WELL NAME:	Wasinger #4
COMPANY:	Castle Resources Inc.
LOCATION:	20-11S-18W
	Ellis County Kansas
DATE:	08/27/97

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Res. Inc.
WELL NAME: Wasinger #4
LOCATION : 20-11-18-Ellis Co Ks
INTERVAL : 3342.00 To 3404.00 ft

DATE 8-25-97
KB 2045.00 ft
GR 2040.00 ft
TD 3404.00 ft

TICKET NO: 10415 DST #1
FORMATION: D-E-F LKC
TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	2357		
SI 30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0
SF 0	Clock(hrs)	12 hr	12 hr	Elec		
FS 0	Depth(ft)	3401.0	3401.0	3348.0	0.0	0.0

TIME DATA----------
PF Fr. 1613 to 1643 hr
IS Fr. 1643 to 1713 hr
SF Fr. to hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	1716.0	1679.0	1698.0	0.0	0.0
B. First Flow	49.0	66.0	39.0	0.0	0.0
B1. Final Flow	49.0	66.0	47.0	0.0	0.0
C. In Shut-in	581.0	594.0	604.0	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	1686.0	1640.0	1668.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 1434 hr
T ON BOTM 1610 hr
T OPEN 1613 hr
T PULLED 1713 hr
T OUT 1845 hr

RECOVERY
Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
10.00 ft of Drilling 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

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

Tool Wt.	1000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	54000.00 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	3352.00 ft

BLOW DESCRIPTION

Initial Flow:
Weak blow - Died in 15 min - Flushed tool - No help

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

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	45.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	N
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	N
Tool Chased	N
Tester	Dan Bangle
Co. Rep.	Jerry Green
Contr.	Shields
Rig #	1
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV

/ELL NAME: Wasinger #4

.OCATION : 20-11-18-Ellis Co Ks

'ICKET No. 10415 D.S.T. No. 1 DATE 8-25-97

'OTAL TOOL TO BOTTOM OF TOP PACKERS 20

NTERVAL TOOL .....

3OTTOM PACKERS AND ANCHOR 31

'OTAL TOOL 51

)RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands Single 1 Total 31

'OTAL ASSEMBLY 82

.C. ABOVE TOOLS.Stands Single Total

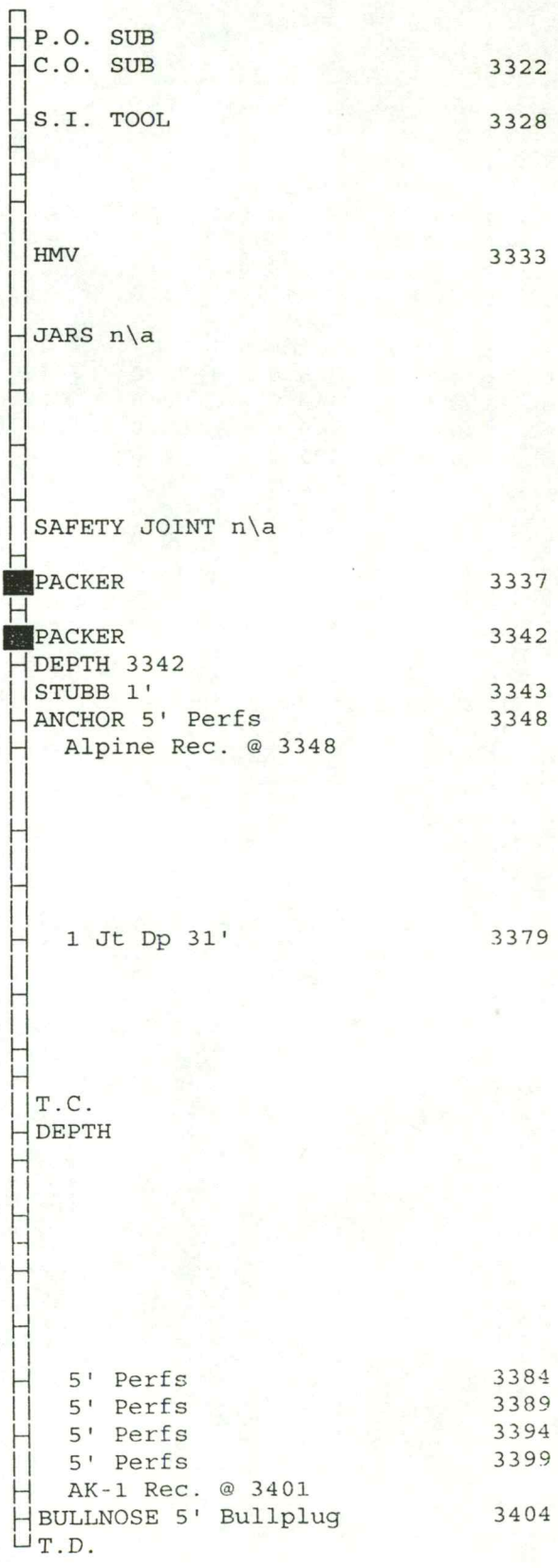
.P. ABOVE TOOLS.Stands54 Single 1 Total 3352

'OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3434

'OTAL DEPTH 3404

'OTAL DRILL PIPE ABOVE K.B. 30

EMARKS:



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10415 DST #1 Wasinger #4 Castle Res. Inc.

DATE: 08/25/97 TIME: 14:34:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	92.00	1698.0	0.0	104.34		
****** Start Flow 1	0.00	39.1	0.0	104.66		
	1.00	39.8	0.7	104.75		
	2.00	40.2	1.1	104.81		
	3.00	40.6	1.5	104.85		
	4.00	40.9	1.8	104.88		
	5.00	41.1	2.0	104.89		
	6.00	41.3	2.2	104.91		
	7.00	41.6	2.5	104.93		
	8.00	41.8	2.7	104.94		
	9.00	41.8	2.7	104.95		
	10.00	42.1	3.0	104.96		
	11.00	42.4	3.3	104.98		
	12.00	42.7	3.6	104.99		
	13.00	43.0	3.9	105.01		
	14.00	43.2	4.1	105.03		
	15.00	43.4	4.3	105.06		
	16.00	43.4	4.3	105.08		
	17.00	43.7	4.6	105.11		
	18.00	43.9	4.8	105.13		
	19.00	44.1	5.0	105.17		
	20.00	44.2	5.1	105.19		
	21.00	44.4	5.3	105.21		
	22.00	44.5	5.4	105.24		
	23.00	46.4	7.3	105.28		
	24.00	46.5	7.4	105.32		
	25.00	46.6	7.5	105.35		
	26.00	46.8	7.7	105.38		
	27.00	46.8	7.7	105.40		
	28.00	47.1	8.0	105.43		
	29.00	47.2	8.1	105.45		
	30.00	47.2	8.1	105.48		
****** End Flow 1	31.00	47.4	8.3	105.50		
****** Start Shutin 1	0.00	47.4	0.0	105.50	0.0000	0.002
	1.00	67.0	19.6	105.53	32.0000	0.004
	2.00	100.7	53.3	105.56	16.5000	0.010
	3.00	143.7	96.3	105.59	11.3333	0.021
	4.00	189.8	142.3	105.62	8.7500	0.036
	5.00	236.1	188.7	105.65	7.2000	0.056
	6.00	279.6	232.2	105.69	6.1667	0.078
	7.00	318.9	271.5	105.72	5.4286	0.102
	8.00	353.1	305.7	105.76	4.8750	0.125
	9.00	382.4	335.0	105.80	4.4444	0.146
	10.00	407.6	360.2	105.83	4.1000	0.166
	11.00	429.2	381.8	105.87	3.8182	0.184
	12.00	447.8	400.4	105.90	3.5833	0.201
	13.00	464.5	417.1	105.94	3.3846	0.216
	14.00	478.6	431.2	105.97	3.2143	0.229
	15.00	491.7	444.3	106.00	3.0667	0.242
	16.00	503.8	456.4	106.04	2.9375	0.254
	17.00	514.2	466.8	106.07	2.8235	0.264

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk #10415 DST #1 Wasinger #4 Castle Res. Inc.

DATE: 08/25/97 TIME: 14:34:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	524.0	476.5	106.10	2.7222	0.275
	19.00	532.7	485.3	106.12	2.6316	0.284
	20.00	540.9	493.5	106.16	2.5500	0.293
	21.00	548.6	501.2	106.18	2.4762	0.301
	22.00	555.7	508.3	106.21	2.4091	0.309
	23.00	562.2	514.8	106.23	2.3478	0.316
	24.00	568.5	521.1	106.27	2.2917	0.323
	25.00	574.4	527.0	106.29	2.2400	0.330
	26.00	580.1	532.7	106.32	2.1923	0.337
	27.00	585.2	537.8	106.34	2.1481	0.342
	28.00	590.0	542.6	106.37	2.1071	0.348
	29.00	595.0	547.5	106.38	2.0690	0.354
	30.00	599.5	552.1	106.41	2.0333	0.359
***** End Shut-in 1	31.00	603.9	556.5	106.43	2.0000	0.365
***** Start Flow 2	0.00	1669.6	0.0	106.50		
***** End Flow 2	1.00	1663.4	-6.1	106.56		
***** End Shut-in 2	1.00	1663.4	0.0	106.56	32.0000	2.767
***** Final Hydro.	158.00	1663.4	0.0	106.56		

