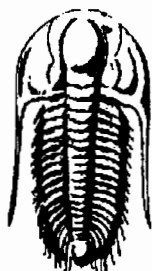


RELEASED  
FROM  
CONFIDENTIAL



**TRILOBITE**  
**TESTING, INC.**

DRILL STEM TEST REPORT

**ORIGINAL**

Prepared For: **Berexco Inc.**

P.O.Box 20380  
Wichita ks, 67208

**CONFIDENTIAL KCC**

ATTN: Marvin Harvey **FEB 25 2003**

**19-30s-18w Kiowa Ke** **CONFIDENTIAL**

**Greenleaf #3-19a**

Start Date: 2002.12.08 @ 13:38:46

End Date: 2002.12.08 @ 23:09:46

Job Ticket #: 16533 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Berexco Inc.

Greenleaf #3-19a

19-30s-18w Kiowa Ks

DST # 1

Altamont B

2002.12.08



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Berexco Inc.

**Greenleaf #3-19a**

P.O.Box 20380  
Wichita ks. 67208

**19-30s-18w Kiowa Ks**

ATTN: Marvin Harvey

Job Ticket: 16533 **DST#: 1**

Test Start: 2002.12.08 @ 13:38:46

**GENERAL INFORMATION:**

Formation: **Altamont B**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 15:55:16  
Time Test Ended: 23:09:46

**KCC**  
**FEB 25 2003**  
**CONFIDENTIAL**

Test Type: Conventional Bottom Hole  
Tester: Gary Pevoteaux  
Unit No: 23

Interval: **4855.00 ft (KB) To 4887.00 ft (KB) (TVD)**  
Total Depth: 4887.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2192.00 ft (KB)  
2179.00 ft (CF)  
KB to GR/CF: 13.00 ft

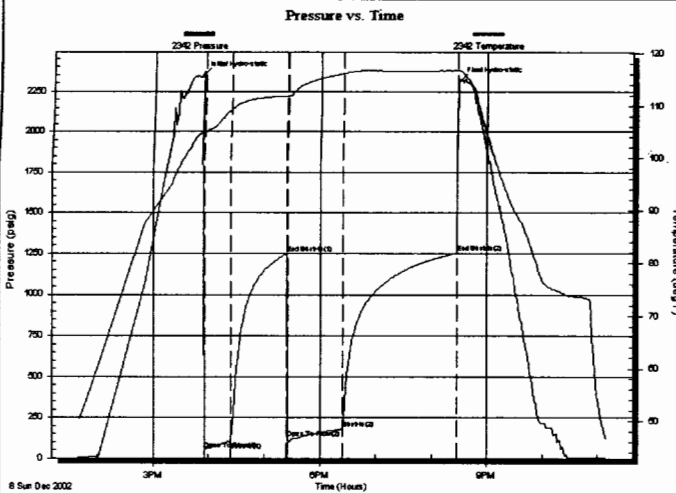
**Serial #: 2342**

**Inside**

Press@RunDepth: 178.67 psig @ 4856.00 ft (KB)  
Start Date: 2002.12.08 End Date: 2002.12.08  
Start Time: 13:38:47 End Time: 23:09:46

Capacity: 7000.00 psig  
Last Calib.: 2002.12.08  
Time On Btm: 2002.12.08 @ 15:52:46  
Time Off Btm: 2002.12.08 @ 20:29:31

**TEST COMMENT:** F:Strong blow . B.O.B. in 20 secs. GTS in 28 mins.  
IS:Weak blow . 1/2"  
FF:Strong blow . (see gas volume report)  
FS:Fair to strong blow . B.O.B.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.96	104.74	Initial Hydro-static
3	51.86	104.87	Open To Flow (1)
32	97.10	109.27	Shut-In(1)
92	1249.84	111.90	End Shut-In(1)
93	122.36	111.86	Open To Flow (2)
152	178.67	116.08	Shut-In(2)
275	1253.54	116.65	End Shut-In(2)
277	2313.46	116.63	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
180.00	Salt water with iol specs	0.89
0.00	Rw .18 ohms @ 39 deg.F.	0.00
180.00	GOCM 35%g 28%o 37%m	0.89
65.00	Clean gassy oil 25%g 75%o	0.91

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	1.00	24.43
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	1.00	24.43



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Berexco Inc.

**Greenleaf #3-19a**

P.O.Box 20380  
Wichita ks. 67208

**19-30s-18w Kiowa Ks**

Job Ticket: 16533

**DST#: 1**

ATTN: Marvin Harvey

Test Start: 2002.12.08 @ 13:38:46

**Tool Information**

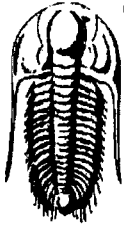
Drill Pipe:	Length: 4501.00 ft	Diameter: 3.80 inches	Volume: 63.14 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.91 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4855.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**KCC**  
**FEB 25 2003**  
**CONFIDENTIAL**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4829.00	
S.I. Tool	5.00			4834.00	
HMV	5.00			4839.00	
Jars	5.00			4844.00	
Safety Joint	2.00			4846.00	
Packer	4.00			4850.00	27.00 Bottom Of Top Packer
Packer	5.00			4855.00	
Stubb	1.00			4856.00	
Recorder	0.00	2342	Inside	4856.00	
Perforations	26.00			4882.00	
Recorder	0.00	13222	Outside	4882.00	
Bullnose	5.00			4887.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**

77894



**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

### FLUID SUMMARY

Berexco Inc.

