

KCC

MAR 29

ORIGINAL

CONFIDENTIAL

Well Name:

WADE ALLEN #1-36

Company:

AMOCO PRODUCTION COMPANY

Location - Sec:

36

Twp: 29S

Rge: 40W

County:

STANTON

State: KS

Date:

12/14/95

15-187-20805

RELEASED

APR 6 1998

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Prod. Co.
 WELL NAME: Wade Allen #1-36
 LOCATION : 36-29S-40W, Stanton KS
 INTERVAL : 4390.00 To 4422.00 ft

DATE 12/12/95

KB 3253.00 ft TICKET NO: 8619 DST #1
 GR 3241.00 ft FORMATION: Marmaton
 TD 4422.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	11038	11038	2350			PF Fr. 2330 to 2340 hr
SI 60 Range(Psi)	5075.0	5075.0	4995.0	0.0	0.0	IS Fr. 2340 to 2440 hr
SF 120 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 2440 to 0240 hr
FS 120 Depth(ft)	4419.0	4419.0	4399.0	0.0	0.0	FS Fr. 0240 to 0440 hr

	Field	1	2	3	4	
A. Init Hydro	2195.0	2183.0	2157.0	0.0	0.0	T STARTED 2100 hr
B. First Flow	41.0	34.0	28.0	0.0	0.0	T ON BOTM 2328 hr
B1. Final Flow	41.0	39.0	48.0	0.0	0.0	T OPEN 2330 hr
C. In Shut-in	1209.0	1192.0	1201.0	0.0	0.0	T PULLED 0440 hr
D. Init Flow	82.0	71.0	53.0	0.0	0.0	T OUT 0730 hr
E. Final Flow	217.0	201.0	219.0	0.0	0.0	
F. Fl Shut-in	1172.0	1165.0	1183.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2157.0	2142.0	2077.0	0.0	0.0	Tool Wt. 18000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 110000.00 lbs
						Initial Str Wt 90000.00 lbs
						Unseated Str Wt 95000.00 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 655.00 ft
						D.P. Length 3720.00 ft

RECOVERY

Tot Fluid 415.00 ft of 415.00 ft in DC and 0.00 ft in DP
 415.00 ft of Salt water

RW .149 @ 70 F

SALINITY 53000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
 Weak blow, built to 2"

Final Flow -
 Weak blow, built to 6"

SAMPLES: No
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	50.00 S/L
W.L.	10.10 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 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	TOM HORACEK
Co. Rep.	SAM CARMACK
Contr.	Cheyenne Drlg.
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

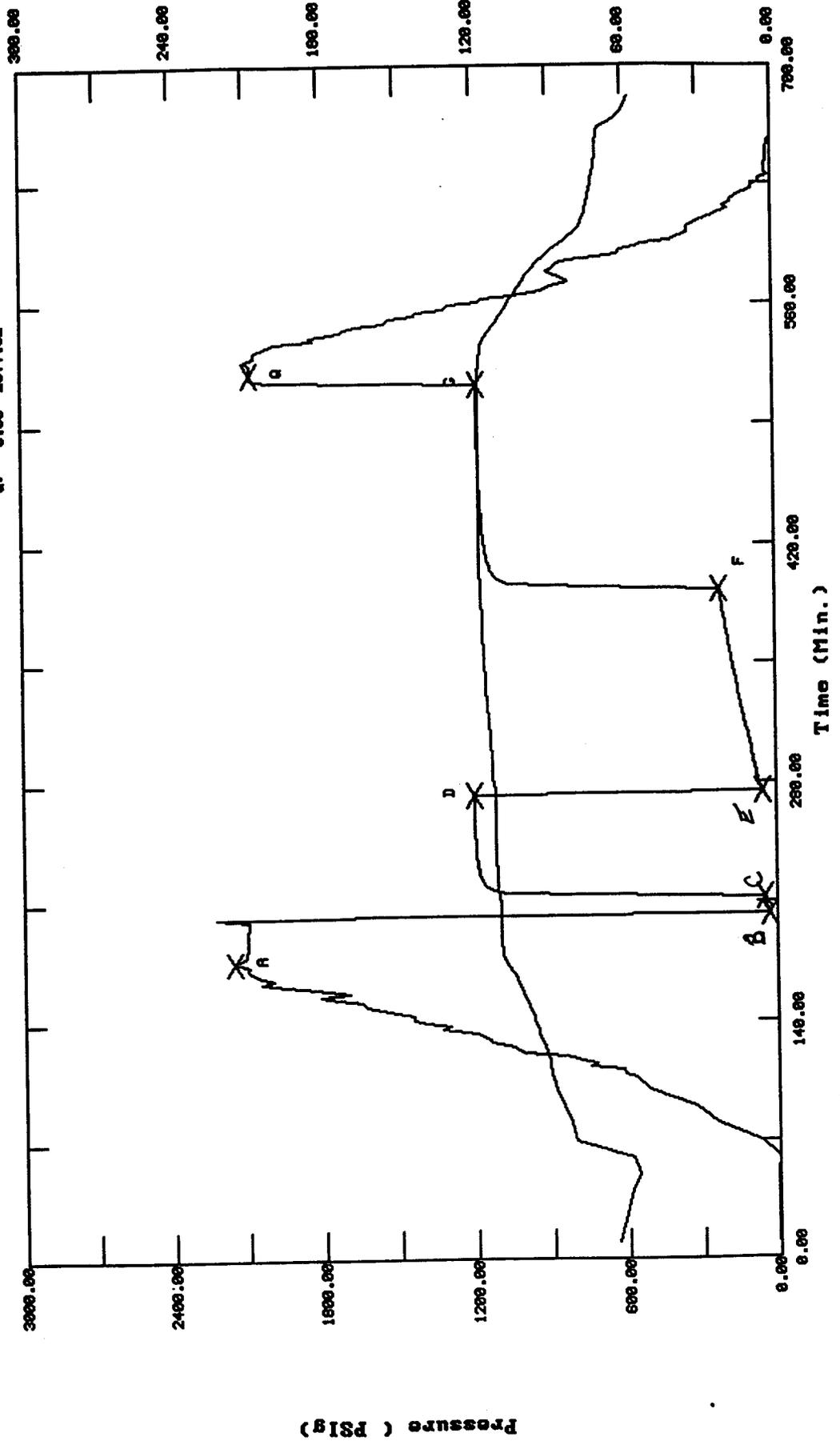
TEST HISTORY

8619 DST #1 Wade Allen # 1-36 Amoco Prod. Co.

Flag Points

Time (Min.) Pressure (PSig)

