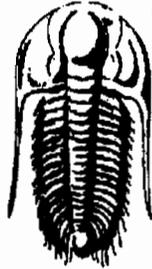


15-187-20971



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Wabash Production**

P O Box 898  
Fairfield IL 62837

ATTN: Bob Kinney

**33-28S-40W Stanton K**

**Western Feedyard #2-1433**

Start Date: 2001.09.21 @ 07:40:23

End Date: 2001.09.21 @ 17:59:38

Job Ticket #: 15525 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2001.09.26 @ 09:35:55 Page 1

Wabash Production

Western Feedyard #2-1433

33-28S-40W Stanton K

DS1 # 1

Basil Morrow

2001.09.21



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Wabash Production  
P O Box 898  
Fairfield IL 62837  
ATTN: Bob Kinney

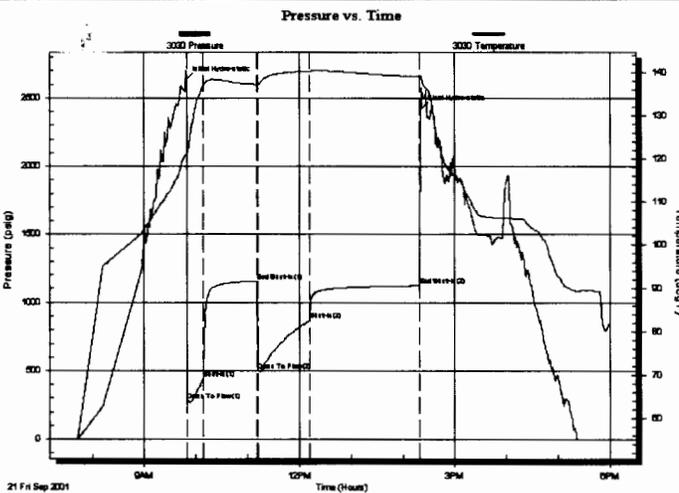
**Western Feedyard #2-1433**  
**33-28S-40W Stanton K**  
Job Ticket: 15525      **DST#: 1**  
Test Start: 2001.09.21 @ 07:40:23

## GENERAL INFORMATION:

Formation: **Basil Morrow**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 09:50:23  
Time Test Ended: 17:59:38  
Interval: **5419.00 ft (KB) To 5447.00 ft (KB) (TVD)**  
Total Depth: **5447.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Rod Steinbrink  
Unit No: 22  
Reference Elevations: 3297.00 ft (KB)  
3285.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 3030      Inside**  
Press@RunDepth: 868.20 psig @ 5420.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2001.09.21      End Date: 2001.09.21      Last Calib.: 2001.01.24  
Start Time: 07:40:28      End Time: 17:59:38      Time On Btm: 2001.09.21 @ 09:49:23  
Time Off Btm: 2001.09.21 @ 14:20:53

**TEST COMMENT:** IF; Strong off btm in 1 min  
IS; b o b -fair to strong off btm in 4 mins GTS in 5 mins  
FF; Strong off btm in immed. T S T M  
FS; b o b -fair to strong off btm in 5 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2635.95	120.97	Initial Hydro-static
1	282.14	121.25	Open To Flow (1)
20	446.71	136.79	Shut-In(1)
82	1154.73	137.14	End Shut-In(1)
84	497.16	137.12	Open To Flow (2)
143	868.20	140.23	Shut-In(2)
270	1122.07	139.02	End Shut-In(2)
272	2420.13	138.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3160.00	Clean Gassy Oil 50%gas 50%oil	38.31

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Wabash Production

**Western Feedyard #2-1433**

P O Box 898  
Fairfield IL 62837

**33-28S-40W Stanton K**

Job Ticket: 15525      **DST#: 1**

ATTN: Bob Kinney

Test Start: 2001.09.21 @ 07:40:23

## Tool Information

Drill Pipe:	Length: 4747.00 ft	Diameter: 3.80 inches	Volume: 66.59 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 660.00 ft	Diameter: 2.25 inches	Volume: 3.25 bbl	Weight to Pull Loose: 140000.0 lb
			<u>Total Volume: 69.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 98000.00 lb
Depth to Top Packer:	5419.00 ft			Final 108000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			5397.00	
HMV	5.00			5402.00	
Jars	5.00			5407.00	
Safety Joint	2.00			5409.00	
Packer	5.00			5414.00	27.00 Bottom Of Top Packer
Packer	5.00			5419.00	
Stubb	1.00			5420.00	
Recorder	0.00	3030	Inside	5420.00	
Perforations	22.00			5442.00	
Recorder	0.00		Outside	5442.00	
Bullnose	5.00			5447.00	28.00 Bottom Packers & Anchor

**Total Tool Length: 55.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Wabash Production

**Western Feedyard #2-1433**

P O Box 898  
Fairfield IL 62837

**33-28S-40W Stanton K**

Job Ticket: 15525      **DST#: 1**

ATTN: Bob Kinney

Test Start: 2001.09.21 @ 07:40:23

## Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3160.00	Clean Gassy Oil 50%gas 50%oil	38.314

