

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND PLUG

ORIGINAL

Operator: License # 9860
Name: CASTLE RESOURCES, INC.
Address 1200 East 27th Street, # C
City/State/Zip Hays, Kansas 67601-2120

Purchaser: _____
Operator Contact Person: Jerry Green

Phone (913)625-5155

Contractor: Name: Discovery Drilling, Inc.
License: 31548

Wellsite Geologist: Jerry Green

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD S1OW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

7/22/97 7/30/97 7/31/97
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20652 0000

County Logan

-SW -SE -SE Sec. 2 Twp. 11s Rge. 33w X ^E _W

330 Feet from S (circle one) Line of Section

990 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE), NW or SW (circle one)

Lease Name Carrie "A" Well # 1

Field Name Wildcat

Producing Formation None

Elevation: Ground 3108 KB 3116

Total Depth 4740 PBTB _____

Amount of Surface Pipe Set and Cemented at 287.44 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D & A, 4-2-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 17,000 ppm Fluid volume 1750 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature _____

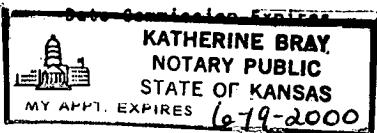
Title President Date 8-13-97

Subscribed and sworn to before me this 13th day of August, 1997.

Notary Public Katherine Bray

6-19-2000

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
(Specify)		



Operator Name CASTLE REOURC INC. Lease Name Carri A Well # 1
 Sec. 2 Twp. 11S Rge. 33W East West
 County Logan

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

ORIGINAL

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:
 DST #1 4288 - 4320
 DST #2 4608 - 4645

Name	Top	Datum
Heebner	4048	-932
Lansing	4088	-972
Stark Shale	4304	-1188
Johnson	4634	-1518
Mississippi	4700	-1584
RTD	4740	

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Pipe	12 1/4	8 5/8	28	287.44	60/40Poz	180	2%Gel&3%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
	N/A			

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	N-A			

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: _____

ALLIED CEMENTING CO., INC. 8245

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:
OKLEY

15-109-20052-00-00

DATE <u>7-22-97</u>	SEC. <u>2</u>	TWP. <u>115</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>11:00 PM</u>	JOB START <u>12:50 AM</u>	JOB FINISH <u>1:10 AM</u>
LEASE <u>CARRIE "A"</u>	WELL # <u>1</u>	LOCATION <u>OKLEY HW-1/2 N-1W</u>			COUNTY <u>LOGAN</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR DISCOVERY DRILL RIG #2

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 290'

CASING SIZE 8 5/8" DEPTH 287'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 17 1/2 BBL

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

191 HELPER DEAN

BULK TRUCK

218 DRIVER JEFF

BULK TRUCK

_____ DRIVER _____

REMARKS:

CEMENT ASD CIRC. ✓

THANK YOU

OWNER SAME

CEMENT

AMOUNT ORDERED 180 SKS 60/40/02 390CL 286

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

SERVICE

DEPTH OF JOB 287'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 8 5/8 SURFACE _____ @ _____

TOTAL _____

CHARGE TO: CASTLE RESOURCES INC.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or

TOTAL _____

ALLIED CEMENTING CO., INC.

5411

15-109-20652-00-00

ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Oakley

DATE <u>7-30-97</u>	SEC. <u>2</u>	TWP. <u>11</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>7:30 PM</u>	JOB START <u>10:15 PM</u>	JOB FINISH <u>1:00 AM</u>
LEASE <u>Carrie "A"</u>	WELL# <u>1</u>	LOCATION <u>4W 1/2 N 1 W Oakley</u>			COUNTY <u>Logan</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR <u>Discovery Drilling Inc Rig 2</u>	OWNER <u>Same</u>
TYPE OF JOB <u>PTA</u>	CEMENT
HOLE SIZE <u>7 1/8</u>	T.D. <u>1740'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2630'</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	

AMOUNT ORDERED 195 sks 60/40 Poz
69.6 gal 1/4" Flow Seal

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Degen</u>
# <u>300</u>	HELPER <u>Wayne</u>
BULK TRUCK	
# <u>218</u>	DRIVER <u>Jeff</u>
BULK TRUCK	
#	DRIVER

TOTAL _____

REMARKS:

1st Plug at 2630' w/ 20 sks
2nd Plug at 1610' w/ 100 sks
3rd Plug at 340' w/ 40 sk
4th Plug 40' w/ 10 sks
10 sks in mouse hole
15 sks in Rat Hole

Thank you

SERVICE

DEPTH OF JOB <u>2630'</u>	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
PLUG <u>Dry Hole</u>	@
	@
	@

TOTAL _____

15-109-20652-00-00
 7-30-97
 11:13 AM
 15-109-20652-00-00

CHARGE TO: Castle Resources, Inc

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

ORIGINAL

15-109-2065 2-00-00

WELL NAME: Carrie A #1
COMPANY: Castle Resources Inc.
LOCATION: 2-11S-33W
Logan County Kansas
DATE: 07/31/97

15-109-20652-00-00
TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources Inc
WELL NAME: Carrie "A" #1
LOCATION : 2-11-33-Logan Co Ks
INTERVAL : 4288.00 To 4320.00 ft

DATE 7-28-97

KB 3116.00 ft TICKET NO: 10410 DST #1
GR 3108.00 ft FORMATION: Lansing KC "K"
TD 4320.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13754	13754	2357			PF Fr. 0608 to 0658 hr
SI 45 Range (Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0658 to 0738 hr
SF 45 Clock (hrs)	12 hr	12 hr	Elec			SF Fr. 0738 to 0823 hr
FS 45 Depth(ft)	4317.0	4317.0	4290.0	0.0	0.0	FS Fr. 0823 to 0908 hr

