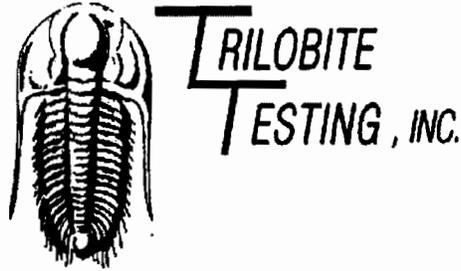


15-033-21338

8-31s-18w



DRILL STEM TEST REPORT

Prepared For: **White & Ellis Drilling, Inc.**

P.O.Box 48848
Wichita, Ks. 67201-8848

ATTN: Tim Hellman

8-31S--18W

#2-8 Thompson

Start Date: 2002.11.28 @ 14:19:59

End Date: 2002.11.29 @ 02:59:14

Job Ticket #: 16344 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

White & Ellis Drilling, Inc.

#2-8 Thompson

8-31S--18W

DST # 1

Altamont

2002.11.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

White & Ellis Drilling, Inc.

#2-8 Thompson

P.O.Box 48848
Wichita, Ks. 67201-8848

8-31S-18W

Job Ticket: 16344

DST#: 1

ATTN: Tim Hellman

Test Start: 2002.11.28 @ 14:19:59

GENERAL INFORMATION:

Formation: **Altamont**

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

Time Tool Opened: 17:35:29

Time Test Ended: 02:59:14

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **4928.00 ft (KB) To 4950.00 ft (KB) (TVD)**

Reference Elevations: **2179.00 ft (KB)**

Total Depth: **4950.00 ft (KB) (TVD)**

2174.00 ft (CF)

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

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

Serial #: 3302

Inside

Press@RunDepth: **108.11 psig @ 4929.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.11.28**

End Date: **2002.11.29**

Last Calib.: **2002.11.29**

Start Time: **14:20:01**

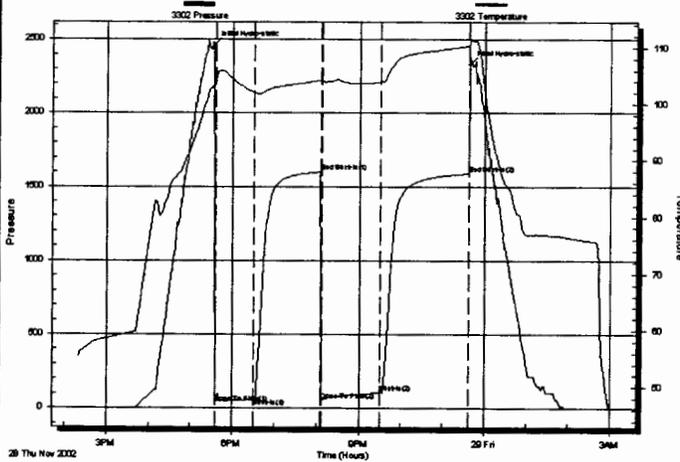
End Time: **02:59:14**

Time On Btm: **2002.11.28 @ 17:33:14**

Time Off Btm: **2002.11.28 @ 23:38:44**

TEST COMMENT: F:Fair blow b.o.b in 2 mins.GTS in 40 mins.gauge gas.
 S: Bled down n for 15 mins.no blow back.
 FF: Strong blow b.o.b in 30 sec.Gauge gas.
 FS: Bled down n for

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2464.34	103.37	Initial Hydro-static
3	34.33	104.21	Open To Flow (1)
58	63.37	102.10	Shut-In(1)
153	1599.74	104.34	End Shut-In(1)
154	51.39	104.34	Open To Flow (2)
237	108.11	103.95	Shut-In(2)
365	1588.02	110.35	End Shut-In(2)
366	2330.63	110.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4519.00	01 - Gas	60.91
200.00	50 - Oil	2.81
200.00	52 - Mud and Gas cut Oil	2.81

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White & Ellis Drilling, Inc.
P.O.Box 48848
Wichita, Ks. 67201-8848
ATTN: Tim Hellman

#2-8 Thompson
8-31S-18W
Job Ticket: 16344 **DST#: 1**
Test Start: 2002.11.28 @ 14:19:59

Tool Information

Drill Pipe:	Length: 4648.00 ft	Diameter: 3.80 inches	Volume: 65.20 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: 272.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 66.54 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4928.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

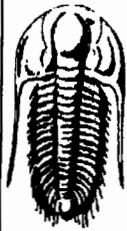
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4906.00	
S.I. Tool	5.00			4911.00	
HMV	5.00			4916.00	
Safety Joint	2.00			4918.00	
Packer	5.00			4923.00	23.00 Bottom Of Top Packer
Packer	5.00			4928.00	
Stubb	1.00			4929.00	
Recorder	0.00	3302	Inside	4929.00	
Anchor	18.00			4947.00	
Recorder	0.00	10991	Outside	4947.00	
Bullnose	3.00			4950.00	22.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

White & Ellis Drilling, Inc.

