

IND

ORIGINAL

Well Name: Marcus #1
Company: Castle Resources Inc.
Location: 15-5s-21w
Norton county Kansas
Date: 11-30-99

15-157-20412-00-00

RECEIVED
STATE CORPORATION COMMISSION

MAR 16 2000

CONSERVATION DIVISION
Wichita, Kansas

15-5-21w

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Castle Resources Inc.

DATE 11-24-99

WELL NAME: Marcus #1

KB 2099.00 ft

TICKET NO: 12409

DST #1

LOCATION : 15-5s-21w Norton co KS

GR 2094.00 ft

FORMATION: Reagon

INTERVAL : 3470.00 To 3539.00 ft

TD 3539.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	11084	11084	3227	13308		PF Fr. 0158 to 0243 hr
SI 45 Range(Psi)	4200.0	4200.0	4995.0	4700.0	0.0	IS Fr. 0243 to 0328 hr
SF 45 Clock(hrs)	12	12	elect	12		SF Fr. 0328 to 0413 hr
FS 45 Depth(ft)	3293.0	3293.0	3260.0	3302.0	0.0	FS Fr. 0413 to 0458 hr

	Field	1	2	3	4	
A. Init Hydro	1767.0	1758.0	1697.0	0.0	0.0	T STARTED 0000 hr
B. First Flow	77.0	79.0	17.0	0.0	0.0	T ON BOTM 0156 hr
B1. Final Flow	143.0	133.0	98.0	0.0	0.0	T OPEN 0156 hr
C. In Shut-in	1067.0	1071.0	1043.0	0.0	0.0	T PULLED 0458 hr
D. Init Flow	154.0	158.0	104.0	0.0	0.0	T OUT 0700 hr
E. Final Flow	186.0	189.0	145.0	0.0	0.0	
F. Fl Shut-in	1056.0	1052.0	1019.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1681.0	1684.0	1638.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0	I	s		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 58000.00 lbs
						Initial Str Wt 36000.00 lbs
						Unseated Str Wt 36000.00 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 232.00 ft
						D.P. Length 3227.00 ft

RECOVERY

Tot Fluid 282.00 ft of 232.00 ft in DC and 50.00 ft in DP
 50.00 ft of Slightly oil cut mud 10% oil 90% mud
 0.00 ft of
 232.00 ft of Slightly oil & water cut mud
 0.00 ft of 5% oil 35% water 60% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw .32@ 82 Bottom sample
 SALINITY 18000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak building to 8"

Initial Shut-in:
 Weak surface blow died in 5 min

Final Flow:
 Very weak surface blow building to 7"

Final Shut-in:
 Weak surface blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	97.00 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	Paul Simpson
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Marcus #1

LOCATION : 15-5s-21w Norton co KS

TICKET No. 12409 D.S.T. No. 1 DATE 11-24-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 8

TOTAL TOOL 29

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 61

TOTAL ASSEMBLY 90

D.C. ABOVE TOOLS.Stands4 Single Total 232

D.P. ABOVE TOOLS.Stands53 Single 1 Total 3227

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3549

TOTAL DEPTH 3539

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:

P.O. SUB Top of tool @	3234
C.O. SUB	
S.I. TOOL Sterling	3240
HMV Sterling	3245
JARS n/a	
SAFETY JOINT n/a	
PACKER top	3249
PACKER bottom	3254
DEPTH 3254	
STUBB 1'	3255
ANCHOR	
5' perf	3260
Alpine @ 3260'	
1 joint of pipe & subs to	3293
AK-1 rec @ 3293	
3' perf	3296
T.C. blank off sub	3297
DEPTH	
PACKER Straddle	3301
Straddle AK-1@	3302
1 stand of drill pipe & 4 stands of drill collar & subs to	3599
BULLNOSE	
T.D. 3' to	3539

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A:	0.00	1697.43
B:	0.00	16.87
C:	46.00	97.92
D:	44.50	1043.42
E:	0.00	103.68
F:	44.75	145.12
G:	46.25	1018.87
H:	0.00	1638.41

