15-119-21015

Well Name: Hayden B#1
Company: Pickrell Drilling Co., Inc.
Location: 30-32s-30w
Meade co KS
Date: 1-20-00

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling — DATE 1-18-00
WELL NAME: Hayden B-#1 — KB 2768.00 ft — TICKET NO: 12457 — DST #3
LOCATION : 30-32S-30W Meade co KS — GR 2765.00 ft — FORMATION: Chester
INTERVAL : 5772.00 To 5866.00 ft — TD 5866.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13277	13277	3026		
SI 45	Range(Psi)	4125.0	4125.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	12hr	12hr	elect		
FS 90	Depth(ft)	5866.0	5866.0	5779.0	0.0	0.0

TIME DATA----------
PF Fr. 1541 to 1611 hr
IS Fr. 1611 to 1656 hr
SF Fr. 1656 to 1756 hr
FS Fr. 1756 to 1926 hr

	Field	1	2	3	4
A. Init Hydro	3004.0	2990.0	2862.0	0.0	0.0
B. First Flow	118.0	142.0	36.0	0.0	0.0
B1. Final Flow	129.0	148.0	44.0	0.0	0.0
C. In Shut-in	162.0	170.0	76.0	0.0	0.0
D. Init Flow	129.0	155.0	34.0	0.0	0.0
E. Final Flow	140.0	144.0	40.0	0.0	0.0
F. Fl Shut-in	845.0	844.0	1053.0	0.0	0.0
G. Final Hydro	2932.0	2928.0	2819.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1335 hr
T ON BOTM 1540 hr
T OPEN 1541 hr
T PULLED 1926 hr
T OUT 2145 hr

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	120000.00 lbs
Initial Str Wt	82000.00 lbs
Unseated Str Wt	84000.00 lbs
Bot Choke	0.78 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.38 in
D.C. Length	235.00 ft
D.P. Length	5605.00 ft

RECOVERY
Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
70.00 ft of Mud
0.00 ft of 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

MUD DATA----------

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	64.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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	Scott Bugbee
Co. Rep.	Arden Ratliff
Contr.	Pickrell
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Strong blow bottom of bucket in 35 seconds.
Initial Shut-In:
Bled 2 1/2". Blow back never died.

Final Flow:
Fair blow. Bottom of bucket in 20 minutes. Built to strong blow in 40 minutes.
Final Shut-In:
Bled 2". No blow back.

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Hayden B-#1

LOCATION : 30-32S-30W Meade co KS

TICKET No. 12457 D.S.T. No. 3 DATE 1-18-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 23

