

15-051-25067

5-14s-20w



DRILL STEM TEST REPORT

Prepared For: **Enterprise Inc.**

2708 Barclay
Hays, KS 67601

ATTN: Jerry Green

5-14s-20w Ellis KS

Boos#5

Start Date: 2000.12.05 @ 04:00:00

End Date: 2000.12.05 @ 08:15:00

Job Ticket #: #13824 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

Enterprise Inc.

2708 Barclay
Hays, KS 67601

ATTN: Jerry Green

Boos#5

5-14s-20w Ellis KS

Job Ticket: #13824

DST#: 1

Test Start: 2000.12.05 @ 04:00:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 05:16:33

Time Test Ended: 08:15:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3266.00 ft (KB) To 3284.00 ft (KB) (TVD)**

Total Depth: **3284.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2245.00 ft (KB)**

2240.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **3289** Inside

Press@RunDepth: **224.79 psig @ 3273.00 ft (KB)**

Start Date: **2000.12.05**

End Date:

2000.12.05

Start Time: **03:08:35**

End Time:

10:27:18

Capacity: **7000.00 psig**

Last Calib.: **2000.12.05**

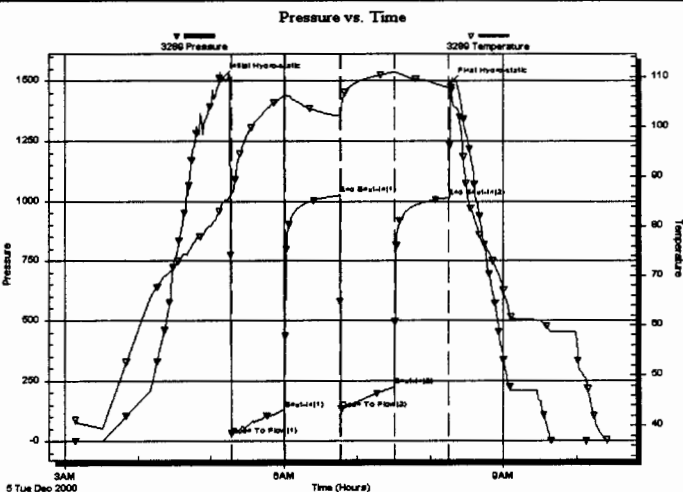
Time On Btm: **2000.12.05 @ 05:09:48**

Time Off Btm: **2000.12.05 @ 08:17:03**

TEST COMMENT: **IF Good Bot.in 14Min.**

FFGood Bot. in 14 min

FFGood Bot. in 18 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
122	1514.32	84.79	Initial Hydro-static
128	22.31	86.41	Open To Flow (1)
173	130.26	106.25	Shut-in(1)
218	1024.78	102.13	End Shut-in(1)
218	129.34	102.14	Open To Flow (2)
263	224.79	110.92	Shut-in(2)
307	1014.26	107.81	End Shut-in(2)
309	1492.09	106.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
429.00	Salt Water	6.02
1.00	Oil	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Enterprise Inc.

2708 Barclay
Hays, KS 67601

ATTN: Jerry Green

Boos#5

5-14s-20w Ellis KS

Job Ticket: #13824

DST#: 1

Test Start: 2000.12.05 @ 04:00:00

Tool Information

Drill Pipe:	Length: 3260.00 ft	Diameter: 3.80 inches	Volume: 45.73 bbl	Tool Weight: 2500.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
Drill Pipe Above KB:	9.02 ft			Tool Chased 0.00 ft
Depth to Top Packer:	3266.00 ft			String Weight: Initial 43000.00 lb
Depth to Bottom Packer:	ft			Final 46000.00 lb
Interval between Packers:	ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3252.00	
S.I. Tool	5.00			3257.00	
HMV	5.00			3262.00	
Packer	4.00			3266.00	15.00 Bottom Of Top Packer
Packer	5.00			3271.00	
Stubb	1.00			3272.00	
Perforations	1.00			3273.00	
Recorder	0.00	3289	Inside	3273.00	
Perforations	13.00			3286.00	
Recorder	0.00	24174	Outside	3286.00	
Bullnose	3.00			3289.00	23.00 Bottom Packers & Anchor