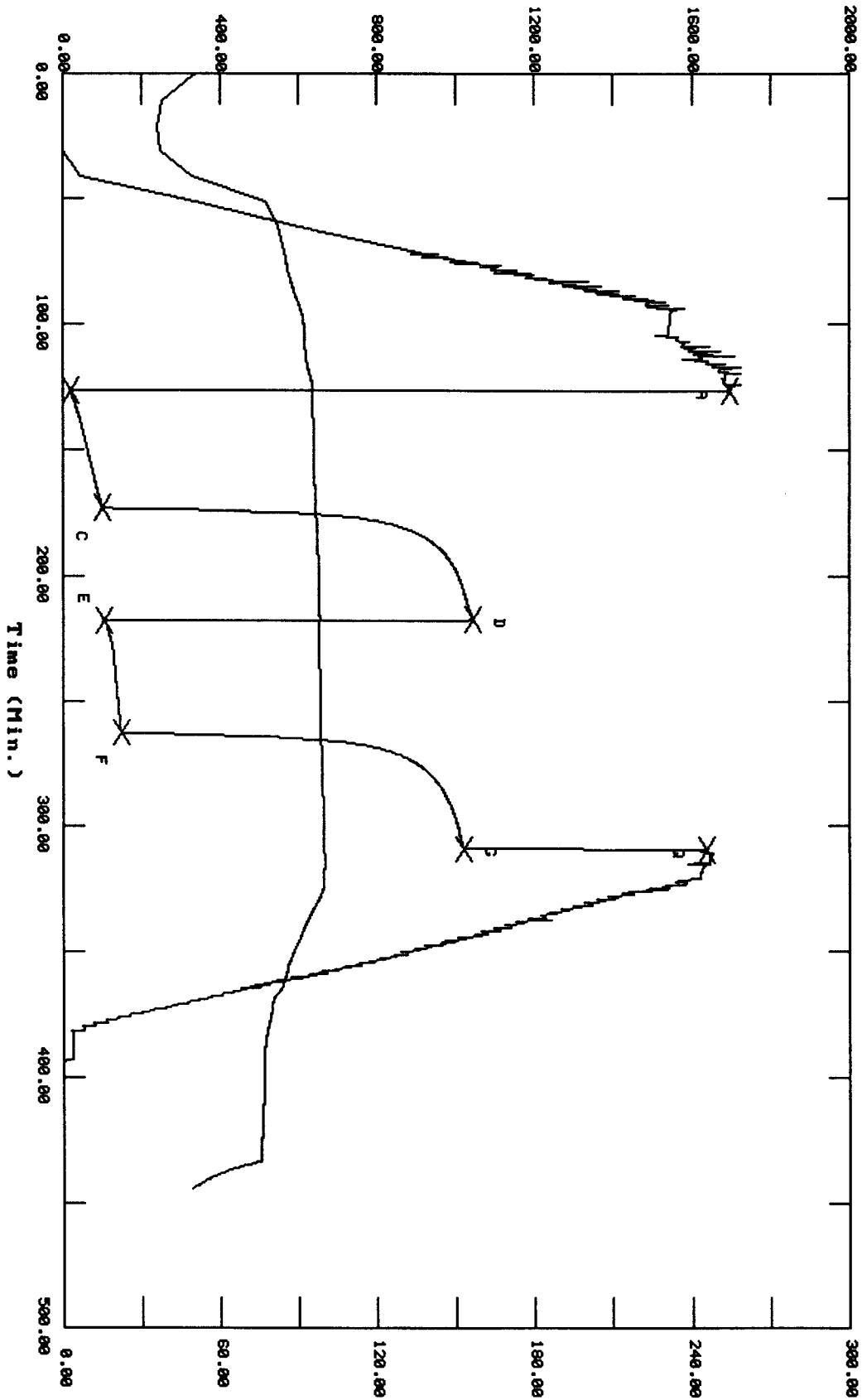
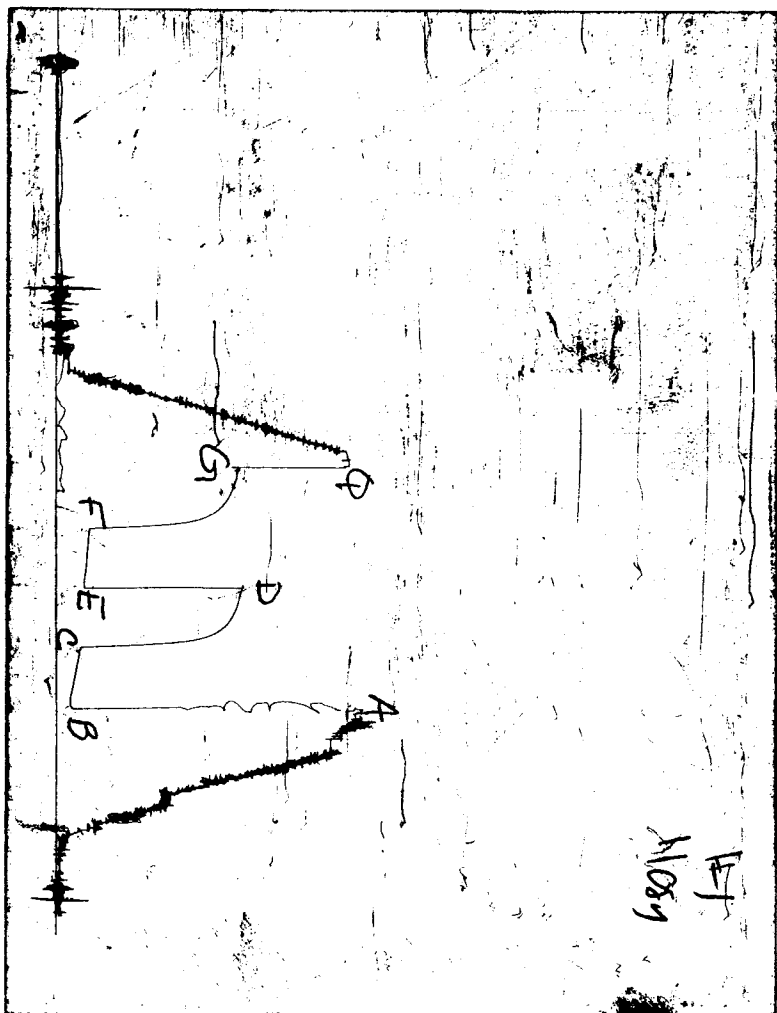


CHART PAGE



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

N^o 12409

Well Name & No.	Marcus #1	Test No.	1	Date	11-24-99
Company	Cattle Resources	Zone Tested	Reason		
Address	Box 87 Schoenchen KS 67667	Elevation	2099	KB	2094GL
Co. Rep / Geo.	Jerry Green	Cont.	Murfin #8	Est. Ft. of Pay	Por. %
Location: Sec.	15	Twp.	Ss	Rge.	21w
		Co.	Norton	State	KS
No. of Copies		Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	3470 - 3539	Initial Str Wt./Lbs.	36,000	Unseated Str Wt./Lbs.	36,000
Anchor Length	69	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	36,000
Top Packer Depth	3465	Tool Weight	2100		
Bottom Packer Depth	3470	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	3539	Wt. Pipe Run		Drill Collar Run	232
Mud Wt.	9.3 LCM	Drill Pipe Size	4 1/2" ID	Ft. Run	322
Vis.	50				
WL	8.8				
Blow Description	3/4" blow building to 8"				
	FSI w/ weak surface blow died in 5 min				
	FF- weak surface blow building to 7"				
	FSI w/ weak surface blow died in 5 min				