Total Length: 3160.00 ft      Total Volume: 38.314 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

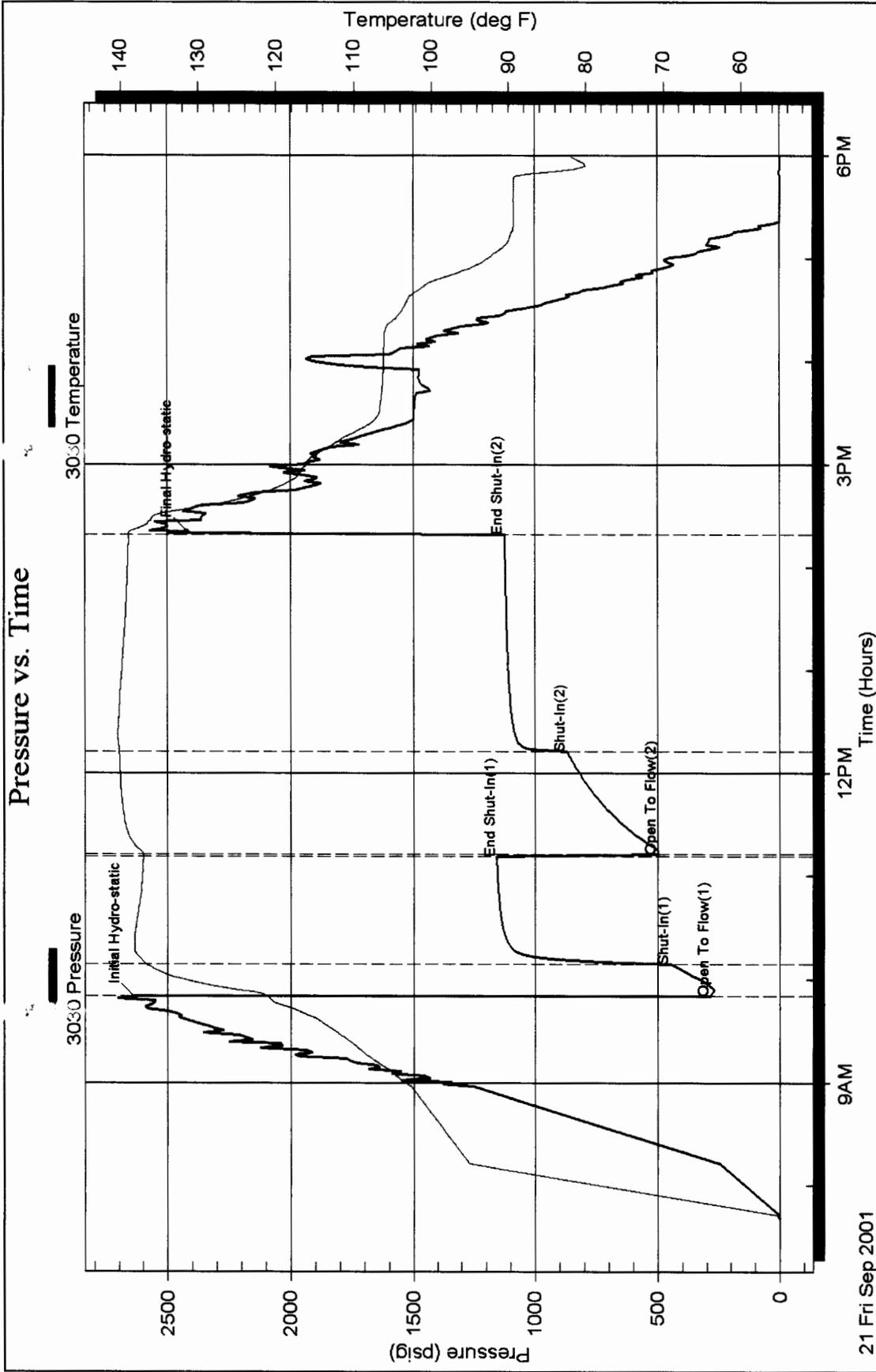
Serial #: 3030

Inside

Wabash Production

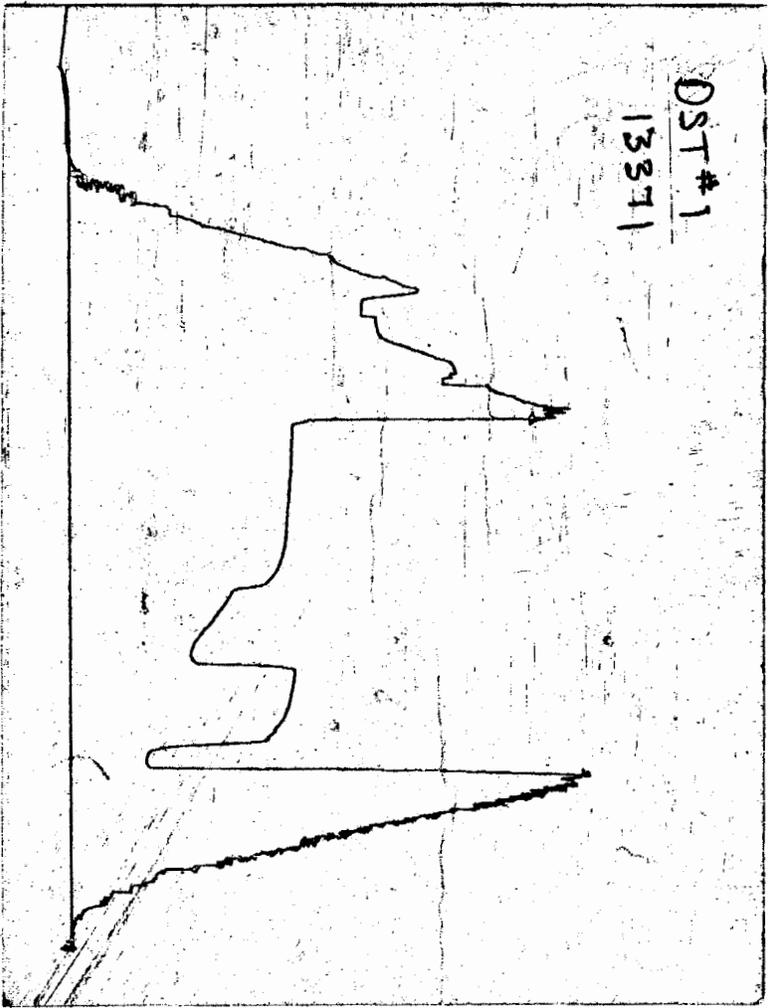
33-28S-40W Stanton K

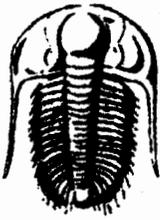
DST Test Number: 1



# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15525

## Test Ticket

Well Name & No. Western Feedyard 2-1433 Test No. 1 Date 9-21-01  
 Company Wabash Production Zone Tested Basil Morrow  
 Address P.O. Box 898 Fairfield IL 62837 Elevation 3297 KB 3285 GL  
 Co. Rep / Geo. Bob Kinney Cont. Cheyenne #5 Est. Ft. of Pay      Por.      %  
 Location: Sec. 33 Twp. 28<sup>s</sup> Rge. 40<sup>w</sup> Co. Stanton State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5419 - 5447 Initial Str Wt/Lbs. 98,000 Unseated Str Wt/Lbs. 108,000  
 Anchor Length 28' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 140,000  
 Top Packer Depth 5414 Tool Weight 1,800  
 Bottom Packer Depth 5419 Hole Size — 7 7/8"      Rubber Size — 6 3/4"       
 Total Depth 5447 Wt. Pipe Run      Drill Collar Run 660'  
 Mud Wt. 9.1 LCM 5\* Vis. 64 WL 6.4 Drill Pipe Size 4 1/2" XH Ft. Run 4747'

Blow Description IF: Strong blow off bitm in 1 min  
ISI: b o b - fair to strong off bitm 4 mins (GTS 5 mi)  
FF: Strong blow off bitm immediately TSTM  
ESI: b o b - fair to strong off bitm 5 mins.

