15-109-20572-0001 2-12s-32w

WELL NAME: Richard Mathers OWWO #1
COMPANY: Wabash Energy Corp
LOCATION: 2-12S-32W
Logan County Kansas
DATE: 07/14/96

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp DATE 7-14-96
WELL NAME: Richard Mathers OWWO #1 KB 3013.00 ft TICKET NO: 9269 DST #1
LOCATION : 2-12S-32W, Logan Cty KS GR 3008.00 ft FORMATION: Morrow
INTERVAL : 4724.00 To 4750.00 ft TD 4840.00 ft TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4
PF 0	Rec.	13276	13276	2350	13339	
SI 0	Range(Psi)	4000.0	4000.0	4995.0	4025.0	0.0
SF 0	Clock(hrs)	12	12	ALPIN	12	
FS 0	Depth(ft)	4727.0	4727.0	4735.0	4835.0	0.0

TIME DATA----------
PF Fr. to hr
IS Fr. to hr
SF Fr. to hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	2219.0	2241.0	2255.0	2335.0	0.0
B. First Flow	0.0	0.0	0.0	0.0	0.0
B1. Final Flow	0.0	0.0	0.0	0.0	0.0
C. In Shut-in	0.0	0.0	0.0	0.0	0.0
D. Init Flow	0.0	0.0	0.0	0.0	0.0
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	2180.0	2204.0	2211.0	2316.0	0.0
Inside/Outside	O	O	I	T	

T STARTED 0409 hr
T ON BOTM 0647 hr
T OPEN 0650 hr
T PULLED 0700 hr
T OUT 0930 hr

RECOVERY
Tot Fluid 745.00 ft of 0.00 ft in DC and 303.00 ft in DP
745.00 ft of Drilling mud

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

BLOW DESCRIPTION
Initial Flow -
Packer failed immediately, tried to reset - no packer seat; tool out of hole

SAMPLES:
SENT TO:

Test Successful: N

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	55000.00 lbs
Initial Str Wt	50000.00 lbs
Unseated Str Wt	53000.00 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	4282.00 ft
H.W. I.D	2.80 in
H.W. Length	442.00 ft

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

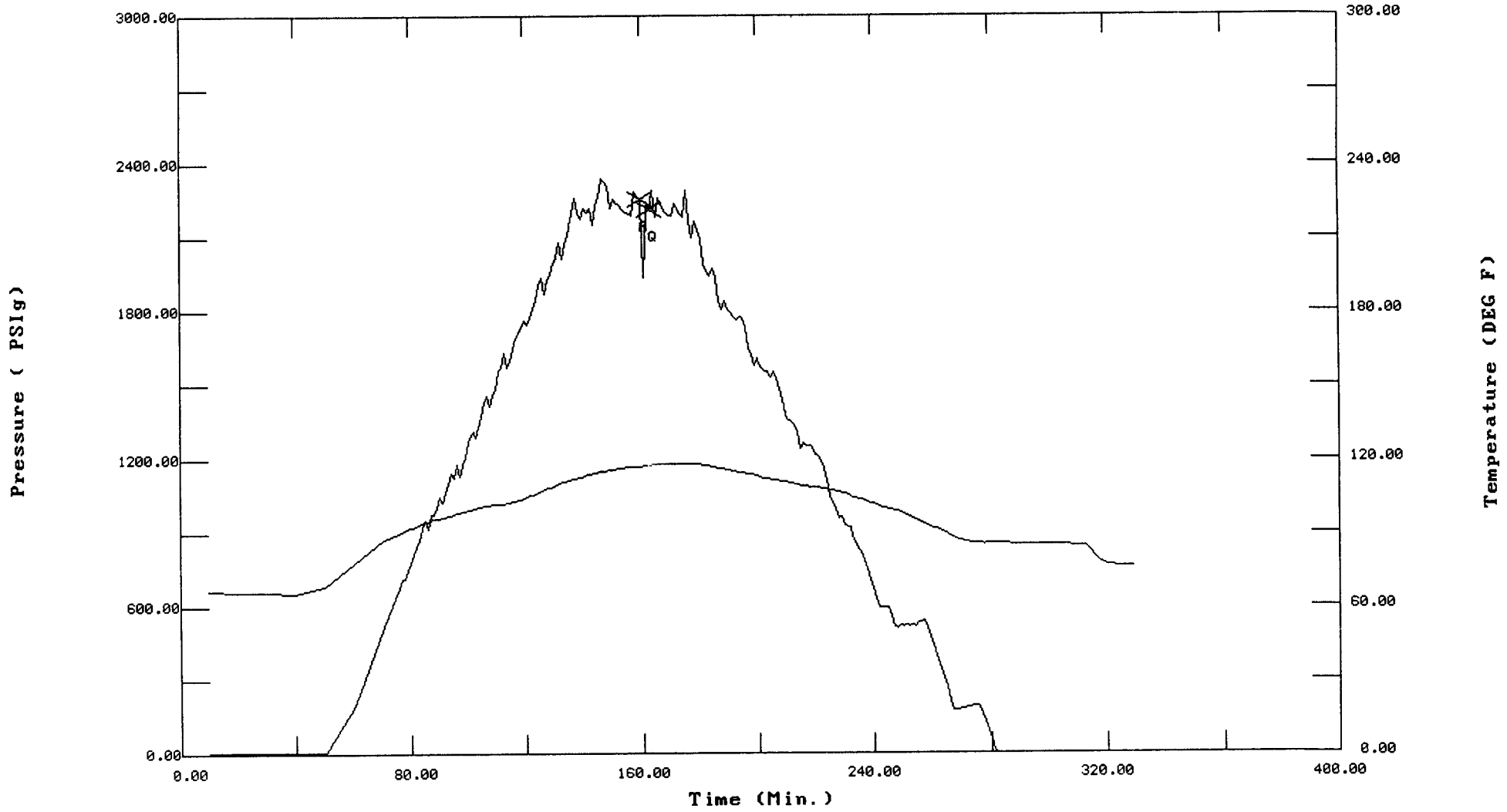
Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	49.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop Y	200.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	GOOD
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	ROD STEINBRINK
Co. Rep.	LARRY WHITMER
Contr.	ABERCROMBIE
Rig #	8
Unit #	
Pump T.	

