

Well Name: Schartz #3
Company: Rama Operating Co. Inc.
Location: 20-19s-11w
Barber county Kansas
Date: 9-15-99

TRILOBITE TESTING L.L.C.

OPERATOR : Rama Operating Co. Inc.
WELL NAME: Schartz
LOCATION : 20-19s-11w Barton co KS
INTERVAL : 3072.00 To 3135.00 ft

DATE 9-12-99
KB 1794.00 ft TICKET NO: 11525 DST #1
GR 1785.00 ft FORMATION: Lansing A-B
TD 3135.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13248	13248	13754			PF Fr. 1740 to 1810 hr
SI 30 Range(Psi)	4250.0	4250.0	4000.0	0.0	0.0	IS Fr. 1810 to 1840 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 1840 to 1940 hr
FS 30 Depth(ft)	3132.0	3132.0	3078.0	0.0	0.0	FS Fr. 1940 to 2010 hr

	Field	1	2	3	4	
A. Init Hydro	1566.0	1543.0	0.0	0.0	0.0	T STARTED 1630 hr
B. First Flow	137.0	281.0	0.0	0.0	0.0	T ON BOTM 1735 hr
B1. Final Flow	187.0	286.0	0.0	0.0	0.0	T OPEN 1740 hr
C. In Shut-in	986.0	1088.0	0.0	0.0	0.0	T PULLED 2010 hr
D. Init Flow	196.0	313.0	0.0	0.0	0.0	T OUT 2230 hr
E. Final Flow	226.0	317.0	0.0	0.0	0.0	
F. Fl Shut-in	966.0	1046.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1526.0	1543.0	0.0	0.0	0.0	Tool Wt. 1500.00 lbs
Inside/Outside	o	o	i			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 100000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 70000.00 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 497.00 ft
						D.P. Length 2573.00 ft

RECOVERY

Tot Fluid 520.00 ft of 497.00 ft in DC and 23.00 ft in DP
120.00 ft of Thin mud (gassy) 20% gas 80% mud
62.00 ft of Oil cut gassy mud 20% gas 10% oil 70% mud
338.00 ft of Oil and gas cut mud 20% gas 40% oil 40% mud
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

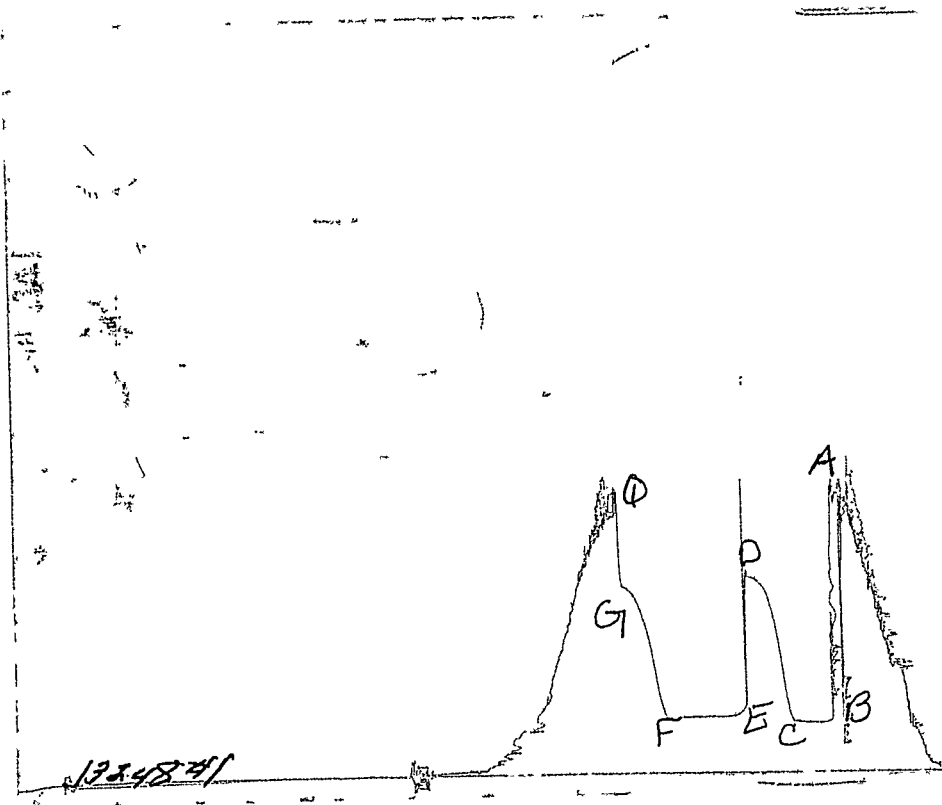
Initial Flow:
Weak building to bottom of bucket
in 13 mins.
Initial Shut-in:
Bled off blow, blow came back and
built to 5"
Final Flow:
Strong bottom of bucket in 8 mins.
Final Shut-in:
Bled off blow, blow came back built
to 5" Gas to surface

