cf
Vis.	53.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Roger Welty
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Company

DATE 12-11-97

WELL NAME: Vonfeldt #6

KB 1974.00 ft

TICKET NO: 10566

DST #4

LOCATION : 16-15S-17W Ellis Co. KS

GR 1966.00 ft

FORMATION: Arbuckle

INTERVAL : 3545.00 To 3575.00 ft

TD 3575.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084				PF Fr. 0530 to 0600 hr
SI 45 Range(Psi)	4300.0	4300.0	0.0	0.0	0.0	IS Fr. 0600 to 0645 hr
SF 45 Clock(hrs)	12 hr	12 hr				SF Fr. 0645 to 0730 hr
FS 45 Depth(ft)	3548.0	3548.0	0.0	0.0	0.0	FS Fr. 0730 to 0815 hr

	Field	1	2	3	4	
A. Init Hydro	1983.0	2006.0	0.0	0.0	0.0	T STARTED 0428 hr
B. First Flow	11.0	36.0	0.0	0.0	0.0	T ON BOTM 0525 hr
B1. Final Flow	33.0	46.0	0.0	0.0	0.0	T OPEN 0530 hr
C. In Shut-in	970.0	981.0	0.0	0.0	0.0	T PULLED 0815 hr
D. Init Flow	44.0	59.0	0.0	0.0	0.0	T OUT 0922 hr
E. Final Flow	66.0	75.0	0.0	0.0	0.0	
F. Fl Shut-in	905.0	903.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1972.0	1968.0	0.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	i	i				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3528.00 ft

RECOVERY

Tot Fluid 122.00 ft of 0.00 ft in DC and 122.00 ft in DP
 2.00 ft of Slightly Oil specked mud 100%mud
 120.00 ft of Muddy water 100%water
 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 42000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 1/2" blow building to 5 1/2".

Initial Shutin:

Final Flow:

Surface blow building to 2 1/2".

Final Shutin:

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chem
Weight	9.90 lb/c
Vis.	48.00 S/L
W.L.	67.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill 0.00 ft

Btm. H. Temp. 106.00 F

Hole Condition good

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out

Tool Chased

Tester Paul Simpson

Co. Rep. Roger Welty

Contr. Duke

Rig # 4

Unit #

Pump T.

Test Successful: Y

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11084

A hand-drawn geological cross-section of a hill. The profile shows a hill with a peak labeled 'D'. To the left of the peak is a point labeled 'G', and to the right is a point labeled 'A'. Below the surface, there are two layers labeled 'E' and 'C'. A dashed line connects 'G' to 'D'. A solid line connects 'A' to 'D'. The hill is bounded by two vertical lines with cross-ticks at the top and bottom.

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