	Field	1	2	3	4	
A. Init Hydro	2269.0	2159.0	2146.0	0.0	0.0	T STARTED 0326 hr
B. First Flow	59.0	50.0	24.0	0.0	0.0	T ON BOTM 0606 hr
B1. Final Flow	68.0	53.0	37.0	0.0	0.0	T OPEN 0608 hr
C. In Shut-in	739.0	736.0	736.0	0.0	0.0	T PULLED 0908 hr
D. Init Flow	68.0	71.0	40.0	0.0	0.0	T OUT 1050 hr
E. Final Flow	68.0	71.0	47.0	0.0	0.0	
F. Fl Shut-in	679.0	675.0	674.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2137.0	2138.0	2098.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 45000.00 lbs
						Unseated Str Wt 45000.00 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 30.00 ft
						D.P. Length 4258.00 ft

RECOVERY

Tot Fluid 65.00 ft of 30.00 ft in DC and 35.00 ft in DP
1.00 ft of Clean oil
64.00 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

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

BLOW DESCRIPTION

Initial Blow:
Weak steady surface blow

Final Blow:
Weak steady surface blow

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/c
Vis. 57.00 S/L
W.L. 8.00 in3
F.C. 0.00 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 121.00 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. Discovery
Rig # 2
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Carrie "A" #1
 LOCATION : 2-11-33-Logan Co Ks
 TICKET No. 10410 D.S.T. No. 1 DATE 7-28-97
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 20
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 32
 TOTAL TOOL 52
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 52
 D.C. ABOVE TOOLS.Stands Single 1 Total 30
 D.P. ABOVE TOOLS.Stands78 Single 1 Total 4258
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4340
 TOTAL DEPTH 4320
 TOTAL DRILL PIPE ABOVE K.B. 20
 REMARKS:

P.O. SUB	
C.O. SUB	4268
S.I. TOOL	4274
HMV	4279
JARS n\a	
SAFETY JOINT n\a	
PACKER	4283
PACKER	4288
DEPTH 4288	
STUBB 1'	4289
ANCHOR 1' Perfs	4290
Alpine Rec. @	4290
5' Perfs	4295
5' Perfs	4300
5' Perfs	4305
T.C. DEPTH	
5' Perfs	4310
5' Perfs	4315
AK-1 Rec. @	4317
BULLNOSE 5' Bullplug	4320
T.D.	

15-109-20652-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10410 DST# 1 Carrie "A" #1 Castle Res. Inc

DATE: 07/28/97

TIME: 03:27:26

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	163.00	2145.9	0.0	116.63		
***** Start Flow 1	0.00	24.0	0.0	116.93		
	1.00	24.1	0.1	116.94		
	2.00	24.9	0.9	116.93		
	3.00	25.3	1.3	116.91		
	4.00	25.8	1.8	116.89		
	5.00	26.4	2.4	116.88		
	6.00	27.3	3.3	116.86		
	7.00	27.6	3.6	116.85		
	8.00	28.5	4.5	116.84		
	9.00	29.7	5.7	116.85		
	10.00	30.3	6.3	116.85		
	11.00	30.7	6.7	116.87		
	12.00	31.2	7.2	116.90		
	13.00	31.5	7.5	116.94		
	14.00	31.9	7.9	116.98		
	15.00	32.1	8.1	117.03		
	16.00	32.3	8.3	117.07		
	17.00	32.3	8.3	117.14		
	18.00	32.5	8.5	117.22		
	19.00	32.7	8.7	117.33		
	20.00	33.0	9.0	117.43		
	21.00	33.1	9.1	117.53		
	22.00	33.1	9.1	117.61		
	23.00	33.4	9.4	117.68		
	24.00	33.5	9.5	117.74		
	25.00	33.6	9.6	117.80		
	26.00	33.7	9.7	117.84		
	27.00	34.0	10	117.89		
	28.00	34.2	10.2	117.92		
	29.00	34.3	10.3	117.96		
	30.00	34.5	10.5	117.98		
	31.00	34.7	10.7	118.01		
	32.00	34.8	10.8	118.02		
	33.00	35.1	11.1	118.04		
	34.00	35.2	11.2	118.05		
	35.00	35.4	11.4	118.07		
	36.00	35.5	11.5	118.08		
	37.00	35.4	11.4	118.09		
	38.00	35.7	11.7	118.11		
	39.00	35.9	11.9	118.12		
	40.00	36.0	12.0	118.14		
	41.00	36.2	12.3	118.16		
	42.00	36.5	12.5	118.18		
	43.00	36.9	12.9	118.20		
***** End Flow 1	44.00	37.3	13.3	118.23		
***** Start Shutin 1	0.00	37.3	0.0	118.23	0.0000	0.001
	1.00	45.7	8.5	118.27	45.0000	0.002
	2.00	71.7	34.5	118.32	23.0000	0.005
	3.00	101.0	63.8	118.37	15.6667	0.010
	4.00	129.2	91.9	118.42	12.0000	0.017

15-109-20652-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10410 DST# 1 Carrie "A" #1 Castle Res. Inc

