

WELL NAME: Hall # 1
COMPANY: Castle Resources Inc.
LOCATION: Sec. 35 Twp. 11S Rge. 17W
Ellis County Kansas
DATE: 02/04/97

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources Inc.
WELL NAME: Hall #1
LOCATION : 35-11S-17W Ellis KS
INTERVAL : 3362.00 To 3445.00 ft

DATE 2-2-97
KB 2109.00 ft TICKET NO: 9616 DST #1
GR 2101.00 ft FORMATION: Kansas City
TD 3445.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2341			PF Fr. 1648 to 1718 hr
SI 30 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1718 to 1748 hr
SF 15 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1748 to 1805 hr
FS 0 Depth(ft)	3440.0	3440.0	3365.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1672.0	1717.0	1644.0	0.0	0.0	T STARTED 1522 hr
B. First Flow	62.0	76.0	26.0	0.0	0.0	T ON BOTM 1645 hr
B1. Final Flow	62.0	77.0	34.0	0.0	0.0	T OPEN 1648 hr
C. In Shut-in	789.0	953.0	801.0	0.0	0.0	T PULLED 1805 hr
D. Init Flow	62.0	16.0	59.0	0.0	0.0	T OUT 1930 hr
E. Final Flow	62.0	16.0	60.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1662.0	1712.0	1637.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 40000.00 lbs
						Initial Str Wt 28000.00 lbs
						Unseated Str Wt 28000.00 lbs

RECOVERY

Tot Fluid 90.00 ft of 0.00 ft in DC and 90.00 ft in DP
90.00 ft of Drilling Mud W/ few spots of oil at tool
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

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 3374.00 ft

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

BLOW DESCRIPTION

Initial Flow:
Slid tool 5' started with 1" blow
steady throughout

Initial Shut In:

Final Flow:

Slid tool 2', bled off 1', surge blow
no return - Tool out of Hole at
Company orders

Final Shut In:

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/c
Vis. 44.00 S/L
W.L. 12.00 in3
F.C. 0.00 in
Mud Drop Y 50.0 ft

Amt. of fill 7.00 ft
Btm. H. Temp. 0.00 F
Hole Condition Fair
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased Y 7.00 ft
Tester Rod Steinbrink
Co. Rep. Jerry Green
Contr. VonFedlt
Rig # 1
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Hall #1

LOCATION : 35-11S-17W Ellis KS

TICKET No. 9616 D.S.T. No. 1 DATE 2-2-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 21

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 103

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands54 Single Total 3374

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3477

TOTAL DEPTH 3445

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

P.O. SUB 1' Above 120' DP 3222
C.O. SUB 1' 3342

S.I. TOOL 5' 3348

HMV 5' 3353

JARS N/A

SAFETY JOINT N/A

PACKER Top 4' 3357

PACKER Bottom 5' 3362

DEPTH
STUBB 1' 3363

ANCHOR

Alp. Rec. @ 3365

13' Perf 3376

1' CO Sub 3377

62' DP 3439

1' CO Sub 3440

T.C.
DEPTH

AK-1 Rec. @ 3440

BULLNOSE 5'

T.D.

3445

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 9616 DST #1 Hall #1 Castle Resources Inc
 DATE: 02/02/97 TIME: 15:22:27

