

WELL NAME: Basgall "C" #1
COMPANY: Thunderbird Drilling Inc.
LOCATION: 30-1S-31W
Rawlins County, Kansas
DATE: 1/29/98

TRILOBITE TESTING L.L.C.

OPERATOR : Thunderbird Drilling Inc
WELL NAME: Basgall "C" #1
LOCATION : 30-1S-31W CO Rawlins KS
INTERVAL : 3780.00 To 3835.00 ft

DATE 1-26-98
KB 2814.00 ft TICKET NO: 10432 DST #1
GR 2809.00 ft FORMATION: "B"
TD 3835.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	13248			PF Fr. 1907 to 1937 hr
SI 60 Range(Psi)	7000.0	7000.0	4250.0	0.0	0.0	IS Fr. 1937 to 2037 hr
SF 45 Clock(hrs)	12 HR	12 HR	12 HR			SF Fr. 2037 to 2122 hr
FS 60 Depth(ft)	3784.0	3784.0	3832.0	0.0	0.0	FS Fr. 2122 to 2222 hr

	Field	1	2	3	4	
A. Init Hydro	2056.0	2091.0	0.0	0.0	0.0	T STARTED 1735 hr
B. First Flow	39.0	59.0	0.0	0.0	0.0	T ON BOTM 1900 hr
B1. Final Flow	137.0	157.0	0.0	0.0	0.0	T OPEN 1907 hr
C. In Shut-in	1116.0	1137.0	0.0	0.0	0.0	T PULLED 2222 hr
D. Init Flow	177.0	190.0	0.0	0.0	0.0	T OUT 0050 hr
E. Final Flow	246.0	262.0	0.0	0.0	0.0	
F. Fl Shut-in	1086.0	115.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1826.0	1838.0	0.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 60000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.50 in
						D. Pipe ID 3.80 in
						D.C. Length 488.00 ft
						D.P. Length 3287.00 ft

RECOVERY

Tot Fluid 558.00 ft of 488.00 ft in DC and 70.00 ft in DP
186.00 ft of Gas in pipe
186.00 ft of Clean gassy oil 20% gas 80% oil
62.00 ft of Mud cut gassy oil 20% gas 70% oil 10% mud
124.00 ft of Oil cut gassy mud 10% gas 20% oil 70% mud
124.00 ft of Slight oil and water cut gassy mud
0.00 ft of 10% gas 20% oil 15% water 70% mud
62.00 ft of Watery mud 80% water 20% mud
0.00 ft of
SALINITY 20000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

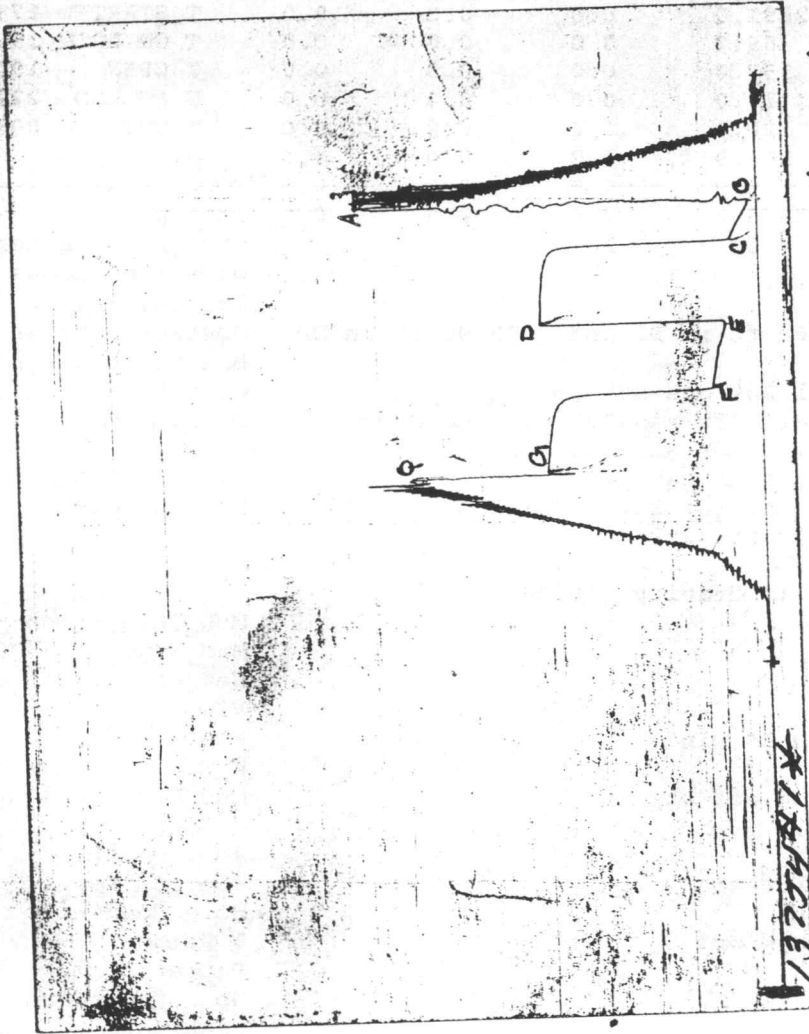
Initial Flow:
Strong bottom of bucket in 25 min.
Initial Shut-in:
Bled off blow-blow came back and was weak
Final Flow:
Strong bottom of bucket in 40 min.
Final Shut-in:
Bled off blow-blow came back and built to 1"

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/c
Vis. 48.00 S/L
W.L. 9.20 in3
F.C. 0.00 in
Mud Drop
Amt. of fill 0.00 ft
Btm. H. Temp. 111.00 F
Hole Condition
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out
Tool Chased
Tester Dan Bangle
Co. Rep. Todd Aikins
Contr. Murfin
Rig # 3
Unit #
Pump T.