#2-8 Thompson

P.O. Box 48848
Wichita, Ks. 67201-8848

8-31S-18W

Job Ticket: 16344

DST#: 1

ATTN: Tim Hellman

Test Start: 2002.11.28 @ 14:19:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.96 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4519.00	01 - Gas	60.912
200.00	50 - Oil	2.805
200.00	52 - Mud and Gas cut Oil	2.805

Total Length: 4919.00 ft Total Volume: 66.522 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

White & Ellis Drilling, Inc.

#2-8 Thompson

P.O.Box 48848
Wichita, Ks. 67201-8848

8-31S-18W

Job Ticket: 16344

DST#: 1

ATTN: Tim Hellman

Test Start: 2002.11.28 @ 14:19:59

Gas Rates Information

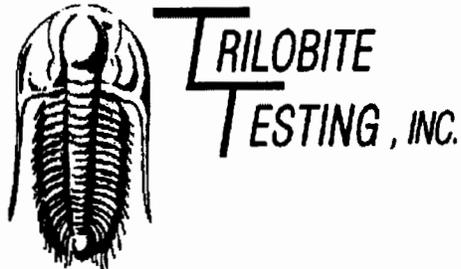
Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
		0.00	0.00	0.00



DRILL STEM TEST REPORT

Prepared For: **White & Ellis Drilling, Inc.**

P.O.Box 48848
Wichita, Ks. 67201-8848

ATTN: Tim Hellman

8-31S-18W

#2-8 Thompson

Start Date: 2002.11.29 @ 13:23:52

End Date: 2002.11.29 @ 22:15:37

Job Ticket #: 16345 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

White & Ellis Drilling, Inc.

#2-8 Thompson

P.O.Box 48848
Wichita, Ks. 67201-8848

8-31S-18W

Job Ticket: 16345

DST#: 2

ATTN: Tim Hellman

Test Start: 2002.11.29 @ 13:23:52

GENERAL INFORMATION:

Formation: **Pawnee**

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

Time Tool Opened: 16:02:22

Time Test Ended: 22:15:37

Test Type: **Conventional Bottom Hole**

Tester: **Darren L. Amerine**

Unit No: **19**

Interval: **4960.00 ft (KB) To 5000.00 ft (KB) (TVD)**

Reference Elevations: **2179.00 ft (KB)**

Total Depth: **5000.00 ft (KB) (TVD)**

2174.00 ft (CF)

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

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

Serial #: 3302

Inside

Press@RunDepth: **55.34 psig @ 4965.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.11.29**

End Date: **2002.11.29**

Last Calib.: **2002.11.29**

Start Time: **13:23:54**

End Time: **22:15:37**

Time On Btm: **2002.11.29 @ 16:00:37**

Time Off Btm: **2002.11.29 @ 19:37:22**

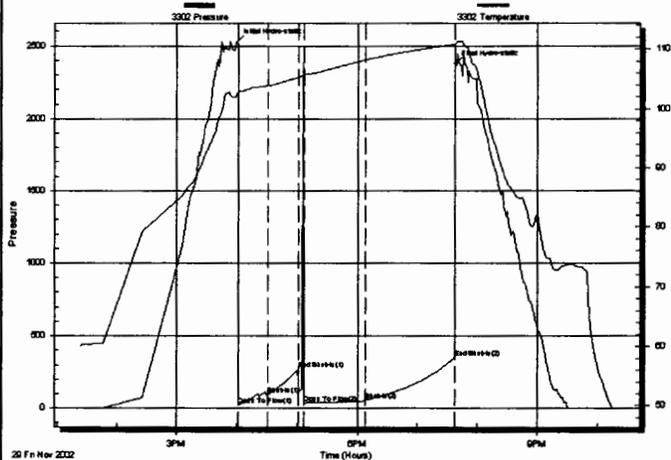
TEST COMMENT: F:Weak blow built to 1/4" in H2O slowly died in 22 mins.

IS:No blow back.

FF:No blow flush tool built back to 2" in H2O bucket.

FSt:Bled down n for 5 mins.no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2522.43	102.43	Initial Hydro-static
2	24.22	102.92	Open To Flow (1)
31	95.99	103.90	Shut-In(1)
61	269.13	105.29	End Shut-In(1)
67	35.77	105.88	Open To Flow (2)
128	55.34	108.19	Shut-In(2)
217	352.58	110.82	End Shut-In(2)
217	2375.15	110.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gas cut mud	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White & Ellis Drilling, Inc.
P.O.Box 48848
Wichita, Ks. 67201-8848
ATTN: Tim Hellman

#2-8 Thompson
8-31S-18W
Job Ticket: 16345 **DST#: 2**
Test Start: 2002.11.29 @ 13:23:52

Tool Information

Drill Pipe:	Length: 4679.00 ft	Diameter: 3.80 inches	Volume: 65.63 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: 272.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 66.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4960.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