TEST HISTORY

9269 DST #1 R.MATHERS OWWO #1 WABASH

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2255.13
Q:	0.00	2211.83



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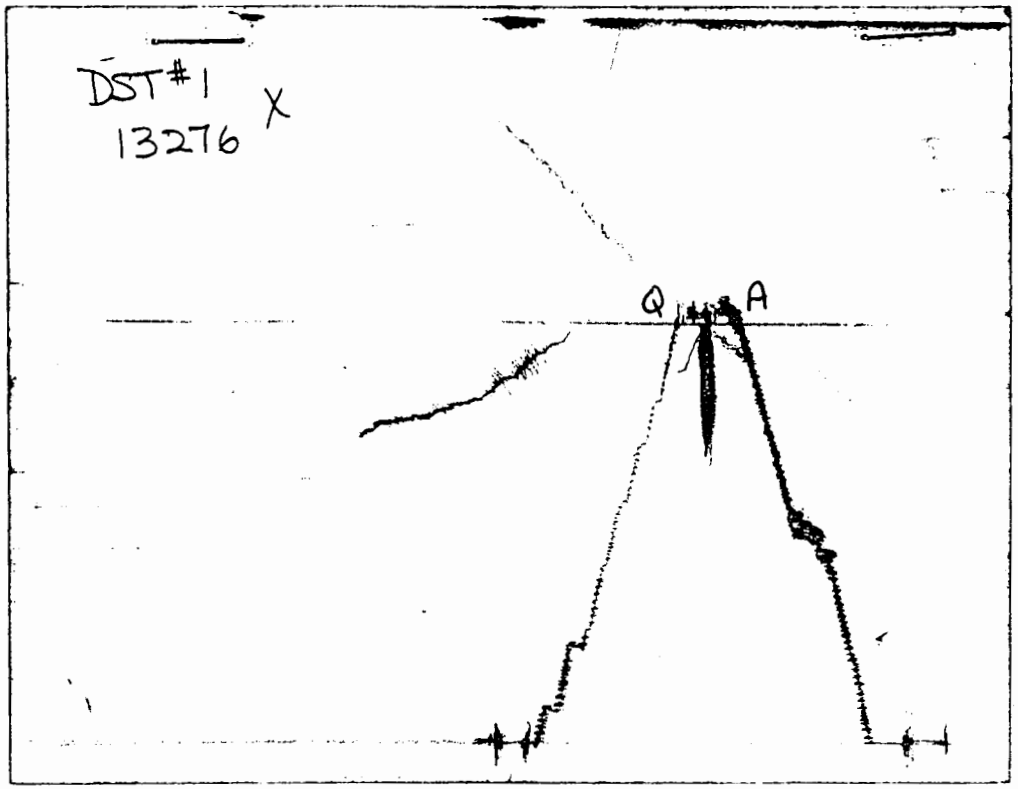

This is a photocopy of the actual AK-1 recorder chart

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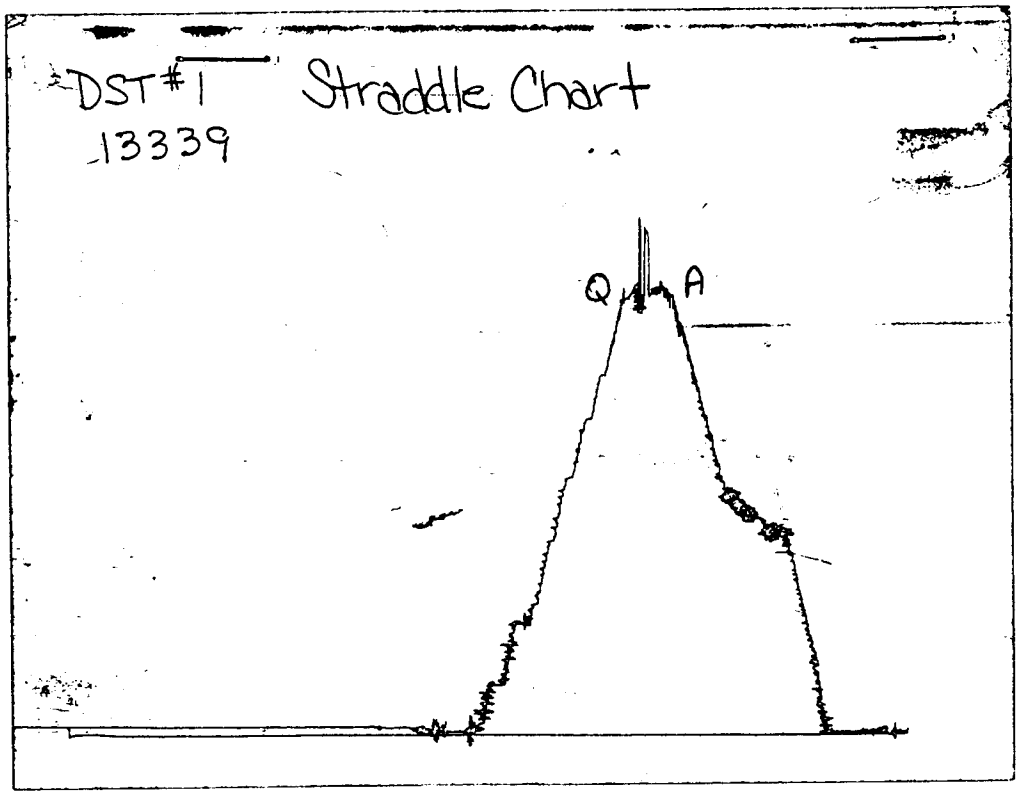


This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9269 DST #1 R.MATHERS OWWO #1 WABASH

DATE: 07/14/96 TIME: 04:09:25

		Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
******	Initial Hydro.	160.00	2255.1	0.0	117.20		
******	Start Flow 1	0.00	2211.8	0.0	117.72		
******	End Flow 1	1.00	2292.9	81.1	117.87		
******	End Shut-in 1	165.00	2292.9	0.0	117.87	0.0061	5.257
******	Final Hydro.	164.00	2292.9	0.0	117.87		