Flag	Time (Min.)	Pressure (PSig)
A	0.00	2157.19
B	0.00	26.28
C	10.00	46.42
D	60.00	1201.17
E	0.00	53.20
F	118.00	219.13
G	120.00	1183.29
H	0.00	2077.62

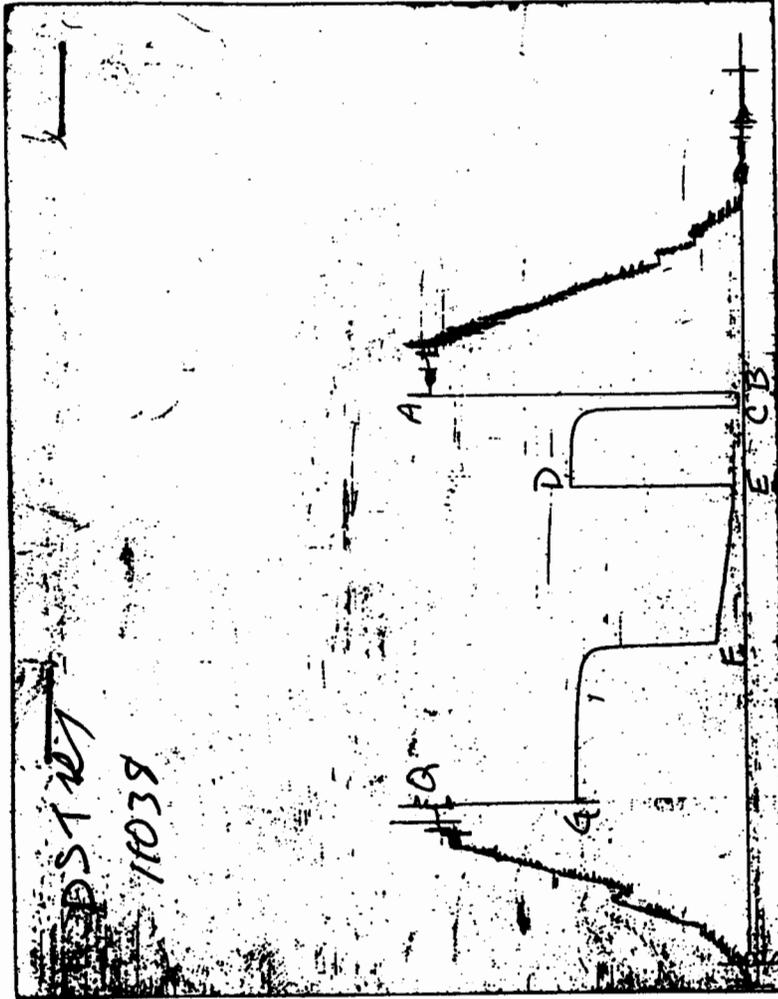


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8619 DST #1 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/12/95

TIME: 20:20:03

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	175.00	2157.2	0.0	107.87		
***** Start Flow 1	0.00	28.3	0.0	109.63		
	2.00	32.1	3.8	109.56		
	4.00	36.8	8.5	109.49		
	6.00	40.9	12.6	109.63		
	8.00	43.9	15.6	109.90		
***** End Flow 1	10.00	48.4	20.1	110.15		
***** Start Shutin 1	0.00	48.4	0.0	110.15	0.0000	0.002
	2.00	1079.1	1030.7	110.42	6.0000	1.165
	4.00	1128.1	1079.6	110.65	3.5000	1.273
	6.00	1148.5	1100.0	110.82	2.6667	1.319
	8.00	1160.4	1112.0	110.96	2.2500	1.346
	10.00	1168.4	1119.9	111.04	2.0000	1.365
	12.00	1174.1	1125.6	111.11	1.8333	1.378
	14.00	1178.4	1130.0	111.15	1.7143	1.389
	16.00	1181.7	1133.3	111.18	1.6250	1.396
	18.00	1184.5	1136.1	111.20	1.5556	1.403
	20.00	1186.7	1138.3	111.23	1.5000	1.408
	22.00	1188.7	1140.2	111.25	1.4545	1.413
	24.00	1190.3	1141.8	111.25	1.4167	1.417
	26.00	1191.6	1143.2	111.26	1.3846	1.420
	28.00	1192.7	1144.3	111.29	1.3571	1.423
	30.00	1193.7	1145.3	111.29	1.3333	1.425
	32.00	1194.6	1146.2	111.31	1.3125	1.427
	34.00	1195.5	1147.0	111.32	1.2941	1.429
	36.00	1196.3	1147.9	111.34	1.2778	1.431
	38.00	1196.9	1148.5	111.36	1.2632	1.433
	40.00	1197.5	1149.1	111.37	1.2500	1.434
	42.00	1198.1	1149.6	111.39	1.2381	1.435
	44.00	1198.5	1150.1	111.41	1.2273	1.436
	46.00	1198.9	1150.5	111.44	1.2174	1.437
	48.00	1199.4	1151.0	111.46	1.2083	1.439
	50.00	1199.7	1151.3	111.47	1.2000	1.439
	52.00	1200.1	1151.7	111.48	1.1923	1.440
	54.00	1200.3	1151.9	111.51	1.1852	1.441
	56.00	1200.6	1152.2	111.54	1.1786	1.441
	58.00	1200.9	1152.5	111.56	1.1724	1.442
***** End Shut-in 1	60.00	1201.2	1152.7	111.59	1.1667	1.443
***** Start Flow 2	0.00	53.2	0.0	111.59		
	2.00	57.7	4.5	111.77		
	4.00	62.9	9.7	112.04		
	6.00	67.0	13.8	112.27		
	8.00	70.6	17.4	112.43		
	10.00	74.4	21.1	112.55		
	12.00	77.5	24.3	112.62		
	14.00	80.4	27.2	112.69		
	16.00	83.5	30.3	112.74		
	18.00	86.6	33.4	112.80		
	20.00	89.7	36.5	112.86		
	22.00	92.5	39.3	112.93		
	24.00	93.0	39.8	113.00		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8619 DST #1 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/12/95