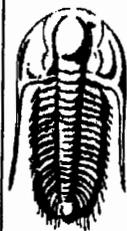
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4938.00	
S.I. Tool	5.00			4943.00	
HMV	5.00			4948.00	
Safety Joint	2.00			4950.00	
Packer	5.00			4955.00	23.00 Bottom Of Top Packer
Packer	5.00			4960.00	
Stubb	1.00			4961.00	
Anchor	4.00			4965.00	
Recorder	0.00	3302	Inside	4965.00	
Anchor	32.00			4997.00	
Recorder	0.00	10991	Outside	4997.00	
Bullnose	3.00			5000.00	40.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

White & Ellis Drilling, Inc.

#2-8 Thompson

P.O.Box 48848
Wichita, Ks. 67201-8848

8-31S-18W

Job Ticket: 16345

DST#: 2

ATTN: Tim Hellman

Test Start: 2002.11.29 @ 13:23:52

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: 10.77 in³

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gas cut mud	0.295

Total Length: -999939.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3302

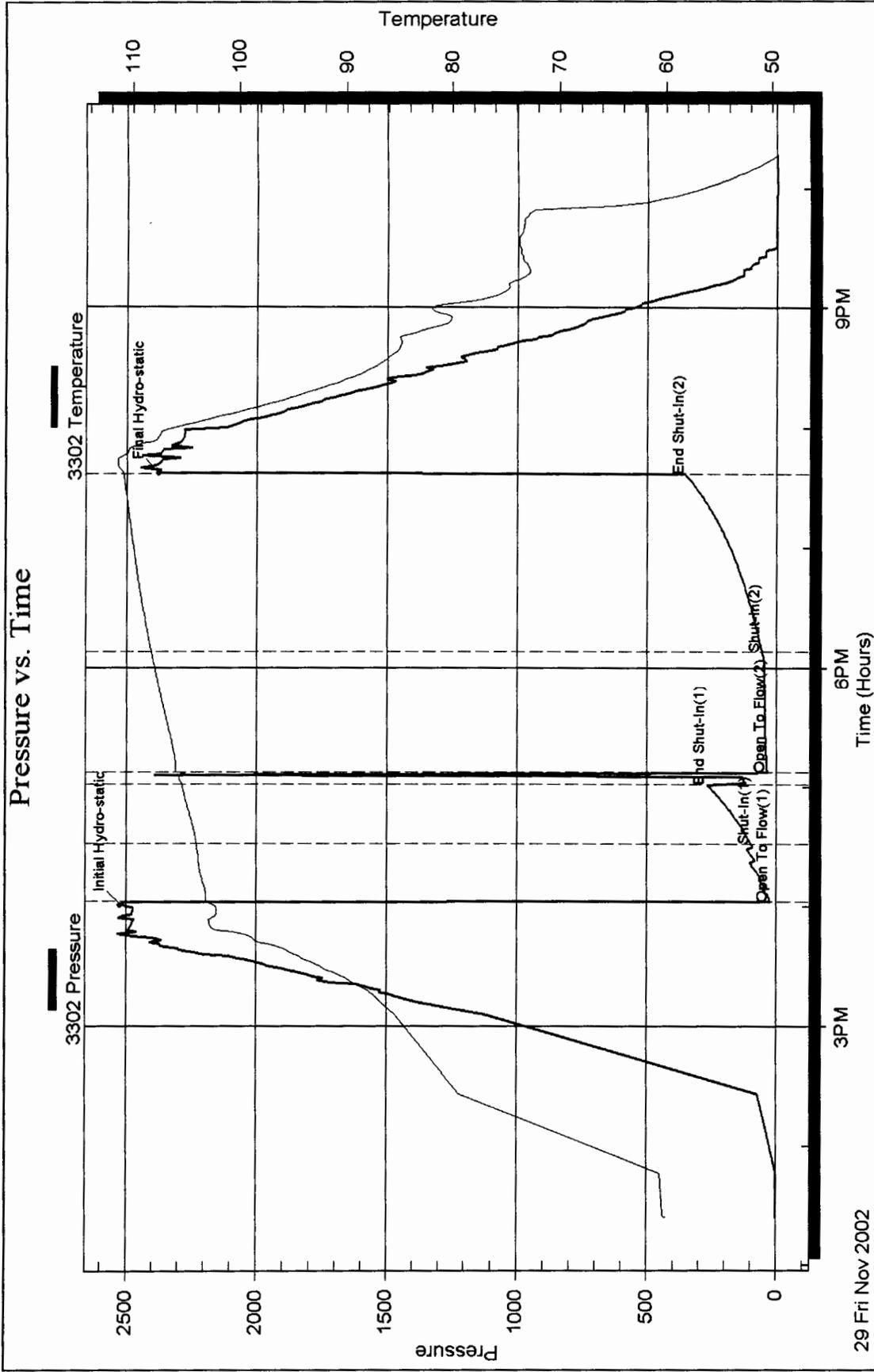
Inside

White & Ellis Drilling, Inc.