Total Tool Length: 38.00

Pressure vs. Time

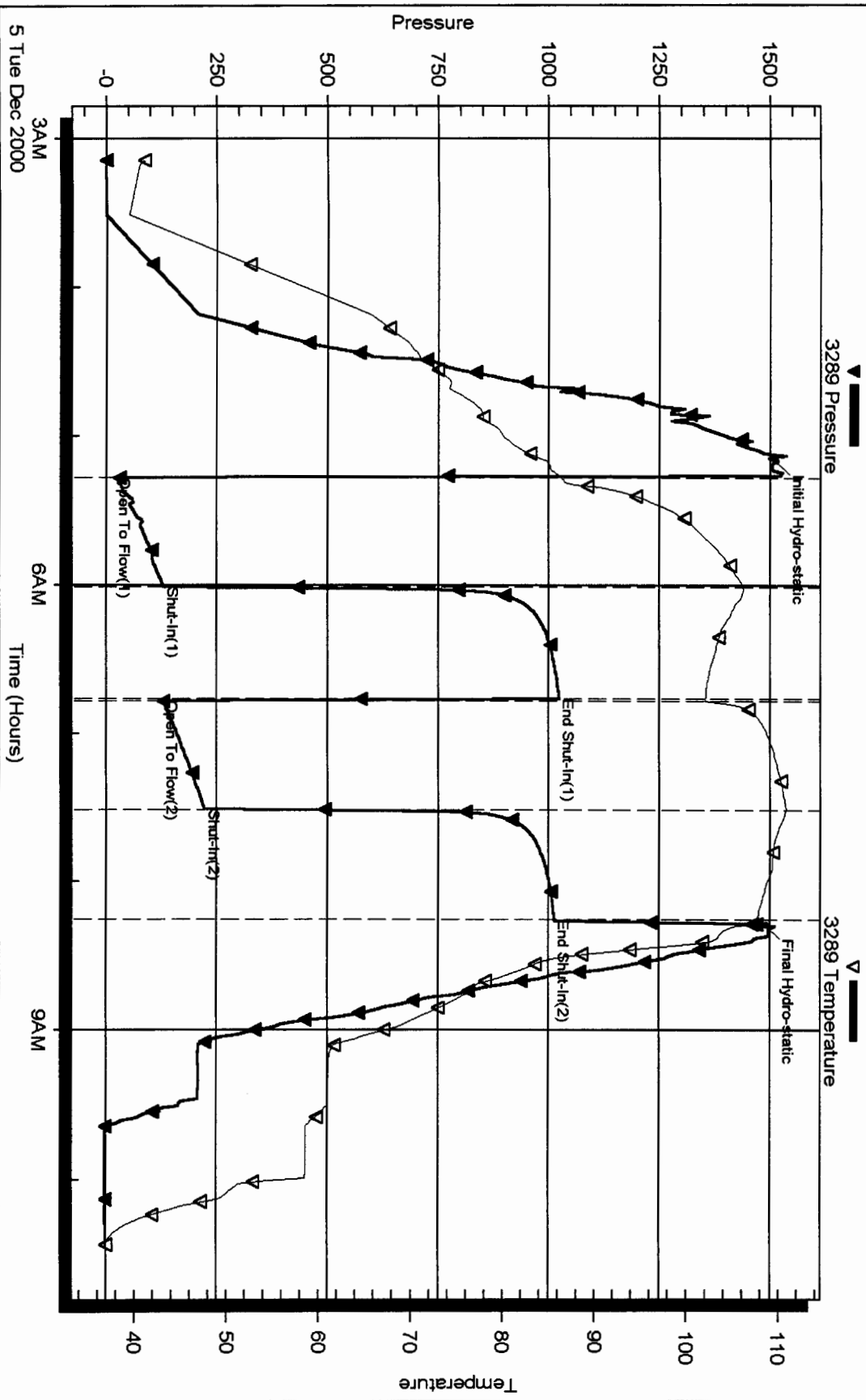
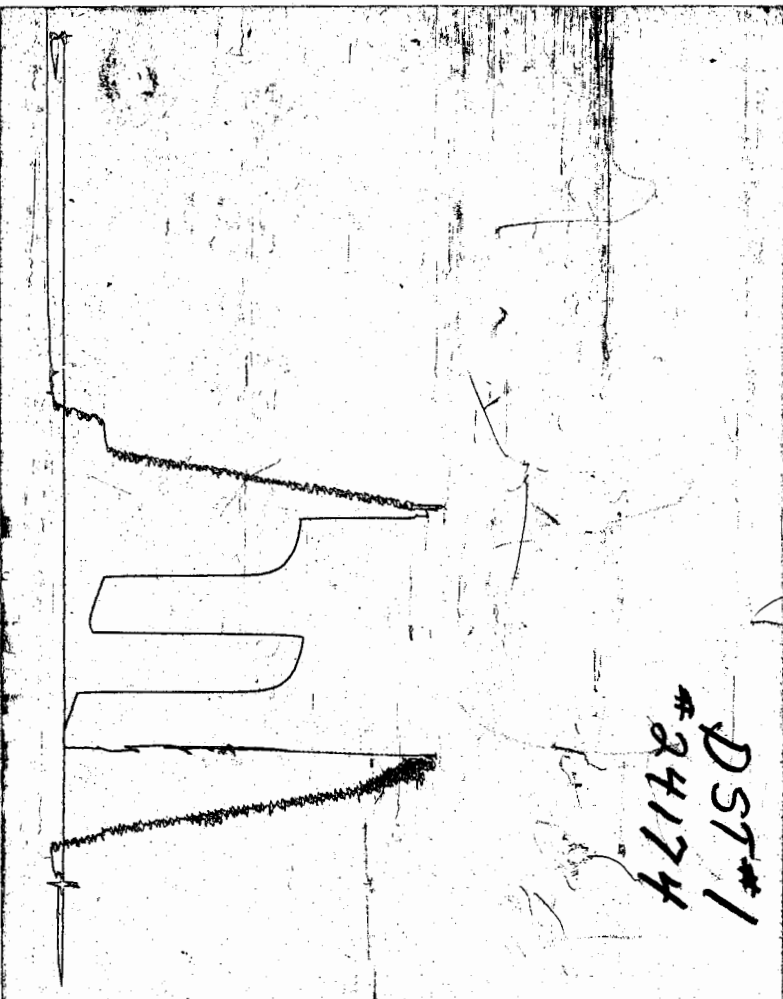


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13824

Test Ticket

Well Name & No.	<u>BOOS #5</u>	Test No.	<u>#1</u>	Date	<u>12-5-00</u>
Company	<u>ENTERPRISE INC.</u>	Zone Tested	<u>TOPEKA</u>		
Address	<u>2708 BARCLAY HAYS, KS 67601</u>	Elevation	<u>2245</u>	KB	<u>2240</u> GL
Co. Rep / Geo.	<u>JERRY GREEN</u>	Cont.	<u>MURFIN.16</u> <u>STEVE WEILERT</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>5</u>	Twp.	<u>14S</u>	Rge.	<u>20W</u> Co. <u>ELLIS</u> State <u>KS</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3266 - 3284</u>	Initial Str Wt./Lbs.	<u>43,000</u>	Unseated Str Wt./Lbs.	<u>46,000</u>
Anchor Length	<u>18'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>50,000</u>
Top Packer Depth	<u>3261</u>	Tool Weight	<u>2500</u>		
Bottom Packer Depth	<u>3266</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>3284</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>0</u>
Mud Wt. <u>8.8</u> LCM <u>1/4</u> Vis. <u>46</u> WL <u>10.0</u>		Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3260</u>
Blow Description	<u>GOOD BLOW BOT. IN 14 MIN</u> <u>F.F. GOOD BLOW BOT. IN 18 MIN.</u>				

Recovery — Total Feet	<u>430'</u>	GIP	<u> </u>	Ft. in DC	<u> </u>	Ft. in DP	<u> </u>
Rec. <u>429</u>	Feet Of	<u>SALT WATER</u>	%gas	%oil	%water	%mud	
Rec. <u>1'</u>	Feet Of	<u>OIL</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	
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> </u>	@ <u> </u>	°F Chlorides	<u> </u>	ppm Recovery	Chlorides	<u> </u>	ppm System

(A) Initial Hydrostatic Mud	<u>1447</u>	AK-1	<u>1514</u>	Alpine	PSI Recorder No.	<u>3289</u>	T-On Location	<u>12:00</u>
(B) First Initial Flow Pressure	<u>7</u>		<u>22</u>		PSI (depth)	<u>3268</u>	T-Started	<u>04:00</u> ³⁰⁸
(C) First Final Flow Pressure	<u>44</u>		<u>130</u>		PSI Recorder No.	<u>24174</u>	T-Open	<u>5:16</u>
(D) Initial Shut-In Pressure	<u>933</u>		<u>1024</u>		PSI (depth)	<u>3281</u>	T-Pulled	<u>8:16</u>
(E) Second Initial Flow Pressure	<u>89</u>		<u>129</u>		PSI Recorder No.	<u> </u>	T-Out	<u>8:17</u>
(F) Second Final Flow Pressure	<u>149</u>		<u>224</u>		PSI (depth)	<u> </u>	T-Off Location	<u> </u>
(G) Final Shut-in Pressure	<u>926</u>		<u>1014</u>		PSI Initial Opening	<u>45</u>	Test	<u>BOTTOM HOLE</u> ⁷⁰⁰
(Q) Final Hydrostatic Mud	<u>1424</u>		<u>1492</u>		PSI Initial Shut-in	<u>45</u>	Jars	<u> </u>
					Final Flow	<u>45</u>	Safety Joint	<u> </u>
					Final Shut-in	<u>45</u>	Straddle	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
Our Representative

Extra Packer
Elec. Rec. ✓ 150
Mileage 20
Other
TOTAL PRICE \$ 870



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Enterprise Inc.