Recovery — Total Feet	282	GIP		Ft. in DC	232	Ft. in DP	50
Rec.	50	Feet Of	50 LCM	%gas	10	%oil	
				%water	90	%mud	
Rec.	232	Feet Of	51 or wcm	%gas	5	%oil	35
				%water	60	%mud	
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
BHT	98	°F Gravity		°API D@		°F Corrected Gravity	
				°API			
RW		@		°F Chlorides		ppm Recovery	
				Chlorides		ppm System	

(A) Initial Hydrostatic Mud	AK-1 1767	Alpine 1697	PSI Recorder No.	3227	T-On Location	2330
(B) First Initial Flow Pressure	77	17	PSI (depth)	3474	T-Started	0000
(C) First Final Flow Pressure	143	98	PSI Recorder No.	11084	T-Open	0158
(D) Initial Shut-In Pressure	1062	1043	PSI (depth)	3536	T-Pulled	0458
(E) Second Initial Flow Pressure	154	104	PSI Recorder No.		T-Out	0700
(F) Second Final Flow Pressure	186	145	PSI (depth)		T-Off Location	0800
(G) Final Shut-in Pressure	1066	1019	PSI Initial Opening	45	Test	
(Q) Final Hydrostatic Mud	1687	1638	PSI Initial Shut-in	45	Jars	
			Final Flow	45	Safety Joint	
			Final Shut-in	45	Straddle	
			52		Circ. Sub	
					Sampler	
					Extra Packer	
					Elec. Rec.	X
					Mileage	
					Other	
					TOTAL PRICE \$	

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 Paul Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources Inc.

DATE 11-24-99

WELL NAME: Marcus #1

KB 2099.00 ft

TICKET NO: 12410

DST #2

LOCATION : 15-5s-21w Norton co KS

GR 2094.00 ft

FORMATION: Toronto

INTERVAL : 3254.00 To 3301.00 ft

TD 3602.00 ft

TEST TYPE: CONV-STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 75 Rec.	11084	11084	3227	13308		PF Fr. 2153 to 2308 hr
SI 45 Range(Psi)	4200.0	4200.0	4995.0	4700.0	0.0	IS Fr. 2308 to 2353 hr
SF 30 Clock(hrs)	12	12	elect	12		SF Fr. 2353 to 0023 hr
FS 45 Depth(ft)	3293.0	3293.0	3260.0	3302.0	0.0	FS Fr. 0023 to 0108 hr

	Field	1	2	3	4	
A. Init Hydro	1648.0	1661.0	1614.0	0.0	0.0	T STARTED 2030 hr
B. First Flow	44.0	49.0	19.0	0.0	0.0	T ON BOTM 2151 hr
Bl. Final Flow	230.0	244.0	228.0	0.0	0.0	T OPEN 2153 hr
C. In Shut-in	1142.0	1148.0	1135.0	0.0	0.0	T PULLED 0108 hr
D. Init Flow	263.0	282.0	229.0	0.0	0.0	T OUT 0400 hr
E. Final Flow	300.0	309.0	296.0	0.0	0.0	
F. Fl Shut-in	1132.0	1148.0	1130.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1605.0	1620.0	1594.0	0.0	0.0	Tool Wt. 25000.00 lbs
Inside/Outside	O	O	I	s		Wt Set On Packer 38000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 38000.00 lbs
						Unseated Str Wt 0.00 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 3260.00 ft

RECOVERY

Tot Fluid 570.00 ft of 0.00 ft in DC and 570.00 ft in DP
 120.00 ft of Mud
 0.00 ft of
 450.00 ft of Muddy water 80% water 20% 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 Rw.23 @68

SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow built to bottom of bucket in 12 minutes
 Initial Shut-in:
 Built to bottom of bucket in 23 minutes
 Final Flow:
 Built to bottom of bucket in 22 minutes
 Final Shut-in:
 No blow

Note- tool didn't shutin in ISI

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	44.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	98.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV-STRADDLE

WELL NAME: Marcus #1

LOCATION : 15-5s-21w Norton co KS

TICKET No. 12410 D.S.T. No. 2 DATE 11-24-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 301 tp

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 369

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands53 Single 1 Total 3260

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3629

TOTAL DEPTH 3602

TOTAL DRILL PIPE ABOVE K.B. 27

REMARKS:

P.O. SUB Top of tool @	3234
C.O. SUB	
S.I. TOOL Sterling	3240
HMV Sterling	3245
JARS n/a	
SAFETY JOINT n/a	
PACKER top	3249
PACKER bottom	3254
DEPTH 3254	
STUBB 1'	3255
ANCHOR	
5' perf	3260
Alpine @ 3260'	
1 joint of pipe & subs to	3293
AK-1 @ 3293	
3' perf	3296
T.C. Blank off sub	3297
DEPTH	
PACKER Straddle	3301
Stubb	3302
Straddle rec @	3301
1 stand of pipe & 4 stands of collars to	3599
BULLNOSE	
T.D. 3' to	3602

12410 Castle Resources Marcus #1 DST#2

TEST HISTORY

Flag Points
t(Min.) P (PSig)

A: 0.00 1614.02
B: 0.00 18.99
C: 75.00 226.41
D: 47.25 1134.87
E: 0.00 229.14
F: 28.00 295.95
G: 44.75 1129.80
H: 0.00 1594.29