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 32

TOTAL TOOL 55

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 117

D.C. ABOVE TOOLS.Stands4 Single Total 235

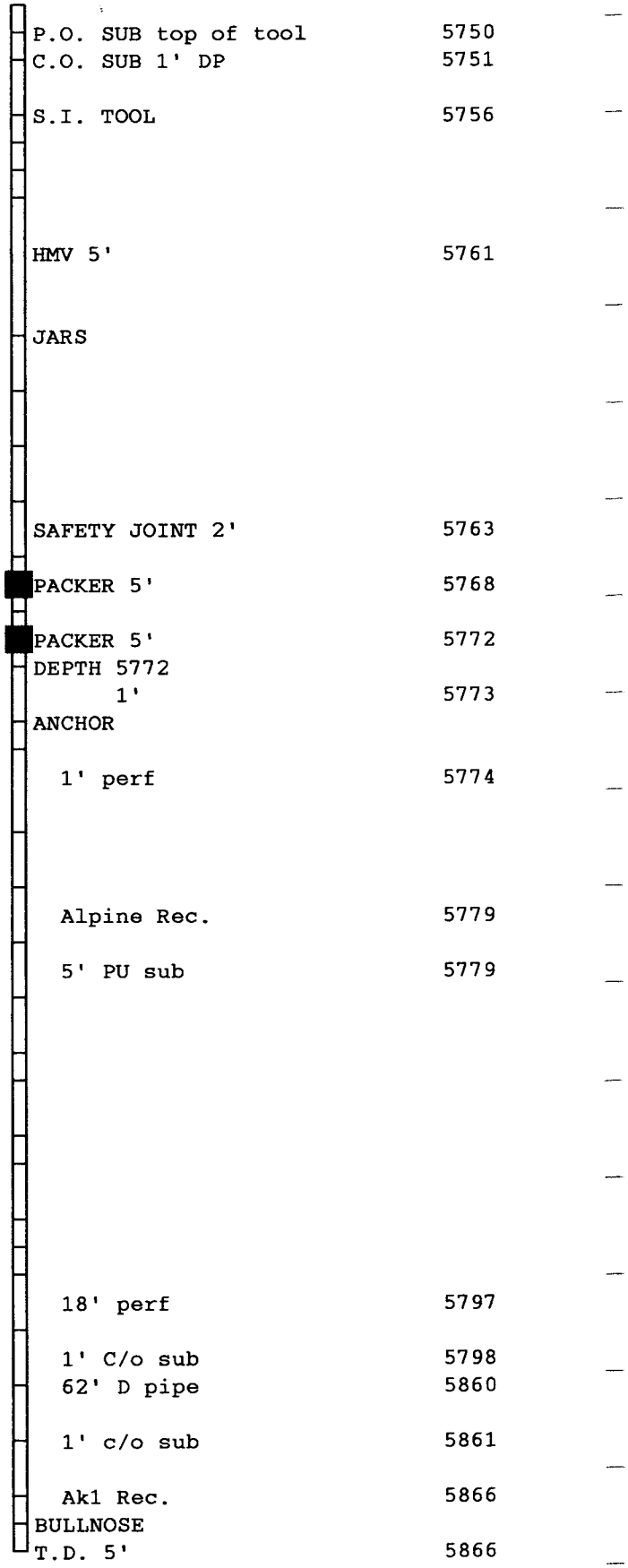
D.P. ABOVE TOOLS.Stands90 Single 1 Total 5543

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5895

TOTAL DEPTH 5866

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:



TEST HISTORY

12457 DST#3 Hayden B #1 Pickrell Drilling Co., Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2862.64
B:	0.00	30.61
C:	28.75	40.30
D:	44.75	76.45
E:	0.00	34.17
F:	59.25	40.86
G:	89.50	1053.88
Q:	0.00	2819.90

