

15-071-20720

TRILOBITE TESTING L.L.C.

3-20s-42w

OPERATOR : Western Operating Co.

DATE 3-17-00

WELL NAME: Floyd #1

KB 3758.00 ft

TICKET NO: 12128

DST #1

LOCATION : 3-20S-42W Greeley co KS

GR 3746.00 ft

FORMATION: Morrow

INTERVAL : 5061.00 To 5188.00 ft

TD 5188.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	3246			PF Fr. 1451 to 1521 hr
SI 60 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1521 to 1621 hr
SF 90 Clock(hrs)	12 HR	12 HR	ALP			SF Fr. 1621 to 1751 hr
FS 120 Depth(ft)	5090.0	5090.0	5065.0	0.0	0.0	FS Fr. 1751 to 1951 hr

	Field	1	2	3	4	
A. Init Hydro	2503.0	2531.0	2430.0	0.0	0.0	T STARTED 1130 hr
B. First Flow	83.0	111.0	31.0	0.0	0.0	T ON BOTM 1549 hr
31. Final Flow	259.0	276.0	303.0	0.0	0.0	T OPEN 1451 hr
C. In Shut-in	1020.0	1033.0	1039.0	0.0	0.0	T PULLED 1951 hr
D. Init Flow	353.0	370.0	297.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	447.0	455.0	462.0	0.0	0.0	
F. Fl Shut-in	1030.0	1031.0	1040.0	0.0	0.0	
G. Final Hydro	2403.0	2365.0	2403.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt.	2000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	90000.00 lbs
Initial Str Wt	78000.00 lbs
Unseated Str Wt	82000.00 lbs
Bot Choke	0.75 in
Hole Size	8.88 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	610.00 ft
D.P. Length	4435.00 ft

RECOVERY

Pot Fluid 950.00 ft of 610.00 ft in DC and 340.00 ft in DP
 310.00 ft of Mud
 0.00 ft of 100% mud
 340.00 ft of Water
 0.00 ft of 100% water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw .14 @ 60 deg =
 SALINITY 65000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	57.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Weak to fair blow off bottom in 23 minutes.
 Initial Shut-In:
 No return blow.
 Final Flow:
 Weak to fair blow off bottom in 35 minutes.
 Final Shut-In:
 No return blow.

Amt. of fill	0.00 ft
Btm. H. Temp.	137.00 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	Rod Steinbrink
Co. Rep.	Steve James
Contr.	Murfin
Rig #	14
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Floyd #1

LOCATION : 3-20S-42W Greeley co KS

TICKET No. 12128 D.S.T. No. 1 DATE 3-17-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 34

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 64

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 93

TOTAL ASSEMBLY 157

D.C. ABOVE TOOLS.Stands6 Single 2 Total 610

D.P. ABOVE TOOLS.Stands47 Single 2 Total 4435

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5202

TOTAL DEPTH 5188

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

Sampler Data;

Gas;

Oil;

Water; 4000 ml

Mud;