TIME: 20:20:03

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
26.00	95.8	42.6	113.07			
28.00	98.4	45.2	113.15			
30.00	101.2	48.0	113.24			
32.00	104.2	51.0	113.34			
34.00	107.8	54.6	113.45			
36.00	111.4	58.2	113.56			
38.00	115.0	61.8	113.69			
40.00	118.2	65.0	113.82			
42.00	121.6	68.4	113.94			
44.00	125.1	71.9	114.06			
46.00	129.0	75.8	114.19			
48.00	131.6	78.4	114.31			
50.00	134.4	81.2	114.42			
52.00	137.2	84.0	114.54			
54.00	139.8	86.6	114.64			
56.00	142.5	89.3	114.75			
58.00	144.9	91.6	114.84			
60.00	147.4	94.2	114.94			
62.00	150.0	96.8	115.04			
64.00	152.6	99.4	115.12			
66.00	155.0	101.8	115.21			
68.00	157.5	104.3	115.30			
70.00	160.6	107.4	115.38			
72.00	163.7	110.5	115.45			
74.00	166.8	113.6	115.54			
76.00	169.8	116.6	115.61			
78.00	172.0	118.8	115.69			
80.00	174.6	121.4	115.76			
82.00	176.8	123.6	115.83			
84.00	179.3	126.1	115.91			
86.00	181.8	128.6	115.97			
88.00	183.9	130.7	116.04			
90.00	186.4	133.2	116.11			
92.00	189.0	135.8	116.17			
94.00	191.5	138.3	116.24			
96.00	193.9	140.7	116.30			
98.00	196.4	143.2	116.36			
100.00	198.5	145.3	116.42			
102.00	201.1	147.9	116.48			
104.00	203.5	150.3	116.54			
106.00	206.0	152.8	116.60			
108.00	208.5	155.3	116.66			
110.00	210.6	157.4	116.71			
112.00	212.7	159.5	116.77			
114.00	214.8	161.6	116.82			
116.00	217.0	163.8	116.88			
118.00	219.1	165.9	116.93			
***** End Flow 2						
***** Start Shutin 2	0.00	219.1	0.0	116.93	0.0000	0.048
	2.00	745.0	525.9	116.99	65.0000	0.555
	4.00	1063.9	844.7	117.08	33.0000	1.132
	6.00	1100.5	881.3	117.20	22.3333	1.211

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8619 DST #1 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/12/95

TIME: 20:20:03

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
8.00	1114.8	895.7	117.29	17.0000	1.243
10.00	1123.7	904.6	117.38	13.8000	1.263
12.00	1130.3	911.2	117.44	11.6667	1.278
14.00	1135.6	916.5	117.51	10.1429	1.290
16.00	1139.7	920.6	117.53	9.0000	1.299
18.00	1143.3	924.2	117.57	8.1111	1.307
20.00	1146.4	927.3	117.60	7.4000	1.314
22.00	1149.0	929.9	117.63	6.8182	1.320
24.00	1151.5	932.4	117.61	6.3333	1.326
26.00	1153.6	934.5	117.66	5.9231	1.331
28.00	1155.4	936.3	117.68	5.5714	1.335
30.00	1157.3	938.1	117.69	5.2667	1.339
32.00	1158.9	939.7	117.71	5.0000	1.343
34.00	1160.3	941.2	117.73	4.7647	1.346
36.00	1161.6	942.5	117.72	4.5556	1.349
38.00	1162.8	943.7	117.72	4.3684	1.352
40.00	1164.1	944.9	117.73	4.2000	1.355
42.00	1165.1	946.0	117.73	4.0476	1.357
44.00	1166.1	947.0	117.73	3.9091	1.360
46.00	1167.0	947.9	117.73	3.7826	1.362
48.00	1167.9	948.8	117.74	3.6667	1.364
50.00	1168.7	949.6	117.73	3.5600	1.366
52.00	1169.5	950.4	117.73	3.4615	1.368
54.00	1170.4	951.2	117.74	3.3704	1.370
56.00	1171.0	951.9	117.78	3.2857	1.371
58.00	1171.7	952.6	117.71	3.2069	1.373
60.00	1172.4	953.3	117.73	3.1333	1.374
62.00	1172.9	953.8	117.73	3.0645	1.376
64.00	1173.5	954.3	117.73	3.0000	1.377
66.00	1174.1	954.9	117.73	2.9394	1.378
68.00	1174.6	955.5	117.72	2.8824	1.380
70.00	1175.1	956.0	117.71	2.8286	1.381
72.00	1175.7	956.6	117.71	2.7778	1.382
74.00	1176.1	956.9	117.71	2.7297	1.383
76.00	1176.6	957.4	117.70	2.6842	1.384
78.00	1177.0	957.9	117.69	2.6410	1.385
80.00	1177.4	958.3	117.70	2.6000	1.386
82.00	1177.8	958.7	117.70	2.5610	1.387
84.00	1178.3	959.1	117.71	2.5238	1.388
86.00	1178.6	959.5	117.69	2.4884	1.389
88.00	1179.0	959.9	117.70	2.4545	1.390
90.00	1179.3	960.1	117.69	2.4222	1.391
92.00	1179.5	960.4	117.69	2.3913	1.391
94.00	1179.9	960.8	117.68	2.3617	1.392
96.00	1180.2	961.1	117.68	2.3333	1.393
98.00	1180.5	961.4	117.68	2.3061	1.394
100.00	1180.8	961.6	117.68	2.2800	1.394
102.00	1181.1	962.0	117.68	2.2549	1.395
104.00	1181.4	962.2	117.68	2.2308	1.396
106.00	1181.6	962.5	117.67	2.2075	1.396
108.00	1181.9	962.8	117.67	2.1852	1.397