2708 Barclay
Hays, KS 67601

ATTN: Jerry Green

Boos#5

5-14s-20w Ellis KS

Job Ticket: #13825

DST#: 2

Test Start: 2000.12.05 @ 04:15:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:05:39

Time Test Ended: 00:07:48

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3517.00 ft (KB) To 3570.00 ft (KB) (TVD)**

Total Depth: **3570.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2245.00 ft (KB)**

2240.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **3289** Inside

Press@RunDepth: **56.04 psig @ 3524.01 ft (KB)**

Start Date: **2000.12.06**

End Date: **2000.12.06**

Start Time: **03:50:11**

End Time: **09:51:09**

Capacity: **7000.00 psig**

Last Calib.: **2000.12.06**

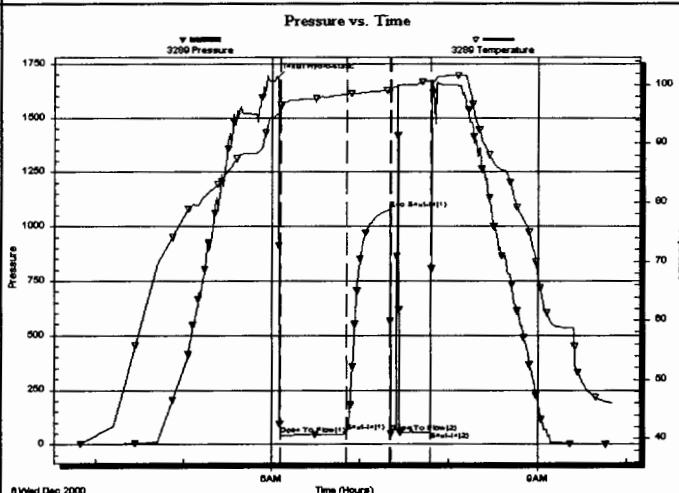
Time On Btm: **2000.12.06 @ 06:03:24**

Time Off Btm:

TEST COMMENT: **FF Surface Blow**

FF Dead Flush Tool Surface Blow Dead in 15 min. IF Surface Blow

FF Dead Flush Tool Dead 15



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
134	1684.97	94.91	Initial Hydro-static
136	41.98	96.36	Open To Flow (1)
181	56.04	98.39	Shut-In(1)
210	1077.09	99.04	End Shut-In(1)
211	48.71	98.70	Open To Flow (2)
238	54.28	100.71	Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud	1.12

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
----------------	-----------------	------------------



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Enterprise Inc.

Boos#5

2708 Barclay
Hays, KS 67601

5-14s-20w Ellis KS

Job Ticket: #13825

DST#:2

ATTN: Jerry Green

Test Start: 2000.12.05 @ 04:15:00

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 bbl	Tool Weight: 3000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
Drill Pipe Above KB:	4.02 ft			Tool Chased 18.00 ft
Depth to Top Packer:	3517.00 ft			String Weight: Initial 43000.00 lb
Depth to Bottom Packer:	ft			Final 44000.00 lb
Interval between Packers:	ft			
Tool Length:	73.02 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			3503.00	
S.I. Tool	5.00			3508.00	
HMV	5.00			3513.00	
Packer	4.00			3517.00	15.00 Bottom Of Top Packer
Packer	5.00			3522.00	
Stubb	1.00			3523.00	
Perforations	1.00			3524.00	
Recorder	0.01	3289	Inside	3524.01	
C.O. Sub	1.00			3525.01	
Blank Spacing	31.00			3556.01	
C.O. Sub	1.00			3557.01	
Perforations	15.00			3572.01	
Recorder	0.01	24174	Outside	3572.02	
Bullnose	3.00			3575.02	58.02 Bottom Packers & Anchor

Total Tool Length: 73.02

Serial #: 3289

Enterprise Inc.

