



**TRILOBITE
TESTING, INC.**

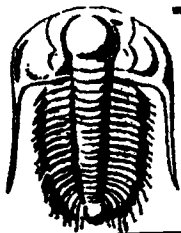
DRILL STEM TEST REPORT

Prepared for

ESP Development, Inc.
17746 177th Blvd
Paradise, KS 67658

Helen A#1
1-11S-20W
Ellis Co Kansas

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
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TRIOBITE TESTING, INC.

DRILL STEM TEST REPORT ESP Development, Inc.

Well name#:	Helen A#1	Date:	8/27/2002
Location#:	1-11S-20W Ellis Co. Kansas	Ticket #:	16679
		DST#	1

General Informaion:

Formation:	LKC	Test Type:	Conventional	BHT:	108
Interval:	3385-3475	Tester:	Ray Schwager	OIL API:	
Total Depth:	3475	Elevation:	2099 ft(KB)	H2O Salinity:	
Hole Diameter:	7 78"		2094 ft(CF)		

Start Data:	8/27/2002	Tool Weight:	2200	Mud Type:	
Start Time:	4:00:00	Weight Set on Packers:	20000	Mud Weight:	9.2
Time tool opened:	5:55:00	Weight to Pull Loose:	45000	Viscosity:	50
Time Off Btm:	8:25:00	Initial String Weight:	26000	Water Loss:	7.2
End Date:	8/27/02	Final String Weight:	30000	Resistivity:	
End Time:	10:30:00	Drill Pipe Length:	3390	Salinity:	
		Drill Collar Length:			

Test Comment:

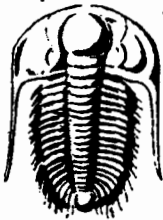
IFP - Weak to a strong blow in 10 min.
FFP - Weak to a strong blow in 29 min.

Recovery

Length(ft): 420 Water with show of oil at top of tool
180 MW 75% W 25%M

Gas Volume Report

Recorder #:	11085	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1690					
Open to Flow (1):	99 30					
Shut-in (1):	209 45					
End Shut-in (1):	1028					
Open to Flow (2):	253 30					
Shut-in (2):	352 45					
End Shut-in (2):	1017					
Final Hydro-static:	1679					



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Invoice
5116
\$1730.00

No 16679

Test Ticket

Well Name & No. <u>Helen A#1</u>	Test No. <u>1</u>	Date <u>8-27-02</u>
Company <u>ESP Development, Inc</u>	Zone Tested <u>LKC</u>	
Address <u>17246 177th Boulevard Paradise, Ka 62658</u>		Elevation <u>2099</u> KB <u>2094</u> GL
Co. Rep / Geo. <u>Ron Nelson</u>	Cont. <u>Donfeldt sigl</u>	Est. Ft. of Pay <u>-</u> Por. <u>-</u> %
Location: Sec. <u>1</u> Twp. <u>11</u>	Rge. <u>20^W</u>	Co. <u>Ellis</u> State <u>Ka</u>
No. of Copies <u>Reg</u>	Distribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>3385-3475</u>	Initial Str Wt./Lbs. <u>26000</u>	Unseated Str Wt./Lbs. <u>30000</u>
Anchor Length <u>90</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>45000</u>
Top Packer Depth <u>3380</u>	Tool Weight <u>2200</u>	
Bottom Packer Depth <u>3385</u>	Hole Size — 7 7/8" <u>yes</u>	Rubber Size — 6 3/4" <u>yes</u>
Total Depth <u>3475</u>	Wt. Pipe Run <u>-</u>	Drill Collar Run <u>-</u>
Mud Wt. <u>9.2</u> LCM <u>1/4"</u> Vis. <u>50</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3390</u>
Blow Description <u>IFP-WEAK TO A STRONG BLOW IN 10 min</u>		
<u>FFP-WEAK TO A STRONG BLOW IN 29 min</u>		
<u>NO BLOW ON SHUT-IN</u>		

Recovery — Total Feet <u>600</u>	GIP <u>-</u>	Ft. in DC <u>-</u>	Ft. in DP <u>600</u>
Rec. <u>180</u> Feet Of <u>MW</u>	%gas	%oil	75 %water 25 %mud
Rec. <u>420</u> Feet Of <u>WATER</u>	%gas	%oil	%water %mud
Rec. <u>-</u> Feet Of <u>w/ show foil Top of Tool</u>	%gas	%oil	%water %mud
Rec. <u>-</u> Feet Of <u>-</u>	%gas	%oil	%water %mud
Rec. <u>-</u> Feet Of <u>-</u>	%gas	%oil	%water %mud
BHT <u>108°</u> °F Gravity <u>-</u>	°API D@ <u>-</u>	°F Corrected Gravity <u>-</u> °API	
RW <u>.12</u> @ <u>75</u> °F	Chlorides <u>63000</u> ppm Recovery	Chlorides <u>3000</u> ppm System	