DATE: 07/28/97

TIME: 03:27:26

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
5.00	157.3	120.0	118.46	9.8000	0.025	
6.00	186.9	149.6	118.50	8.3333	0.035	
7.00	218.5	181.3	118.53	7.2857	0.048	
8.00	252.4	215.2	118.56	6.5000	0.064	
9.00	287.9	250.6	118.58	5.8889	0.083	
10.00	323.4	286.2	118.61	5.4000	0.105	
11.00	358.4	321.1	118.63	5.0000	0.128	
12.00	391.4	354.2	118.66	4.6667	0.153	
13.00	422.0	384.7	118.68	4.3846	0.178	
14.00	450.0	412.8	118.71	4.1429	0.203	
15.00	475.3	438.0	118.72	3.9333	0.226	
16.00	498.2	460.9	118.75	3.7500	0.248	
17.00	518.8	481.6	118.77	3.5882	0.269	
18.00	537.6	500.4	118.79	3.4444	0.289	
19.00	554.7	517.4	118.80	3.3158	0.308	
20.00	570.2	532.9	118.82	3.2000	0.325	
21.00	584.4	547.1	118.84	3.0952	0.342	
22.00	597.2	560.0	118.85	3.0000	0.357	
23.00	608.8	571.5	118.87	2.9130	0.371	
24.00	619.5	582.3	118.89	2.8333	0.384	
25.00	629.8	592.5	118.90	2.7600	0.397	
26.00	639.2	601.9	118.91	2.6923	0.409	
27.00	647.9	610.7	118.92	2.6296	0.420	
28.00	656.0	618.7	118.94	2.5714	0.430	
29.00	663.6	626.4	118.96	2.5172	0.440	
30.00	670.7	633.5	118.97	2.4667	0.450	
31.00	677.2	639.9	118.99	2.4194	0.459	
32.00	683.4	646.2	119.00	2.3750	0.467	
33.00	689.1	651.9	119.02	2.3333	0.475	
34.00	694.6	657.3	119.03	2.2941	0.482	
35.00	699.8	662.5	119.04	2.2571	0.490	
36.00	704.6	667.3	119.06	2.2222	0.496	
37.00	709.3	672.0	119.09	2.1892	0.503	
38.00	713.7	676.5	119.09	2.1579	0.509	
39.00	717.9	680.7	119.10	2.1282	0.515	
40.00	721.8	684.5	119.11	2.1000	0.521	
41.00	725.7	688.5	119.13	2.0732	0.527	
42.00	729.2	692.0	119.15	2.0476	0.532	
43.00	732.6	695.3	119.16	2.0233	0.537	
***** End Shut-in 1	44.00	736.0	698.7	119.18	2.0000	0.542
***** Start Flow 2	0.00	40.3	0.0	119.16		
	1.00	40.4	0.1	119.18		
	2.00	39.9	-0.3	119.22		
	3.00	40.3	0.0	119.27		
	4.00	40.4	0.2	119.32		
	5.00	40.4	0.2	119.38		
	6.00	40.7	0.4	119.45		
	7.00	40.9	0.7	119.51		
	8.00	41.0	0.8	119.57		
	9.00	41.3	1.0	119.62		
	10.00	41.6	1.3	119.66		

15-109-20652-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10410 DST# 1 Carrie "A" #1 Castle Res. Inc

DATE: 07/28/97

TIME: 03:27:26

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
11.00	41.7	1.4	119.70			
12.00	41.9	1.6	119.73			
13.00	42.0	1.7	119.75			
14.00	42.1	1.8	119.78			
15.00	42.3	2.0	119.80			
16.00	42.5	2.3	119.83			
17.00	42.5	2.3	119.85			
18.00	42.7	2.4	119.89			
19.00	42.8	2.5	119.91			
20.00	42.8	2.5	119.94			
21.00	43.0	2.8	119.97			
22.00	43.2	2.9	119.99			
23.00	43.2	2.9	120.02			
24.00	43.4	3.1	120.04			
25.00	43.5	3.3	120.06			
26.00	43.6	3.4	120.08			
27.00	43.6	3.4	120.09			
28.00	43.8	3.5	120.12			
29.00	43.9	3.6	120.14			
30.00	44.1	3.8	120.16			
31.00	44.1	3.9	120.18			
32.00	44.3	4.0	120.21			
33.00	44.3	4.0	120.24			
34.00	44.6	4.3	120.27			
35.00	44.7	4.4	120.30			
36.00	44.9	4.6	120.33			
37.00	45.1	4.8	120.36			
38.00	45.1	4.9	120.38			
39.00	45.5	5.2	120.42			
40.00	45.6	5.4	120.45			
41.00	45.7	5.5	120.47			
42.00	45.9	5.6	120.49			
43.00	46.1	5.8	120.52			
44.00	46.2	5.9	120.54			
45.00	46.3	6.0	120.56			
46.00	46.6	6.3	120.58			
***** End Flow 2						
***** Start Shutin 2	0.00	46.6	0.0	120.58	0.0000	0.002
	1.00	62.1	15.5	120.60	91.0000	0.004
	2.00	81.4	34.8	120.62	46.0000	0.007
	3.00	103.4	56.8	120.63	31.0000	0.011
	4.00	126.1	79.5	120.64	23.5000	0.016
	5.00	150.1	103.6	120.66	19.0000	0.023
	6.00	176.1	129.5	120.66	16.0000	0.031
	7.00	203.8	157.2	120.67	13.8571	0.042
	8.00	233.1	186.5	120.67	12.2500	0.054
	9.00	262.9	216.4	120.69	11.0000	0.069
	10.00	293.2	246.6	120.69	10.0000	0.086
	11.00	322.1	275.5	120.70	9.1818	0.104
	12.00	349.6	303.1	120.71	8.5000	0.122
	13.00	375.7	329.1	120.71	7.9231	0.141
	14.00	399.6	353.0	120.72	7.4286	0.160

15-109-20652-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10410 DST# 1 Carrie "A" #1 Castle Res. Inc