8-31S-18W

DST Test Number: 2

Pressure vs. Time



29 Fri Nov 2002



DRILL STEM TEST REPORT

Prepared For: **White & Ellis Drilling, Inc.**

P.O.Box 48848
Wichita, Ks. 67201-8848

ATTN: Tim Hellman

8-31S-18W

#2-8 Thompson

Start Date: 2002.11.30 @ 11:40:07

End Date: 2002.11.30 @ 18:11:50

Job Ticket #: 16346 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

White & Ellis Drilling, Inc.

#2-8 Thompson

8-31S-18W

DST # 3

Mississippian

2002.11.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

White & Ellis Drilling, Inc.
P.O.Box 48848
Wichita, Ks. 67201-8848
ATTN: Tim Hellman

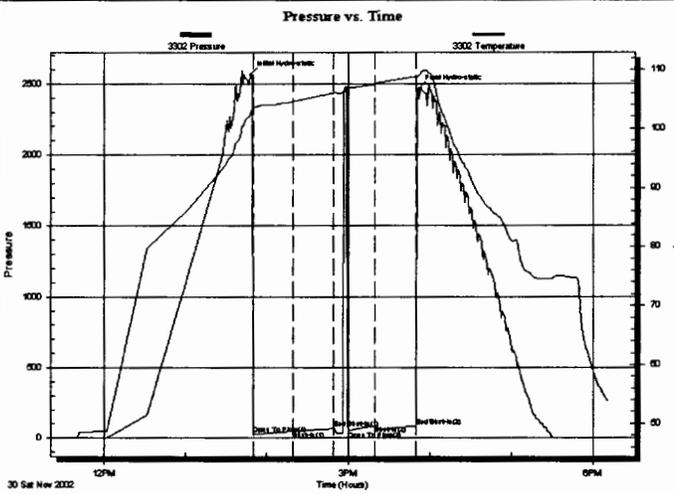
#2-8 Thompson
8-31S--18W
Job Ticket: 16346 **DST#: 3**
Test Start: 2002.11.30 @ 11:40:07

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 13:49:50
Time Test Ended: 18:11:50
Interval: **5066.00 ft (KB) To 5100.00 ft (KB) (TVD)**
Total Depth: **5100.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Test Type: **Conventional Bottom Hole**
Tester: **Darren L. Amerine**
Unit No: **19**
Reference Elevations: **2179.00 ft (KB)**
2174.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 3302 Inside
Press@RunDepth: **87.36 psig @ 5071.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2002.11.30** End Date: **2002.11.30** Last Calib.: **2002.11.30**
Start Time: **11:40:07** End Time: **18:11:50** Time On Btm: **2002.11.30 @ 13:48:05**
Time Off Btm: **2002.11.30 @ 15:51:50**

TEST COMMENT: F:Weak Blow built to 1/2" in H2O bucket slowly died in 23 mins.
IS:No blow back.
FF:No blow flush tool no blow.
FS:No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2565.85	102.66	Initial Hydro-static
2	27.64	103.26	Open To Flow (1)
31	49.57	104.58	Shut-In(1)
61	67.92	106.02	End Shut-In(1)
72	48.69	106.82	Open To Flow (2)
91	87.36	107.52	Shut-In(2)
122	86.04	108.79	End Shut-In(2)
124	2464.24	108.96	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	Gas cut mud	0.05

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White & Ellis Drilling, Inc.
P.O.Box 48848
Wichita, Ks. 67201-8848
ATTN: Tim Hellman

#2-8 Thompson
8-31S--18W
Job Ticket: 16346 **DST#: 3**
Test Start: 2002.11.30 @ 11:40:07

Tool Information

Drill Pipe:	Length: 4771.00 ft	Diameter: 3.80 inches	Volume: 66.92 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: 272.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 68.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	5066.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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			5039.00	
S.I. Tool	5.00			5044.00	
HMV	5.00			5049.00	
Jars	5.00			5054.00	
Safety Joint	2.00			5056.00	
Packer	5.00			5061.00	28.00 Bottom Of Top Packer
Packer	5.00			5066.00	
Stubb	1.00			5067.00	
Anchor	4.00			5071.00	
Recorder	0.00	3302	Inside	5071.00	
Anchor	26.00			5097.00	
Recorder	0.00	10991	Outside	5097.00	
Bullnose	3.00			5100.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White & Ellis Drilling, Inc.

