

DRILL STEM TEST REPORT

Prepared For: **Advantage Resources, Inc.**

1775 Sherman st.# 1900
Denver, CO 80203

ATTN: Brad Rine

18-28S-17W Kiowa KS

Parnell #3

Start Date: 2001.08.25 @ 10:36:51

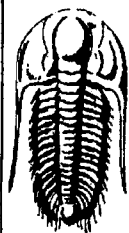
End Date: 2001.08.25 @ 19:04:21

Job Ticket #: 14985 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Advantage Resources, Inc.

1775 Sherman st.# 1900
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ATTN: Brad Rine

Parnell #3

18-28S-17W Kiowa KS

Job Ticket: 14985

DST#: 1

Test Start: 2001.08.25 @ 10:36:51

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:01:21

Time Test Ended: 19:04:21

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **4754.00 ft (KB) To 4815.00 ft (KB) (TVD)**

Total Depth: 4815.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2200.00 ft (KB)

2193.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 3302 Inside

Press@RunDepth: 30.97 psig @ 4755.00 ft (KB)

Start Date: 2001.08.25

End Date:

2001.08.25

Start Time: 10:36:53

End Time:

19:04:21

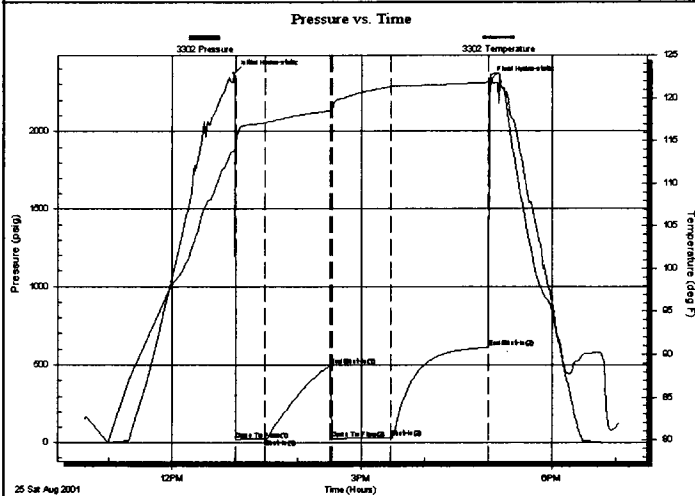
Capacity: 7000.00 psig

Last Calib.: 2001.01.27

Time On Btm: 2001.08.25 @ 12:58:51

Time Off Btm: 2001.08.25 @ 17:01:21

TEST COMMENT: IF: Fair blow b.o.b in 2-1/2 mins.
IS: Bled down for 2 mins no blow back.
FF: Strong blow built to b.o.b in 30 sec.
FSI: Bled down for 2 mins. no blow back.



PRESSURE SUMMARY

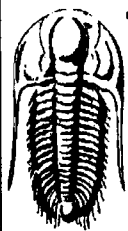
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.47	113.95	Initial Hydro-static
3	19.67	114.92	Open To Flow (1)
30	26.18	117.16	Shut-In(1)
92	495.84	118.54	End Shut-In(1)
94	25.98	118.79	Open To Flow (2)
149	30.97	121.37	Shut-In(2)
241	612.28	121.85	End Shut-In(2)
243	2327.07	122.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	gas cut mud 10%gas 90%mud	0.56
1100.00	Gas in pipe	15.43

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Advantage Resources, Inc.

Parnell #3

1775 Sherman st.# 1900
Denver, CO 80203

18-28S-17W Kiowa KS

Job Ticket: 14985

DST#: 1

ATTN: Brad Rine

Test Start: 2001.08.25 @ 10:36:51

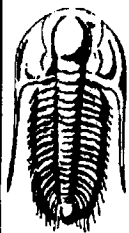
Tool Information

Drill Pipe:	Length: 4751.00 ft	Diameter: 3.80 inches	Volume: 66.64 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 66.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4754.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4727.00	
S.I. Tool	5.00			4732.00	
HMV	5.00			4737.00	
Jars	5.00			4742.00	
Safety Joint	2.00			4744.00	
Packer	5.00			4749.00	28.00 Bottom Of Top Packer
Packer	5.00			4754.00	
Stubb	1.00			4755.00	
Recorder	0.00	3302	Inside	4755.00	
Anchor	28.00			4783.00	
Recorder	0.00	13769	Outside	4783.00	
Blank Spacing	29.00			4812.00	
Bullnose	3.00			4815.00	61.00 Bottom Packers & Anchor

Total Tool Length: 89.00



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FLUID SUMMARY

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Parnell #3

1775 Sherman st.# 1900
Denver, CO 80203

18-28S-17W Kiowa KS

Job Ticket: 14985

DST#: 1

ATTN: Brad Rine

Test Start: 2001.08.25 @ 10:36:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.99 cm³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	gas cut mud 10%gas 90%mud	0.561
1100.00	Gas in pipe	15.430