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	84.00	1644.7	0.0	92.65		
***** Start Flow 1	0.00	26.0	0.0	92.63		
	1.00	27.2	1.2	92.67		
	2.00	29.3	3.3	92.71		
	3.00	28.0	2.0	92.74		
	4.00	28.3	2.3	92.76		
	5.00	28.5	2.5	92.78		
	6.00	28.9	2.9	92.79		
	7.00	29.2	3.2	92.80		
	8.00	29.4	3.4	92.82		
	9.00	29.7	3.6	92.84		
	10.00	30.3	4.3	92.85		
	11.00	30.7	4.7	92.87		
	12.00	31.3	5.2	92.89		
	13.00	31.0	4.9	92.91		
	14.00	31.2	5.2	92.94		
	15.00	32.2	6.2	92.96		
	16.00	31.6	5.6	92.98		
	17.00	31.7	5.7	92.98		
	18.00	32.1	6.0	93.00		
	19.00	32.2	6.1	93.01		
	20.00	32.7	6.7	93.01		
	21.00	32.5	6.4	93.04		
	22.00	32.6	6.6	93.06		
	23.00	32.8	6.8	93.07		
	24.00	32.8	6.8	93.09		
	25.00	33.3	7.3	93.12		
	26.00	33.0	7.0	93.14		
	27.00	33.4	7.4	93.15		
	28.00	34.0	8.0	93.18		
	29.00	34.4	8.4	93.20		
	30.00	33.8	7.8	93.22		
	31.00	34.1	8.0	93.25		
	32.00	34.2	8.2	93.27		
	33.00	34.2	8.2	93.29		
***** End Flow 1	34.00	34.6	8.6	93.31		
***** Start Shutin 1	0.00	34.6	0.0	93.31	0.0000	0.001
	1.00	44.4	9.8	93.33	35.0000	0.002
	2.00	52.9	18.3	93.35	18.0000	0.003
	3.00	62.6	28.0	93.37	12.3333	0.004
	4.00	80.0	45.4	93.38	9.5000	0.006
	5.00	117.0	82.4	93.41	7.8000	0.014
	6.00	195.4	160.8	93.42	6.6667	0.038
	7.00	262.2	227.6	93.45	5.8571	0.069
	8.00	307.6	273.0	93.47	5.2500	0.095
	9.00	350.5	315.9	93.49	4.7778	0.123
	10.00	392.0	357.4	93.52	4.4000	0.154
	11.00	429.0	394.4	93.57	4.0909	0.184
	12.00	461.5	426.9	93.60	3.8333	0.213
	13.00	515.3	480.7	93.61	3.6154	0.266
	14.00	546.5	511.9	93.64	3.4286	0.299

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9616 DST #1 Hall #1 Castle Resources Inc

DATE: 02/02/97

TIME: 15:22:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	15.00	567.9	533.2	93.66	3.2667	0.322
	16.00	584.0	549.3	93.68	3.1250	0.341
	17.00	601.0	566.4	93.69	3.0000	0.361
	18.00	615.6	581.0	93.73	2.8889	0.379
	19.00	633.6	599.0	93.75	2.7895	0.401
	20.00	652.5	617.9	93.75	2.7000	0.426
	21.00	670.3	635.7	93.78	2.6190	0.449
	22.00	686.2	651.6	93.80	2.5455	0.471
	23.00	701.2	666.6	93.83	2.4783	0.492
	24.00	716.4	681.8	93.85	2.4167	0.513
	25.00	730.9	696.3	93.86	2.3600	0.534
	26.00	746.7	712.1	93.87	2.3077	0.558
	27.00	769.3	734.7	93.87	2.2593	0.592
***** End Shut-in 1	28.00	801.7	767.0	93.92	2.2143	0.643
***** Start Flow 2	0.00	59.3	0.0	95.59		
	1.00	59.7	0.4	95.64		
	2.00	60.0	0.7	95.62		
	3.00	59.9	0.6	95.62		
	4.00	60.0	0.7	95.62		
	5.00	60.1	0.8	95.58		
	6.00	60.2	0.9	95.58		
***** End Flow 2	7.00	60.3	1	95.57		
***** Start Shutin 2	0.00	60.3	0.0	95.57	0.0000	0.004
***** End Shut-in 2	1.00	1637.3	1577.0	95.63	42.0000	2.681
***** Final Hydro.	164.00	1637.3	0.0	95.63		

9616 DST #1 Hall #1 Castle Resources Inc TEST HISTORY

Flag Points

t(Min.) P(PSig)