**Greenleaf #3-19a**

P.O.Box 20380  
Wichita ks. 67208

**19-30s-18w Kiowa Ks**

Job Ticket: 16533

**DST#: 1**

ATTN: Marvin Harvey

Test Start: 2002.12.08 @ 13:38:46

#### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 74000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 0.20 inches		

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Salt water with iol specs	0.885
0.00	Rw .18 ohms @ 39 deg.F.	0.000
180.00	GOCM 35%g 28%o 37%m	0.885
65.00	Clean gassy oil 25%g 75%o	0.912

Total Length: 425.00 ft      Total Volume: 2.682 bbl

Num Fluid Samples: 0      Num Gas Bombs: 1      Serial #: gp-1

Laboratory Name: Caraway      Laboratory Location: Liberal KS

Recovery Comments: LCM 5#/bl.



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Berexco Inc.

**Greenleaf #3-19a**

P.O.Box 20380  
Wichita ks. 67208

**19-30s-18w Kiowa Ks**

Job Ticket: 16533

**DST#: 1**

ATTN: Marvin Harvey

Test Start: 2002.12.08 @ 13:38:46

### Gas Rates Information

Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	10	0.25	1.00	24.43
2	20	0.25	1.00	24.43
2	30	0.25	1.00	24.43
2	40	0.25	1.00	24.43
2	50	0.25	1.00	24.43
2	60	0.25	1.00	24.43