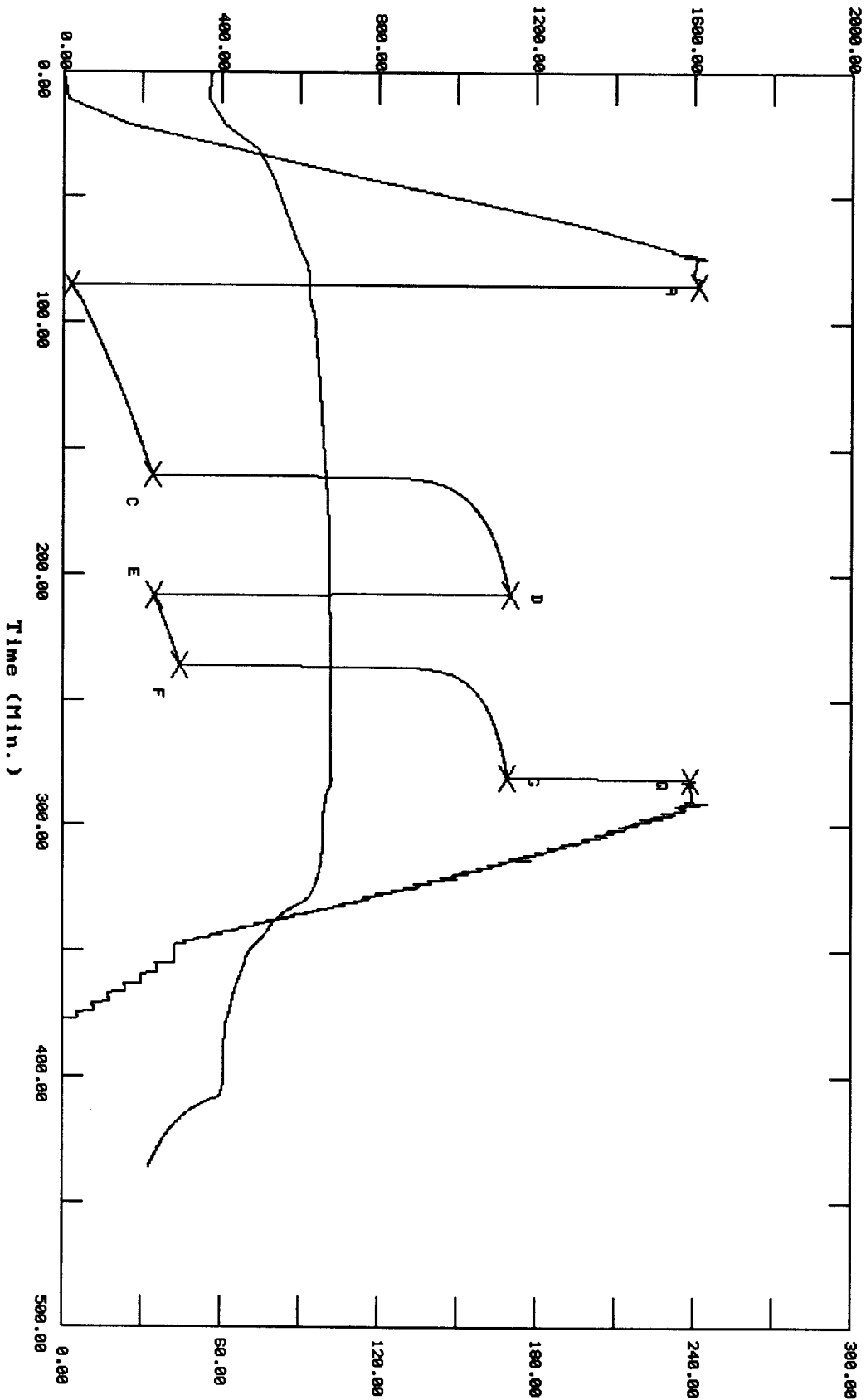
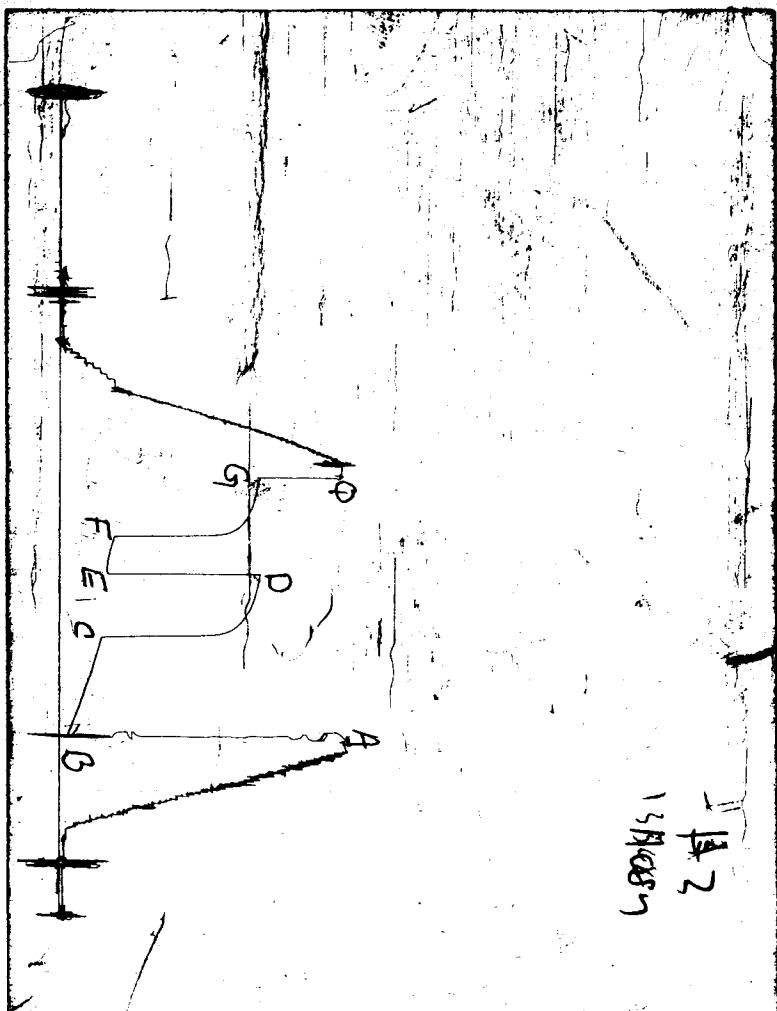
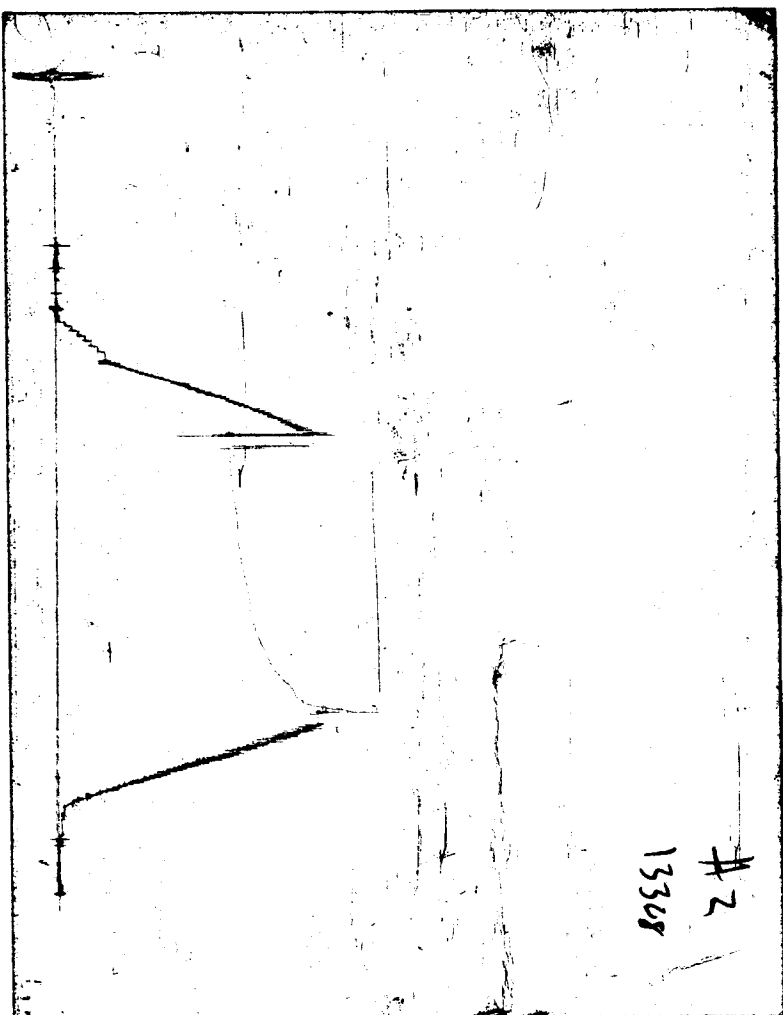