A: 0.00 1644.74
 B: 0.00 26.05
 C: 34.00 34.61
 D: 28.00 801.66
 E: 0.00 59.31
 F: 7.00 60.28
 Q: 0.00 1637.28

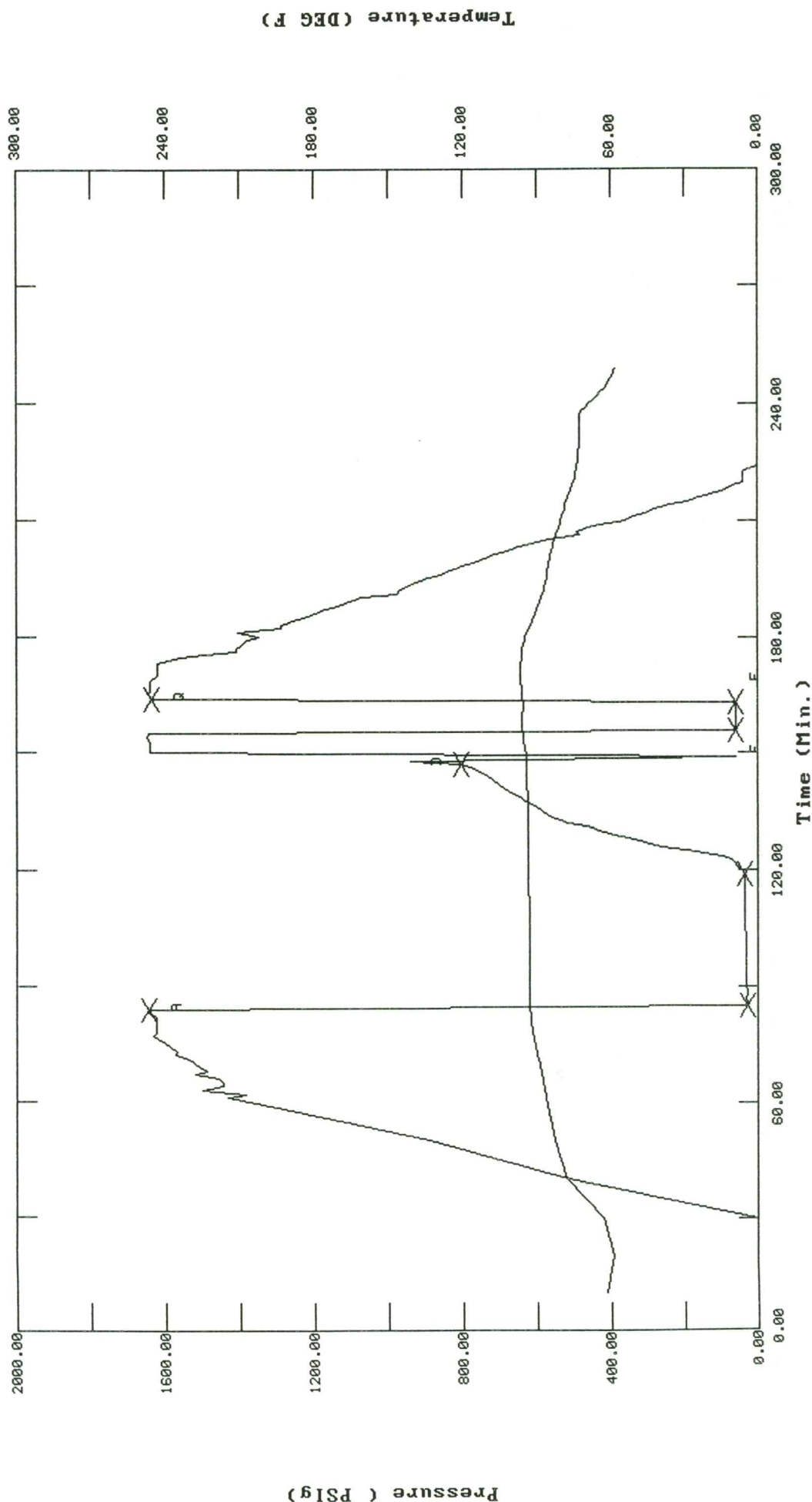
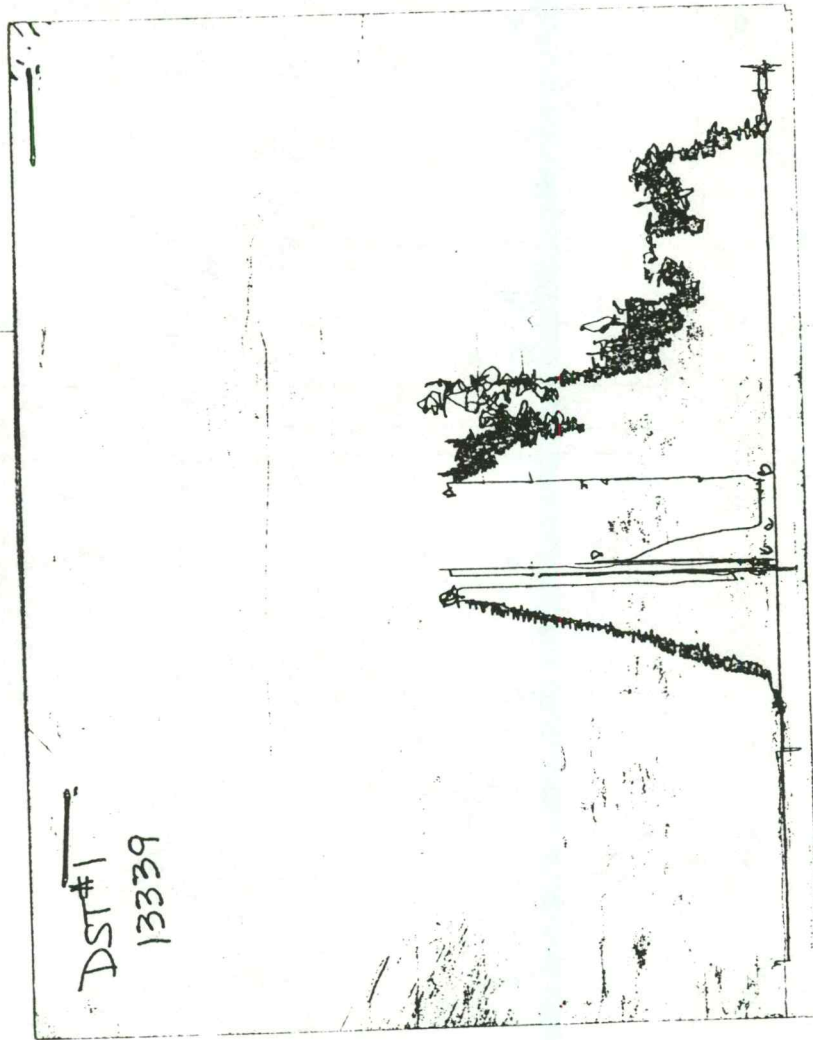