#2-8 Thompson

P.O.Box 48848
Wichita, Ks. 67201-8848

8-31S-18W

Job Ticket: 16346

DST#: 3

ATTN: Tim Hellman

Test Start: 2002.11.30 @ 11:40:07

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.38 in³

Gas Cushion Type:

Resistivity: 0.80 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Gas cut mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3302

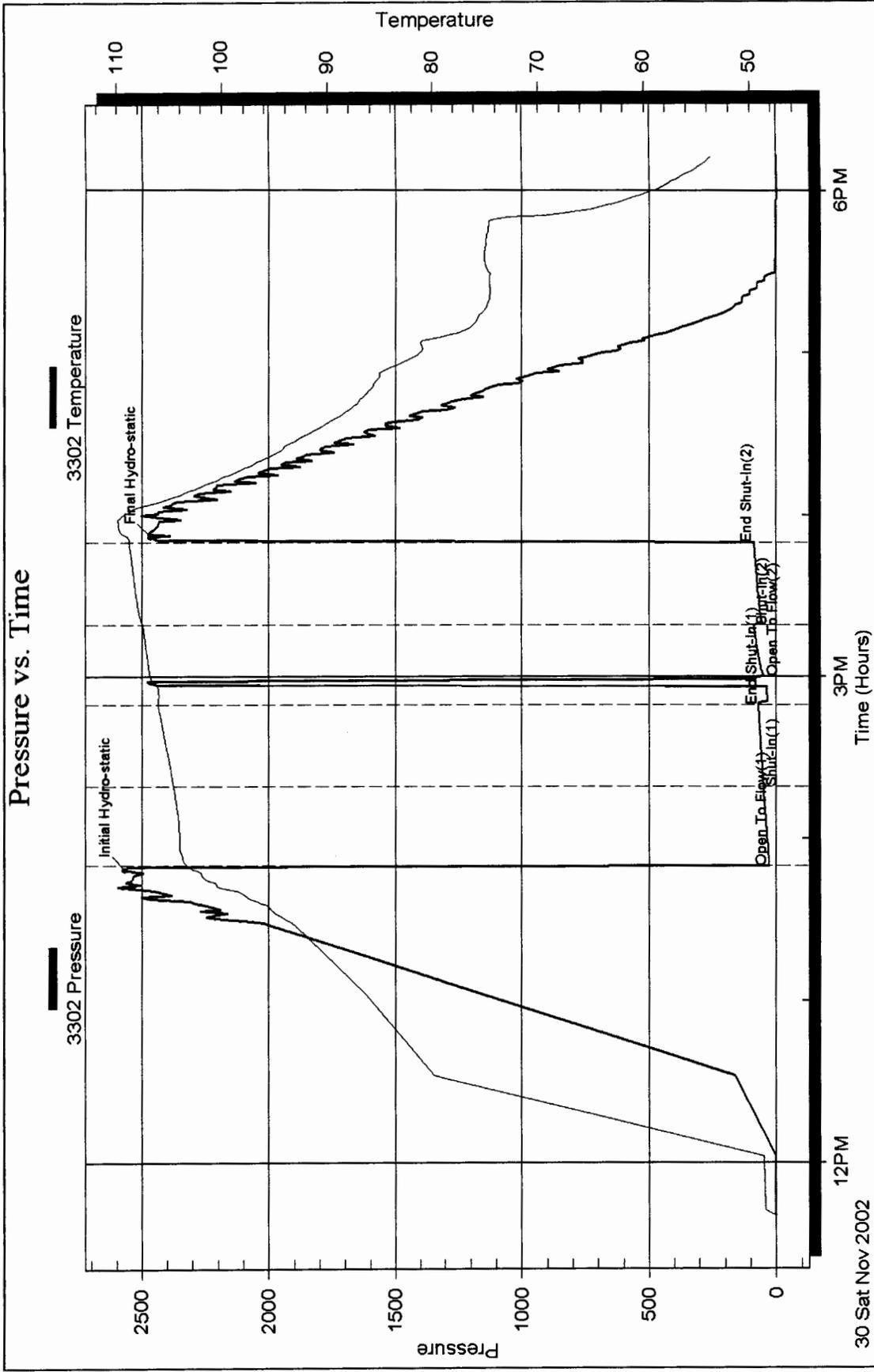
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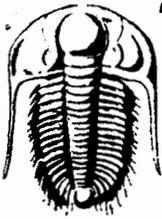
White & Ellis Drilling, Inc.

8-31S-18W

DST Test Number: 3

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

TNN #5270 #3442

No 16344

Test Ticket

Well Name & No. #2-8 Thompson Test No. #1 Date 11/28/02
 Company White & Ellis Drilling, Inc. Zone Tested Altamont
 Address P.O. box 48848 Wichita, Ks 67201-8848 Elevation 2179 KB 2174 GL
 Co. Rep / Geo. Tim Hellman Cont. Pickrell #1 Est. Ft. of Pay Por. %
 Location: Sec. 8 Twp. 31S Rge. 18W Co. Comanche State Ks
 No. of Copies 5 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4928' - 4950' Initial Str Wt./Lbs. 6800 Unseated Str Wt./Lbs. 6800
 Anchor Length 22' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4923' Tool Weight 2100
 Bottom Packer Depth 4928' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4950' Wt. Pipe Run N/A Drill Collar Run 272'
 Mud Wt. 9.1 LCM 0 Vis. 50 WL 12.0 Drill Pipe Size 4 1/2 x H Ft. Run 4648'