*** TOOL DIAGRAM *** CONV. STRADDLE

ELL NAME: Richard Mathers OWWO #1

OCATION : 2-12S-32W, Logan Cty KS

ICKET No. 9269 D.S.T. No. 1 DATE 7-14-96

OTAL TOOL TO BOTTOM OF TOP PACKERS 15

NTERVAL TOOL 26

OTTOM PACKERS AND ANCHOR 90

OTAL TOOL 131

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands Single Total

OTAL ASSEMBLY 131

.C. ABOVE TOOLS.Stands Single Total

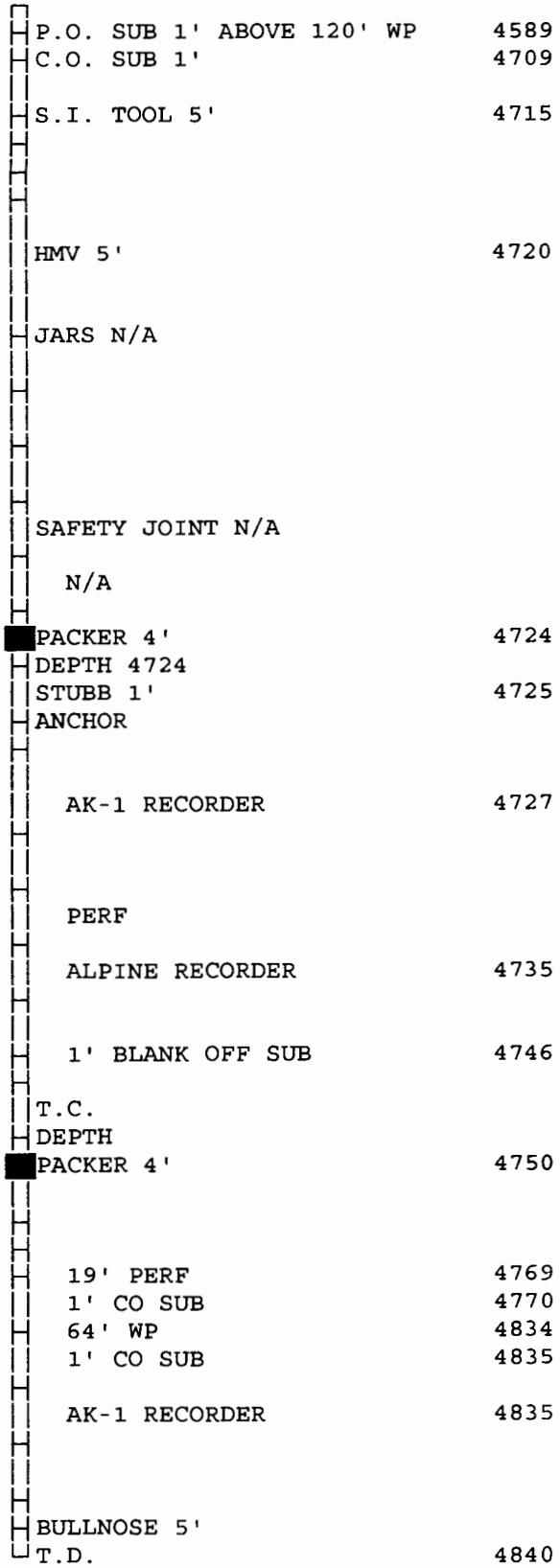
.P. ABOVE TOOLS.Stands76 Single 1 Total 4724

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4855

OTAL DEPTH 4840

OTAL DRILL PIPE ABOVE K.B. 15

EMARKS:



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 9269

Well Name & No. Richard Mathers OWWO #1 Test No. 1 Date 7-14-96

Company Wabash Energy Corporation Zone Tested Morrow

Address P.O. Box 595 Lawenceville, IL. 62439 Elevation 3013 KB 3008 GL

Co. Rep / Geo. Larry Whitmer Cont. Abercrombie #8 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 2 Twp. 12S Rge. 32W Co. Logan State KS

No. of Copies Nml. Distribution Sheet (Y, N) N Turnkey (Y(N) N Evaluation (Y, N) ___

Interval Tested 4724 - 4750 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 53,000

Anchor Length 26' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 55,000

Top Packer Depth 4724 Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Bottom Packer Depth 4750 Wt. Pipe I.D. — 2.7 Ft. Run 4½" XH 442'

Total Depth (LTD) 4840 Drill Collar — 2.25 Ft. Run —

Mud Wt. 49 LCM ___ Vis. 8.9 WL 9.6 Drill Pipe Size 4½" XH Ft. Run 4282'

Blow Description Packers failed immediately Tried to reset - no packer seat. TOH w/ Tool

Recovery — Total Feet 745' Ft. in DC — Ft. in WP 442' Ft. in DP 302'

Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. 745'	Feet Of Drlg. Mud	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT 118° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 15,000 ppm System

(A) Initial Hydrostatic Mud	2255	2219	PSI	Recorder No.	2350	T-Started	0409
(B) First Initial Flow Pressure	___	___	PSI	@ (depth)	4735	T-Open	0650
(C) First Final Flow Pressure	___	___	PSI	Recorder No.	13276	T-Pulled	0700
(D) Initial Shut-in Pressure	___	___	PSI	@ (depth)	4727	T-Out	0930
(E) Second Initial Flow Pressure	___	___	PSI	Recorder No.	13339		
(F) Second Final Flow Pressure	___	___	PSI	@ (depth)	4835		
(G) Final Shut-in Pressure	___	___	PSI	Initial Opening	___	Test	600
(H) Final Hydrostatic Mud	2211 Alp.	2180 Ak 1	PSI	Initial Shut-in	___	Jars	___
				Final Flow	___	Safety Joint	___
				Final Shut-in	___	Straddle	X 250
						Circ. Sub	X N/C
						Sampler	___
						Extra Packer	___
						Elect. Rec.	X 150
						Other	___
						TOTAL PRICE $	1000

Approved By E.L. Whitmer

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

OPERATOR : Wabash Energy Corp DATE 7-14-96
WELL NAME: Richard Mathers OWWO #1 KB 30130.00 ft TICKET NO: 9270 DST #2
LOCATION : 2-12S-32W, Logan Cty KS GR 3008.00 ft FORMATION: Morrow
INTERVAL : 4613.00 To 4750.00 ft TD 4840.00 ft TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13276	2350	13339		
SI 60	Range(Psi)	4000.0	4995.0	4025.0	0.0	0.0
SF 60	Clock(hrs)	12	Alpin	12		
FS 90	Depth(ft)	4740.0	4618.0	4835.0	0.0	0.0

TIME DATA----------
PF Fr. 1200 to 1230 hr
IS Fr. 1230 to 1330 hr
SF Fr. 1330 to 1430 hr
FS Fr. 1430 to 1600 hr

	Field	1	2	3	4
A. Init Hydro	0.0	2182.0	2347.0	0.0	0.0
B. First Flow	0.0	245.0	0.0	0.0	0.0
B1. Final Flow	0.0	697.0	0.0	0.0	0.0
C. In Shut-in	0.0	989.0	0.0	0.0	0.0
D. Init Flow	0.0	696.0	0.0	0.0	0.0
E. Final Flow	0.0	878.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	1097.0	0.0	0.0	0.0
G. Final Hydro	0.0	2122.0	2284.0	0.0	0.0
Inside/Outside	O	I	T		