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8619 DST #1 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/12/95

TIME: 20:20:03

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	110.00	1182.2	963.1	117.67	2.1636	1.398
	112.00	1182.4	963.2	117.68	2.1429	1.398
	114.00	1182.6	963.5	117.68	2.1228	1.399
	116.00	1182.9	963.7	117.67	2.1034	1.399
	118.00	1183.1	964.0	117.68	2.0847	1.400
***** End Shut-in 2	120.00	1183.3	964.2	117.68	2.0667	1.400
***** Final Hydro.	519.00	2077.6	0.0	117.40		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Wade Allen #1-36

LOCATION : 36-29S-40W, Stanton KS

TICKET No. 8619 D.S.T. No. 1 DATE 12/12/95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

TOTAL TOOL TO BOTTOM OF TOP PACKERS AND ANCHOR 32

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STAND.Stands Single Total

P. ANCHOR STAND.Stands Single Total

TOTAL ASSEMBLY 62

C. ABOVE TOOLS.Stands11 Single Total 655

P. ABOVE TOOLS.Stands60 Single Total 3720

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4437

TOTAL DEPTH 4422

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Water 4000 ml, Press 1100 PSI, Ttl 4000 ml

SAMPLER ANALYSIS -

Resist .149 ohms @ 70 F; Chlor 53000 ppm

MUD ANALYSIS -

Chlorides 1200 ppm; Viscosity 50, Mud Wt 9, Filtrate 10.1, LCM 2#

PIPE RECOVERY -

Top & Middle -

Resist .151 ohms @ 70 F; Chlor 52000 ppm

Bottom -

Resist .149 ohms @ 70 F; Chlor 53000 ppm

P.O. SUB	
C.O. SUB	4360
S.I. TOOL	4366
Sampler	4369
HMV Hyd. Tool	4374
JARS	4379
SAFETY JOINT	4381
PACKER	4385
PACKER	4390
DEPTH 4390	
STUBB Perf 3 ft.	4393
ANCHOR Pick up sub 5 ft.	4398
Alpine Recorder	4399
Perf 5 ft.	4403
Perf 5 ft.	4408
Perf 5 ft	4413
T.C. DEPTH	
Perf 4 ft	4417
AK-1 Recorder	4419
BULLNOSE Bull plug 5 ft	
T.D.	4422

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8619 Date 12-12-95
Company Name Amoco Prod. Co.
Lease Wade Allen #1-36 Test No. #1
County Stanton Ks. Sec. 36 Twp. 29 Rng. 40W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 1100 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1200 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 50
Mud Weight 9.0
Filtrate 10.1
Other LCM 2*

SAMPLER ANALYSIS

Resistivity .149 ohms @ 70 F
Chlorides 53,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .151 ohms @ 70 F
Chlorides 52,000 ppm.
MIDDLE
Resistivity .151 ohms @ 70 F
Chlorides 52,000 ppm.
BOTTOM
Resistivity .149 ohms @ 70 F
Chlorides 53,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8619

Well Name & No. <u>Wade Allen # 1-36</u>	Test No. <u># 1</u>	Date <u>12-12-95</u>
Company <u>Amoco Prod. Co.</u>	Zone Tested <u>Marmaton</u>	
Address <u>Box 800, Room 924, Denver Co. 80201</u>	Elevation <u>3253</u> KB <u>3241</u> GL	
Co. Rep / Geo. <u>Sam Carmack cont. Cheyenne Drly #7</u>	Est. Ft. of Pay	Por. %
Location: Sec. <u>36</u> Twp. <u>29</u> Rge. <u>40w</u> Co. <u>Stanton</u> State <u>KI.</u>		
No. of Copies	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N)

Interval Tested <u>4390-4422</u>	Initial Str Wt./Lbs. <u>90,000</u>	Unseated Str Wt./Lbs. <u>95,000</u>
Anchor Length <u>32'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>110,000</u>
Top Packer Depth <u>4385</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Bottom Packer Depth <u>4390</u>	Wt. Pipe I.D. — <u>2.7 Ft. Run</u>	
Total Depth <u>4422</u>	Drill Collar — <u>2.25 Ft. Run</u>	<u>655'</u>
Mud Wt. <u>9.0</u> LCM <u>2#</u> Vis. <u>50</u> WL <u>10.1</u>	Drill Pipe Size <u>4.5x-Hole</u>	Ft. Run <u>3720 3720</u>
Blow Description <u>1st. weak blow - Built to 2 in.</u>		

2nd. weak blow - Built to 6 in.

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
<u>415'</u>	<u>415'</u>		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. <u>415'</u> Feet Of <u>salt water</u>	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		

BHT 117 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .149 @ 70 °F Chlorides 53,000 ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud <u>2157</u> <u>2195</u> PSI	Recorder No. <u>2350</u>	T-Started <u>2100</u>
(B) First Initial Flow Pressure <u>28</u> <u>41</u> PSI	@ (depth) <u>4399</u>	T-Open <u>2330</u>
(C) First Final Flow Pressure <u>48</u> <u>41</u> PSI	Recorder No. <u>11038</u>	T-Pulled <u>0440</u>
(D) Initial Shut-in Pressure <u>1201</u> <u>1209</u> PSI	@ (depth) <u>4419</u>	T-Out _____
(E) Second Initial Flow Pressure <u>53</u> <u>82</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>219</u> <u>217</u> PSI	@ (depth) _____	
(G) Final Shut-in Pressure <u>1183</u> <u>1172</u> PSI	Initial Opening <u>10 min.</u>	Test <u>X</u> <u>400</u>
(H) Final Hydrostatic Mud <u>2077</u> <u>2157</u> PSI	Initial Shut-in <u>60 min.</u>	Jars <u>X</u> <u>200</u>
	Final Flow <u>120 min.</u>	Safety Joint <u>X</u> <u>50</u>
	Final Shut-in <u>120 min.</u>	Straddle _____

Alpine AK-1

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 _____
Tom Lambert

Circ. Sub _____
 Sampler X 200
 Extra Packer _____
 Elect. Rec. X 150
 Other _____
 TOTAL PRICE \$ 1200