Blow Description IF: Fair blow b.o.b in 2 mins. 6TS in 40 mins Gauge Gas.
IST: Bled down for 15 mins No blow back
FF: Strong blow b.o.b in 30 sec. Gauge Gas.
FST: Bled down for 30 mins No blow back.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>200</u>	<u>4520</u>	<u>272'</u>	<u>128'</u>
Rec. <u>200</u> Feet Of <u>H6FCM</u>		<u>20% gas 40% oil</u>	<u>% water 40% mud</u>
Rec. <u>200</u> Feet Of <u>Free oil</u>		<u>% gas % oil</u>	<u>% water % mud</u>
Rec. <u>4520</u> Feet Of <u>GTP</u>		<u>% gas % oil</u>	<u>% water % mud</u>
Rec. <u> </u> Feet Of <u> </u>		<u>% gas % oil</u>	<u>% water % mud</u>
Rec. <u> </u> Feet Of <u> </u>		<u>% gas % oil</u>	<u>% water % mud</u>

BHT 110° °F Gravity 41 °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2464</u>		<u>3302</u>	<u>1310</u>
(B) First Initial Flow Pressure		<u>34</u>		(depth) <u>4929'</u>	T-Started <u>1420</u>
(C) First Final Flow Pressure		<u>63</u>		Recorder No. <u>10991</u>	T-Open <u>1737</u>
(D) Initial Shut-In Pressure		<u>1600</u>		(depth) <u>4947'</u>	T-Pulled <u>2337</u>
(E) Second Initial Flow Pressure		<u>51</u>		Recorder No. <u> </u>	T-Out <u>0259</u>
(F) Second Final Flow Pressure		<u>108</u>		(depth) <u> </u>	T-Off Location <u>0400</u>
(G) Final Shut-in Pressure		<u>1588</u>		PSI Initial Opening <u>60</u>	Test <u> </u> <u>800</u>
(Q) Final Hydrostatic Mud		<u>2331</u>		PSI Initial Shut-in <u>90</u>	Jars <u> </u>
				Final Flow <u>90</u>	Safety Joint <u> </u> <u>50</u>
				Final Shut-in <u>120</u>	Straddle <u> </u>

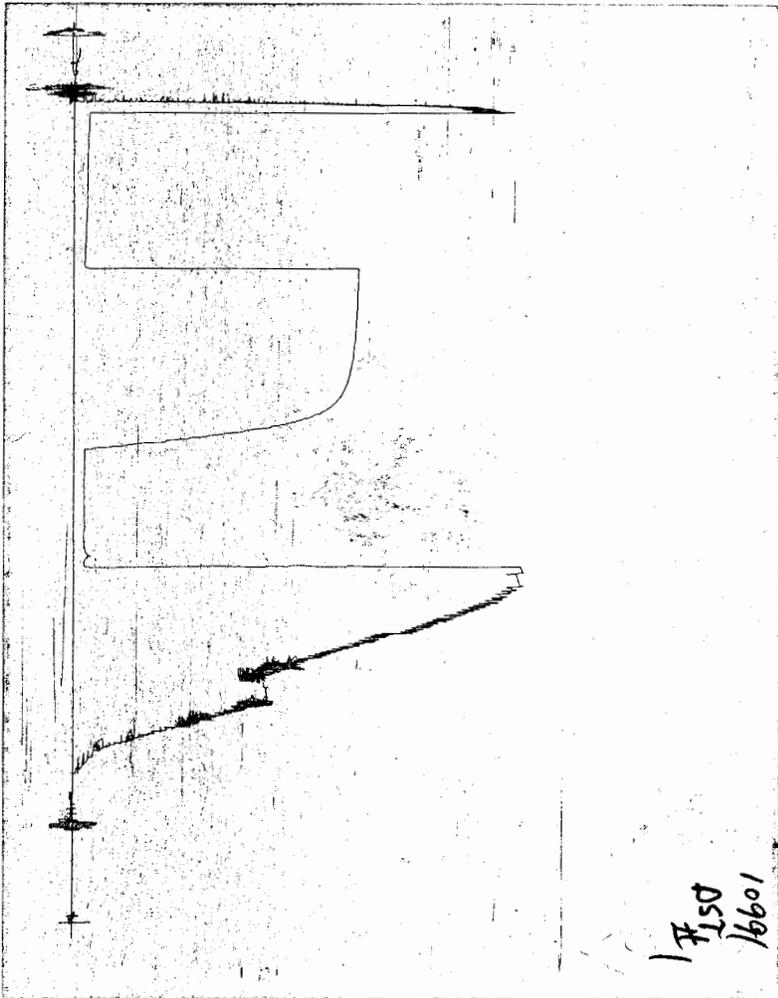
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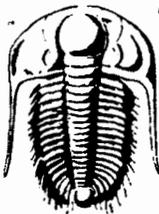
Approved By *[Signature]*