T STARTED 1011 hr
T ON BOTM 1157 hr
T OPEN 1200 hr
T PULLED 1600 hr
T OUT 1830 hr

RECOVERY
Tot Fluid 1985.00 ft of 0.00 ft in DC and 1671.00 ft in DP
300.00 ft of Muddy water - 50% mud, 50% water
1685.00 ft of Salt water - 100% water

RW .19 @ 86 F
SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION
Initial Flow -
Strong blow off bottom in 1 min

Initial Shutin -
Bled off blow, no return

Final Flow -

decreased to 5" blow at final

Final Shutin -
Bled off blow, no return

SAMPLES:
SENT TO:

Test Successful: Y

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	50000.00 lbs
Unseated Str Wt	64000.00 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	4313.00 ft
H.W. I.D	2.80 in
H.W. Length	313.00 ft

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

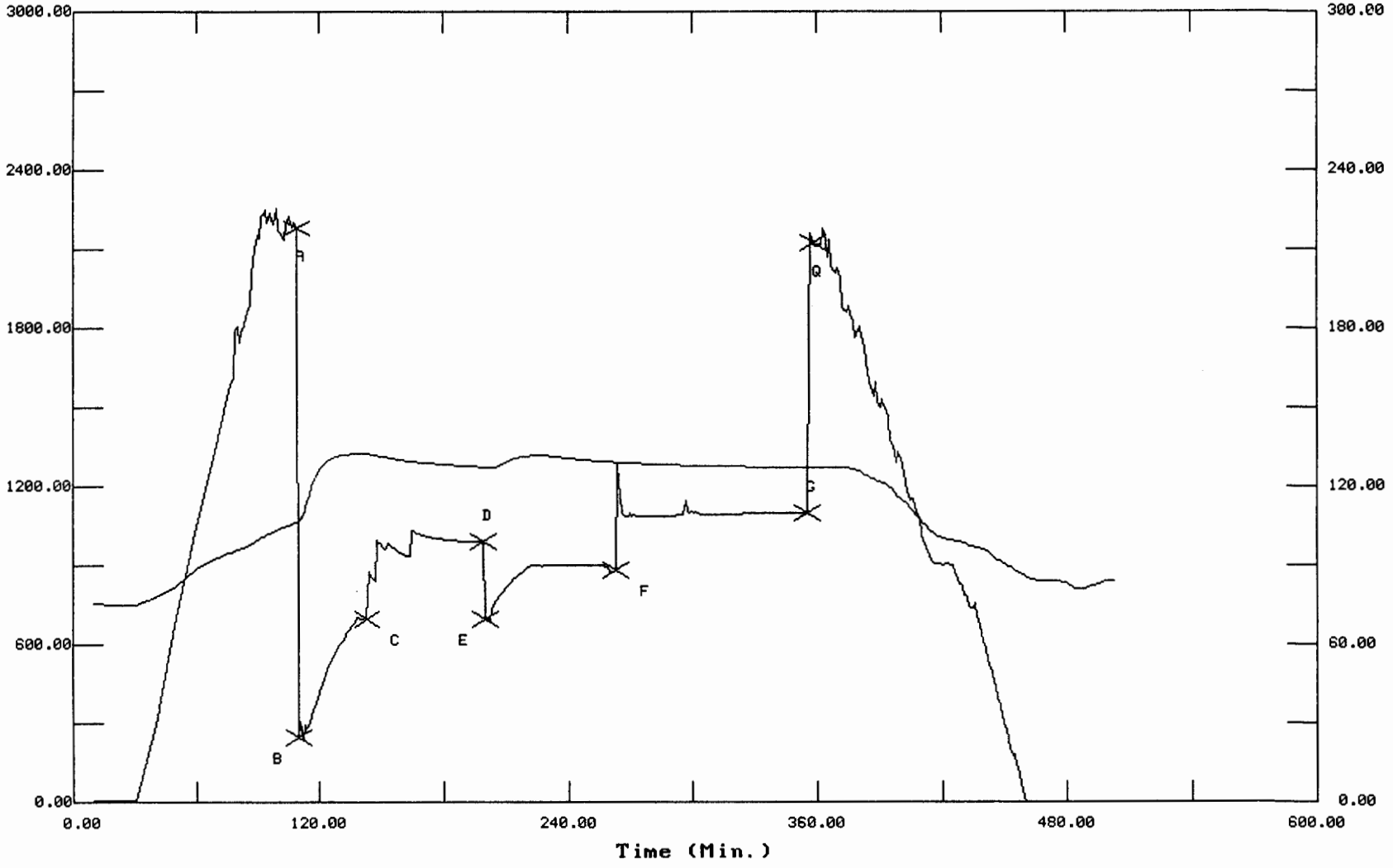
Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	49.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop Y	120.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	132.00 F
Hole Condition	GOOD
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out	Y
Tool Chased	N
Tester	ROD STEINBRINK
Co. Rep.	LARRY WHITMER
Contr.	ABERCROMBIE
Rig #	8
Unit #	
Pump T.	

TEST HISTORY

9270 DST #2 R.MATHERS OWWO #1 WABASH

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2181.53
B:	0.00	244.56
C:	33.00	696.76
D:	56.00	988.75
E:	0.00	696.42
F:	63.00	878.04
G:	92.00	1096.91
Q:	0.00	2122.19