DATE: 07/28/97

TIME: 03:27:26

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
15.00	421.3	374.7	120.73	7.0000	0.178	
16.00	441.5	394.9	120.73	6.6250	0.195	
17.00	459.7	413.2	120.75	6.2941	0.211	
18.00	476.6	430.0	120.75	6.0000	0.227	
19.00	492.0	445.4	120.76	5.7368	0.242	
20.00	505.9	459.3	120.76	5.5000	0.256	
21.00	519.1	472.5	120.78	5.2857	0.269	
22.00	530.9	484.3	120.79	5.0909	0.282	
23.00	542.2	495.7	120.79	4.9130	0.294	
24.00	552.4	505.8	120.80	4.7500	0.305	
25.00	562.1	515.5	120.81	4.6000	0.316	
26.00	571.0	524.4	120.83	4.4615	0.326	
27.00	579.1	532.5	120.83	4.3333	0.335	
28.00	587.0	540.4	120.84	4.2143	0.345	
29.00	594.2	547.6	120.84	4.1034	0.353	
30.00	601.2	554.6	120.86	4.0000	0.361	
31.00	607.6	561.1	120.87	3.9032	0.369	
32.00	613.8	567.2	120.87	3.8125	0.377	
33.00	619.5	572.9	120.88	3.7273	0.384	
34.00	625.1	578.5	120.89	3.6471	0.391	
35.00	630.5	583.9	120.90	3.5714	0.397	
36.00	635.2	588.7	120.90	3.5000	0.404	
37.00	640.0	593.5	120.91	3.4324	0.410	
38.00	644.4	597.8	120.92	3.3684	0.415	
39.00	648.7	602.1	120.92	3.3077	0.421	
40.00	652.7	606.1	120.93	3.2500	0.426	
41.00	656.7	610.2	120.94	3.1951	0.431	
42.00	660.4	613.8	120.95	3.1429	0.436	
43.00	664.1	617.5	120.96	3.0930	0.441	
44.00	667.6	621.0	120.96	3.0455	0.446	
45.00	670.7	624.2	120.97	3.0000	0.450	
**** End Shut-in 2	46.00	674.1	627.5	120.98	2.9565	0.454

**** Final Hydro. 349.00 2098.0 0.0 121.09

TEST HISTORY

Tk# 10410 DST# 1 Carrie "A" #1 Castle Res. Inc

Flag Points
t(Min.) P(PSIg)

A:	0.00	2145.86
B:	0.00	23.99
C:	44.00	37.26
D:	44.00	735.95
E:	0.00	40.28
F:	46.00	46.57
G:	46.00	674.10
Q:	0.00	2098.02

15-109-20052-00-00

Pressure (PSIg)