Our Representative *[Signature]*

Extra Packer
 Elec. Rec. 150
 Mileage 48 48
 Other
 TOTAL PRICE \$ 1048.00

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16345

Test Ticket

Well Name & No. <u>2-8 Thompson</u>	Test No. <u>#2</u>	Date <u>11-29-02</u>
Company <u>White & Ellis Drilling, Inc.</u>	Zone Tested <u>Pawnee</u>	
Address <u>P.O. Box 18848 Wichita, KS. 67201-8848</u>	Elevation <u>2179</u>	KB <u>2174</u> GL
Co. Rep / Geo. <u>Tim Hellman</u>	Cont. <u>Pickrell #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>8</u>	Twp. <u>31S</u>	Rge. <u>18W</u>
No. of Copies <u>5</u> Distribution Sheet (Y, N) _____		Turnkey (Y, N) _____ Evaluation (Y, N) _____
Co. <u>Comanche</u> State <u>KS</u>		

Interval Tested <u>4960' - 5000'</u>	Initial Str Wt./Lbs. <u>66,000</u>	Unseated Str Wt./Lbs. <u>66,000</u>
Anchor Length <u>40'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>95,000</u>
Top Packer Depth <u>4955'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4960'</u>	Hole Size — <u>7 7/8" ✓</u>	Rubber Size — <u>6 3/4" ✓</u>
Total Depth <u>5000'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>272'</u>
Mud Wt. <u>9.1</u> LCM <u>Ø</u> Vis. <u>60</u> WL <u>10.8</u>	Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>4679'</u>

Blow Description IF: Weak blow built to 1/4" in #120 slowly died in 22 mins
IST: No blow back
FF: No blow flush tool built back to 2" in #120 bucket.
FST: Sled down for 5 mins. No blow back.

Recovery — Total Feet <u>60'</u>	GIP <u>Trace</u>	Ft. in DC <u>60'</u>	Ft. in DP <u>N/A</u>
Rec. <u>60</u> Feet Of <u>SGCM</u>	<u>5%</u> gas	<u>0%</u> oil	<u>95%</u> water
Rec. <u>Trace</u> Feet Of <u>GIP</u>	<u>0%</u> gas	<u>0%</u> oil	<u>0%</u> water
Rec. _____ Feet Of _____	<u>0%</u> gas	<u>0%</u> oil	<u>0%</u> water
Rec. _____ Feet Of _____	<u>0%</u> gas	<u>0%</u> oil	<u>0%</u> water
Rec. _____ Feet Of _____	<u>0%</u> gas	<u>0%</u> oil	<u>0%</u> water

BHT 111 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2522</u>		<u>3302</u>	<u>1300</u>
(B) First Initial Flow Pressure		<u>24</u>		(depth) <u>4965'</u>	T-Started <u>1324</u>
(C) First Final Flow Pressure		<u>96</u>		Recorder No. <u>10991</u>	T-Open <u>1605</u>
(D) Initial Shut-In Pressure		<u>269</u>		(depth) <u>4997'</u>	T-Pulled <u>1935</u>
(E) Second Initial Flow Pressure		<u>36</u>		Recorder No. _____	T-Out <u>2215</u>
(F) Second Final Flow Pressure		<u>55</u>		(depth) _____	T-Off Location <u>2310</u>
(G) Final Shut-in Pressure		<u>353</u>		Initial Opening <u>30</u>	Test <u>✓</u> <u>800</u>
(Q) Final Hydrostatic Mud		<u>2375</u>		Initial Shut-in <u>30</u>	Jars _____
				Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50</u>
				Final Shut-in <u>90</u>	Straddle _____