CHART PAGE



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

No 9616

Well Name & No.	Hall #1	Test No.	1	Date	2-2-97
Company	Castle Resources, Inc.	Zone Tested	Kansas City		
Address		Elevation	2109	KB	2101 GL
Co. Rep / Geo.	Jerry Green	Cont.	VonFeldt #1	Est. Ft. of Pay	Por. %
Location: Sec.	35	Twp.	11 ^S	Rge.	17 ^W
		Co.	Ellis	State	KS.
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3362 - 3445	Initial Str Wt./Lbs.	28,000	Unseated Str Wt./Lbs.	28,000
Anchor Length	83'	Wt. Set Lbs.	28,000	Wt. Pulled Loose/Lbs.	40,000
Top Packer Depth	3357	Tool Weight	1,800		
Bottom Packer Depth	3362	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	3445	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt. 9.1	LCM	Vis. 44	WL 12.0	Drill Pipe Size	4 1/2" XH
				Ft. Run	3374'
Blow Description	IF: Slid tool 5' Started w/ 1" blow steady throughout.				
	ISI: No return blow				
	FF: Slid tool 2' Bled off 1" surge blow - no return				

Recovery — Total Feet	90'	GIP		Ft. in DC	—	Ft. in DP	90'
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	90'	Feet Of	Drig. Mud	%gas	%oil	%water	%mud
Rec.		Feet Of	w/ few spot oil	%gas	%oil	%water	%mud
Rec.		Feet Of	@ tool	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	95°	°F Gravity		°API D@		°F Corrected Gravity	
°API							
RW		@		°F Chlorides		ppm Recovery	Chlorides 8,000
							ppm System
(A) Initial Hydrostatic Mud	1672	1644	PSI	Recorder No.	13339	T-Started	1522
(B) First Initial Flow Pressure	62	26	PSI	(depth)	3440	T-Open	1648
(C) First Final Flow Pressure	62	34	PSI	Recorder No.	2341	T-Pulled	1805
(D) Initial Shut-in Pressure	789	801	PSI	(depth)	3365	T-Out	1930
(E) Second Initial Flow Pressure	62	59	PSI	Recorder No.	—		
(F) Second Final Flow Pressure	62	60	PSI	(depth)	—		
(G) Final Shut-in Pressure			PSI	Initial Opening	30	Test	600
(H) Final Hydrostatic Mud	1662	1637	PSI	Initial Shut-in	30	Jars	
	Ak-1	Alp.		Final Flow	10	Safety Joint	
				Final Shut-in	—	Straddle	

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Approved By _____

Our Representative Rod Steinbrink

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