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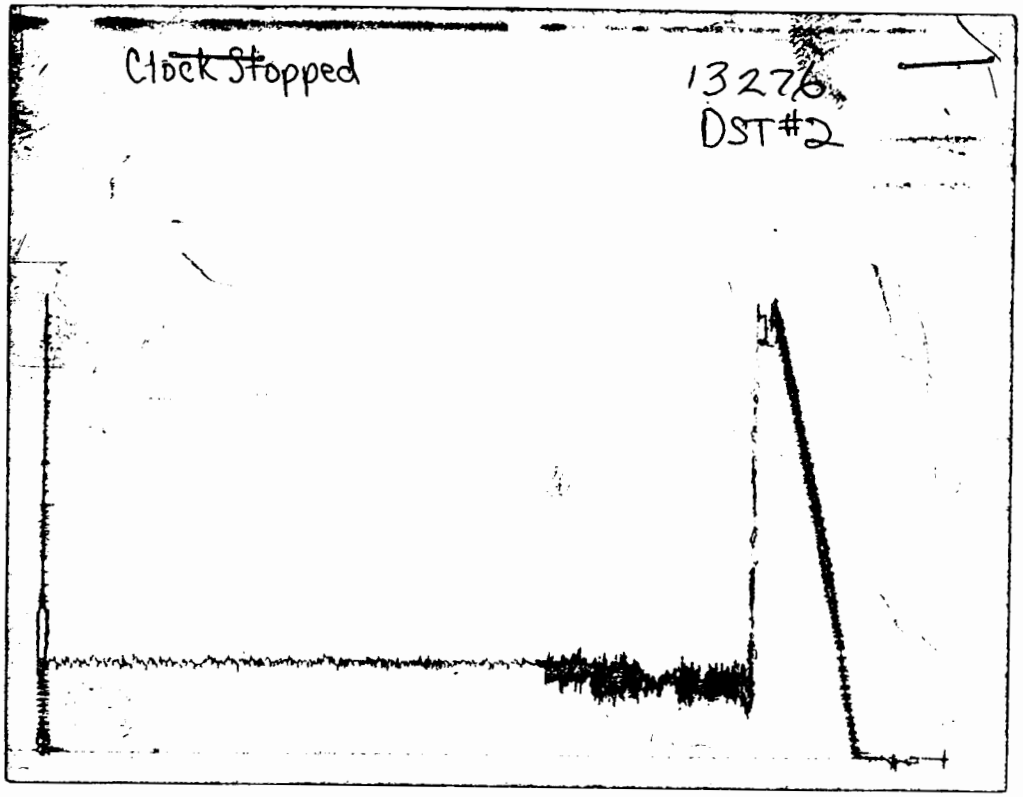

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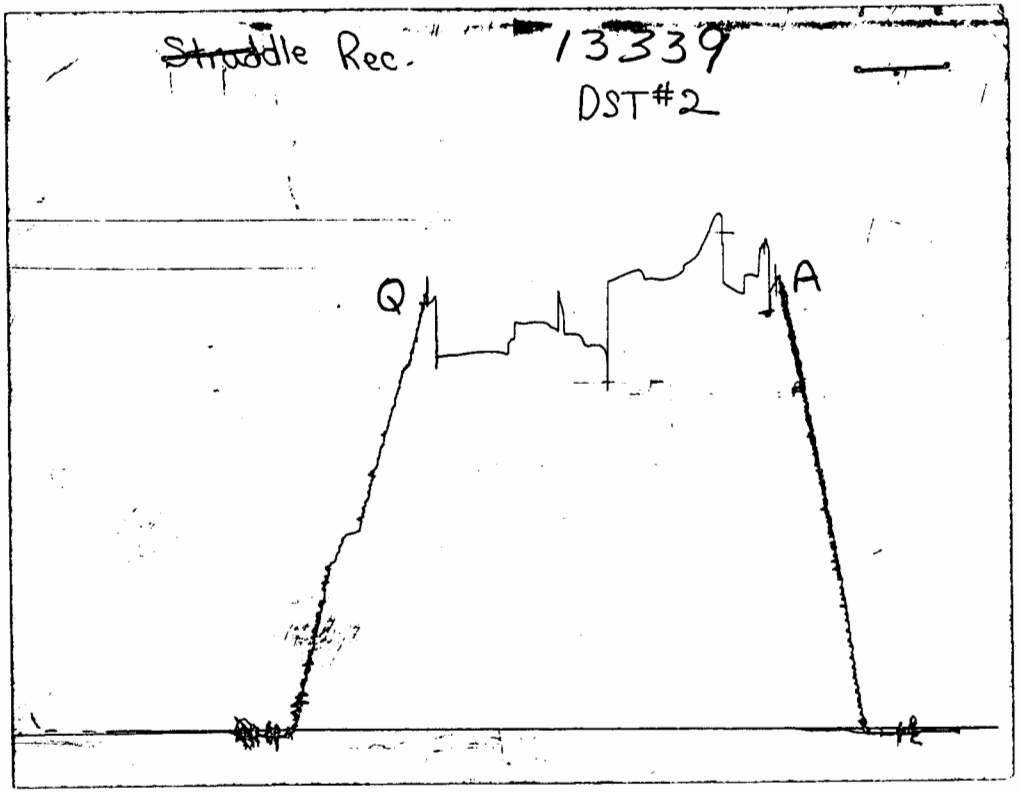


This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9270 DST #2 R.MATHERS OWWO #1 WABASH

DATE: 07/14/96 TIME: 10:11:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	109.00	2181.5	0.0	106.38		
****** Start Flow 1	0.00	244.6	0.0	106.68		
	1.00	302.5	57.9	107.31		
	2.00	238.3	-6.3	109.07		
	3.00	294.0	49.4	111.58		
	4.00	278.5	34.0	114.42		
	5.00	301.6	57.1	117.17		
	6.00	325.8	81.2	119.65		
	7.00	351.6	107.0	121.79		
	8.00	375.4	130.8	123.61		
	9.00	396.0	151.4	125.14		
	10.00	420.2	175.7	126.44		
	11.00	445.6	201.0	127.51		
	12.00	466.7	222.2	128.41		
	13.00	486.9	242.4	129.14		
	14.00	505.7	261.2	129.74		
	15.00	524.5	279.9	130.22		
	16.00	541.6	297.0	130.62		
	17.00	558.4	313.9	130.97		
	18.00	575.1	330.5	131.26		
	19.00	590.8	346.2	131.50		
	20.00	597.7	353.2	131.71		
	21.00	610.2	365.7	131.89		
	22.00	618.5	374.0	132.03		
	23.00	642.5	398.0	132.15		
	24.00	655.5	410.9	132.23		
	25.00	662.1	417.5	132.30		
	26.00	669.8	425.3	132.35		
	27.00	682.7	438.1	132.41		
	28.00	700.7	456.1	132.43		
	29.00	698.9	454.3	132.45		
	30.00	696.2	451.6	132.44		
	31.00	696.1	451.5	132.42		
	32.00	699.5	455.0	132.39		
****** End Flow 1	33.00	696.8	452.2	132.33		
****** Start Shutin 1	0.00	696.8	0.0	132.33	0.0000	0.485
	1.00	877.3	180.5	132.25	34.0000	0.770
	2.00	862.3	165.5	132.13	17.5000	0.744
	3.00	850.2	153.4	132.02	12.0000	0.723
	4.00	838.7	141.9	131.89	9.2500	0.703
	5.00	996.5	299.7	131.76	7.6000	0.993
	6.00	985.3	288.5	131.62	6.5000	0.971
	7.00	975.5	278.7	131.47	5.7143	0.952
	8.00	966.6	269.8	131.32	5.1250	0.934
	9.00	958.5	261.8	131.17	4.6667	0.919
	10.00	984.2	287.5	131.01	4.3000	0.969
	11.00	975.3	278.6	130.85	4.0000	0.951
	12.00	968.5	271.8	130.70	3.7500	0.938
	13.00	961.9	265.1	130.56	3.5385	0.925
	14.00	956.3	259.5	130.41	3.3571	0.914
	15.00	951.1	254.4	130.29	3.2000	0.905