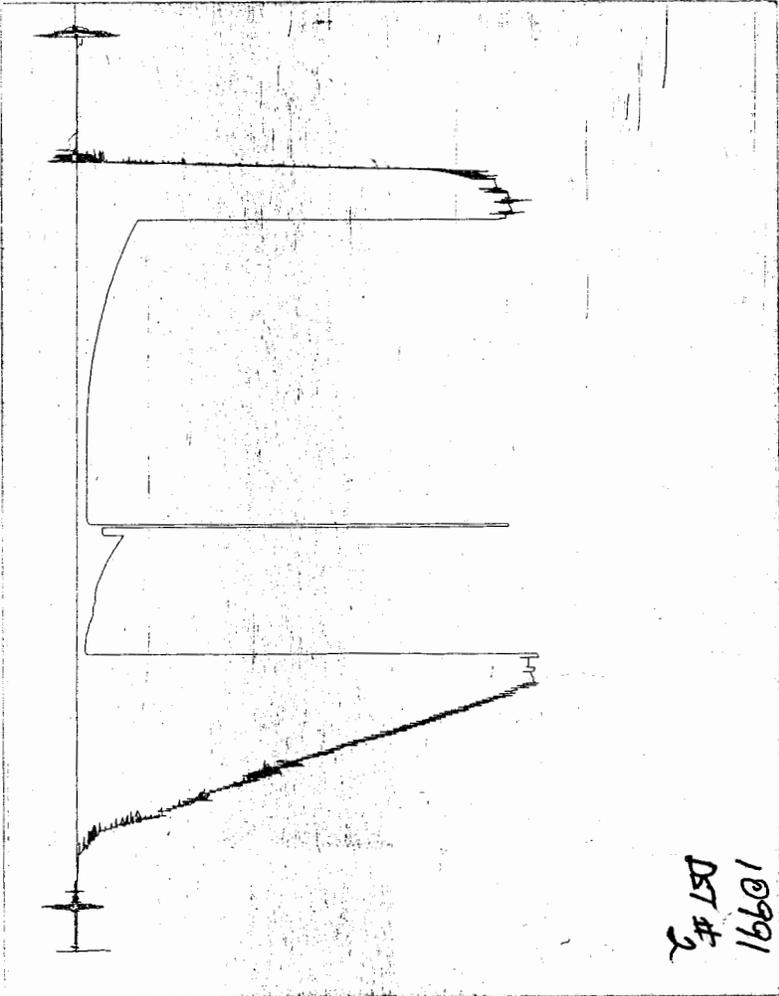
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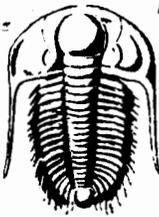
Approved By [Signature]
 Our Representative Darren J. Ramirez

Extra Packer _____
 Elec. Rec. ✓ 150
 Mileage 48 48
 Other _____
 TOTAL PRICE \$ \$1048.00

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16346

Test Ticket

Well Name & No. #2-8 Thompson Test No. #3 Date 11-30-02
 Company White & Ellis Drilling, Inc. Zone Tested MISS
 Address P.O. box 48848 Wichita, Ks. 67201-8848 Elevation 2179 KB 2174 GL
 Co. Rep / Geo. Tim Hellman Cont. Pickrell #1 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 8 Twp. 31S Rge. 18W Co. Comanche State Ks
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5066' - 5100' Initial Str Wt./Lbs. 66000 Unseated Str Wt./Lbs. 66000
 Anchor Length 34' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 110,000
 Top Packer Depth 5061' Tool Weight 2100
 Bottom Packer Depth 5066' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 5100 Wt. Pipe Run N/A Drill Collar Run 2702'
 Mud Wt. 9.2 LCM 1# Vis. 48 WL 12.4 Drill Pipe Size 4 1/2 x H Ft. Run 4771'

Blow Description IS: Weak blow built to 1/2" slowly died 23 mins.
ISI: Bled down no blow back.
FBI: No blow flush tool no blow.
FST: no blow back.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>10'</u>	<u>ATACF</u>	<u>10'</u>	<u>N/A</u>
Rec. <u>10</u> Feet Of <u>VS6CM</u>		<u>4</u> %gas	<u>96</u> %mud
Rec. <u>Trace</u> Feet Of _____		%oil	%water
Rec. _____ Feet Of _____		%oil	%mud
Rec. _____ Feet Of _____		%water	%mud
Rec. _____ Feet Of _____		%mud	

BHT 109° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 10,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2566</u>		<u>3302</u>	<u>1200</u>
(B) First Initial Flow Pressure		<u>28</u>	PSI	(depth) <u>5071'</u>	T-Started <u>1140</u>
(C) First Final Flow Pressure		<u>50</u>	PSI	Recorder No. <u>10991</u>	T-Open <u>1353</u>
(D) Initial Shut-In Pressure		<u>68</u>	PSI	(depth) <u>5097'</u>	T-Pulled <u>1553</u>
(E) Second Initial Flow Pressure		<u>49</u>	PSI	Recorder No. _____	T-Out <u>1812</u>
(F) Second Final Flow Pressure		<u>87</u>	PSI	(depth) _____	T-Off Location <u>1845</u>
(G) Final Shut-in Pressure		<u>86</u>	PSI	Initial Opening <u>30</u>	Test <u>✓</u> <u>900</u>
(Q) Final Hydrostatic Mud		<u>2464</u>	PSI	Initial Shut-in <u>30</u>	Jars <u>✓</u> <u>200</u>
				Final Flow <u>30</u>	Safety Joint <u>✓</u> <u>50</u>
				Final Shut-in <u>30</u>	Straddle _____

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Approved By [Signature]
 Our Representative Darren J. Limerick

Extra Packer _____
 Elec. Rec. ✓ 150
 Mileage 48 48
 Other _____
 TOTAL PRICE \$ 1348

CHART PAGE

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