(A) Initial Hydrostatic Mud <u>1690</u>	AK-1	Alpine	PSI Recorder No. <u>11085</u>	T-On Location <u>0330</u>
(B) First Initial Flow Pressure <u>99</u>			PSI (depth) <u>3450</u>	T-Started <u>0400</u>
(C) First Final Flow Pressure <u>209</u>			PSI Recorder No. <u>13547</u>	T-Open <u>0555</u>
(D) Initial Shut-In Pressure <u>1028</u>			PSI (depth) <u>3472</u>	T-Pulled <u>0825</u>
(E) Second Initial Flow Pressure <u>253</u>			PSI Recorder No. <u>-</u>	T-Out <u>1030</u>
(F) Second Final Flow Pressure <u>352</u>			PSI (depth) <u>-</u>	T-Off Location <u>1045</u>
(G) Final Shut-in Pressure <u>1017</u>			PSI Initial Opening <u>30</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud <u>1679</u>			PSI Initial Shut-in <u>45</u>	Jars <u>-</u>
			Final Flow <u>30</u>	Safety Joint <u>-</u>
			Final Shut-in <u>45</u>	Straddle <u>-</u>
				Circ. Sub <u>-</u>
				Sampler <u>-</u>
				Extra Packer <u>-</u>
				Elec. Rec. <u>-</u>
				Mileage <u>✓30</u>
				Other <u>-</u>
				TOTAL PRICE \$ <u>✓</u>

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Approved By -

Our Representative RAY SCHWAGER THANK YOU

30
730

Well Name Helen H#1
DST Number ESP Development
Recorder Number 110085

A:	<u>1.560</u>	<u>1701.29</u>
B:	<u>0.097</u>	<u>106.82</u>
C:	<u>0.100</u>	<u>110.13</u>
D:	<u>0.933</u>	<u>1020.66</u>
E:	<u>0.239</u>	<u>263.21</u>
F:	<u>0.316</u>	<u>348.01</u>
G:	<u>0.907</u>	<u>992.40</u>
Q:	<u>1.528</u>	<u>1666.66</u>

CHART PAGE

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

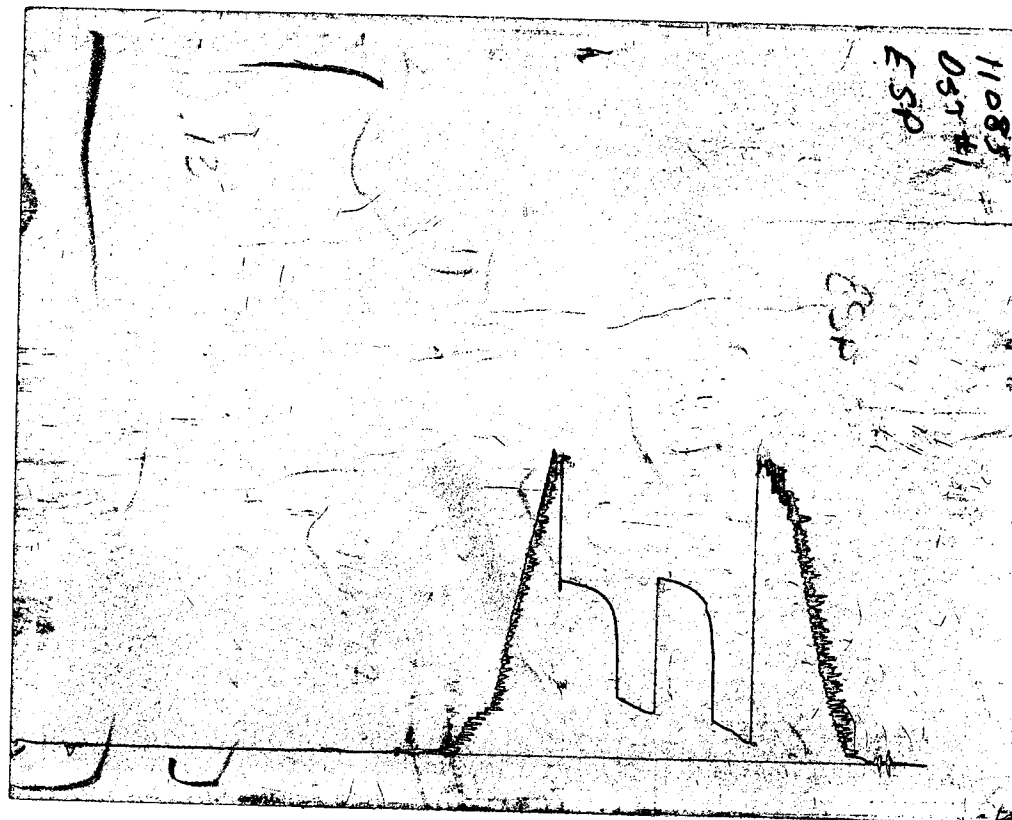


CHART PAGE

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