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9270 DST #2 R.MATHERS OWWO #1 WABASH

DATE: 07/14/96 TIME: 10:11:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	16.00	947.1	250.4	130.16	3.0625	0.897
	17.00	943.3	246.6	130.05	2.9412	0.890
	18.00	940.5	243.7	129.93	2.8333	0.885
	19.00	937.5	240.8	129.81	2.7368	0.879
	20.00	934.8	238.0	129.71	2.6500	0.874
	21.00	932.0	235.2	129.60	2.5714	0.869
	22.00	1028.7	331.9	129.50	2.5000	1.058
	23.00	1024.5	327.7	129.38	2.4348	1.050
	24.00	1021.1	324.4	129.31	2.3750	1.043
	25.00	1018.1	321.4	129.22	2.3200	1.037
	26.00	1015.9	319.2	129.13	2.2692	1.032
	27.00	1013.4	316.7	129.05	2.2222	1.027
	28.00	1011.2	314.5	128.98	2.1786	1.023
	29.00	1009.1	312.3	128.88	2.1379	1.018
	30.00	1007.0	310.2	128.83	2.1000	1.014
	31.00	1005.2	308.4	128.75	2.0645	1.010
	32.00	1003.8	307.0	128.69	2.0312	1.008
	33.00	1002.2	305.4	128.61	2.0000	1.004
	34.00	1000.7	304.0	128.52	1.9706	1.001
	35.00	999.6	302.8	128.46	1.9429	0.999
	36.00	998.1	301.4	128.39	1.9167	0.996
	37.00	996.8	300.0	128.32	1.8919	0.994
	38.00	995.8	299.0	128.26	1.8684	0.992
	39.00	994.9	298.1	128.19	1.8462	0.990
	40.00	993.9	297.2	128.13	1.8250	0.988
	41.00	993.4	296.6	128.07	1.8049	0.987
	42.00	992.9	296.1	128.01	1.7857	0.986
	43.00	992.4	295.6	127.96	1.7674	0.985
	44.00	991.8	295.0	127.90	1.7500	0.984
	45.00	991.3	294.5	127.84	1.7333	0.983
	46.00	990.8	294.1	127.79	1.7174	0.982
	47.00	990.4	293.7	127.74	1.7021	0.981
	48.00	990.2	293.4	127.69	1.6875	0.980
	49.00	989.8	293.1	127.65	1.6735	0.980
	50.00	989.3	292.6	127.59	1.6600	0.979
	51.00	989.5	292.7	127.54	1.6471	0.979
	52.00	989.3	292.6	127.49	1.6346	0.979
	53.00	989.2	292.4	127.45	1.6226	0.978
	54.00	988.9	292.2	127.41	1.6111	0.978
	55.00	988.7	291.9	127.36	1.6000	0.977
****** End Shut-in 1	56.00	988.7	292.0	127.32	1.5893	0.978
****** Start Flow 2	0.00	696.4	0.0	127.27		
	1.00	694.8	-1.6	127.21		
	2.00	683.4	-13.0	127.16		
	3.00	739.6	43.1	127.11		
	4.00	751.1	54.6	127.14		
	5.00	766.6	70.2	127.24		
	6.00	776.1	79.6	127.54		
	7.00	787.2	90.8	127.95		
	8.00	796.8	100.4	128.33		
	9.00	806.0	109.6	128.72		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9270 DST #2 R.MATHERS OWWO #1 WABASH

DATE: 07/14/96 TIME: 10:11:49

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
10.00	815.5	119.1	129.11		
11.00	824.2	127.8	129.51		
12.00	834.1	137.6	129.87		
13.00	842.7	146.3	130.21		
14.00	851.1	154.7	130.50		
15.00	858.4	162.0	130.74		
16.00	865.6	169.2	130.94		
17.00	869.9	173.5	131.14		
18.00	874.4	178.0	131.28		
19.00	880.4	184.0	131.42		
20.00	886.4	190.0	131.52		
21.00	892.1	195.6	131.61		
22.00	897.5	201.1	131.68		
23.00	896.3	199.8	131.73		
24.00	896.3	199.8	131.77		
25.00	896.0	199.6	131.80		
26.00	896.4	200.0	131.81		
27.00	892.6	196.2	131.80		
28.00	896.4	200.0	131.77		
29.00	896.6	200.2	131.71		
30.00	896.5	200.0	131.65		
31.00	896.5	200.0	131.57		
32.00	896.5	200.0	131.48		
33.00	896.5	200.0	131.38		
34.00	896.6	200.1	131.29		
35.00	896.6	200.1	131.21		
36.00	896.6	200.1	131.10		
37.00	896.6	200.1	131.00		
38.00	896.4	200.0	130.90		
39.00	896.3	199.9	130.82		
40.00	896.3	199.9	130.72		
41.00	896.2	199.8	130.63		
42.00	896.2	199.8	130.54		
43.00	896.2	199.8	130.46		
44.00	896.2	199.8	130.37		
45.00	896.1	199.7	130.29		
46.00	896.1	199.7	130.21		
47.00	896.1	199.6	130.15		
48.00	896.1	199.6	130.07		
49.00	896.1	199.6	129.99		
50.00	896.1	199.6	129.91		
51.00	896.1	199.6	129.84		
52.00	895.9	199.5	129.78		
53.00	895.9	199.5	129.71		
54.00	895.9	199.5	129.63		
55.00	895.9	199.5	129.58		
56.00	895.8	199.4	129.52		
57.00	895.8	199.4	129.45		
58.00	895.7	199.2	129.39		
59.00	895.8	199.3	129.35		
60.00	877.7	181.3	129.29		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9270 DST #2 R.MATHERS OWWO #1 WABASH