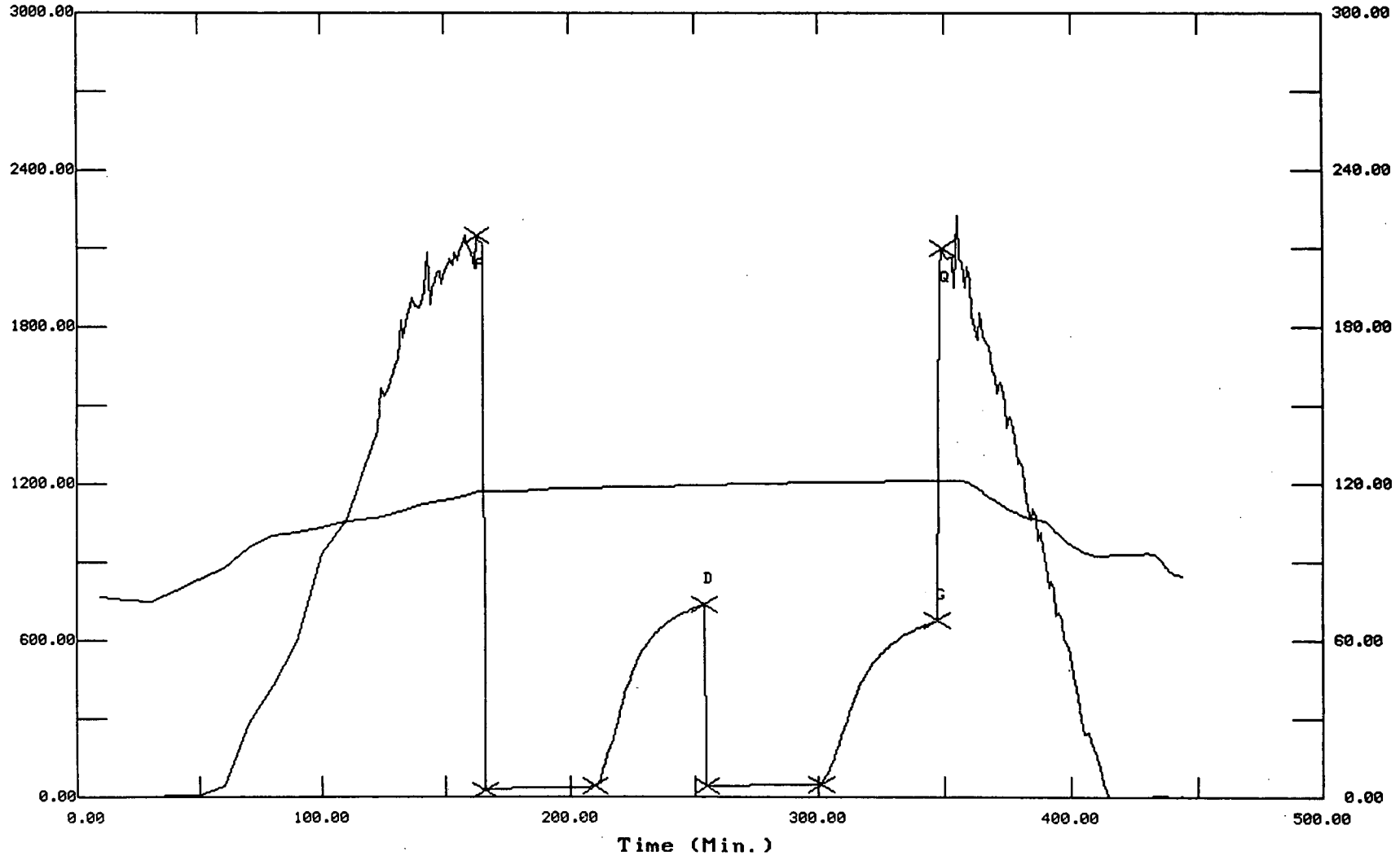
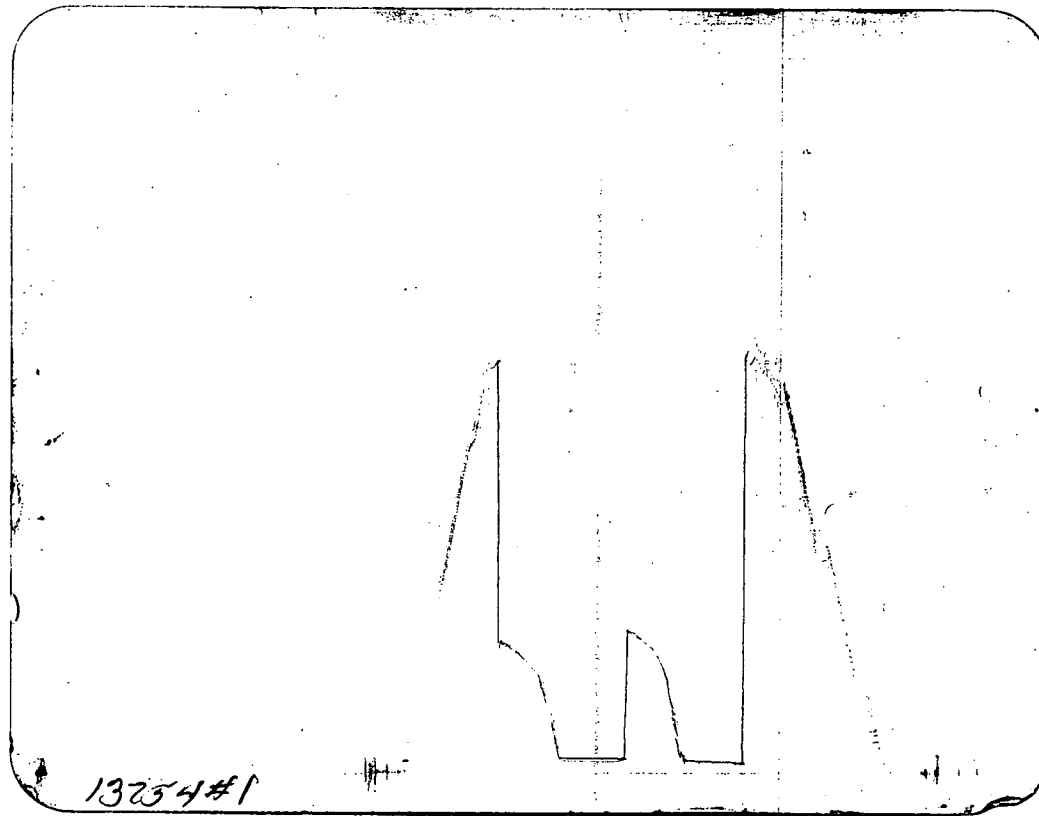


CHART PAGE



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

15-109-20652-00-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-109-20652-00-00

Test Ticket

No 10410

Well Name & No. <u>Carrie "A" # 1</u>	Test No. <u>1</u>	Date <u>7-28-97</u>
Company <u>Castle Res. Inc</u>	Zone Tested <u>"K" hkc</u>	
Address <u>1200 E. 27th #C, Hays, Ks 67601</u>	Elevation <u>3116</u>	KB <u>3108</u> GL
Co. Rep / Geo. <u>Jenny Green</u>	Cont. <u>Discovery # 2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>2</u>	Twp. <u>11</u>	Rge. <u>33</u> Co. <u>Logan</u> State <u>Ks</u>
No. of Copies <u>Norm</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested 4288 - 4320 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 32 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 4283 Tool Weight 1000
 Bottom Packer Depth 4288 Hole Size — 7.7/8" Rubber Size — 6 3/4"
 Total Depth 4320 Wt. Pipe Run _____ Drill Collar Run 90
 Mud Wt. 9.1 LCM _____ Vis. 57 WL 8 Drill Pipe Size 4.5 x H Ft. Run 4258
 Blow Description I.F. Weak steady surface blow

E.F. Weak-steady surface blow

Recovery — Total Feet <u>65</u>	GIP _____	Ft. in DC <u>30</u>	Ft. in DP <u>35</u>
Rec. <u>61</u> Feet Of <u>C.O.</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>64</u> Feet Of <u>D.M.</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 121 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7,000 ppm System