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.20 lb/cf
Vis. 40.00 S/L
W.L. 9.60 in3
F.C. 0.00 in
Mud Drop
Amt. of fill 0.00 ft
Btm. H. Temp. 101.00 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. Wayne Lebsack
Contr. Sterling
Rig # 4
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 : Rama Operating Co. Inc.
WELL NAME: Schartz #3
LOCATION : 20-19s-11w Barton co KS
INTERVAL : 3250.00 To 3340.00 ft

DATE 9-13-99
KB 1794.00 ft TICKET NO: 11126 DST #2
GR 1785.00 ft FORMATION: Kansas City
TD 3340.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	13248			PF Fr. 1451 to 1521 hr
SI 30 Range(Psi)	4000.0	4000.0	4250.0	0.0	0.0	IS Fr. 1521 to 1551 hr
SF 60 Clock(hrs)	12	12	12			SF Fr. 1551 to 1651 hr
FS 30 Depth(ft)	3257.0	3257.0	3337.0	0.0	0.0	FS Fr. 1651 to 1721 hr

	Field	1	2	3	4	
A. Init Hydro	1746.0	1767.0	0.0	0.0	0.0	T STARTED 1307 hr
B. First Flow	29.0	27.0	0.0	0.0	0.0	T ON BOTM 1445 hr
B1. Final Flow	78.0	83.0	0.0	0.0	0.0	T OPEN 1451 hr
C. In Shut-in	295.0	308.0	0.0	0.0	0.0	T PULLED 1721 hr
D. Init Flow	98.0	106.0	0.0	0.0	0.0	T OUT 1910 hr
E. Final Flow	147.0	144.0	0.0	0.0	0.0	
F. Fl Shut-in	246.0	250.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1536.0	1556.0	0.0	0.0	0.0	Tool Wt. 1500.00 lbs
Inside/Outside	o	o	i			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 70000.00 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 497.00 ft

RECOVERY

Tot Fluid 360.00 ft of 360.00 ft in DC and 0.00 ft in DP
210.00 ft of Gas in pipe
240.00 ft of Drilling mud with few spots of oil
120.00 ft of Mud cut 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

SALINITY 70000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket
in 11 mins.
Initial Shut-in:
No blow back
Final Flow:
Weak building to 4"
Final Shut-in:
No blow back

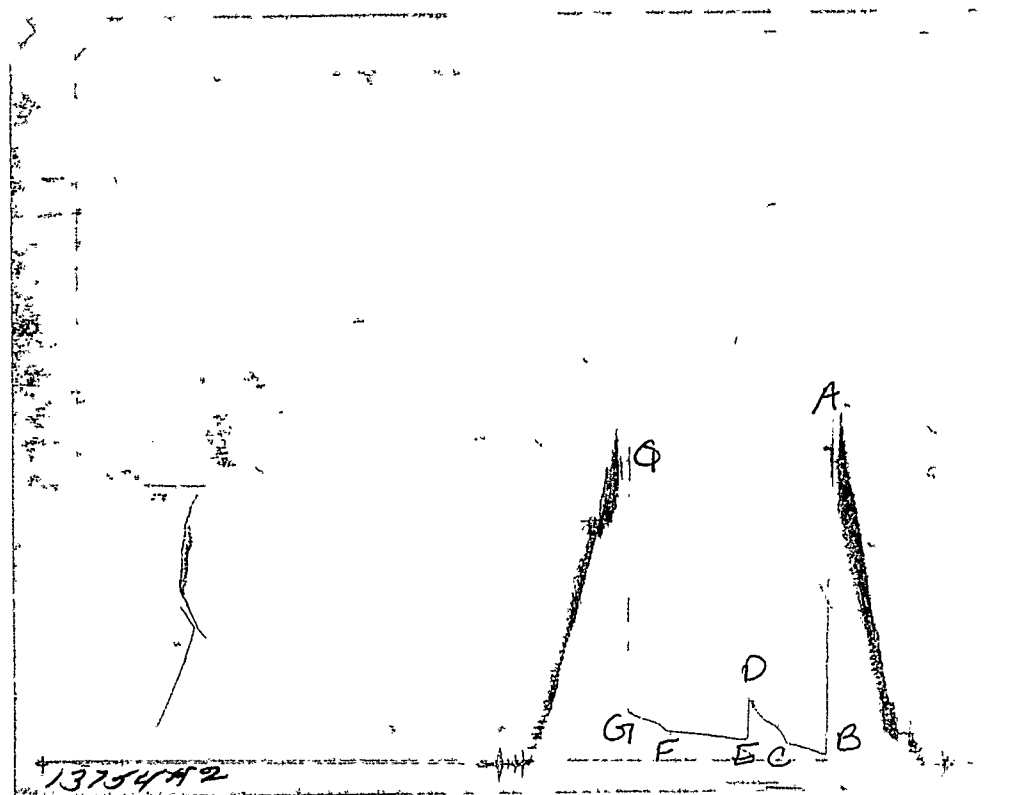
MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	45.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	101.00 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.	Wayne Leback
Contr.	Sterling
Rig #	4
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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