Inside

5-14s-20w Ellis KS

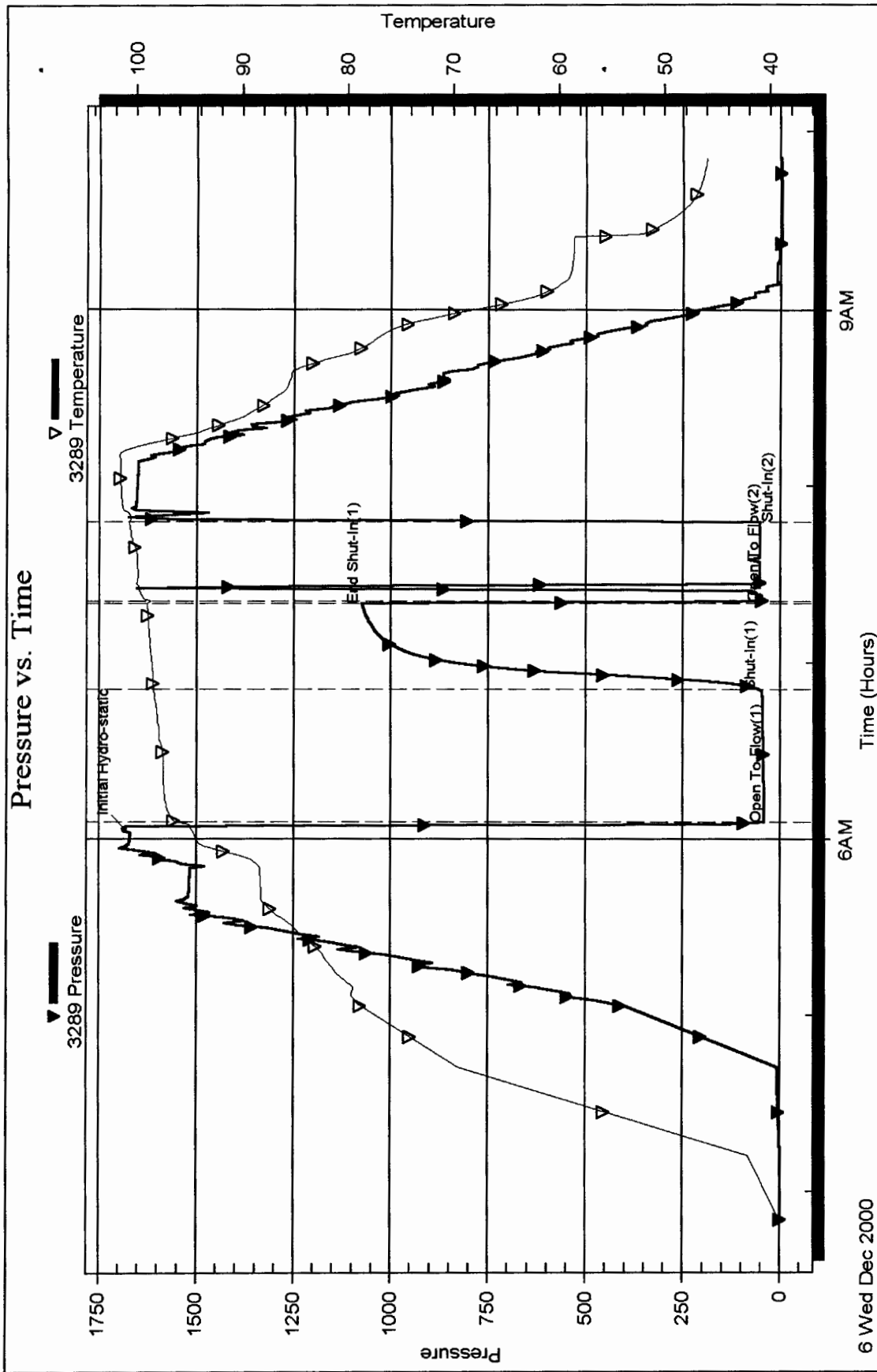
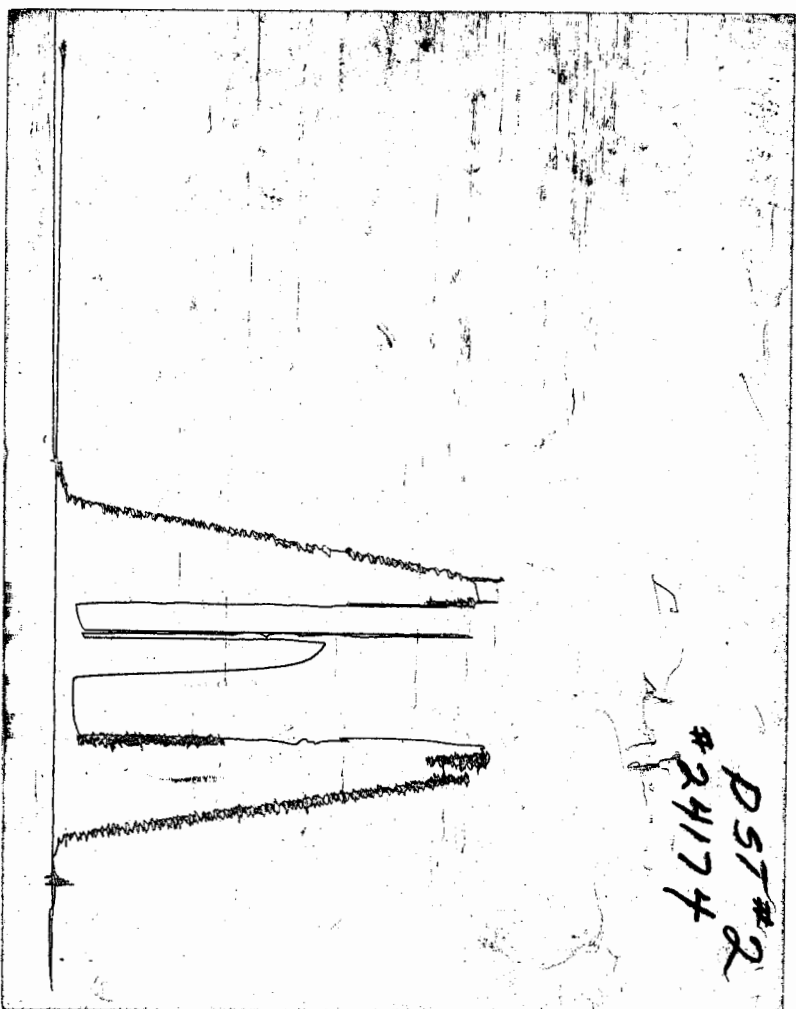


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13825

Test Ticket

Well Name & No.	<u>BOOS #5</u>	Test No.	<u>#2</u>	Date	<u>12-6-00</u>
Company	<u>ENTERPRISE INC.</u>	Zone Tested	<u>LANSING</u>		
Address	<u>2708 BARCLAY HAYS, KS. 67601</u>	Elevation	<u>2245</u>	KB	<u>2240</u> GL
Co. Rep / Geo.	<u>JERRY GREEN</u>	Cont.	<u>MURFIN 16</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>5</u>	Twp.	<u>14S</u>	Rge.	<u>20W</u>
		Co.	<u>ELLIS</u>	State	<u>KS</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u>
		Evaluation (Y, N)	<u> </u>		

Interval Tested	<u>3517- 3570</u>	Initial Str Wt./Lbs.	<u>43,000</u>	Unseated Str Wt./Lbs.	<u> </u>
Anchor Length	<u>53'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u> </u>
Top Packer Depth	<u>3512</u>	Tool Weight	<u>3,000</u>		
Bottom Packer Depth	<u>3517</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>3570</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>0</u>
Mud Wt.	<u>8.9</u> LCM <u>#2</u> Vis. <u>42</u> WL <u>8.0</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3506</u>
Blow Description	<u>SURFACE BLOW FF DEAD FLUSH TOOL SURFACE BLOW</u>				
	<u>DEAD IN 15 MIN.</u>				
	<u>COM. - HIT BRIDGE 320' OFF BOTTOM TOOL SLID 10' TO BOTTOM</u>				
	<u>LOST 30' MUD</u>				

Recovery — Total Feet	<u>80'</u>	GIP	<u> </u>	Ft. in DC	<u> </u>	Ft. in DP	<u> </u>
Rec.	<u>80'</u>	Feet Of	<u>MUD</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
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
BHT	<u> </u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	<u> </u>
				Chlorides	<u> </u>	ppm System	<u> </u>

(A) Initial Hydrostatic Mud	<u>1682</u>	AK-1	Alpine	PSI Recorder No.	<u>3289</u>	T-On Location	<u>02:45</u>
(B) First Initial Flow Pressure	<u>74</u>			PSI (depth)	<u>3519</u>	T-Started	<u>04:15</u>
(C) First Final Flow Pressure	<u>81</u>			PSI Recorder No.	<u>24174</u>	T-Open	<u>06:05</u>
(D) Initial Shut-In Pressure	<u>1062</u>			PSI (depth)	<u>3567</u>	T-Pulled	<u>07:48</u>
(E) Second Initial Flow Pressure	<u>89</u>			PSI Recorder No.	<u> </u>	T-Out	<u>09:00</u>
(F) Second Final Flow Pressure	<u>89</u>			PSI (depth)	<u> </u>	T-Off Location	<u>11:45</u>
(G) Final Shut-in Pressure	<u> </u>			PSI Initial Opening	<u>45</u>	Test	<u>BOTTOM HOLE</u>
(Q) Final Hydrostatic Mud	<u>1651</u>			PSI Initial Shut-in	<u>30</u>	Jars	<u> </u>
				Final Flow	<u>28</u>	Safety Joint	<u> </u>
				Final Shut-in	<u>0</u>	Straddle	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative

Extra Packer
Elec. Rec. ✓ 130
Mileage 20
Other
TOTAL PRICE \$ 870



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Enterprise Inc.