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Production Company

DATE 12/14/95

WELL NAME: Wade Allen #1-36

KB 3253.00 ft

TICKET NO: 8620 DST #2

LOCATION : 36-29S-40W, Stanton KS

GR 3241.00 ft

FORMATION: Cherokee

INTERVAL : 4757.00 To 4775.00 ft

TD 4775.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	11038	11038	2350			PF Fr. 1150 to 1200 hr
SI 60 Range(Psi)	5075.0	5075.0	4995.0	0.0	0.0	IS Fr. 1200 to 1300 hr
SF 120 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1300 to 1500 hr
FS 120 Depth(ft)	4772.0	4772.0	4765.0	0.0	0.0	FS Fr. 1500 to 1700 hr

	Field	1	2	3	4
A. Init Hydro	2387.0	2352.0	2305.0	0.0	0.0
B. First Flow	68.0	71.0	27.0	0.0	0.0
B1. Final Flow	68.0	72.0	39.0	0.0	0.0
C. In Shut-in	1172.0	1172.0	1185.0	0.0	0.0
D. Init Flow	82.0	88.0	49.0	0.0	0.0
E. Final Flow	95.0	117.0	108.0	0.0	0.0
F. Fl Shut-in	1058.0	1069.0	1066.0	0.0	0.0
G. Final Hydro	2310.0	2254.0	2230.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 1000 hr
 T ON BOTM 1148 hr
 T OPEN 1150 hr
 T PULLED 1700 hr
 T OUT 2000 hr

TOOL DATA-----

Tool Wt.	18000.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	140000.00 lbs
Initial Str Wt	90000.00 lbs
Unseated Str Wt	95000.00 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	655.00 ft
D.P. Length	4090.00 ft

RECOVERY

Tot Fluid 190.00 ft of 190.00 ft in DC and 0.00 ft in DP
 120.00 ft of Gas in pipe
 30.00 ft of Drilling mud
 160.00 ft of Salt water

SALINITY 56000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	48.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft

BLOW DESCRIPTION

Initial Flow -
 Fair to strong blow, bottom of bucket
 in 7 min

Initial Shutin -
 No blow back

Final Flow -
 Fair blow, bottom of bucket in 40 min

Final Shutin -
 No blow back

Amt. of fill 0.00 ft
 Btm. H. Temp. 122.00 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 TOM HORACEK
 Co. Rep. SAM CARMACK
 Contr. Cheyenne Drlg.
 Rig # 7
 Unit #
 Pump T.

SAMPLES: No
 SENT TO:

Test Successful: Y

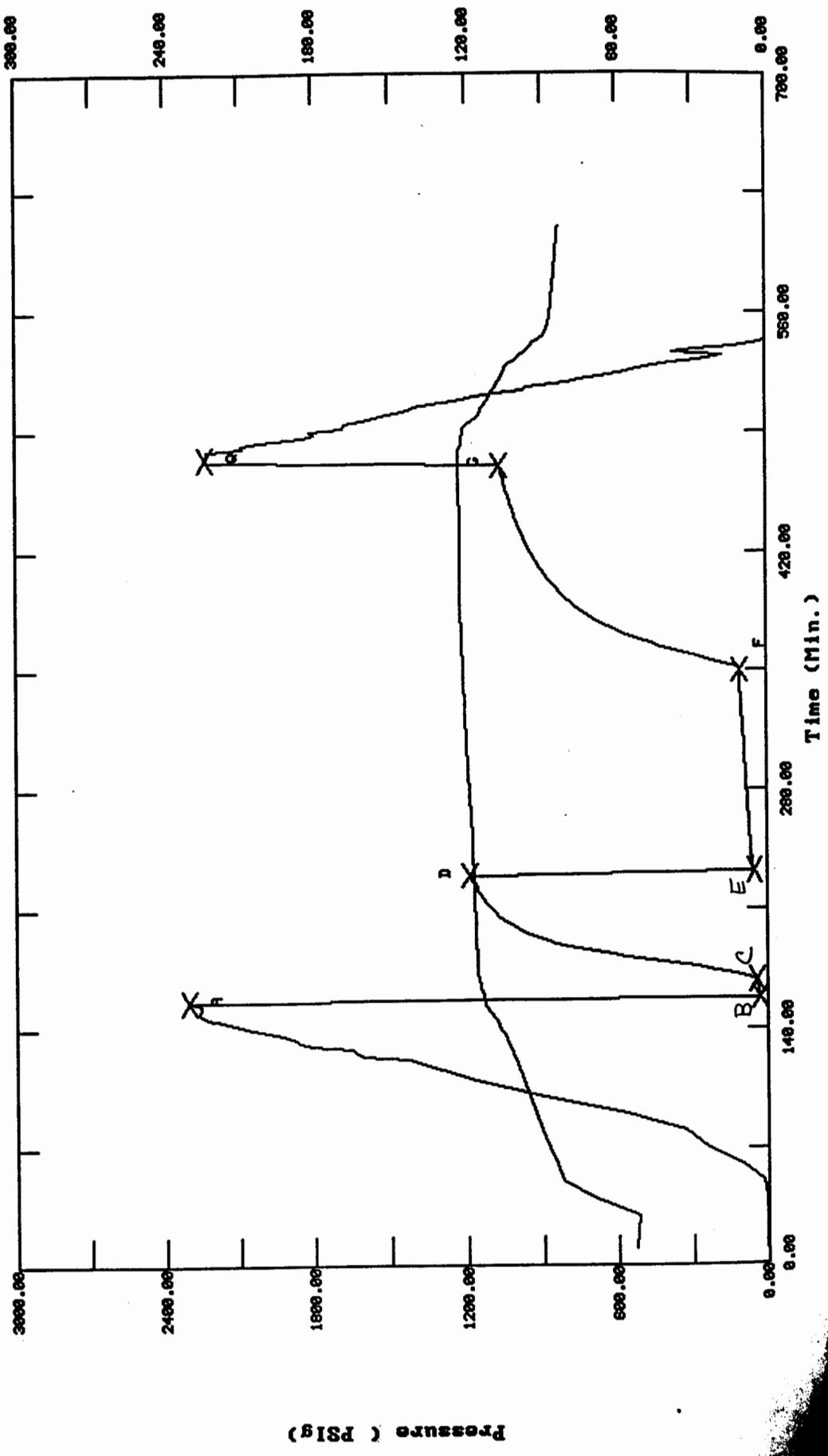
TEST HISTORY

8620 DST #2 Made Allen # 1-36 Amoco Prod. Co.

Flag Points

t (Min.) P (PSig)