Total Length: 1140.00 ft

Total Volume: 15.991 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

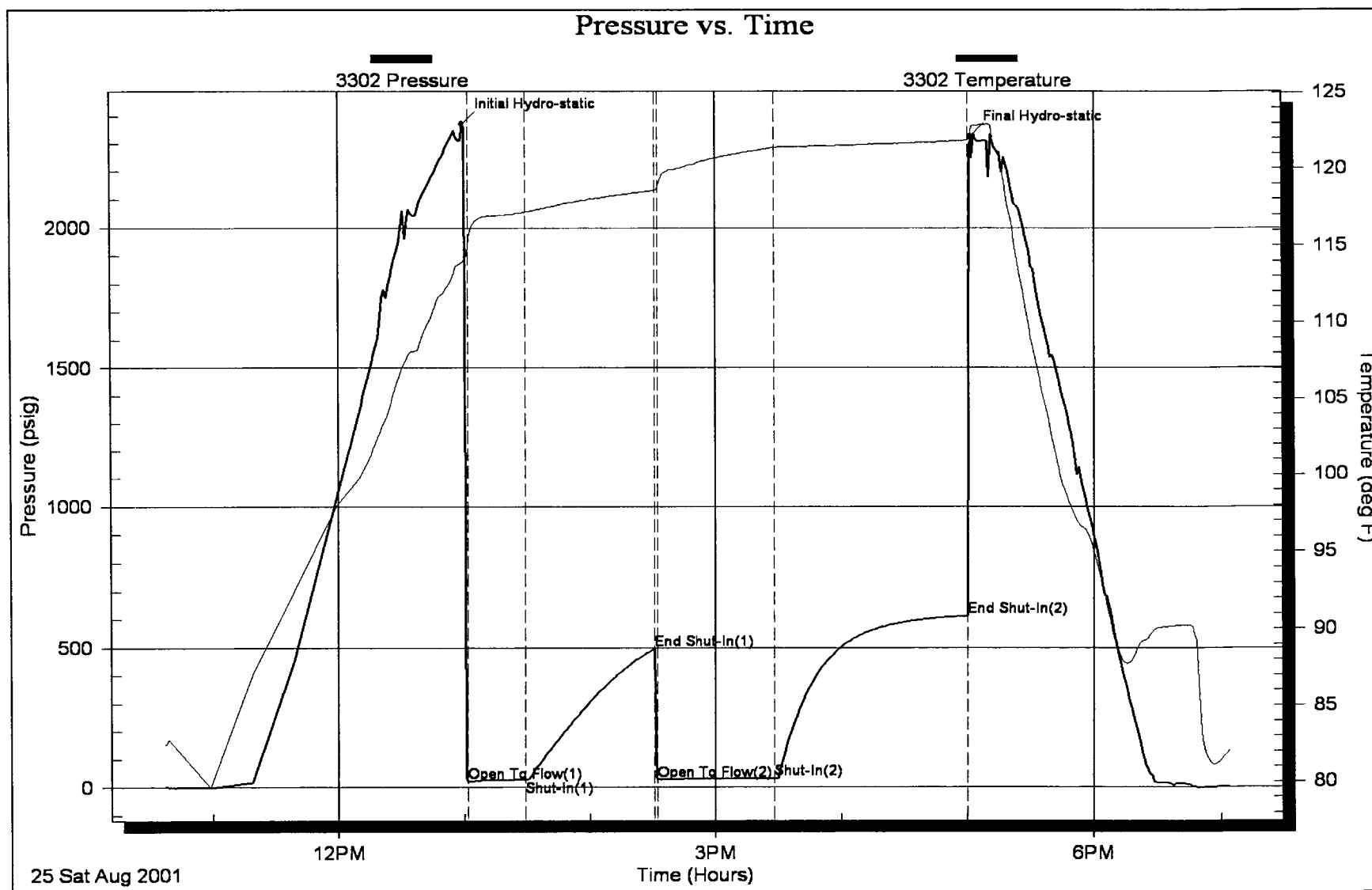
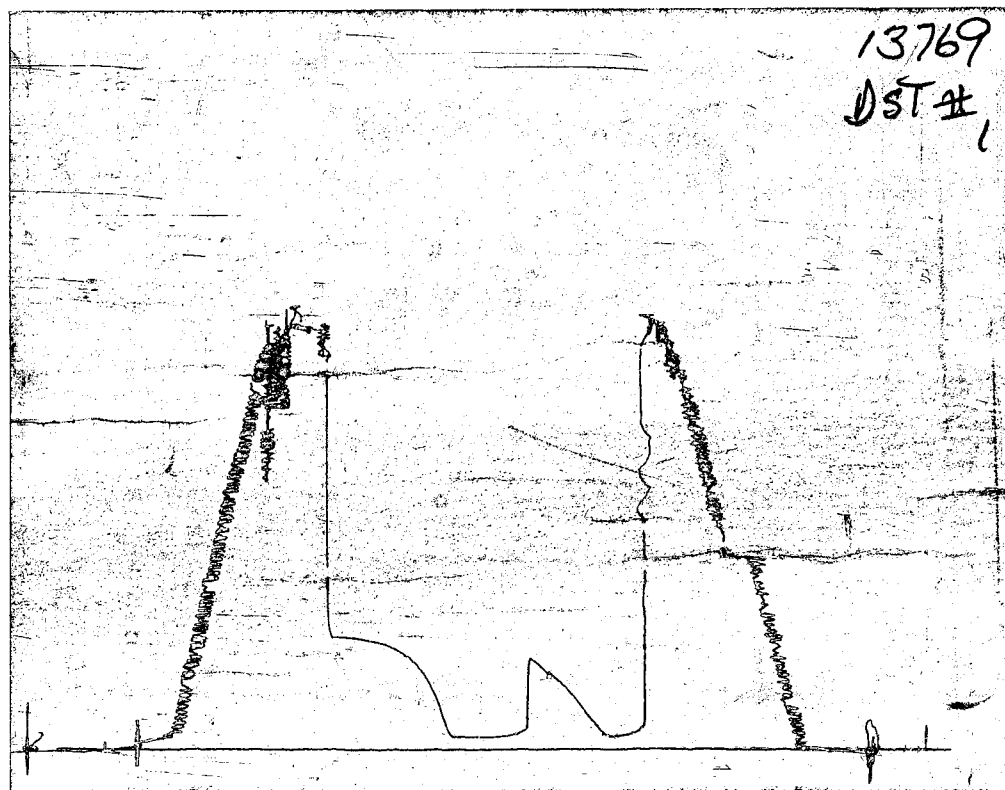
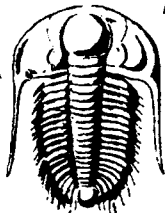


CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14985

Test Ticket

Well Name & No. <u>Larnell #3</u>	Test No. <u>#1</u>	Date <u>08/25/01</u>
Company <u>Advantage Resources, Inc.</u>	Zone Tested <u>Mississippian</u>	
Address <u>1725 Sherman St Suite 1900 Denver CO 80203</u>	Elevation <u>2200</u>	KB <u>2197</u> GL
Co. Rep / Geo. <u>Brad Rine</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>18</u> Twp. <u>28S</u> Rge. <u>17W</u>	Co. <u>Kiowa</u> State <u>KS</u>	
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>4754' - 4815'</u>	Initial Str Wt./Lbs. <u>40,000</u>	Unseated Str Wt./Lbs. <u>40,000</u>
Anchor Length <u>61'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>6500</u>
Top Packer Depth <u>4749'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4754'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>4815'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.3</u> LCM <u>0</u> Vis. <u>60</u> WL <u>10.0</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>4751'</u>
Blow Description <u>IF: Fair flow built to b.o.b in 2 1/2 mins.</u>		
<u>ISI: Bled down for 2 mins. No blow back</u>		
<u>FF: Strong flow b.o.b in 30 sec</u>		
<u>FSI Bled down for 2 mins no blow back</u>		
Recovery — Total Feet <u>40'</u>	GIP <u>1100</u>	Ft. in DC <u>N/A</u> Ft. in DP <u>40'</u>
Rec. <u>40</u> Feet Of <u>10</u>	%gas <u> </u> %oil <u> </u> %water <u>90</u>	%mud <u> </u>
Rec. <u>1100</u> Feet Of <u>GIP</u>	%gas <u> </u> %oil <u> </u> %water <u> </u>	%mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u>	%mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u>	%mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u>	%mud <u> </u>
BHT <u>122.0</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u> °API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery <u> </u>	Chlorides <u>5000</u> ppm System <u> </u>

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2371</u>	<u>2371</u>		<u>3302</u>	<u>0845</u>
(B) First Initial Flow Pressure	<u>20</u>	<u>20</u>		<u>4755</u>	<u>1036</u>
(C) First Final Flow Pressure	<u>26</u>	<u>26</u>		<u>13769</u>	<u>1240</u>
(D) Initial Shut-In Pressure	<u>196</u>	<u>196</u>		<u>4783</u>	<u>1640</u>
(E) Second Initial Flow Pressure	<u>26</u>	<u>26</u>		<u> </u>	<u>1904</u>
(F) Second Final Flow Pressure	<u>31</u>	<u>31</u>		<u> </u>	<u>1930</u>
(G) Final Shut-in Pressure	<u>612</u>	<u>612</u>		<u>30</u>	<u>800</u>
(Q) Final Hydrostatic Mud	<u>2327</u>	<u>2327</u>		<u>60</u>	<u>200</u>
				<u>60</u>	<u>50</u>
				<u>90</u>	<u> </u>

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Approved By Brad Rine
Our Representative Dan J. Comerio

Straddle
Circ. Sub
Sampler
Extra Packer
Elec. Rec. 150
Mileage 30
Other 1 hr 30
TOTAL PRICE \$ 1260