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KANSAS CORPORATION COMMISSION

NOV 25 2003

CONSERVATION DIVISION
WICHITA, KS



TRILOBITE
TESTING, INC.

API# 15-191-22415-00-00
DRILL STEM TEST REPORT

Prepared For: **Delta Petroleum**

ORIGINAL
7511th St, Suite 1400
Denver, Co 80202

CONFIDENTIAL KCC

ATTN: Ed Broyles NOV 4 2003

33-34-2 Sumner KS
E CONFIDENTIAL
Scott #3

Start Date: 2003.10.14 @ 21:59:06

End Date: 2003.10.15 @ 06:13:21

Job Ticket #: 17818 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Delta Petroleum

Scott #3

33-34-2 Sumner KS

DST # 1

Kansas City

2003.10.14

CONFIDENTIAL

ORIGINAL

137460



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Delta Petroleum
475 17th St, Suite 1400
Denver, Co 80202
ATTN: Ed Broyles

Scott #3
33-34-2 Sumner KS
Job Ticket: 17818 DST#: 1
Test Start: 2003.10.14 @ 21:59:06

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:12:06
Time Test Ended: 06:13:21

KCC

NOV 14 2003

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Test Type: Conventional Bottom Hole
Tester: Nathan & Nick
Unit No: 16

Interval: **3045.00 ft (KB) To 3065.00 ft (KB) (TVD)**
Total Depth: 3065.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1200.00 ft (KB)
1195.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3310

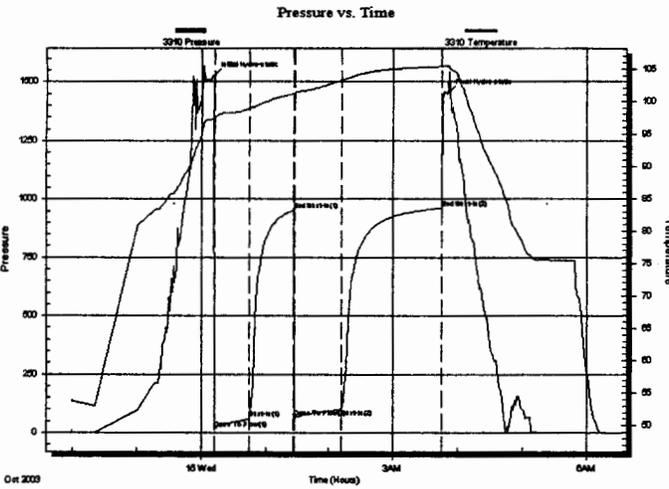
Inside

Press@RunDepth: 101.18 psig @ 3046.00 ft (KB)
Start Date: 2003.10.14 End Date: 2003.10.15
Start Time: 21:59:07 End Time: 06:13:21

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2003.10.15 @ 00:11:36
Time Off Btm: 2003.10.15 @ 03:51:21

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TEST COMMENT: IF-Weak blow building to 3 1/2 inches in bucket
IS- No blow
FF-Weak blow building to 2 inches
FS-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1524.32	97.44	Initial Hydro-static
1	15.85	97.44	Open To Flow (1)
34	59.32	98.92	Shut-In(1)
76	952.24	101.17	End Shut-In(1)
76	65.71	101.29	Open To Flow (2)
121	101.18	103.29	Shut-In(2)
214	961.51	105.37	End Shut-In(2)
220	1451.84	105.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
196.00	Muddy water 80% mud 20% water	0.96

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Delta Petroleum
475 17th St, Suite 1400
Denver, Co 80202
ATTN: Ed Broyles

Scott #3
33-34-2 Sumner KS
Job Ticket: 17818 **DST#: 1**
Test Start: 2003.10.14 @ 21:59:06

Tool Information

Drill Pipe:	Length: 2632.00 ft	Diameter: 3.80 inches	Volume: 36.92 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 415.00 ft	Diameter: 2.25 inches	Volume: 2.04 bbl	Weight to Pull Loose:	56000.00 lb
			<u>Total Volume: 38.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3045.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