(A) Initial Hydrostatic Mud <u>2269</u> <u>2146</u> PSI	Recorder No. <u>2357</u>	T-Started <u>03:26</u>
(B) First Initial Flow Pressure <u>59</u> <u>24</u> PSI	(depth) <u>4290</u>	T-Open <u>06:08</u>
(C) First Final Flow Pressure <u>68</u> <u>37</u> PSI	Recorder No. <u>13754</u>	T-Pulled <u>09:08</u>
(D) Initial Shut-in Pressure <u>739</u> <u>736</u> PSI	(depth) <u>4317</u>	T-Out <u>10:50</u>
(E) Second Initial Flow Pressure <u>68</u> <u>40</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>68</u> <u>47</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>679</u> <u>674</u> PSI	Initial Opening <u>45</u>	Test _____
(H) Final Hydrostatic Mud <u>2137</u> <u>2098</u> PSI	Initial Shut-in <u>45</u>	Jars _____
<u>AK-1 Alpine</u>	Final Flow <u>45</u>	Safety Joint _____
	Final Shut-in <u>45</u>	Straddle _____

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 _____
 Our Representative Dan Rangle

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

15-109-20652-00-00

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources Inc
WELL NAME: Carrie "A" #1
LOCATION : 2-11-33-Logan Co Ks
INTERVAL : 4608.00 To 4645.00 ft

DATE 7-29-97

KB 3116.00 ft TICKET NO: 10411 DST #2
GR 3108.00 ft FORMATION: Johnson
TD 4645.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 20 Rec.	13754	13754	2357			PF Fr. 2020 to 2040 hr
SI 30 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 2040 to 2110 hr
SF 0 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. to hr
FS 0 Depth(ft)	4642.0	4642.0	4610.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2370.0	2333.0	2357.0	0.0	0.0	T STARTED 1843 hr
B. First Flow	39.0	31.0	20.0	0.0	0.0	T ON BOTM 2018 hr
B1. Final Flow	39.0	31.0	23.0	0.0	0.0	T OPEN 2020 hr
C. In Shut-in	59.0	58.0	51.0	0.0	0.0	T PULLED 2110 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2300 hr
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	2309.0	2271.0	2267.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 1000.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 47000.00 lbs
						Unseated Str Wt 47000.00 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 30.00 ft
						D.P. Length 4564.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
5.00 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

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

BLOW DESCRIPTION

Initial Blow:
Weak blow died in 10 mins

No second flow

SAMPLES:
SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	9.40 lb/c
Vis.	53.00 S/L
W.L.	8.20 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

15-109-20652-00-00

*** TOOL DIAGRAM *** CONV

WELL NAME: Carrie "A" #1	P.O. SUB	
	C.O. SUB	4588
LOCATION : 2-11-33-Logan Co Ks	S.I. TOOL	4594
TICKET No. 10411 D.S.T. No. 2 DATE 7-29-97		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 20	HMV	4599
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 37	JARS n\a	
TOTAL TOOL 57		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT n\a	
D.P. ANCHOR STND.Stands Single Total	PACKER	4603
TOTAL ASSEMBLY 57	PACKER	4608
D.C. ABOVE TOOLS.Stands Single 1 Total 30	DEPTH 4608	
D.P. ABOVE TOOLS.Stands Single Total 4564	STUBB 1'	4609
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4651	ANCHOR 1' Perfs	4610
TOTAL DEPTH 4645	Alpine Rec. @ 4610	
TOTAL DRILL PIPE ABOVE K.B. 6		
REMARKS:	5' Perfs	4615
	5' Perfs	4620
	5' Perfs	4625
	T.C.	
	DEPTH	
	5' Perfs	4630
	5' Perfs	4635
	5' Perfs	4640
	AK-1 Rec. @ 4642	
	BULLNOSE 5' Bullplug	4645
	T.D.	

15-109-20652-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10411 DST #2 Carrie "A" #1 Castle Res Inc

DATE: 07/29/97

TIME: 18:44:36

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	101.00	2292.1	0.0	118.47		
***** Start Flow 1	0.00	19.7	0.0	118.69		
	1.00	20.1	0.4	118.89		
	2.00	20.4	0.7	119.02		
	3.00	20.4	0.7	119.11		
	4.00	20.6	0.9	119.17		
	5.00	20.7	1.0	119.21		
	6.00	20.6	0.9	119.24		
	7.00	20.9	1.2	119.26		
	8.00	20.9	1.2	119.28		
	9.00	20.8	1.1	119.29		
	10.00	21.1	1.4	119.29		
	11.00	22.0	2.3	119.31		
	12.00	22.3	2.6	119.33		
	13.00	22.3	2.6	119.35		
	14.00	22.6	2.9	119.36		
	15.00	22.7	2.9	119.37		
	16.00	22.6	2.9	119.39		
	17.00	22.7	2.9	119.40		
***** End Flow 1	18.00	22.7	2.9	119.41		
***** Start Shutin 1	0.00	22.7	0.0	119.41	0.0000	0.001
	1.00	20.6	-2.0	119.43	19.0000	0.000
	2.00	21.5	-1.2	119.44	10.0000	0.000
	3.00	22.4	-0.3	119.46	7.0000	0.001
	4.00	23.3	0.7	119.47	5.5000	0.001
	5.00	24.0	1.3	119.49	4.6000	0.001
	6.00	25.0	2.4	119.51	4.0000	0.001
	7.00	25.8	3.2	119.53	3.5714	0.001
	8.00	26.8	4.1	119.56	3.2500	0.001
	9.00	27.5	4.9	119.58	3.0000	0.001
	10.00	28.4	5.8	119.60	2.8000	0.001
	11.00	29.4	6.7	119.62	2.6364	0.001
	12.00	30.4	7.7	119.65	2.5000	0.001
	13.00	31.2	8.6	119.67	2.3846	0.001
	14.00	32.2	9.6	119.69	2.2857	0.001
	15.00	33.2	10.6	119.73	2.2000	0.001
	16.00	34.1	11.4	119.75	2.1250	0.001
	17.00	35.2	12.5	119.78	2.0588	0.001
	18.00	36.1	13.4	119.81	2.0000	0.001
	19.00	37.1	14.4	119.84	1.9474	0.001
	20.00	38.3	15.6	119.86	1.9000	0.001
	21.00	39.4	16.7	119.89	1.8571	0.002
	22.00	40.5	17.9	119.92	1.8182	0.002
	23.00	41.6	19.0	119.95	1.7826	0.002
	24.00	42.6	20.0	119.98	1.7500	0.002
	25.00	43.7	21.1	120.01	1.7200	0.002
	26.00	44.8	22.2	120.04	1.6923	0.002
	27.00	46.2	23.5	120.07	1.6667	0.002
	28.00	47.3	24.7	120.09	1.6429	0.002
	29.00	48.5	25.8	120.12	1.6207	0.002
	30.00	49.8	27.2	120.16	1.6000	0.002