TEST HISTORY

Tk #10415 DST #1 Wasinger #4 Castle Res. Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	1698.02
B:	0.00	39.10
C:	31.00	47.41
D:	31.00	603.94
E:	0.00	1669.57
Q:	0.00	1669.57

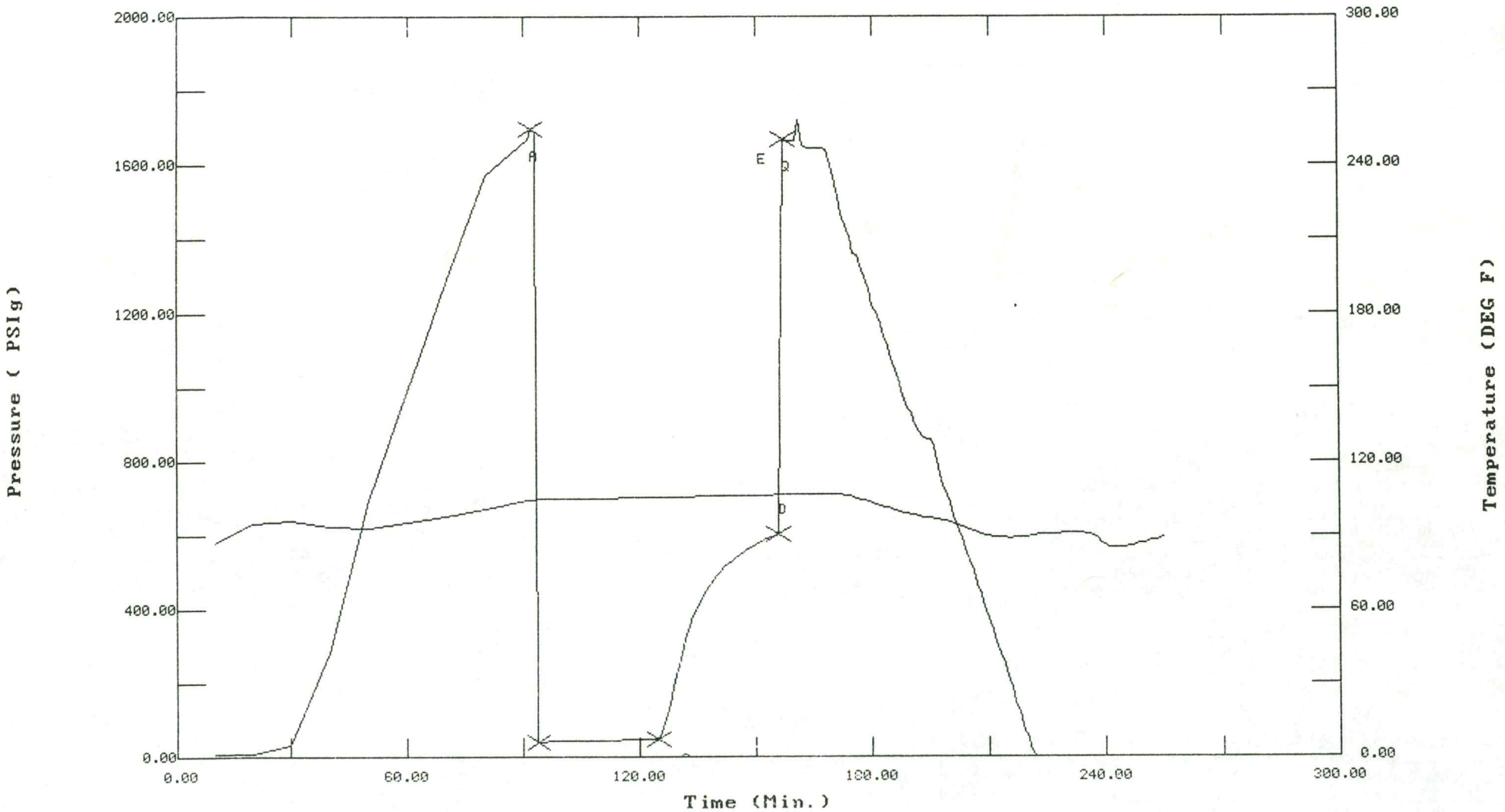
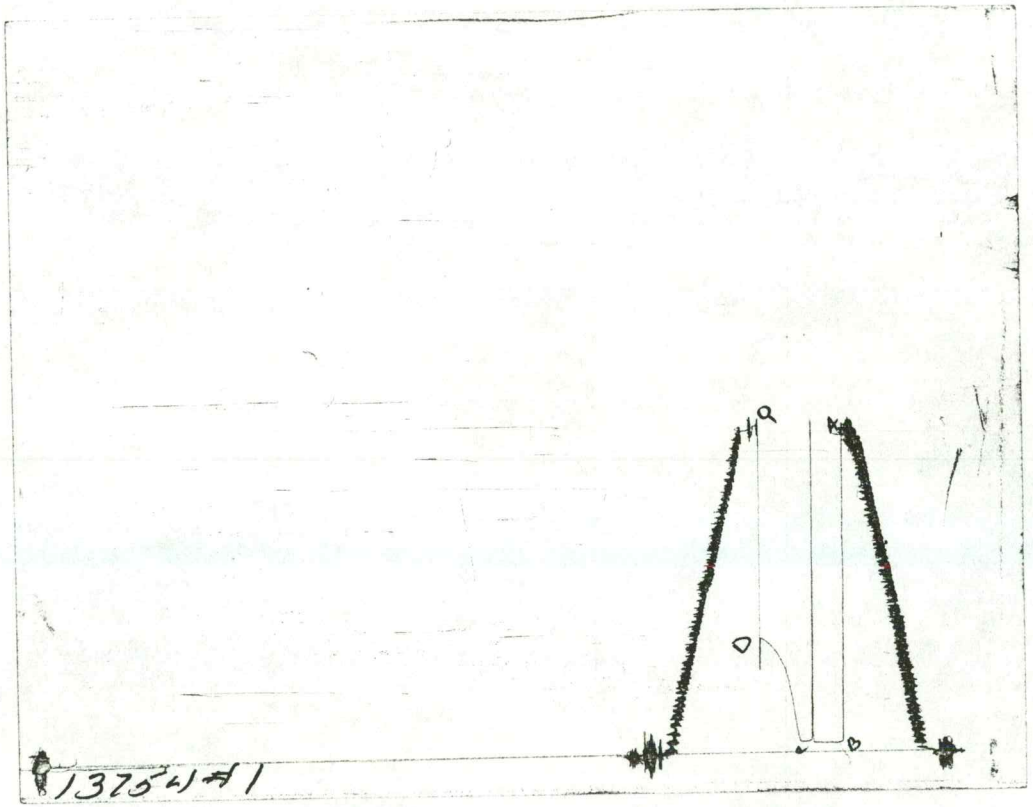