2708 Barclay
Hays, KS 67601

ATTN: Jerry Green

Boos#5

5-14s-20w Ellis KS

Job Ticket: #13951

DST#: 3

Test Start: 2000.12.06 @ 18:45:00

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:24:44

Time Test Ended: 20:24:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3585.00 ft (KB) To 3603.00 ft (KB) (TVD)**

Total Depth: 3603.00 ft (KB)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2245.00 ft (KB)

2240.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **3289** Inside

Press@RunDepth: 175.50 psig @ 3587.00 ft (KB)

Start Date: 2000.12.06

End Date:

2000.12.07

Start Time: 18:34:01

End Time:

00:44:59

Capacity: 7000.00 psig

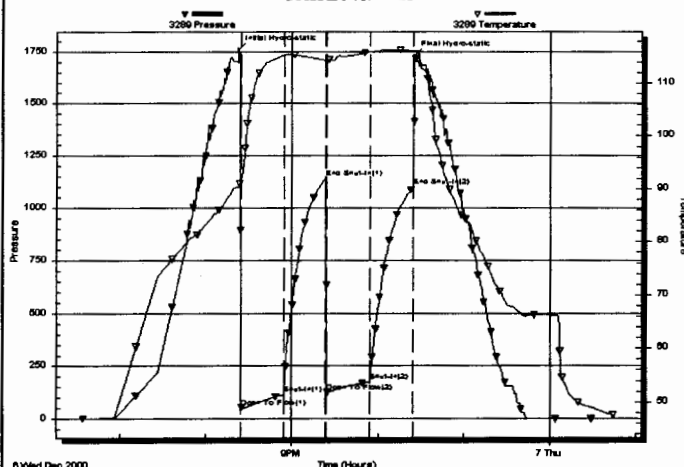
Last Calib.: 2000.12.06

Time On Btm: 2000.12.06 @ 20:22:44

Time Off Btm: 2000.12.06 @ 22:25:29

TEST COMMENT: IF Good Bot.in 8 min
FF Good Bot.in 15 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
109	1758.19	90.44	Initial Hydro-static
111	53.28	91.83	Open To Flow (1)
141	115.58	115.38	Shut-In(1)
170	1143.08	114.34	End Shut-In(1)
171	125.69	114.48	Open To Flow (2)
201	175.50	115.94	Shut-In(2)
231	1101.40	116.14	End Shut-In(2)
232	1729.65	116.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Oil	0.04
312.00	Muddy Water	4.38

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Enterprise Inc.

Boos#5

2708 Barclay
Hays, KS 67601

• 5-14s-20w Ellis KS

Job Ticket: #13951

DST#: 3

ATTN: Jerry Green

Test Start: 2000.12.06 @ 18:45:00

Tool Information

Drill Pipe:	Length: 3569.00 ft	Diameter: 3.80 inches	Volume: 50.06 bbl	Tool Weight: 2500.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
Drill Pipe Above KB:	4.02 ft			Tool Chased 0.00 ft
Depth to Top Packer:	3580.00 ft			String Weight: Initial 44000.00 lb
Depth to Bottom Packer:	ft			Final 48000.00 lb
Interval between Packers:	ft			
Tool Length:	38.00 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			3566.00	
S.I. Tool	5.00			3571.00	
HMV	5.00			3576.00	
Packer	4.00			3580.00	15.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Stubb	1.00			3586.00	
Perforations	1.00			3587.00	
Recorder	0.00	3289	Inside	3587.00	
Perforations	13.00			3600.00	
Recorder	0.00	24174	Outside	3600.00	
Bullnose	3.00			3603.00	23.00 Bottom Packers & Anchor