A:	0.00	2304.82
B:	0.00	27.27
C:	10.00	38.68
D:	62.00	1184.68
E:	0.00	48.67
F:	118.00	108.43
G:	128.00	1665.71
Q:	0.00	2238.29

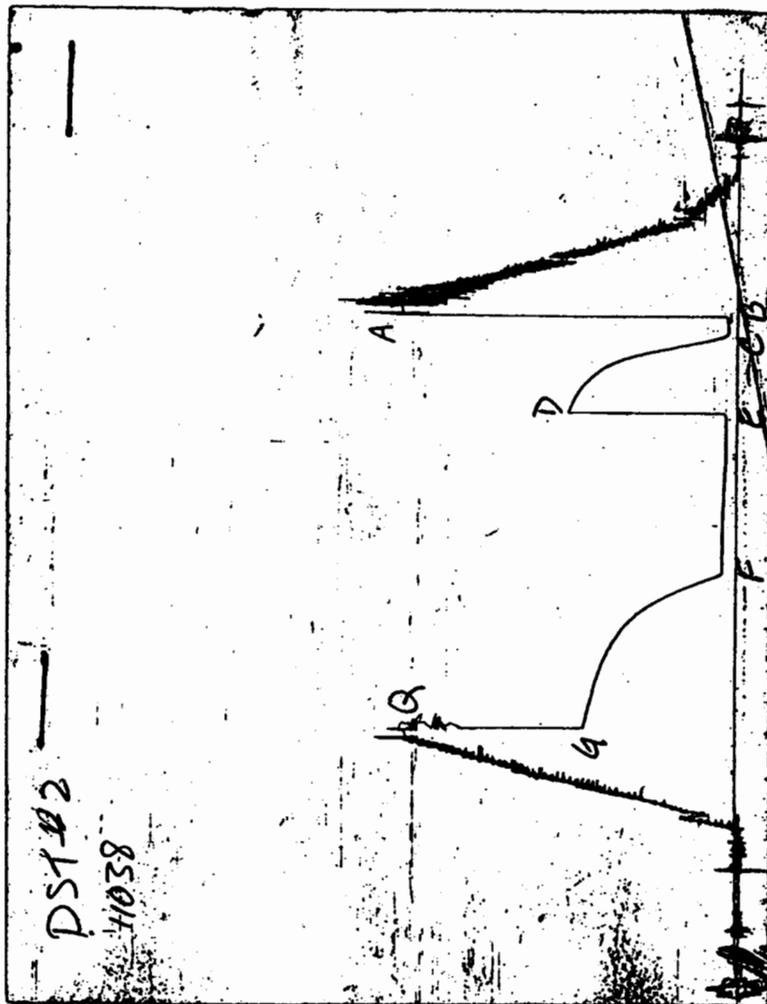


Pressure (PSig)

Time (Min.)

Temperature (DEG F)

CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8620 DST #2 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/14/95

TIME: 09:25:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	156.00	2304.8	0.0	112.95		
***** Start Flow 1	0.00	27.3	0.0	113.26		
	2.00	30.4	3.1	113.59		
	4.00	32.6	5.4	114.00		
	6.00	34.7	7.5	114.41		
	8.00	37.2	9.9	114.77		
***** End Flow 1	10.00	38.7	11.4	115.07		
***** Start Shutin 1	0.00	38.7	0.0	115.07	0.0000	0.001
	2.00	74.4	35.8	115.28	6.0000	0.006
	4.00	132.6	93.9	115.43	3.5000	0.018
	6.00	200.6	161.9	115.54	2.6667	0.040
	8.00	280.2	241.5	115.64	2.2500	0.079
	10.00	370.1	331.4	115.72	2.0000	0.137
	12.00	465.7	427.0	115.78	1.8333	0.217
	14.00	560.1	521.4	115.85	1.7143	0.314
	16.00	647.2	608.6	115.92	1.6250	0.419
	18.00	724.1	685.4	115.99	1.5556	0.524
	20.00	789.9	751.2	116.05	1.5000	0.624
	22.00	845.2	806.5	116.12	1.4545	0.714
	24.00	891.6	852.9	116.18	1.4167	0.795
	26.00	930.1	891.4	116.23	1.3846	0.865
	28.00	962.6	923.9	116.29	1.3571	0.927
	30.00	990.5	951.8	116.35	1.3333	0.981
	32.00	1014.6	975.9	116.41	1.3125	1.029
	34.00	1035.7	997.1	116.47	1.2941	1.073
	36.00	1054.5	1015.8	116.51	1.2778	1.112
	38.00	1071.0	1032.3	116.56	1.2632	1.147
	40.00	1085.8	1047.2	116.61	1.2500	1.179
	42.00	1099.4	1060.7	116.66	1.2381	1.209
	44.00	1111.4	1072.8	116.70	1.2273	1.235
	46.00	1122.6	1083.9	116.75	1.2174	1.260
	48.00	1132.7	1094.0	116.79	1.2083	1.283
	50.00	1141.9	1103.2	116.85	1.2000	1.304
	52.00	1150.6	1111.9	116.87	1.1923	1.324
	54.00	1158.4	1119.8	116.91	1.1852	1.342
	56.00	1165.8	1127.2	116.94	1.1786	1.359
	58.00	1172.5	1133.9	116.99	1.1724	1.375
	60.00	1179.0	1140.3	117.02	1.1667	1.390
***** End Shut-in 1	62.00	1184.9	1146.2	117.06	1.1613	1.404
***** Start Flow 2	0.00	48.7	0.0	117.06		
	2.00	53.9	5.2	117.14		
	4.00	56.3	7.6	117.19		
	6.00	58.4	9.7	117.23		
	8.00	59.9	11.2	117.26		
	10.00	61.6	12.9	117.28		
	12.00	62.7	14.0	117.31		
	14.00	64.0	15.4	117.34		
	16.00	65.0	16.3	117.38		
	18.00	65.8	17.1	117.44		
	20.00	66.3	17.6	117.50		
	22.00	66.9	18.2	117.57		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8620 DST #2 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/14/95

