

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Co. DATE 3/18/98
 WELL NAME: Klein #3 KB 1901.00 ft TICKET NO: 10446 DST #1
 LOCATION : 35-15S-17W Ellis co. KS GR 1892.00 ft FORMATION: KC "H-L"
 INTERVAL : 3317.00 To 3430.00 ft TD 3430.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	13248			PF Fr. 2230 to 2300 hr
SI 30 Range(Psi)	4000.0	4000.0	4250.0	0.0	0.0	IS Fr. 2300 to 2330 hr
SF 15 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 2330 to 2345 hr
FS 0 Depth(ft)	3325.0	3325.0	3427.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1676.0	1679.0	0.0	0.0	0.0	T STARTED 2100 hr
B. First Flow	19.0	32.0	0.0	0.0	0.0	T ON BOTM 2225 hr
B1. Final Flow	19.0	32.0	0.0	0.0	0.0	T OPEN 2230 hr
C. In Shut-in	818.0	830.0	0.0	0.0	0.0	T PULLED 2345 hr
D. Init Flow	29.0	40.0	0.0	0.0	0.0	T OUT 0300 hr
E. Final Flow	29.0	40.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1566.0	1568.0	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 55000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 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 3324.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
 10.00 ft of Heavy mud 100% 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

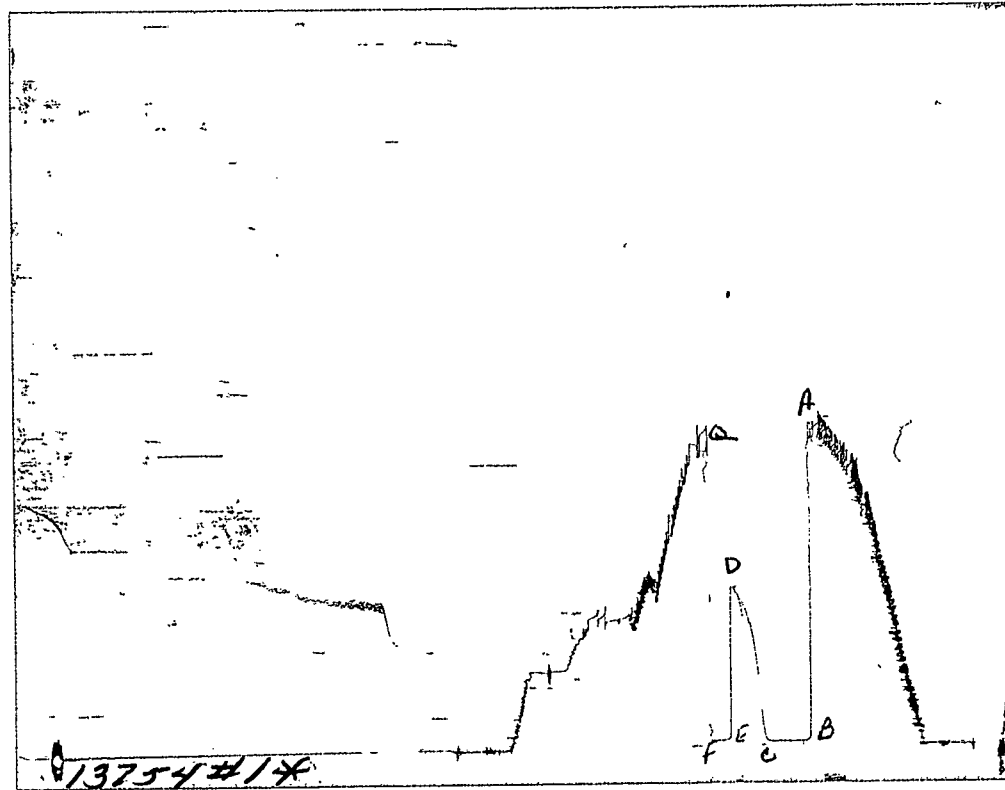
Initial Flow:
 Weak - died in 20 minutes
 Final Flow:
 No blow

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/cf
 Vis. 42.00 S/L
 W.L. 12.80 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. Tom Funk
 Contr. Duke
 Rig # 4
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Raney Oil Co
 WELL NAME: Klein #3
 LOCATION : 35-15S-17W Ellis co. KS
 INTERVAL : 3416.00 To 3517.00 ft