Recovery — Total Feet 3160' GIP GTS Ft. in DC 660 Ft. in DP 2500'  
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 Rec.      Feet Of      %gas      %oil      %water      %mud       
 Rec. 3160' Feet Of Clean Gassy D/I 50%gas 50%oil %water \$ %mud       
 Rec.      Feet Of Reversed Out %gas      %oil      %water      %mud       
 Rec.      Feet Of 38.3 bbl. %gas      %oil      %water      %mud       
 BHT 139° °F Gravity 40 °API @ 90° °F Corrected Gravity 37 °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 500 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2635</u>	<u>3030</u>	<u>3030</u>	<u>0600</u>
(B) First Initial Flow Pressure	<u>282</u>	<u>5420</u>	<u>    </u>	<u>0740</u>
(C) First Final Flow Pressure	<u>446</u>	<u>13371</u>	<u>13371</u>	<u>0950</u>
(D) Initial Shut-In Pressure	<u>1154</u>	<u>5442</u>	<u>    </u>	<u>1419</u>
(E) Second Initial Flow Pressure	<u>497</u>	<u>    </u>	<u>    </u>	<u>1759</u>
(F) Second Final Flow Pressure	<u>868</u>	<u>    </u>	<u>    </u>	<u>1900</u>
(G) Final Shut-in Pressure	<u>1122</u>	<u>15</u>	<u>    </u>	<u>900</u>
(Q) Final Hydrostatic Mud	<u>2420</u>	<u>60</u>	<u>    </u>	<u>200</u>
		<u>60</u>	<u>    </u>	<u>50</u>
		<u>120</u>	<u>    </u>	<u>35.00</u>

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Approved By       
 Our Representative Rod Steinbrink

Shade      Extra-Packer X 150  
 Elec. Rec. X 150  
 Mileage 102 46  
 Other 2 hrs 60  
 TOTAL PRICE 1591

11.59