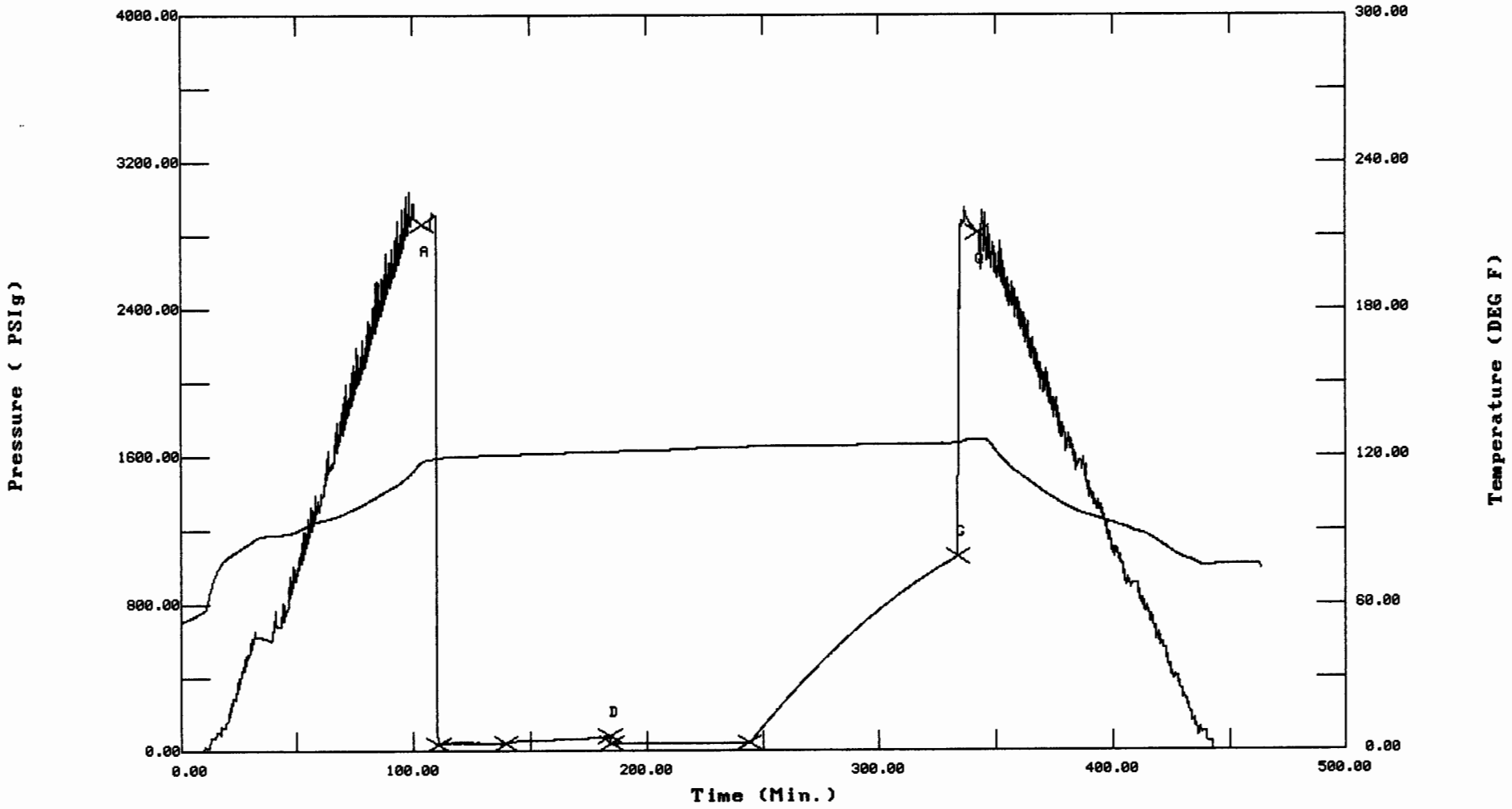
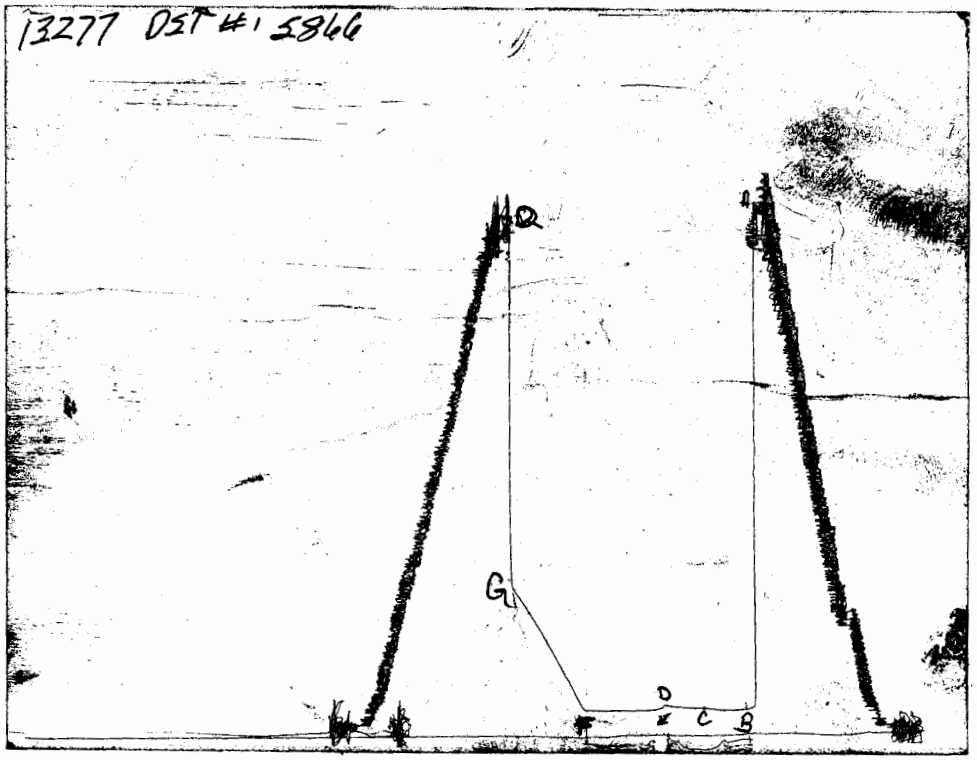