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Thunderbird Drilling Inc DATE 1-27-98
WELL NAME: Basgall "C" #1 KB 2814.00 ft TICKET NO: 10433 DST #2
LOCATION : 30-1S-31W Co Rawlins KS GR 2809.00 ft FORMATION: "J" LKC
INTERVAL : 3930.00 To 3970.00 ft TD 3970.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13248	13248	13754			PF Fr. 1717 to 1747 hr
SI 60 Range(Psi)	4250.0	4250.0	7000.0	0.0	0.0	IS Fr. 1747 to 1847 hr
SF 45 Clock(hrs)	12 HR	12 HR	12 HR			SF Fr. 1847 to 1932 hr
FS 60 Depth(ft)	3967.0	3967.0	3924.0	0.0	0.0	FS Fr. 1932 to 2032 hr

	Field	1	2	3	4	
A. Init Hydro	2061.0	2037.0	0.0	0.0	0.0	T STARTED 1600 hr
B. First Flow	74.0	95.0	0.0	0.0	0.0	T ON BOTM 1710 hr
B1. Final Flow	74.0	70.0	0.0	0.0	0.0	T OPEN 1717 hr
C. In Shut-in	1278.0	1294.0	0.0	0.0	0.0	T PULLED 2037 hr
D. Init Flow	117.0	141.0	0.0	0.0	0.0	T OUT 2200 hr
E. Final Flow	117.0	119.0	0.0	0.0	0.0	
F. Fl Shut-in	1278.0	1286.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2029.0	2008.0	0.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.50 in
						D. Pipe ID 3.80 in
						D.C. Length 488.00 ft
						D.P. Length 3442.00 ft

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
10.00 ft of Clean oil
80.00 ft of Oil cut mud 20% oil 80% mud
30.00 ft of Muddy water 90% water 10% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 25000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak building to 1 1/4"
Final Flow:
Weak steady surface blow

MUD DATA-----

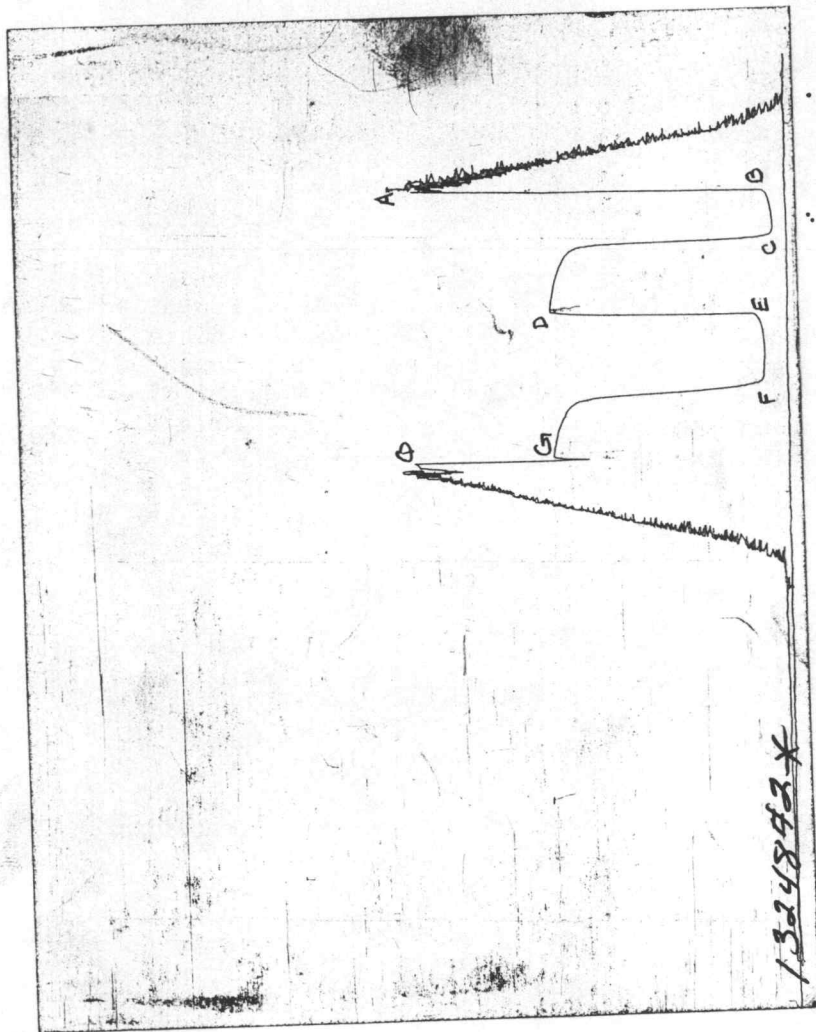
Mud Type	Chemical
Weight	9.10 lb/c
Vis.	51.00 S/L
W.L.	9.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Todd Aikins
Contr.	Murfin
Rig #	3
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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