CHART PAGE



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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 12410

Well Name & No. <u>Marcus #1</u>	Test No. <u>2</u>	Date <u>11-24-99</u>
Company <u>Castle Resources</u>	Zone Tested <u>Toronto</u>	
Address _____	Elevation <u>2099</u>	KB <u>2094</u> GL
Co. Rep / Geo. <u>Jerry Green</u>	Cont. <u>Murfin #8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>15</u>	Twp. <u>5S</u>	Rge. <u>2W</u> Co. <u>Norton</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3254-3301 Initial Str Wt/Lbs. 38100 Unseated Str Wt/Lbs. 40100
Anchor Length 47 Wt. Set Lbs. 38100 Wt. Pulled Loose/Lbs. 52000
Top Packer Depth 3249-3254 Tool Weight 2100
Bottom Packer Depth 3301 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 3602 Wt. Pipe Run _____ Drill Collar Run _____
Mud Wt. 9.3 LCM _____ Vis. 44 WL 8.8 Drill Pipe Size 4 1/2 X 11 Ft. Run 3260
Blow Description 1" blow building to bottom of bucket in 12 minutes
ISI blow built to bottom of bucket in 23 minutes
FS - No blow ISI? FSF - surface blow built to
bottom of bucket in 22 minutes

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>570</u>			<u>570</u>
Rec. <u>120</u> Feet Of <u>mud</u>		%gas _____ %oil _____	%water _____ %mud _____
Rec. <u>450</u> Feet Of <u>Muddy 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 98 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
RW .23 @ 68 °F Chlorides 32,000 ppm Recovery Chlorides 1500 ppm System

	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1614</u>		<u>3227</u>	<u>1900</u>
(B) First Initial Flow Pressure	<u>19</u>		<u>3260</u>	<u>2030</u>
(C) First Final Flow Pressure	<u>228</u>		<u>11084</u>	<u>2153</u>
(D) Initial Shut-In Pressure	<u>1135</u>		<u>3293</u>	<u>0108</u>
(E) Second Initial Flow Pressure	<u>229</u>		<u>13308</u>	<u>0400</u>
(F) Second Final Flow Pressure	<u>296</u>		<u>3302</u>	
(G) Final Shut-in Pressure	<u>1130</u>		<u>75</u>	
(Q) Final Hydrostatic Mud	<u>1594</u>		<u>45</u>	

Final Flow 30 Safety Joint _____
Final Shut-in 45 Straddle X
Circ. Sub _____
Sampler _____
Extra Packer X
Elec. Rec. X
Mileage _____
Other _____
TOTAL PRICE \$ _____

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Approved By _____

Our Representative P. Simpson

TRILOBITE TESTING L.L.C.