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 10415

Well Name & No. Wasinger #4 Test No. 1 Date 8-25-97

Company Castle Res. Inc Zone Tested D-E-F LKC

Address Box 503 Hays, Ks 67601 Elevation 2045 KB 2040 GL

Co. Rep / Geo. Jerry Green Cont. Shields #1 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 20 Twp. 11 Rge. 18 Co. Ellis State Ks

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

Interval Tested 3342 - 3404 Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 54,000

Anchor Length 62 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 3337 Tool Weight 1000

Bottom Packer Depth 3342 Hole Size — 7 7/8" ____ Rubber Size — 6 3/4" ____

Total Depth 3404 Wt. Pipe Run ____ Drill Collar Run ____

Mud Wt. 9.4 LCM TR Vis. 45 WL 10.4 Drill Pipe Size 4.5 XH FH Ft. Run 3352

Blow Description I.F. Weak- Died in 15 min. flushed Tool no help.

Recovery — Total Feet 10 GIP ____ Ft. in DC ____ Ft. in DP 10

Rec. 10	Feet Of D.M.	%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
Rec. ____	Feet Of ____	%gas	%oil	%water	%mud

BHT 106 °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	1716	1698 PSI	Recorder No.	23357	T-Started	14:34
(B) First Initial Flow Pressure	49	39 PSI	(depth)	3348	T-Open	16:13
(C) First Final Flow Pressure	49	47 PSI	Recorder No.	13754	T-Pulled	17:13
(D) Initial Shut-in Pressure	581	604 PSI	(depth)	3401	T-Out	18:45
(E) Second Initial Flow Pressure	—	PSI	Recorder No.			
(F) Second Final Flow Pressure	—	PSI	(depth)			
(G) Final Shut-in Pressure	—	PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1686 AK-1	1668 Alpine PSI	Initial Shut-in	30	Jars	
			Final Flow	—	Safety Joint	
			Final Shut-in	—	Straddle	
					Circ. Sub	
					Sampler	
					Extra Packer	
					Elect. Rec. X	150
					Other	
					TOTAL PRICE $	750

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Approved By ____

Our Representative Dan Rangel