TIME: 09:25:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
24.00	67.7	19.1	117.66		
26.00	68.6	20.0	117.77		
28.00	69.7	21.0	117.88		
30.00	70.6	21.9	117.99		
32.00	71.4	22.7	118.09		
34.00	72.4	23.8	118.17		
36.00	73.3	24.7	118.28		
38.00	74.3	25.6	118.37		
40.00	75.2	26.5	118.46		
42.00	76.2	27.5	118.54		
44.00	77.0	28.4	118.63		
46.00	78.0	29.3	118.72		
48.00	79.0	30.3	118.81		
50.00	79.6	31.0	118.88		
52.00	80.6	31.9	118.98		
54.00	81.4	32.7	119.06		
56.00	82.2	33.5	119.14		
58.00	83.1	34.4	119.23		
60.00	83.9	35.2	119.31		
62.00	84.7	36.0	119.39		
64.00	85.3	36.6	119.46		
66.00	86.0	37.3	119.54		
68.00	86.9	38.3	119.62		
70.00	87.9	39.2	119.69		
72.00	88.6	39.9	119.77		
74.00	89.2	40.5	119.83		
76.00	90.3	41.6	119.91		
78.00	90.7	42.0	119.99		
80.00	91.5	42.8	120.05		
82.00	92.6	44.0	120.12		
84.00	93.2	44.6	120.18		
86.00	94.2	45.6	120.25		
88.00	95.1	46.4	120.32		
90.00	96.2	47.5	120.38		
92.00	97.2	48.5	120.44		
94.00	98.1	49.4	120.51		
96.00	99.1	50.4	120.57		
98.00	99.5	50.9	120.62		
100.00	100.8	52.1	120.69		
102.00	101.5	52.9	120.75		
104.00	102.3	53.6	120.81		
106.00	103.5	54.8	120.86		
108.00	104.4	55.7	120.92		
110.00	104.7	56.1	120.97		
112.00	106.1	57.4	121.03		
114.00	106.9	58.2	121.08		
116.00	107.8	59.1	121.14		
118.00	108.4	59.8	121.20		
***** End Flow 2					
***** Start Shutin 2	0.00	108.4	0.0	121.20	0.0000 0.012
	2.00	114.4	6.0	121.24	65.0000 0.013
	4.00	173.8	65.4	121.30	33.0000 0.030

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8620 DST #2 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/14/95

TIME: 09:25:40

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
6.00	222.3	113.9	121.36	22.3333	0.049
8.00	271.9	163.5	121.42	17.0000	0.074
10.00	321.4	212.9	121.49	13.8000	0.103
12.00	369.4	260.9	121.55	11.6667	0.136
14.00	415.6	307.2	121.62	10.1429	0.173
16.00	459.0	350.6	121.69	9.0000	0.211
18.00	499.6	391.2	121.75	8.1111	0.250
20.00	537.5	429.0	121.81	7.4000	0.289
22.00	572.5	464.1	121.86	6.8182	0.328
24.00	605.1	496.7	121.93	6.3333	0.366
26.00	634.9	526.5	121.97	5.9231	0.403
28.00	662.0	553.6	122.02	5.5714	0.438
30.00	687.0	578.6	122.05	5.2667	0.472
32.00	710.0	601.6	122.10	5.0000	0.504
34.00	731.1	622.7	122.13	4.7647	0.534
36.00	750.6	642.2	122.16	4.5556	0.563
38.00	768.6	660.2	122.21	4.3684	0.591
40.00	785.4	677.0	122.23	4.2000	0.617
42.00	800.9	692.5	122.26	4.0476	0.641
44.00	815.3	706.8	122.28	3.9091	0.665
46.00	828.9	720.5	122.31	3.7826	0.687
48.00	841.5	733.1	122.33	3.6667	0.708
50.00	853.5	745.1	122.35	3.5600	0.729
52.00	864.9	756.4	122.37	3.4615	0.748
54.00	875.4	767.0	122.38	3.3704	0.766
56.00	885.5	777.1	122.38	3.2857	0.784
58.00	895.1	786.7	122.42	3.2069	0.801
60.00	904.3	795.9	122.42	3.1333	0.818
62.00	913.0	804.6	122.44	3.0645	0.834
64.00	921.3	812.8	122.46	3.0000	0.849
66.00	929.3	820.9	122.47	2.9394	0.864
68.00	937.0	828.5	122.48	2.8824	0.878
70.00	944.3	835.8	122.49	2.8286	0.892
72.00	951.3	842.9	122.50	2.7778	0.905
74.00	958.0	849.6	122.51	2.7297	0.918
76.00	964.6	856.1	122.53	2.6842	0.930
78.00	970.9	862.4	122.53	2.6410	0.943
80.00	976.9	868.5	122.55	2.6000	0.954
82.00	982.8	874.4	122.54	2.5610	0.966
84.00	988.4	880.0	122.56	2.5238	0.977
86.00	993.8	885.4	122.58	2.4884	0.988
88.00	999.2	890.7	122.58	2.4545	0.998
90.00	1004.2	895.8	122.59	2.4222	1.008
92.00	1009.1	900.7	122.61	2.3913	1.018
94.00	1013.9	905.5	122.61	2.3617	1.028
96.00	1018.6	910.2	122.62	2.3333	1.038
98.00	1023.2	914.8	122.62	2.3061	1.047
100.00	1027.6	919.2	122.65	2.2800	1.056
102.00	1031.9	923.5	122.65	2.2549	1.065
104.00	1036.0	927.6	122.64	2.2308	1.073
106.00	1040.0	931.6	122.66	2.2075	1.082

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8620 DST #2 Wade Allen # 1-36 Amoco Prod. Co.