OPERATOR : Castle Resources Inc.

DATE 11-25-99

WELL NAME: Marcus #1

KB 2099.00 ft

TICKET NO: 12411

DST #3

LOCATION : 15-5s-21w Norton co KS

GR 2094.00 ft

FORMATION: Reagen

INTERVAL : 3528.00 To 3548.00 ft

TD 3602.00 ft

TEST TYPE: CONV-STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	3227	13308		PF Fr. 0626 to 0656 hr
SI 30 Range(Psi)	4200.0	4200.0	4995.0	4700.0	0.0	IS Fr. 0656 to 0726 hr
SF 60 Clock(hrs)	12	12	elect	12		SF Fr. 0726 to 0826 hr
FS 30 Depth(ft)	3540.0	3540.0	3529.0	3563.0	0.0	FS Fr. 0826 to 0856 hr

	Field	1	2	3	4	
A. Init Hydro	1800.0	1747.0	1761.0	0.0	0.0	T STARTED 0430 hr
B. First Flow	55.0	64.0	14.0	0.0	0.0	T ON BOTM 0624 hr
B1. Final Flow	77.0	88.0	61.0	0.0	0.0	T OPEN 0626 hr
C. In Shut-in	1002.0	997.0	992.0	0.0	0.0	T PULLED 0856 hr
D. Init Flow	99.0	110.0	65.0	0.0	0.0	T OUT 1050 hr
E. Final Flow	154.0	155.0	129.0	0.0	0.0	
F. Fl Shut-in	959.0	967.0	963.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1767.0	1737.0	1725.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	O	O	I	S		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 36000.00 lbs
						Unseated Str Wt 36000.00 lbs
						Bot Choke 36000.00 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 232.00 ft
						D.P. Length 3286.00 ft

RECOVERY

Tot Fluid 250.00 ft of 232.00 ft in DC and 18.00 ft in DP
 10.00 ft of Heavy muddy oil 70% oil 30% mud
 0.00 ft of
 70.00 ft of Slightly oil specked mud
 0.00 ft of
 170.00 ft of Muddy water 50% water 50% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw.26 @58

SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak 1/4" blow building to 4"

Initial Shut-in:

No blow

Final Flow:

Weak surface blow building to 4.5"

Final Shut-in:

No blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	44.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	105.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Jerry Green
Contr.	Murfin
Rig #	8
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV-STRADDLE

WELL NAME: Marcus #1

LOCATION : 15-5s-21w Norton co KS

TICKET No. 12411 D.S.T. No. 3 DATE 11-25-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 54 tp

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 95

D.C. ABOVE TOOLS.Stands4 Single Total 232

D.P. ABOVE TOOLS.Stands54 Single Total 3286

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3613

TOTAL DEPTH 3602

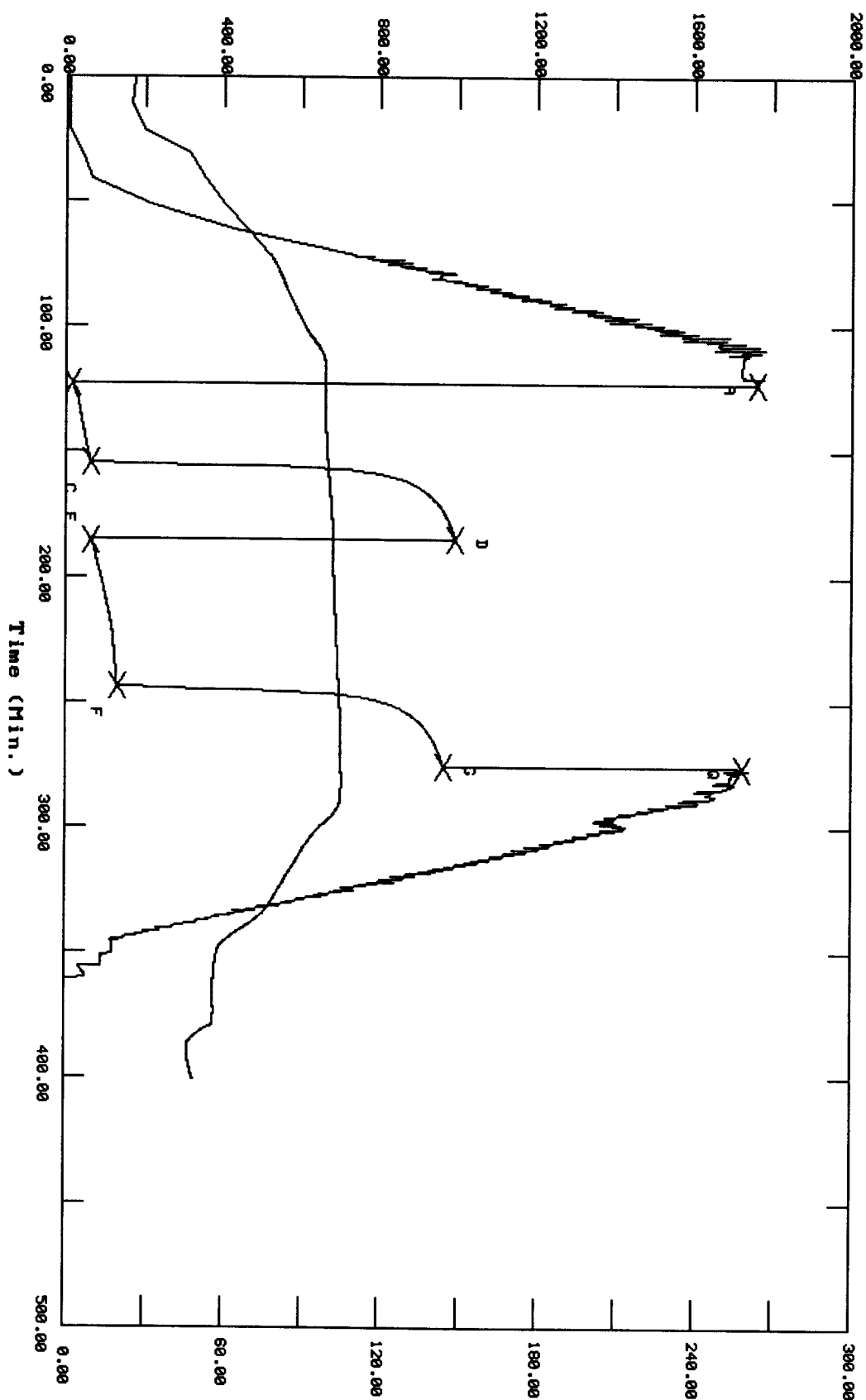
TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