Serial #: 2342

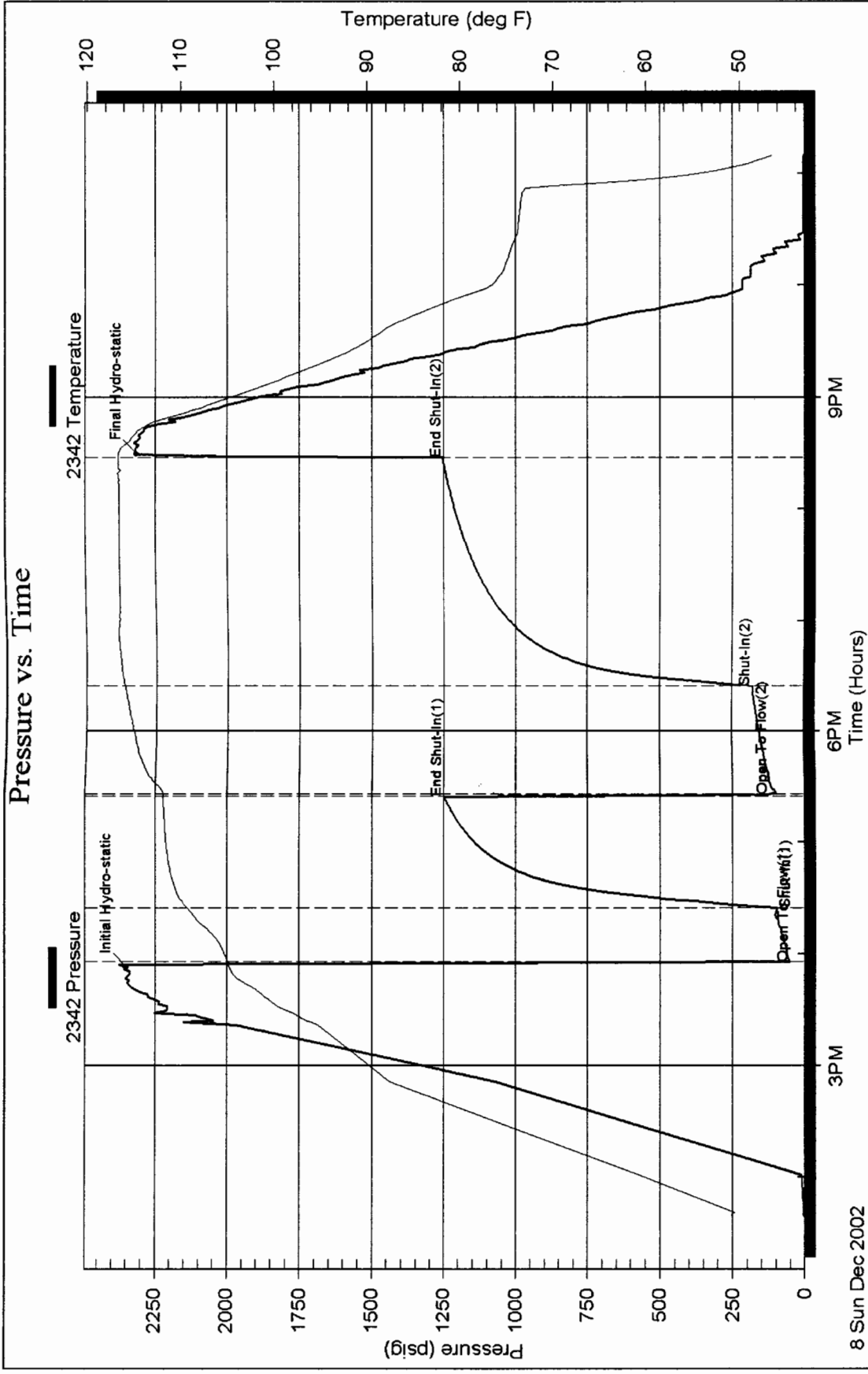
Inside

Berexco Inc.

19-30s-18w Klow a Ks

DST Test Number: 1

# Pressure vs. Time



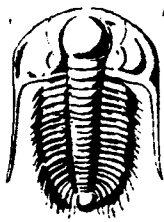
8 Sun Dec 2002

Trilobite Testing, Inc

Ref. No: 16533

Printed: 2002.12.12 @ 13:41:40 Page 6

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

TW # 5288

No 16533

## Test Ticket

Well Name & No. Greenleaf # 3-19A Test No. 1 Date 12-8-2002  
 Company Berexo Inc. Zone Tested Altamont B.  
 Address P.O. Box 20380, Wichita, KS 67208 Elevation 2192 KB 2179 GL  
 Co. Rep / Geo. Marvin Harvey Cont. Duke Daly #7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 19 Twp. 30S Rge. 18W Co. Kiowa State KS  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4855 - 4887' Initial Str Wt./Lbs. 72,000 Unseated Str Wt./Lbs. 74,000  
 Anchor Length 32' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth 4850' Tool Weight 24,000  
 Bottom Packer Depth 4855' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 4887' Wt. Pipe Run None Drill Collar Run 360'

Mud Wt. 9.0 LCM 5# Vis. 50 WL 2.8 cc. Drill Pipe Size 4 1/2" x 4 Ft. Run 4501'  
 Blow Description IF: Strong below B.O.B. in 20 sec. GTS in 28 mins.  
ISI: Weak below 4 1/2"  
FF: Strong below (see gas volume report) FSI: Fair to strong below B.O.B.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>425</u>	<u>yes</u>	<u>360</u>	<u>65</u>
Rec. <u>65</u> Feet Of <u>Chem gassy Oil</u>	<u>25 %gas</u>	<u>75 %oil</u>	<u>%water %mud</u>
Rec. <u>180</u> Feet Of <u>GOCM</u>	<u>35 %gas</u>	<u>28 %oil</u>	<u>%water 37 %mud</u>
Rec. <u>180</u> Feet Of <u>Salt Water @ oil spec</u>	<u>%gas</u>	<u>%oil</u>	<u>%water %mud</u>
Rec. <u>    </u> Feet Of <u>    </u>	<u>%gas</u>	<u>%oil</u>	<u>%water %mud</u>
Rec. <u>    </u> Feet Of <u>    </u>	<u>%gas</u>	<u>%oil</u>	<u>%water %mud</u>
BHT <u>117</u> °F Gravity <u>41</u> °API D@ <u>42</u> °F Corrected Gravity <u>39</u> °API			
RW <u>.18</u> @ <u>39</u> °F Chlorides <u>74,000</u> ppm Recovery Chlorides <u>6,000</u> ppm System			

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2348</u>		<u>2342</u>	<u>1248</u>
(B) First Initial Flow Pressure		<u>52</u>		(depth) <u>4856'</u>	T-Started <u>1338</u>
(C) First Final Flow Pressure		<u>97</u>		Recorder No. <u>13222</u>	T-Open <u>1555</u>
(D) Initial Shut-In Pressure		<u>1250</u>		(depth) <u>4882'</u>	T-Pulled <u>2026</u>
(E) Second Initial Flow Pressure		<u>122</u>		Recorder No. <u>    </u>	T-Out <u>2309</u>
(F) Second Final Flow Pressure		<u>179</u>		(depth) <u>    </u>	T-Off Location <u>0005</u>
(G) Final Shut-in Pressure		<u>1254</u>		PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800</u> <sup>00800</sup>
(Q) Final Hydrostatic Mud		<u>2313</u>		PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u> <sup>00200</sup>
				Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u> <sup>0050</sup>
				Final Shut-in <u>60</u>	Straddle <u>    </u>
				<u>4</u>	Circ. Sub <u>    </u>
				<u>4</u>	Sampler <u>    </u>
					Extra Packer <u>    </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u> <sup>0050</sup>
					Mileage <input checked="" type="checkbox"/> <u>50</u> <sup>0050</sup>
					Other <u>    </u> <sup>\$1250</sup>
					TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>1250</u> <sup>00</sup>

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Approved By Marvin Harvey  
 Our Representative Gary Twotary



# CHART PAGE

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