Total Tool Length: 38.00

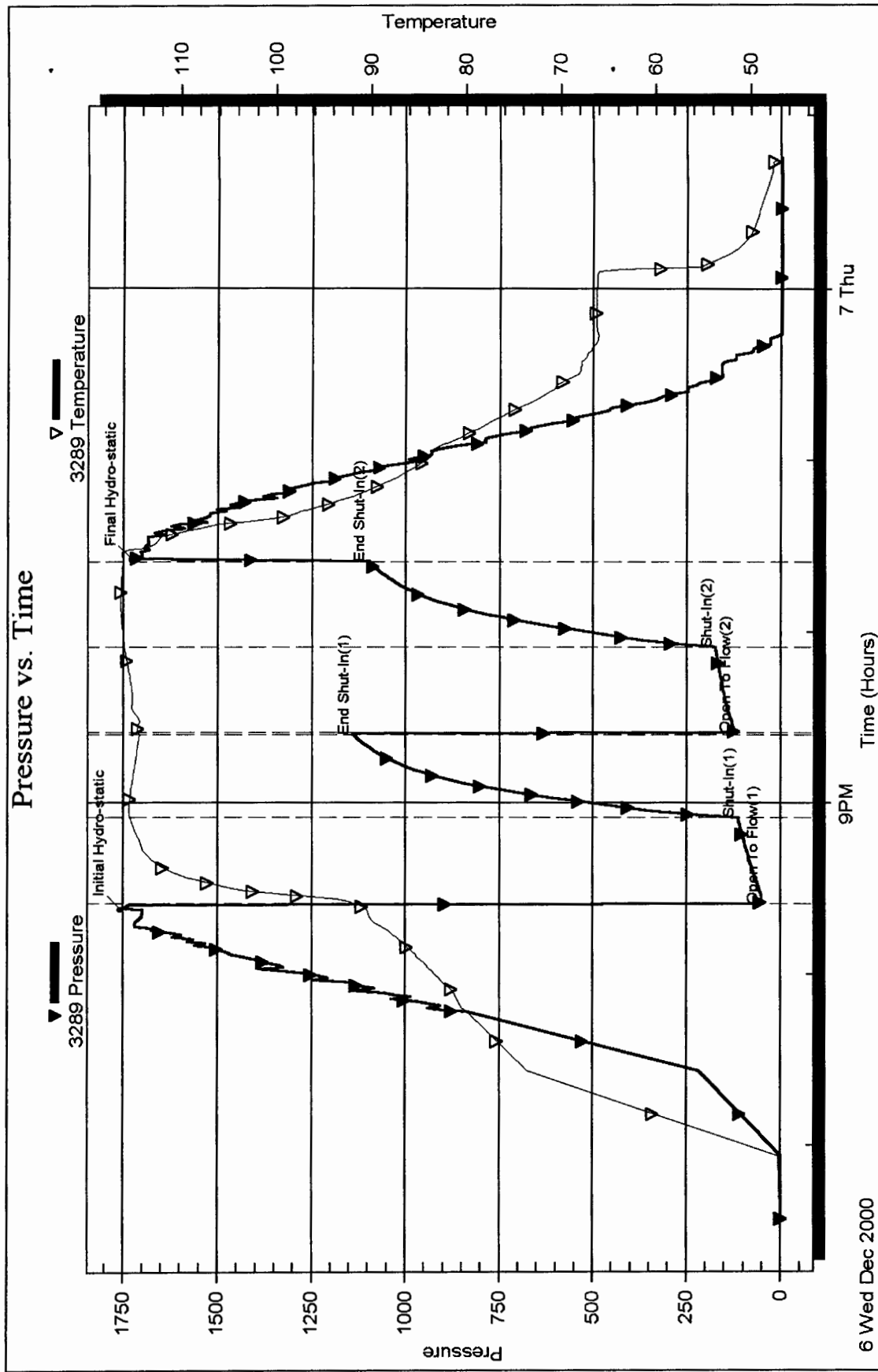
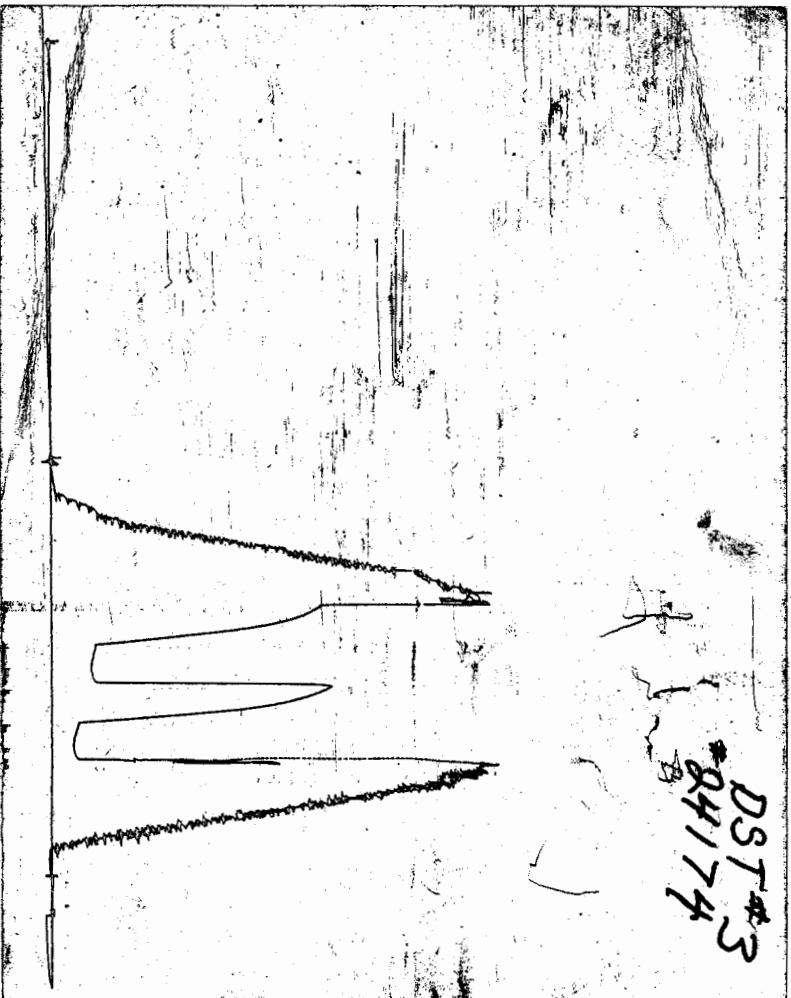


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13951

Test Ticket

Well Name & No.	<u>BOOS #5</u>	Test No.	<u>3</u>	Date	<u>12-6-00</u>
Company	<u>ENTERPRISE INC.</u>	Zone Tested	<u>LANSING</u>		
Address	<u>2708 BARCLAY HAYS, KS. 67601</u>	Elevation	<u>2245</u> KB <u>2240</u> GL		
Co. Rep / Geo.	<u>JERRY GREEN</u>	Cont.	<u>MURFIN #16</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>5</u>	Twp.	<u>14S</u>	Rge.	<u>20W</u> Co. <u>ELLIS</u> State <u>KS</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>3585-3603</u>	Initial Str Wt./Lbs.	<u>44,000</u>	Unseated Str Wt./Lbs.	<u>48,000</u>
Anchor Length	<u>18'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>70,000</u>
Top Packer Depth	<u>3580</u>	Tool Weight	<u>2,500</u>		
Bottom Packer Depth	<u>3585</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>3603</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>0</u>
Mud Wt.	<u>9.0</u> LCM <u>#1</u> Vis. <u>50</u> WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3569</u>
Blow Description	<u>F.F. GOOD-BOTTOM BUCK. 8 MIN.</u>				
	<u>F.F. GOOD-BOTTOM BUCK. 15 MIN.</u>				

Recovery — Total Feet	<u>315'</u>	GIP	<u>45'</u>	Ft. in DC	<u> </u>	Ft. in DP	<u> </u>
Rec.	<u>3'</u>	Feet Of	<u>OIL</u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u>312</u>	Feet Of	<u>MUDDY WATER</u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
BHT	<u>116</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>
RW	<u>107</u>	@	<u>66</u>	°F Chlorides	<u>125,000</u>	ppm Recovery	<u> </u>
				Chlorides	<u> </u>	ppm System	<u> </u>

(A) Initial Hydrostatic Mud	<u>1681</u>	AK-1	<u>1758</u>	Alpine	PSI	Recorder No.	<u>3289</u>	T-On Location	<u>16:45</u>
(B) First Initial Flow Pressure	<u>74</u>		<u>53</u>		PSI	(depth)	<u>3587</u>	T-Started	<u>18:45</u>
(C) First Final Flow Pressure	<u>97</u>		<u>115</u>		PSI	Recorder No.	<u>24174</u>	T-Open	<u>20:24</u>
(D) Initial Shut-In Pressure	<u>1092</u>		<u>1143</u>		PSI	(depth)	<u>3600</u>	T-Pulled	<u>22:24</u>
(E) Second Initial Flow Pressure	<u>149</u>		<u>125</u>		PSI	Recorder No.	<u> </u>	T-Out	<u>24:00</u>
(F) Second Final Flow Pressure	<u>172</u>		<u>175</u>		PSI	(depth)	<u> </u>	T-Off Location	<u>24:45</u>
(G) Final Shut-in Pressure	<u>1062</u>		<u>1101</u>		PSI	Initial Opening	<u>30</u>	Test	<u>BOTTOM HOLE</u>
(Q) Final Hydrostatic Mud	<u>1666</u>		<u>1729</u>		PSI	Initial Shut-in	<u>30</u>	Jars	<u> </u>
						Final Flow	<u>30</u>	Safety Joint	<u> </u>
						Final Shut-in	<u>30</u>	Straddle	<u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative

TOTAL PRICE \$ 870



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Enterprise Inc.