P.O. SUB Top of tool @	3508
C.O. SUB	
S.I. TOOL Sterling	3514
HMV Sterling	3519
JARS n/a	
SAFETY JOINT n/a	
PACKER top	3523
PACKER bottom	3528
DEPTH 3528	
STUBB 1'	3529
ANCHOR	
Alpine @ 3529'	
5' perf	3534
5' perf	3539
4' perf	3543
AK-1 rec @ 3540	
T.C. Blank off sub	3544
DEPTH	
PACKER Straddle	3548
Stubb	3549
5' perf	3554
5' perf	3559
4' perf	3563
Straddle rec@	3563
1 joint of pipe	
@ subs to	3595
BULLNOSE 3' perf	3598
T.D. 3' to	3602

TEST HISTORY

12411 Castle Resources Marcus#1 DST #3



Flag Points
t(Min.) P(PSig)

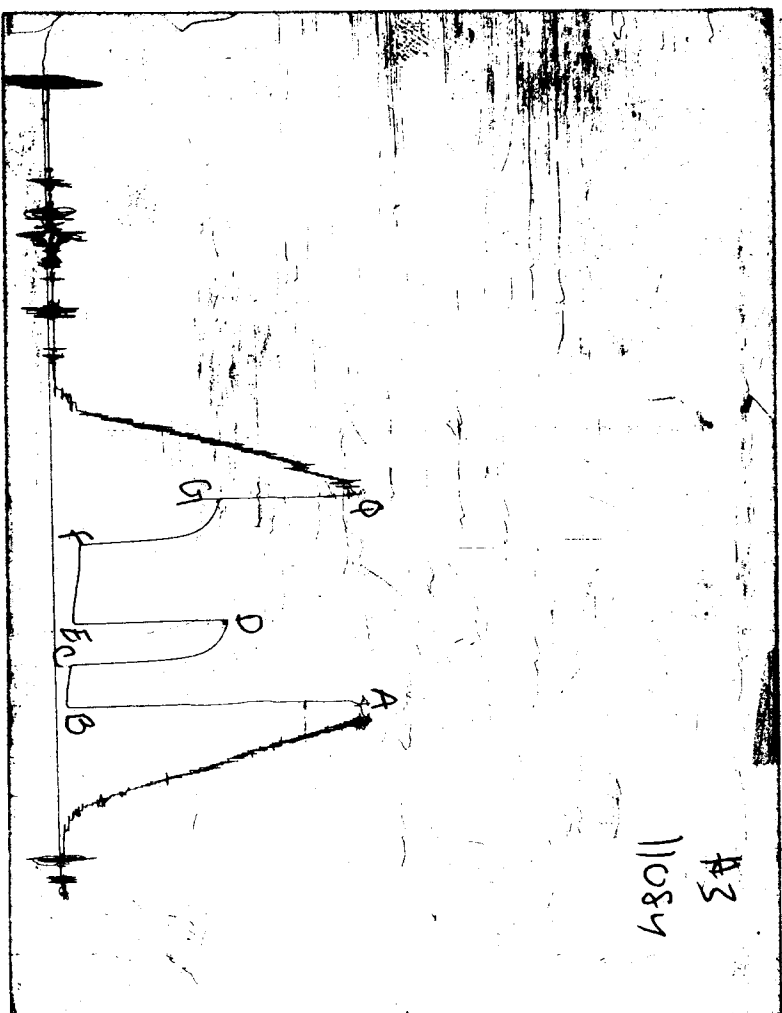
A: 0.00 1761.20
B: 0.00 13.74
C: 31.50 60.67
D: 30.50 991.53
E: 0.00 64.27
F: 58.25 128.90
G: 31.75 962.87
H: 0.00 1725.15

Pressure (PSig)

Temperature (DEG F)