CHART PAGE



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

№ 12457

Well Name & No. Hayden B #1 Test No. #3 Date 1-18-00

Company Pickrell Drilling Zone Tested Chester

Address 100 S Main Ste. 505 Wichita Ks. 67202 Elevation 2768 KB 2765 GL

Co. Rep / Geo. Arden Ratzlaff Cont. Pickrell Rig 1 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 30 Twp. 32S Rge. 30W Co. Meade State Ks.

No. of Copies ___ Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 5772 - 5866

Anchor Length 94'

Top Packer Depth 5768

Bottom Packer Depth 5772

Total Depth 5866

Mud Wt. 9.3 LCM 2 Vis. 64 WL 8.8

Initial Str Wt./Lbs. 82,000 Unseated Str Wt./Lbs. 84,000

Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 120,000

Tool Weight 1800

Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Wt. Pipe Run ___ Drill Collar Run 235 4.75 IF

Drill Pipe Size 4½ XH Ft. Run 5543 90+1

Blow Description 1st open Strong blow B.O.B. in 35 sec.
Bled 2" ½" Blow back never died
2nd open fair Blow B.O.B. in 20 min. built to strong blow in 40 min.
Bled 2" no blow back

Recovery — Total Feet 70 GIP ___ Ft. in DC 70 Ft. in DP ___

Rec. 70	Feet Of Mud	%gas	%oil	%water	100	%mud
Rec. ___	Feet Of ___	%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 ___ °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 4000 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	3004	2862	PSI	Recorder No.	3026	T-On Location 12:35 P.M.
(B) First Initial Flow Pressure	118	36	PSI	(depth)	5779	T-Started 12:35 P.M.
(C) First Final Flow Pressure	129	44	PSI	Recorder No.	13277	T-Open 3:41 P.M.
(D) Initial Shut-In Pressure	162	76	PSI	(depth)	5866	T-Pulled 7:26 P.M.
(E) Second Initial Flow Pressure	129	34	PSI	Recorder No.	___	T-Out 9:45 P.M.
(F) Second Final Flow Pressure	140	40	PSI	(depth)	___	T-Off Location 11:00 P.M.
(G) Final Shut-in Pressure	845	1053	PSI	Initial Opening	30	Test ✓ 1800.00
(Q) Final Hydrostatic Mud	2932	2819	PSI	Initial Shut-in	45	Jars ✓
				Final Flow	60	Safety Joint ✓ 50.00
				Final Shut-in	90	Straddle ___
						Circ. Sub ✓ n/c
						Sampler ___
						Extra Packer ___
						Elec. Rec. ✓ 150.00
						Mileage ___
						Other ___
						TOTAL PRICE $ 1000.00

Approved By Arden Ratzlaff

Our Representative Scott Bugbee