2708 Barclay
Hays, KS 67601

ATTN: Jerry Green

Boos#5

5-14s-20w Ellis KS

Job Ticket: 13952

DST#: 4

Test Start: 2000.12.07 @ 22:45:00

GENERAL INFORMATION:

Formation: **Regan**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 00:01:56

Time Test Ended: 02:31:00

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **18**

Interval: **3848.00 ft (KB) To 3867.00 ft (KB) (TVD)**

Total Depth: **3867.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2245.00 ft (KB)**

2240.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **3289** Inside

Press@RunDepth: **1088.12 psig @ 3850.00 ft (KB)**

Start Date: **2000.12.07**

End Date:

2000.12.08

Start Time: **22:04:58**

End Time:

05:07:41

Capacity: **7000.00 psig**

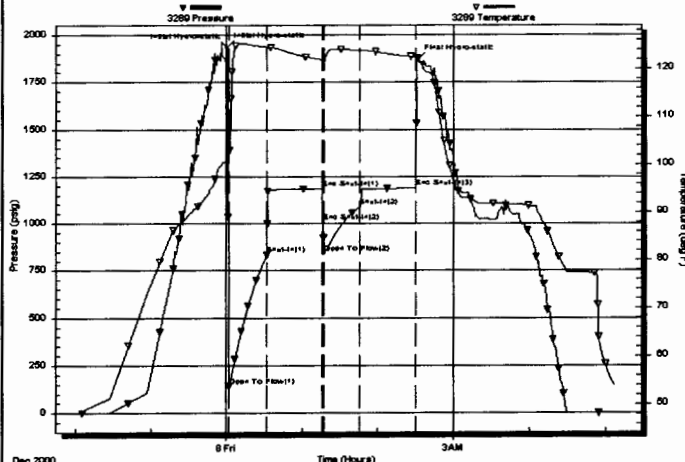
Last Calib.: **2000.12.06**

Time On Btm: **2000.12.08 @ 00:00:11**

Time Off Btm: **2000.12.08 @ 02:31:56**

TEST COMMENT: **IF Bottom in 1min**
FF Bottom in 2min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
116	1933.35	100.61	Initial Hydro-static
116	1926.66	100.96	Initial Hydro-static
117	140.91	101.58	Open To Flow (1)
147	833.18	124.41	Shut-In (1)
191	1185.82	121.70	End Shut-In (1)
192	1006.65	121.60	End Shut-In (2)
193	838.02	121.61	Open To Flow (2)
221	1088.12	123.70	Shut-In (2)
266	1186.64	122.28	End Shut-In (3)
267	1869.81	121.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2350.00	Salt Water	32.96

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Enterprise Inc.

Boos#5

2708 Barclay
Hays, KS 67601

5-14s-20w Ellis KS

Job Ticket: 13952

DST#: 4

ATTN: Jerry Green

Test Start: 2000.12.07 @ 22:45:00

Tool Information

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 bbl	Tool Weight: 2500.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
Drill Pipe Above KB:	40.02 ft			Tool Chased 0.00 ft
Depth to Top Packer:	3843.00 ft			String Weight: Initial 46000.00 lb
Depth to Bottom Packer:	ft			Final 56000.00 lb
Interval between Packers:	ft			
Tool Length:	39.00 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			3829.00	
S.I. Tool	5.00			3834.00	
HMV	5.00			3839.00	
Packer	4.00			3843.00	15.00 Bottom Of Top Packer
Packer	5.00			3848.00	
Stubb	1.00			3849.00	
Perforations	1.00			3850.00	
Recorder	0.00	3289	Inside	3850.00	
Perforations	14.00			3864.00	
Recorder	0.00	24174	Outside	3864.00	
Bullnose	3.00			3867.00	24.00 Bottom Packers & Anchor