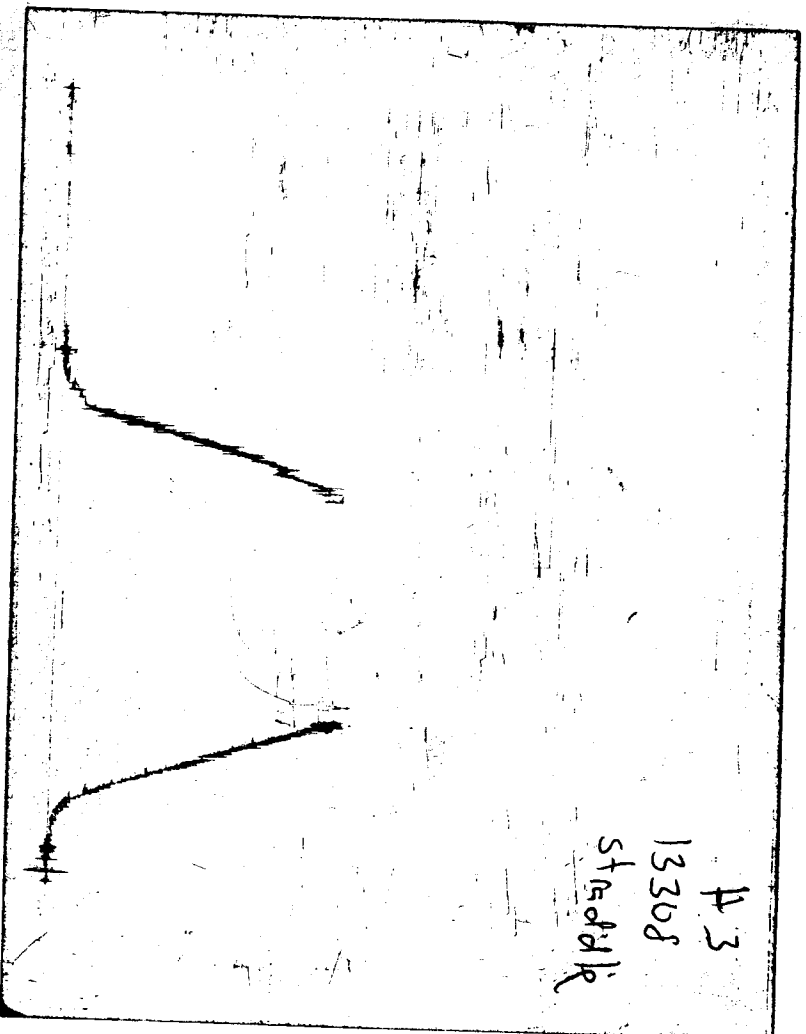
Time (Min.)

CHART PAGE



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

CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12411

Well Name & No. <u>Mary A1</u>	Test No. <u>3</u>	Date <u>11-25-99</u>
Company <u>Castle Resources</u>	Zone Tested <u>Reagan Sand</u>	
Address _____	Elevation <u>2099</u> KB <u>2094</u> GL	
Co. Rep / Geo. <u>Jerry Green</u>	Cont. <u>Murfin A8</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>15</u> Twp. <u>5S</u> Rge. <u>21W</u>	Co. <u>Newton</u> State <u>Ks</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3528-3548</u>	Initial Str Wt./Lbs. <u>36,000</u>	Unseated Str Wt./Lbs. <u>36,000</u>
Anchor Length <u>20</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>55,000</u>
Top Packer Depth <u>3523-3528</u>	Tool Weight <u>2400</u>	
Bottom Packer Depth <u>3548</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3602</u>	Wt. Pipe Run _____	Drill Collar Run <u>232</u>
Mud Wt. _____ LCM _____ Vis. _____ WL _____	Drill Pipe Size <u>4 1/2" FH</u>	Ft. Run <u>3286</u>
Blow Description <u>weak 1/4" blow building to 4"</u>		

88 - weak surface blow building to 4 1/2"

Recovery — Total Feet <u>250</u>	GIP _____	Ft. in DC <u>232</u>	Ft. in DP <u>18</u>
Rec. <u>10</u> Feet Of <u>Heavy Muddy oil</u>	%gas <u>70</u> %oil _____ %water <u>30</u> %mud _____		
Rec. <u>70</u> Feet Of <u>sl oil speckled mud</u>	%gas _____ %oil _____ %water _____ %mud _____		
Rec. <u>170</u> Feet Of <u>Muddy water</u>	%gas _____ %oil _____ %water <u>50</u> %mud <u>50</u>		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____		
BHT <u>165</u> °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API			
RW <u>.26</u> @ <u>58</u> °F Chlorides <u>32,000</u> ppm Recovery Chlorides <u>1500</u> ppm System			

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1800</u>	<u>1761</u>	PSI Recorder No. <u>3227</u>	T-On Location _____
(B) First Initial Flow Pressure	<u>55</u>	<u>14</u>	PSI (depth) <u>3529</u>	T-Started <u>0430</u>
(C) First Final Flow Pressure	<u>77</u>	<u>61</u>	PSI Recorder No. <u>11084</u>	T-Open <u>0626</u>
(D) Initial Shut-In Pressure	<u>1002</u>	<u>992</u>	PSI (depth) <u>3540</u>	T-Pulled <u>0856</u>
(E) Second Initial Flow Pressure	<u>99</u>	<u>65</u>	PSI Recorder No. <u>13308</u>	T-Out <u>1050</u>
(F) Second Final Flow Pressure	<u>154</u>	<u>129</u>	PSI (depth) <u>3563</u>	T-Off Location <u>1130</u>
(G) Final Shut-in Pressure	<u>959</u>	<u>963</u>	PSI Initial Opening <u>30</u>	Test _____
(Q) Final Hydrostatic Mud	<u>1767</u>	<u>1725</u>	PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>30</u> <u>60</u>	Safety Joint _____
			Final Shut-in <u>30</u>	Straddle <u>X</u>

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Approved By _____

Our Representative _____

Extra Packer X
 Elec. Rec. X
 Mileage _____
 Other _____
 TOTAL PRICE \$ _____