15-109-20652-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk# 10411 DST #2 Carrie "A" #1 Castle Res Inc

DATE: 07/29/97

TIME: 18:44:36

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** End Shut-in 1	31.00	51.1	28.5	120.19	1.5806	0.003
***** Final Hydro.	152.00	2217.9	0.0	120.31		

TEST HISTORY

Tk# 10411 DST #2 Carrie "A" #1 Castle Res Inc

Flag Points
t (Min.) P (PSig)

A: 0.00 2292.06
B: 0.00 19.71
C: 18.00 22.65
D: 31.00 51.10
Q: 0.00 2217.87

15-109-20652-00-00

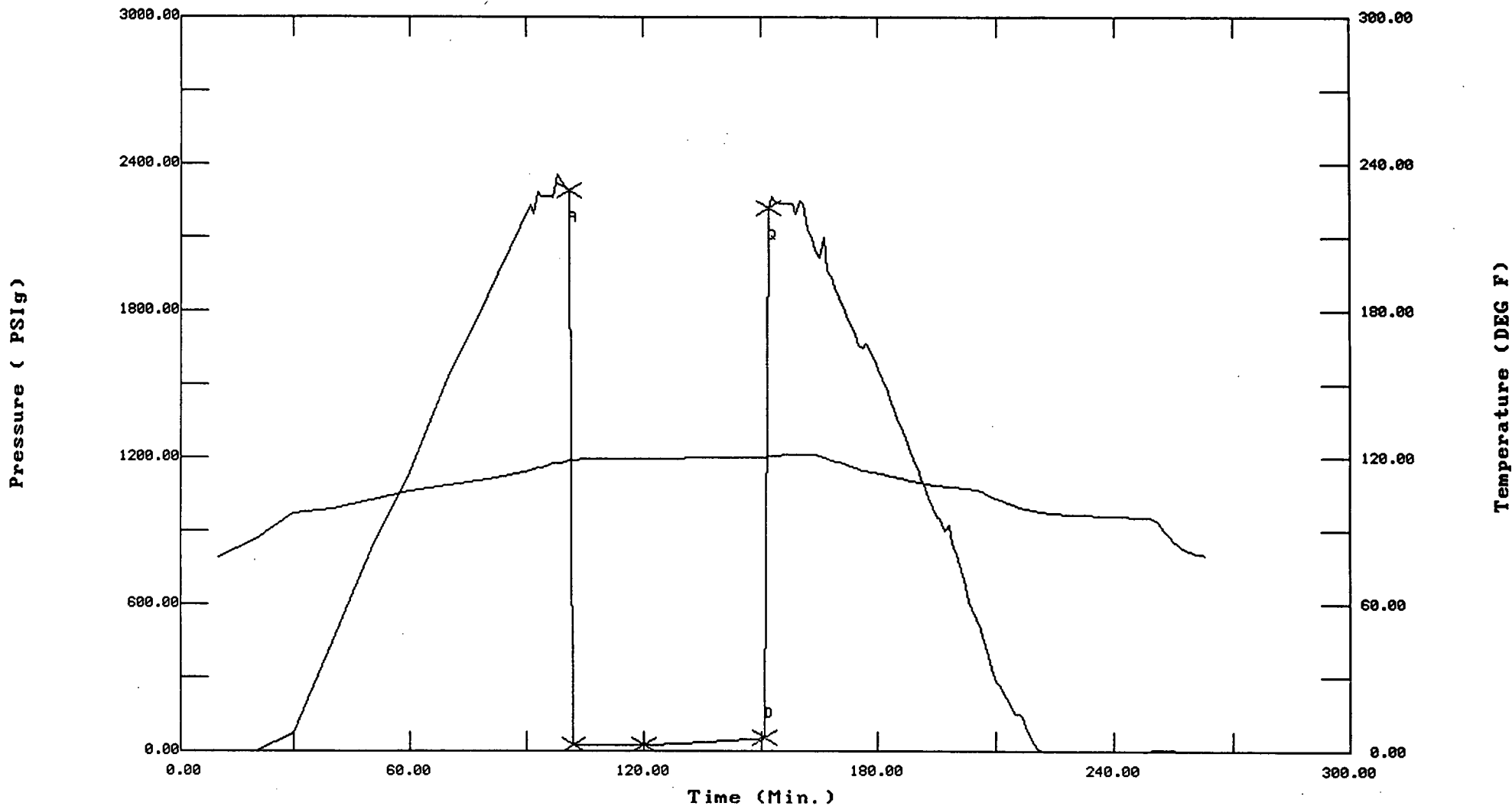
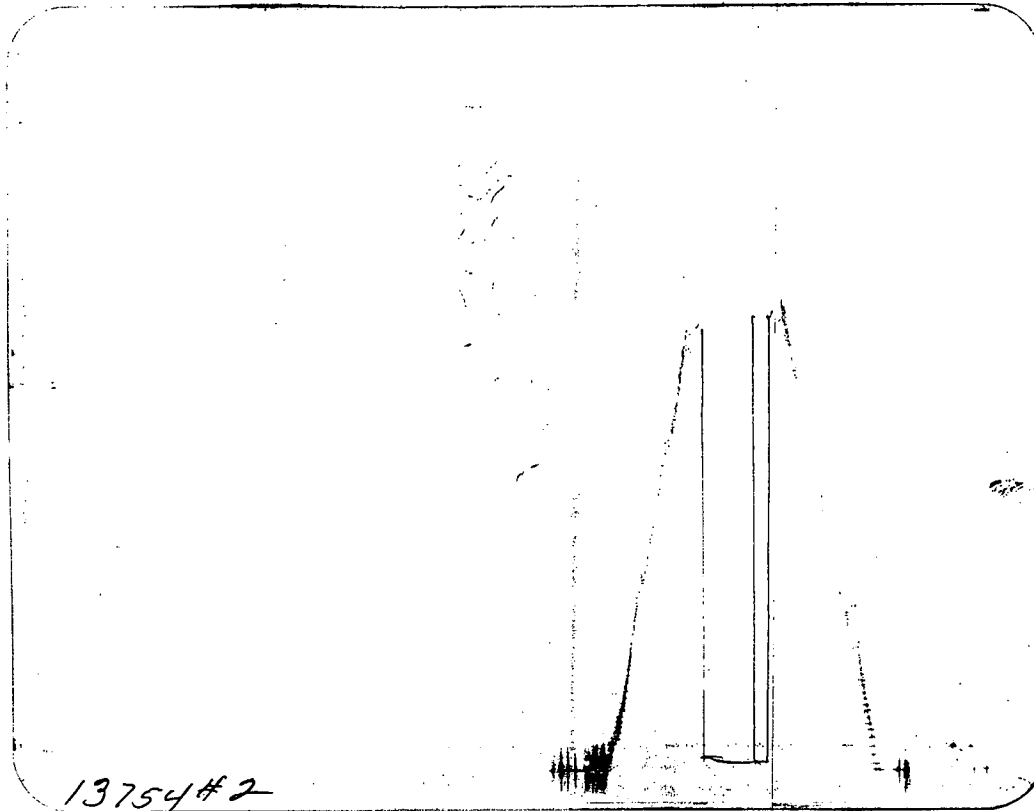