Total Tool Length: 39.00

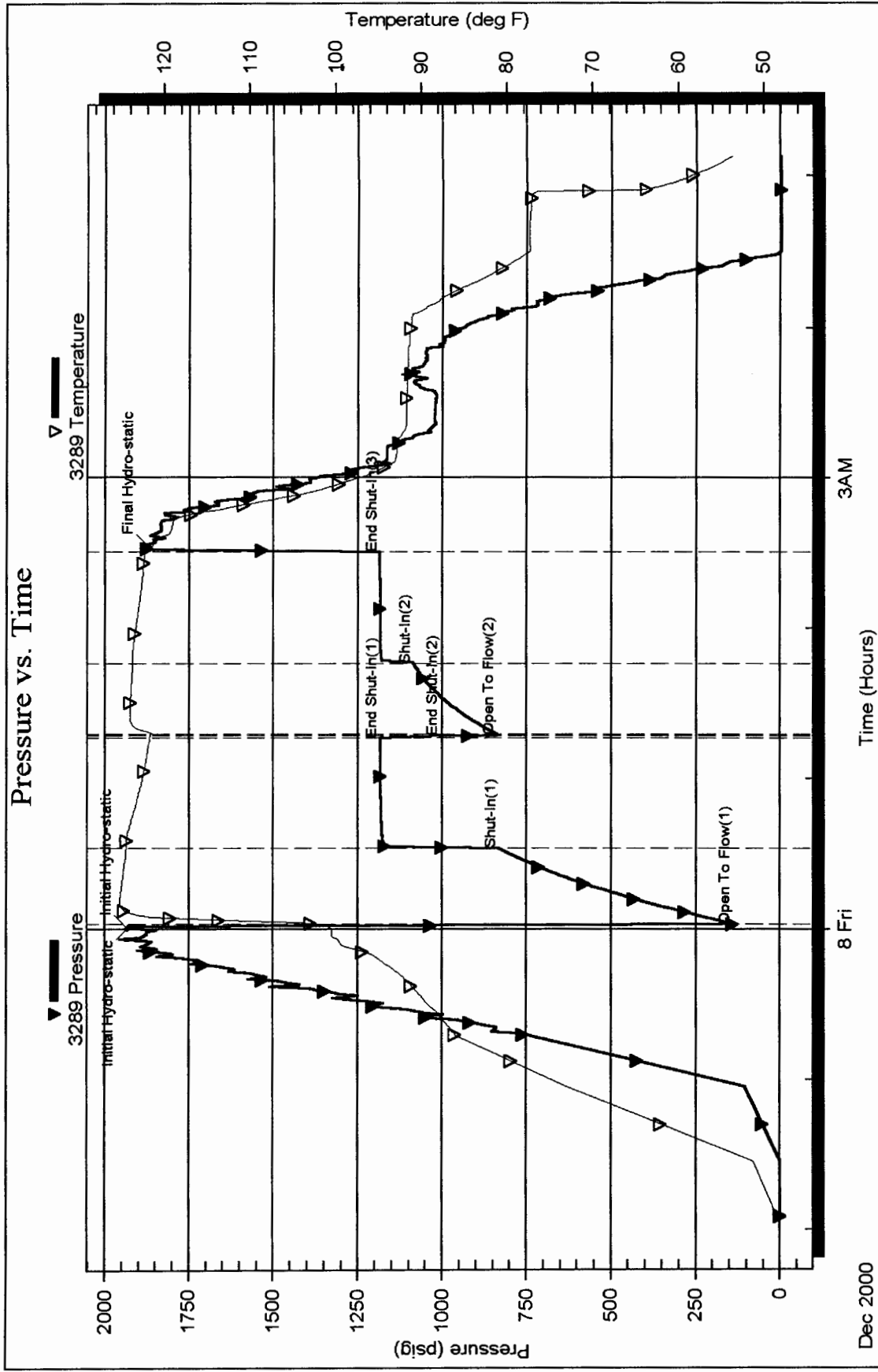
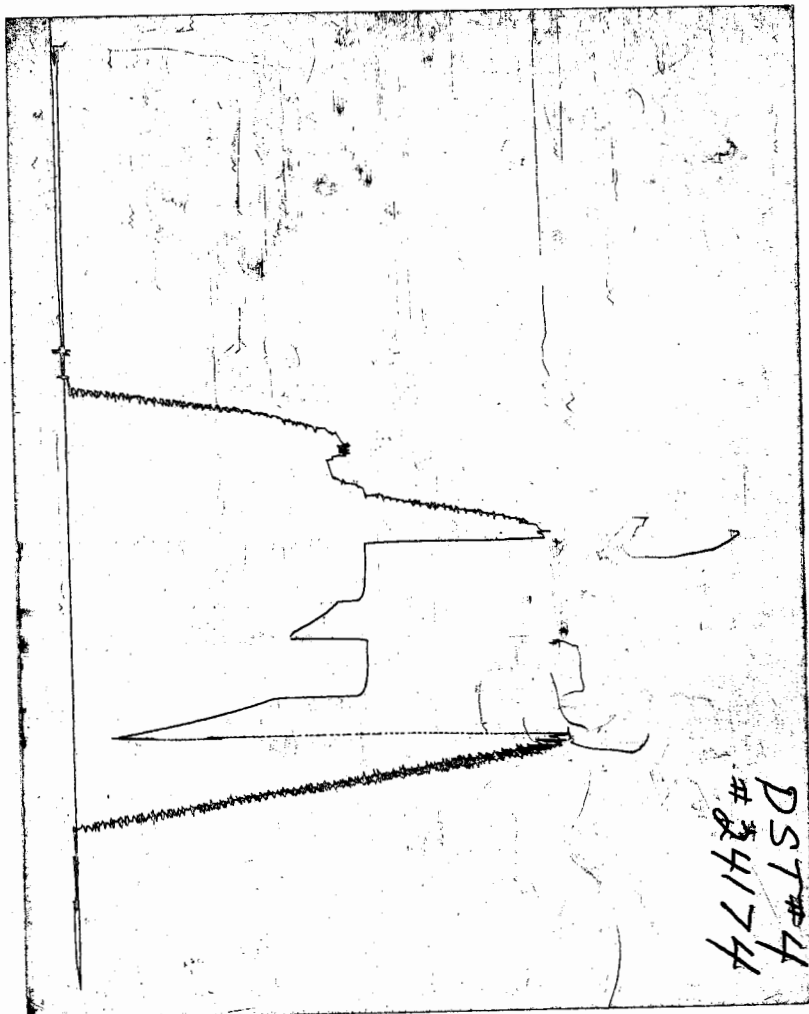


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13952

Test Ticket

Well Name & No. <u>B005 #5</u>	Test No. <u>*4</u>	Date <u>12-8-00</u>
Company <u>ENTERPRISE INC.</u>	Zone Tested <u>REGAN</u>	
Address <u>2708 BARCLAY HAYS, KS 67601</u>	Elevation <u>2245</u> KB <u>2240</u> GL	
Co. Rep / Geo. <u>JERRY GREEN</u>	Cont. <u>MURFIN #16</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>5</u>	Twp. <u>14S</u>	Rge. <u>20W</u> Co. <u>ELLIS</u> State <u>KS</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>3848 3848-3867</u>	Initial Str Wt./Lbs. <u>46,000</u>	Unseated Str Wt./Lbs. <u>56,000</u>
Anchor Length <u>19'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>58,000</u>
Top Packer Depth <u>3843</u>	Tool Weight <u>2,500</u>	
Bottom Packer Depth <u>3848</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>3867</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>8.8</u> LCM <u>1 1/2</u> Vis. <u>46</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3847</u>
Blow Description <u>IF STRONG BOTT. 1-MIN.</u>		
<u>FF. STRONG BOTT. 2-MIN.</u>		

Recovery — Total Feet <u>2350</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u> </u>
Rec. <u>2350'</u>	Feet Of <u>SALT WATER</u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>
BHT <u>122</u>	°F Gravity <u> </u>	°API D ₄₀ <u> </u>	°F Corrected Gravity <u> </u>
RW <u>1.0 @ 80</u>	°F Chlorides <u>5,400</u>	ppm Recovery <u> </u>	ppm System <u> </u>

(A) Initial Hydrostatic Mud	<u>1872</u>	<u>1933</u>	PSI	Recorder No. <u>3289</u>	T-On Location <u>21:15</u>
(B) First Initial Flow Pressure	<u>149</u>	<u>140</u>	PSI	(depth) <u>3850</u>	T-Started <u>22:45</u>
(C) First Final Flow Pressure	<u>781</u>	<u>833</u>	PSI	Recorder No. <u>24174</u>	T-Open <u>00:01</u>
(D) Initial Shut-In Pressure	<u>1153</u>	<u>1185</u>	PSI	(depth) <u>3864</u>	T-Pulled <u>02:31</u>
(E) Second Initial Flow Pressure	<u>857</u>	<u>838</u>	PSI	Recorder No. <u> </u>	T-Out <u>05:00</u>
(F) Second Final Flow Pressure	<u>1047</u>	<u>1080</u>	PSI	(depth) <u> </u>	T-Off Location <u>07:00</u>
(G) Final Shut-in Pressure	<u>1153</u>	<u>1186</u>	PSI	Initial Opening <u>30</u>	Test <u>BOTTOM HOLE</u>
(Q) Final Hydrostatic Mud	<u>1841</u>	<u>1869</u>	PSI	Initial Shut-in <u>45</u>	Jars <u> </u>
		<u>1186</u>		Final Flow <u>30</u>	Safety Joint <u> </u>
				Final Shut-in <u>45</u>	Straddle <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative

Circ. Sub ✓ 35

Sampler

Extra Packer

Elec. Rec. ✓ 150

Mileage 20

Other

TOTAL PRICE \$ 905