DATE: 07/14/96 TIME: 10:11:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	61.00	877.1	180.7	129.23		
	62.00	877.0	180.6	129.18		
***** End Flow 2	63.00	878.0	181.6	129.13		
***** Start Shutin 2	0.00	878.0	0.0	129.13	0.0000	0.771
	1.00	1284.2	406.1	129.09	97.0000	1.649
	2.00	1157.6	279.6	129.05	49.0000	1.340
	3.00	1105.0	226.9	129.03	33.0000	1.221
	4.00	1089.8	211.7	128.99	25.0000	1.188
	5.00	1085.4	207.4	128.95	20.2000	1.178
	6.00	1084.5	206.5	128.91	17.0000	1.176
	7.00	1097.9	219.9	128.89	14.7143	1.205
	8.00	1087.8	209.7	128.85	13.0000	1.183
	9.00	1093.1	215.0	128.79	11.6667	1.195
	10.00	1086.2	208.1	128.75	10.6000	1.180
	11.00	1085.1	207.0	128.70	9.7273	1.177
	12.00	1084.9	206.9	128.68	9.0000	1.177
	13.00	1084.8	206.8	128.63	8.3846	1.177
	14.00	1085.1	207.0	128.60	7.8571	1.177
	15.00	1085.3	207.2	128.55	7.4000	1.178
	16.00	1085.3	207.2	128.52	7.0000	1.178
	17.00	1085.4	207.4	128.48	6.6471	1.178
	18.00	1085.8	207.8	128.43	6.3333	1.179
	19.00	1086.0	208.0	128.40	6.0526	1.179
	20.00	1086.2	208.1	128.37	5.8000	1.180
	21.00	1086.4	208.4	128.32	5.5714	1.180
	22.00	1086.7	208.6	128.29	5.3636	1.181
	23.00	1086.8	208.7	128.26	5.1739	1.181
	24.00	1086.9	208.9	128.23	5.0000	1.181
	25.00	1087.3	209.2	128.21	4.8400	1.182
	26.00	1087.4	209.4	128.18	4.6923	1.183
	27.00	1087.6	209.6	128.15	4.5556	1.183
	28.00	1087.8	209.7	128.12	4.4286	1.183
	29.00	1087.9	209.9	128.10	4.3103	1.184
	30.00	1088.1	210.1	128.07	4.2000	1.184
	31.00	1088.4	210.3	128.05	4.0968	1.185
	32.00	1088.6	210.6	128.02	4.0000	1.185
	33.00	1088.9	210.8	128.01	3.9091	1.186
	34.00	1145.9	267.9	127.98	3.8235	1.313
	35.00	1106.5	228.5	127.95	3.7429	1.224
	36.00	1095.9	217.9	127.93	3.6667	1.201
	37.00	1101.9	223.8	127.92	3.5946	1.214
	38.00	1094.6	216.5	127.90	3.5263	1.198
	39.00	1101.0	223.0	127.87	3.4615	1.212
	40.00	1094.6	216.5	127.87	3.4000	1.198
	41.00	1093.0	214.9	127.82	3.3415	1.195
	42.00	1092.6	214.5	127.80	3.2857	1.194
	43.00	1092.2	214.2	127.79	3.2326	1.193
	44.00	1092.3	214.3	127.77	3.1818	1.193
	45.00	1092.4	214.4	127.76	3.1333	1.193
	46.00	1092.4	214.4	127.73	3.0870	1.193
	47.00	1092.5	214.5	127.71	3.0426	1.194

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9270 DST #2 R.MATHERS OWWO #1 WABASH

DATE: 07/14/96 TIME: 10:11:49

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	48.00	1092.5	214.5	127.69	3.0000	1.194
	49.00	1092.6	214.6	127.68	2.9592	1.194
	50.00	1092.7	214.7	127.66	2.9200	1.194
	51.00	1092.8	214.8	127.64	2.8824	1.194
	52.00	1092.9	214.9	127.60	2.8462	1.194
	53.00	1093.0	214.9	127.57	2.8113	1.195
	54.00	1093.1	215.0	127.57	2.7778	1.195
	55.00	1093.2	215.2	127.54	2.7455	1.195
	56.00	1093.4	215.4	127.53	2.7143	1.196
	57.00	1093.5	215.4	127.51	2.6842	1.196
	58.00	1093.6	215.5	127.49	2.6552	1.196
	59.00	1093.7	215.7	127.47	2.6271	1.196
	60.00	1093.8	215.8	127.46	2.6000	1.196
	61.00	1094.0	215.9	127.46	2.5738	1.197
	62.00	1094.2	216.1	127.44	2.5484	1.197
	63.00	1094.2	216.2	127.43	2.5238	1.197
	64.00	1094.3	216.3	127.42	2.5000	1.198
	65.00	1094.4	216.3	127.40	2.4769	1.198
	66.00	1094.4	216.3	127.39	2.4545	1.198
	67.00	1094.6	216.5	127.38	2.4328	1.198
	68.00	1094.7	216.6	127.36	2.4118	1.198
	69.00	1094.7	216.7	127.34	2.3913	1.198
	70.00	1094.9	216.9	127.33	2.3714	1.199
	71.00	1095.1	217.0	127.32	2.3521	1.199
	72.00	1095.1	217.0	127.31	2.3333	1.199
	73.00	1095.1	217.0	127.30	2.3151	1.199
	74.00	1095.2	217.2	127.29	2.2973	1.200
	75.00	1095.3	217.3	127.27	2.2800	1.200
	76.00	1095.5	217.5	127.27	2.2632	1.200
	77.00	1095.6	217.5	127.26	2.2468	1.200
	78.00	1095.7	217.7	127.25	2.2308	1.201
	79.00	1095.8	217.8	127.24	2.2152	1.201
	80.00	1095.8	217.8	127.23	2.2000	1.201
	81.00	1095.8	217.8	127.21	2.1852	1.201
	82.00	1096.1	218.0	127.21	2.1707	1.201
	83.00	1096.2	218.1	127.20	2.1566	1.202
	84.00	1096.3	218.2	127.19	2.1429	1.202
	85.00	1096.3	218.2	127.18	2.1294	1.202
	86.00	1096.4	218.4	127.17	2.1163	1.202
	87.00	1096.6	218.5	127.16	2.1034	1.203
	88.00	1096.5	218.5	127.16	2.0909	1.202
	89.00	1096.7	218.6	127.14	2.0787	1.203
	90.00	1096.8	218.8	127.13	2.0667	1.203
	91.00	1096.8	218.8	127.13	2.0549	1.203
****** End Shut-in 2	92.00	1096.9	218.9	127.11	2.0435	1.203
****** Final Hydro.	358.00	2122.2	0.0	127.09		