DATE 3/19/98

KB 1901.00 ft TICKET NO: 10447 DST #2
 GR 1892.00 ft FORMATION: Cong. Sand
 TD 3517.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	13248			PF Fr. 1707 to 1737 hr
SI 45 Range(Psi)	4000.0	4000.0	4250.0	0.0	0.0	IS Fr. 1737 to 1823 hr
SF 45 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 1823 to 1908 hr
FS 60 Depth(ft)	3424.0	3424.0	3514.0	0.0	0.0	FS Fr. 1908 to 2008 hr

	Field	1	2	3	4	
A. Init Hydro	1666.0	1683.0	0.0	0.0	0.0	T STARTED 1530 hr
B. First Flow	19.0	26.0	0.0	0.0	0.0	T ON BOTM 1700 hr
B1. Final Flow	19.0	33.0	0.0	0.0	0.0	T OPEN 1707 hr
C. In Shut-in	1106.0	1111.0	0.0	0.0	0.0	T PULLED 2007 hr
D. Init Flow	49.0	49.0	0.0	0.0	0.0	T OUT 2215 hr
E. Final Flow	59.0	61.0	0.0	0.0	0.0	
F. Fl Shut-in	1106.0	1119.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1626.0	1638.0	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 52000.00 lbs
						Unseated Str Wt 52000.00 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 3427.00 ft

RECOVERY

Tot Fluid 110.00 ft of 0.00 ft in DC and 110.00 ft in DP
 110.00 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
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Slid tool 10' to bottom
 Weak - building to 4 1/2"

Final Flow:

Weak - building to 2"

SAMPLES:
 SENT TO:

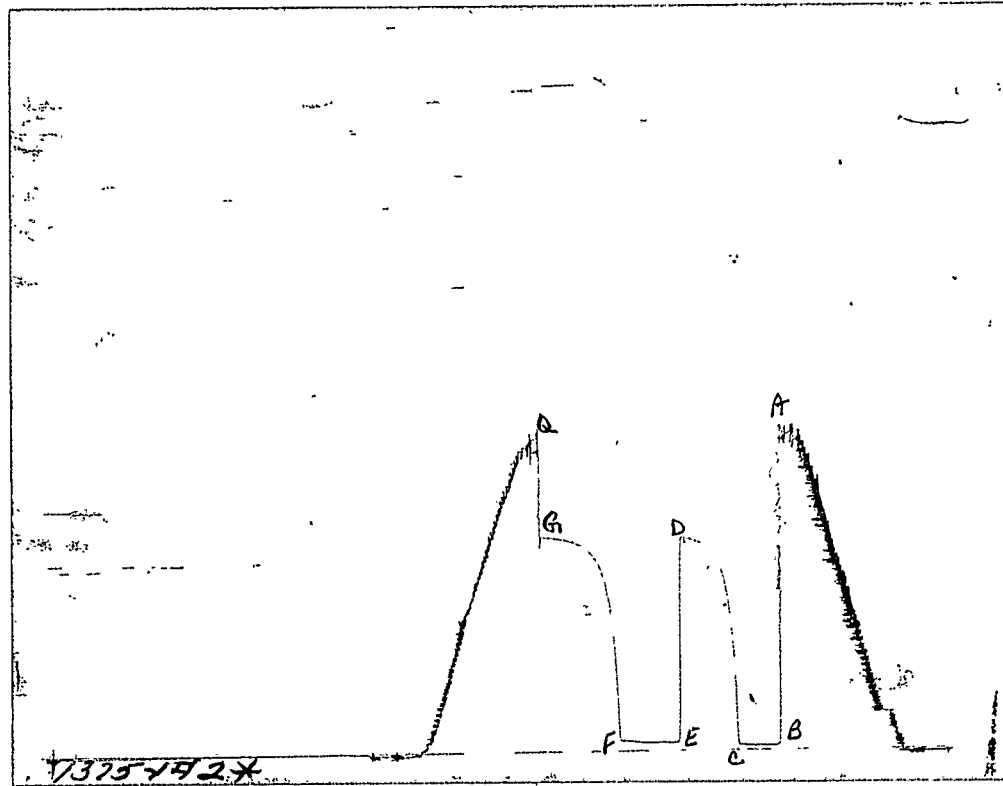
MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	42.00 S/L
W.L.	12.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	100.00 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.	Tom Funk
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



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