CHART PAGE



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

15-109-20652-00-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-109-20652-00-00

Test Ticket

No 10411

Well Name & No. <u>Carnie "A" #1</u>	Test No. <u>2</u>	Date <u>7-29-97</u>
Company <u>Castle Res. Inc.</u>	Zone Tested <u>Johnson</u>	
Address _____	Elevation <u>3116</u> KB <u>3108</u> GL	
Co. Rep/Geo. <u>Jerry Green</u>	Cont. <u>Discovery #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>2</u> Twp. <u>11</u> Rge. <u>33</u>	Co. <u>Logan</u>	State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4608 - 4645</u>	Initial Str Wt./Lbs. <u>47,000</u>	Unseated Str Wt./Lbs. <u>47,000</u>
Anchor Length <u>37</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>4603</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>4608</u>	Hole Size — 7 7/8" _____	Rubber Size — 6 3/4" _____
Total Depth <u>4645</u>	Wt. Pipe Run _____	Drill Collar Run <u>30</u>
Mud Wt. <u>9.4</u> LCM _____	Vis. <u>5.3</u> WL <u>8.2</u>	Drill Pipe Size <u>4.5 X H</u> Ft. Run <u>4564</u>
Blow Description <u>I.F. Weak - Died in 10 min. flushed tool</u> <u>No help.</u>		

Recovery — Total Feet <u>5</u>	GIP _____	Ft. in DC <u>5</u>	Ft. in DP _____
Rec. <u>5</u> Feet Of <u>D.M.</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 120 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9,000 ppm System

(A) Initial Hydrostatic Mud	<u>2370</u> <u>2357</u> PSI	Recorder No. <u>2357</u>	T-Started <u>17:57-18:43</u>
(B) First Initial Flow Pressure	<u>39</u> <u>20</u> PSI	(depth) <u>4610</u>	T-Open <u>20:20</u>
(C) First Final Flow Pressure	<u>39</u> <u>23</u> PSI	Recorder No. <u>13754</u>	T-Pulled <u>21:10</u>
(D) Initial Shut-in Pressure	<u>59</u> <u>51</u> PSI	(depth) <u>4642</u>	T-Out <u>23:00</u>
(E) Second Initial Flow Pressure	— — PSI	Recorder No. _____	
(F) Second Final Flow Pressure	— — PSI	(depth) _____	
(G) Final Shut-in Pressure	— — PSI	Initial Opening <u>25</u>	Test _____
(H) Final Hydrostatic Mud	<u>2309</u> <u>2267</u> PSI	Initial Shut-in <u>30</u>	Jars _____
	Final Flow <u>—</u>	Safety Joint _____	
	Final Shut-in <u>—</u>	Straddle _____	

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Approved By _____

Our Representative Dave Bangle

Elect. Rec. _____
 Other _____
 TOTAL PRICE \$ _____