*** TOOL DIAGRAM *** CONV. STRADDLE

ELL NAME: Richard Mathers OWWO #1

OCATION : 2-12S-32W, Logan Cty KS

ICKET No. 9270 D.S.T. No. 2 DATE 7-14-96

OTAL TOOL TO BOTTOM OF TOP PACKERS 20

NTERVAL TOOL 13

OTTOM PACKERS AND ANCHOR 90

OTAL TOOL 123

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands 2 Single Total 124

OTAL ASSEMBLY 247

.C. ABOVE TOOLS.Stands Single Total

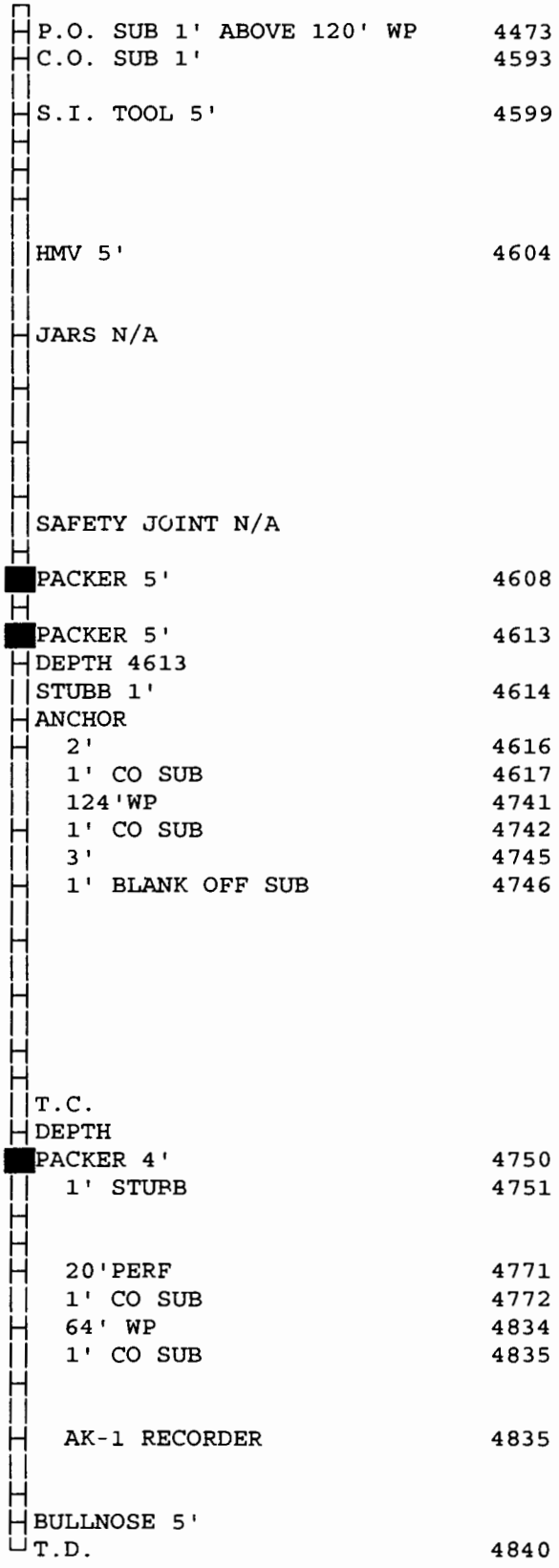
.P. ABOVE TOOLS.Stands75 Single Total 4626

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4873

OTAL DEPTH 4840

OTAL DRILL PIPE ABOVE K.B. 33

EMARKS:



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 9270

Well Name & No. Richard Mathers OWWO #1 Test No. 2 Date 7-14-96

Company Wabash Energy Corporation Zone Tested Morrow

Address P.O. Box 595 Lawerenceville IL 62439 Elevation 3013 KB 3008 GL

Co. Rep / Geo. Larry Whitmer Cont. Abercrombie #8 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 2 Twp. 12S Rge. 32W Co. Logan State KS.

No. of Copies Nml Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) ___

Interval Tested 4613 - 4750 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 64,000

Anchor Length 137' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000

Top Packer Depth 4608 - 4613 Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Bottom Packer Depth 4750 Wt. Pipe I.D. — 2.7 Ft. Run 4½" XH 4313'

Total Depth OWWO (LTD) 4840 Drill Collar — 2.25 Ft. Run ___ —

Mud Wt. 8.9 LCM ___ Vis. 49 WL 9.6 Drill Pipe Size 4½" XH Ft. Run 313'

Blow Description IF: Strong blow off bttm 1 min.
ISI: Bled off blow - no return
FF: Surface to Strong off bttm in 4 mins decreased to 5" blow @ final. FSI: Bled off blow - no return.

Recovery — Total Feet 1935' Ft. in DC — Ft. in WP 313' Ft. in DP 1671'

			%gas	%oil	%water	%mud
Rec.	Feet Of					
Rec. 300'	Feet Of MW				50	50
Rec.	Feet Of					
Rec. 1635'	Feet Of SW				100	
Rec.	Feet Of					

BHT 132° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW .19 @ 86° °F Chlorides 55,000 ppm Recovery Chlorides 15,000 ppm System

(A) Initial Hydrostatic Mud	2181	Clock	PSI	Recorder No. 13276	T-Started 1011
(B) First Initial Flow Pressure	244	Stopped	PSI	@ (depth) 4740	T-Open 1200
(C) First Final Flow Pressure	696		PSI	Recorder No. 2350	T-Pulled 1600
(D) Initial Shut-in Pressure	988		PSI	@ (depth) ~~4710~~ 4618	T-Out 1830
(E) Second Initial Flow Pressure	683		PSI	Recorder No. 13339	
(F) Second Final Flow Pressure	895		PSI	@ (depth) 4835	
(G) Final Shut-in Pressure	1096		PSI	Initial Opening 30	Test 600
(H) Final Hydrostatic Mud	2122		PSI	Initial Shut-in 60	Jars ___
	Alp	AK-1		Final Flow 60	Safety Joint ___
				Final Shut-in 90	Straddle X 250
				___	Circ. Sub X 35.00
				___	Sampler ___
					Extra Packer X 150
					Elect. Rec. X 150
					Other ___
					TOTAL PRICE $ 1185

Approved By ___

Our Representative Rod Steinbrink