DATE: 12/14/95

TIME: 09:25:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	108.00	1044.0	935.5	122.66	2.1852	1.090
	110.00	1047.8	939.4	122.67	2.1636	1.098
	112.00	1051.5	943.1	122.68	2.1429	1.106
	114.00	1055.2	946.8	122.68	2.1228	1.113
	116.00	1058.8	950.4	122.71	2.1034	1.121
	118.00	1062.3	953.9	122.70	2.0847	1.129
***** End Shut-in 2	120.00	1065.7	957.3	122.71	2.0667	1.136
***** Final Hydro.	474.00	2230.3	0.0	122.88		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Wade Allen #1-36

LOCATION : 36-29S-40W, Stanton KS

WELL No. 8620 D.S.T. No. 2 DATE 12/14/95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 18

TOTAL TOOL 48

WELL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STANDS Single Total

P. ANCHOR STANDS Single Total

TOTAL ASSEMBLY 48

C. ABOVE TOOLS STANDS Single Total 655

P. ABOVE TOOLS STANDS Single 1 Total 4090

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4793

TOTAL DEPTH 4775

TOTAL DRILL PIPE ABOVE K.B. 18

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Mud 200 ml, Water 3800 ml, Pressure 950 PSI, Total 4000 ml

SAMPLER ANALYSIS -

Resist .195 ohms @ 50 F; Chlorides 56000 ppm

MUD ANALYSIS -

Chlorides 1700 ppm; Viscosity 48, Mud Wt 9, Filtrate 8.4, LCM 3#

PIPE RECOVERY -

Top & Bottom -

Resistivity .195 ohms @ 50 F;

Chlorides 56000 ppm

P.O. SUB	
C.O. SUB	4727
S.I. TOOL	4733
Sampler	4736
HMV Hyd. Tool	4741
JARS	4746
SAFETY JOINT	4748
PACKER	4752
PACKER	4757
DEPTH 4757	
STUBB Perf 3 ft.	4760
ANCHOR	
Pick up sub 5 ft.	4765
Alpine recorder	4765
5 ft. perf	4770
T.C. DEPTH	
AK-1 Recorder	4772
BULLNOSE Bull plug 5 ft.	
T.D.	4775

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8620 Date 12-14-95
Company Name Amoco Prod. Co.
Lease Wade Allen #1-36 Test No. #2
County Stanton Kc Sec. 36 Twp. 29 Rng. 40 W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 200 ML
Water 3800 ML
Other _____ ML
Pressure 950 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1700 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 48
Mud Weight 9.0
Filtrate 8.4
Other LCM 3#

SAMPLER ANALYSIS

Resistivity 1195 ohms @ 50 F
Chlorides 56,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 1195 ohms @ 50 F
Chlorides 56,000 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 1195 ohms @ 50 F
Chlorides 56,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 8620

Well Name & No. <u>Wade Allen #1-36</u>		Test No. <u>#2</u>	Date <u>12-14-95</u>
Company <u>Amoco Prod. Co.</u>		Zone Tested <u>Cherokee</u>	
Address <u>Box 800, Room 924, Denver Co. 80201</u>		Elevation <u>3253</u>	KB <u>324</u> /GL
Co. Rep / Geo. <u>Sam Carmack</u>	Cont. <u>Cheyenne Dlg #9</u>	Est. Ft. of Pay	Por. %
Location: Sec. <u>36</u>	Twp. <u>29</u>	Rge. <u>40w</u>	Co. <u>Stanton</u> State <u>Ks</u>
No. of Copies	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N)

Interval Tested <u>4757 - 4775</u>	Initial Str Wt./Lbs. <u>90,000</u>	Unseated Str Wt./Lbs. <u>95,000</u>
Anchor Length <u>18'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>140,000</u>
Top Packer Depth <u>4752</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Bottom Packer Depth <u>4757</u>	Wt. Pipe I.D. — <u>2.7 Ft. Run</u>	
Total Depth <u>4775</u>	Drill Collar — <u>2.25 Ft. Run</u>	<u>655'</u>
Mud Wt. <u>9.0</u> LCM <u>3#</u> Vis. <u>48</u> WL <u>8.4</u>	Drill Pipe Size <u>4.5x-Hole</u>	Ft. Run <u>4090</u>

Blow Description 1st. Fair to Strong blow - B.O.B. 7 min.
ISI - No blow back

2nd. Fair blow - B.O.B. in 40 min.
FSI - No blow back

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>30'</u> Feet Of <u>Drlg mud</u>							
Rec. <u>160'</u> Feet Of <u>Salt water</u>							
Rec. _____ Feet Of _____							
Rec. _____ Feet Of _____							
Rec. <u>120'</u> Feet Of <u>GIP</u>							

BHT 122 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW .195 @ 50 °F Chlorides 56,000 ppm Recovery Chlorides 1700 ppm System

(A) Initial Hydrostatic Mud <u>2304</u> <u>2387</u> PSI	Recorder No. <u>2350</u>	T-Started <u>1000</u>
(B) First Initial Flow Pressure <u>27</u> <u>68</u> PSI	@ (depth) <u>4765</u>	T-Open <u>1150</u>
(C) First Final Flow Pressure <u>38</u> <u>68</u> PSI	Recorder No. <u>11038</u>	T-Pulled <u>1700</u>
(D) Initial Shut-in Pressure <u>1184</u> <u>1172</u> PSI	@ (depth) <u>4772</u>	T-Out <u>2000</u>
(E) Second Initial Flow Pressure <u>48</u> <u>82</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>108</u> <u>95</u> PSI	@ (depth) _____	
(G) Final Shut-in Pressure <u>1065</u> <u>1058</u> PSI	Initial Opening <u>10 min.</u>	Test <u>X</u>
(H) Final Hydrostatic Mud <u>2230</u> <u>2310</u> PSI	Initial Shut-in <u>60 min.</u>	Jars <u>X</u>

Alpine AK-1

Final Flow 120 min. Safety Joint X

Final Shut-in 120 min. Straddle _____

_____ Circ. Sub _____

_____ Sampler X

_____ Extra Packer _____

_____ Elect. Rec. X

_____ Other _____

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 _____
Tom L...