Total Volume; 4000 ml

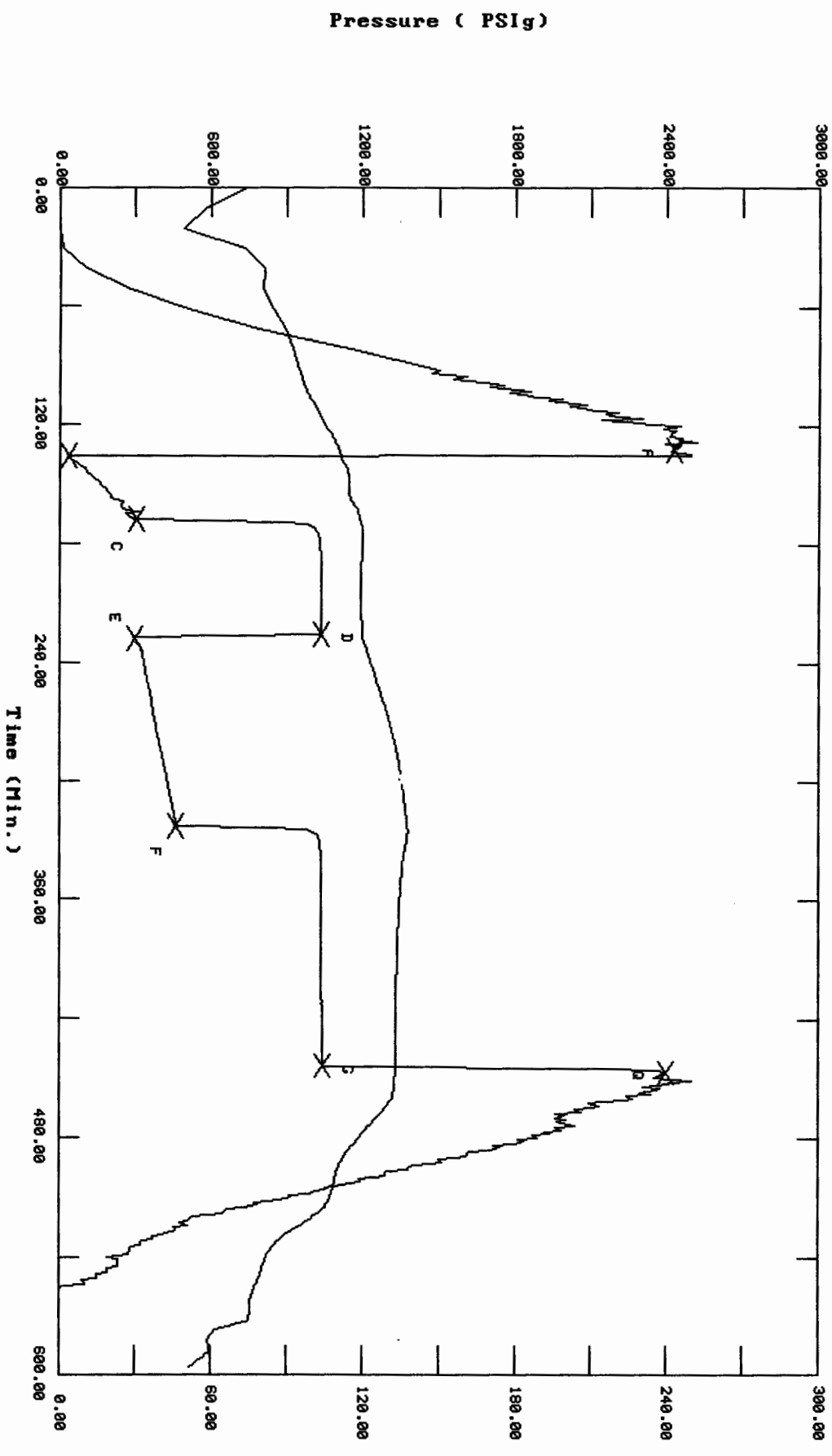
Pressure; 250# psi

P.O. SUB 1' Above 90' DC	4941
C.O. SUB 1'	5031
S.I. TOOL 5'	5037
3' Sampler	5040
HMV 5'	5045
JARS 5'	5050
SAFETY JOINT 2'	5052
PACKER 4'	5056
PACKER 5'	5061
DEPTH 1'	5062
ANCHOR	
Alp Rec. @	5065
26' Perf	5088
1' c/o sub	5089
AK-1 Rec. @	5090
93' DP	5182
1' c/o sub	5183
BULLNOSE 5'	
T.D.	5188

TEST HISTORY

Flag Points

	t(Min.)	P(PSig)
R1	0.00	2430.23
B1	0.00	31.07
C1	32.00	303.66
D1	58.00	1039.64
E1	0.00	297.97
F1	95.00	462.13
G1	121.00	1040.48
Q1	0.00	2403.53



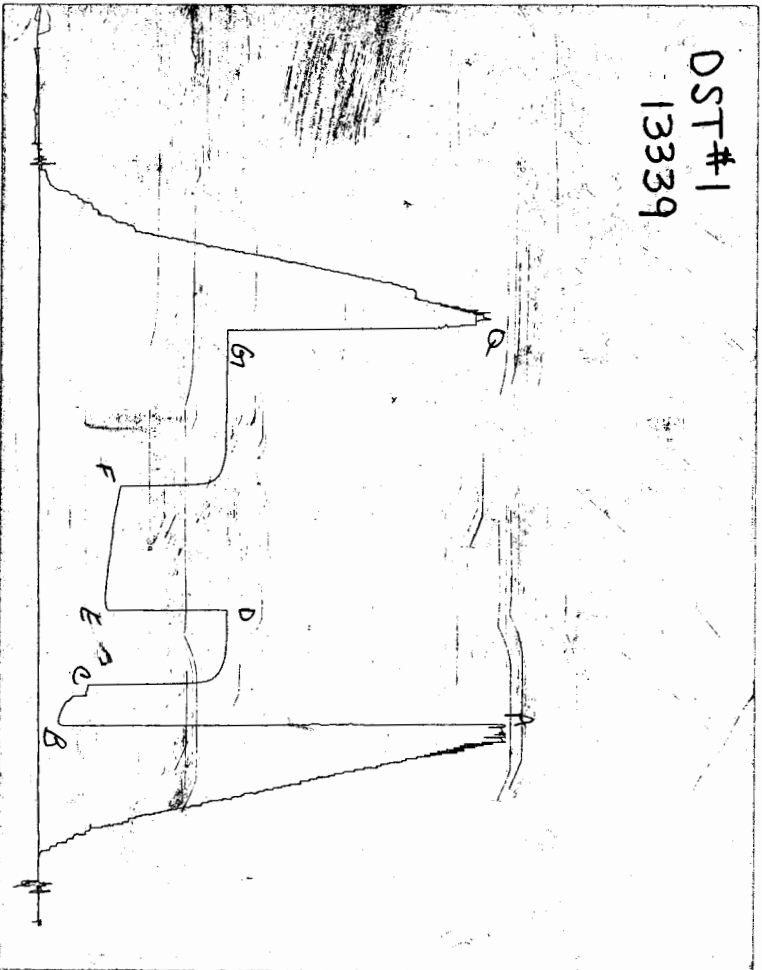
Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE

DST#1
13339



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 12128 Date 3-17-00
Company Name Western Operating Co. Cont. Murfin #14
Lease Floyd #1 Test No. #1 Morrow
County Greeley KS. Sec. 3 Twp. 20^s Rng. 42^w

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4,000 ML
Other _____ ML
Pressure 250[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,500 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 57
Mud Weight 9.2
Filtrate 7.2
Other LCM 1[#]

SAMPLER ANALYSIS

Resistivity .14 ohms @ 60° F
Chlorides 65,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .18 ohms @ 60° F
Chlorides 50,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity .14 ohms @ 60° F
Chlorides 65,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12128

Test Ticket

Well Name & No.	<u>Floyd #1</u>	Test No.	<u>1</u>	Date	<u>3-17-00</u>
Company	<u>Western Operating Company</u>	Zone Tested	<u>Morrow</u>		
Address	<u>518 17th St. Ste 1680 Denver CO. 80202</u>		Elevation	<u>3758</u>	KB <u>3746</u> GL
Co. Rep / Geo.	<u>Steve James</u>	Cont.	<u>Murfin #14</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>3</u>	Twp.	<u>20^s</u>	Rge.	<u>42^w</u>
		Co.	<u>Greeley</u>	State <u>KS.</u>	
No. of Copies	<u>Nml</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u>
		Evaluation (Y, N)			

Interval Tested	<u>5061 - 5188</u>	Initial Str Wt./Lbs.	<u>78,000</u>	Unseated Str Wt./Lbs.	<u>82,000</u>
Anchor Length	<u>127'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>90,000</u>
Top Packer Depth	<u>5056</u>	Tool Weight	<u>2,000</u>		
Bottom Packer Depth	<u>5061</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>5188</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>H-90 610' (6.2)</u>
Mud Wt.	<u>9.2</u> LCM	Vis.	<u>57</u>	WL	<u>7.2</u>
Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>4435' (47.2)</u>		
Blow Description	<u>IF: Weak to fair blow off bttm in 23 mins.</u>				
	<u>ISI: No return blow.</u>				
	<u>FF: Weak to fair blow off bttm in 35 mins.</u>				
	<u>FSI: No return blow.</u>				

Recovery — Total Feet	<u>950'</u>	GIP	<u>—</u>	Ft. in DC	<u>610'</u>	Ft. in DP	<u>340'</u>
Rec.	<u>310'</u>	Feet Of	<u>Mud</u>	%gas	%oil	%water	<u>100% mud</u>
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.	<u>640'</u>	Feet Of	<u>Wtr.</u>	%gas	%oil	<u>100</u>	%water %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>137°</u>	°F Gravity		°API D@		°F Corrected Gravity	°API
RW	<u>.14</u>	@	<u>60°</u>	°F Chlorides	<u>65,000</u>	ppm Recovery	Chlorides <u>3,500</u> ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2503</u>	<u>2430</u>	<u>3246</u>	<u>0900 (CDT)</u>
(B) First Initial Flow Pressure	<u>83</u>	<u>31</u>	(depth) <u>5065</u>	T-Started <u>1130</u>
(C) First Final Flow Pressure	<u>259</u>	<u>303</u>	PSI Recorder No. <u>13339</u>	T-Open <u>1451</u>
(D) Initial Shut-In Pressure	<u>1020</u>	<u>1039</u>	(depth) <u>5090</u>	T-Pulled <u>1951</u>
(E) Second Initial Flow Pressure	<u>353</u>	<u>297</u>	PSI Recorder No.	T-Out <u>2130</u>
(F) Second Final Flow Pressure	<u>447</u>	<u>462</u>	(depth) <u>30</u>	T-Off Location <u>2230</u>
(G) Final Shut-in Pressure	<u>1030</u>	<u>1040</u>	PSI Initial Opening <u>30</u>	Test <u>800</u>
(Q) Final Hydrostatic Mud	<u>2403</u>	<u>2403</u>	PSI Initial Shut-in <u>9000 60</u>	Jars <u>X</u> <u>200</u>
			Final Flow <u>90</u>	Safety Joint <u>X</u> <u>50</u>
			Final Shut-in <u>120</u>	Straddle

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Approved By Alan Graham
 Our Representative Red Steinbrink

Shale Extra Packer 150
 Elec. Rec. X 150
 Mileage 64 miles
 Other Stby 1 30
 TOTAL PRICE \$ 1380