KCC

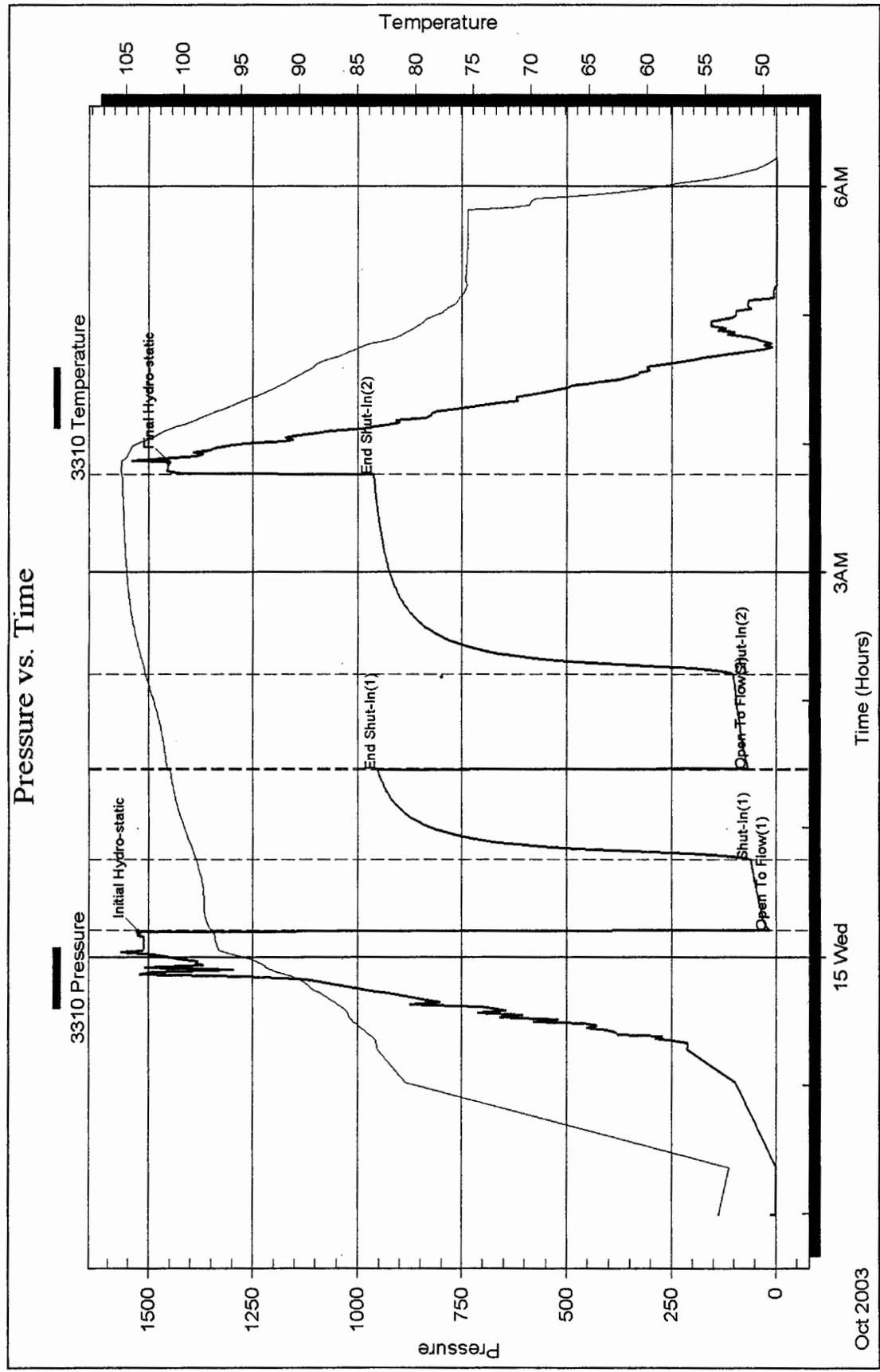
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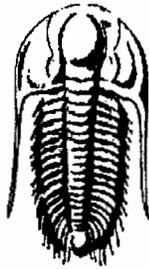
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3024.00	
Shut In Tool	5.00			3029.00	
Hydraulic tool	5.00			3034.00	
Safety Joint	2.00			3036.00	
Packer	4.00			3040.00	22.00 Bottom Of Top Packer
Packer	5.00			3045.00	
Stubb	1.00			3046.00	
Recorder	0.00	3310	Inside	3046.00	
Perforations	17.00			3063.00	
Recorder	0.00	10242	Outside	3063.00	
Bullnose	2.00			3065.00	20.00 Bottom Packers & Anchor

Total Tool Length: 42.00

 TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT		FLUID SUMMARY							
		Delta Petroleum		Scott #3							
475 17th St, Suite 1400 Denver, Co 80202		33-34-2 Sumner KS		Job Ticket: 17818 DST#: 1							
ATTN: Ed Broyles		Test Start: 2003.10.14 @ 21:59:06									
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:	75000 ppm						
Viscosity:	48.00 sec/qt	Cushion Volume:	bbbl								
Water Loss:	12.36 in ³	Gas Cushion Type:									
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig								
Salinity:	1600.00 ppm										
Filter Cake:	0.02 inches										
Recovery Information											
Recovery Table											
		<table border="1"> <thead> <tr> <th>Length ft</th> <th>Description</th> <th>Volume bbbl</th> </tr> </thead> <tbody> <tr> <td>196.00</td> <td>Muddy w ater 80%mud 20%w ater</td> <td>0.964</td> </tr> </tbody> </table>		Length ft	Description	Volume bbbl	196.00	Muddy w ater 80%mud 20%w ater	0.964		
Length ft	Description	Volume bbbl									
196.00	Muddy w ater 80%mud 20%w ater	0.964									
Total Length:	196.00 ft	Total Volume:	0.964 bbl								
Num Fluid Samples:	0	Num Gas Bombs:	0	Serial #:							
Laboratory Name:		Laboratory Location:									
Recovery Comments:											





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Delta Petroleum**

475 17th St, Suite 1400
Denver, Co 80202

ATTN: Ed Broyles

33-34-2 Sumner KS

Scott #3

Start Date: 2003.10.16 @ 23:40:47

End Date: 2003.10.17 @ 08:20:02

Job Ticket #: 17819 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

Delta Petroleum
475 17th St, Suite 1400
Denver, Co 80202
ATTN: Ed Broyles

Scott #3
33-34-2 Sumner KS
Job Ticket: 17819 **DST#: 2**
Test Start: 2003.10.16 @ 23:40:47

GENERAL INFORMATION:

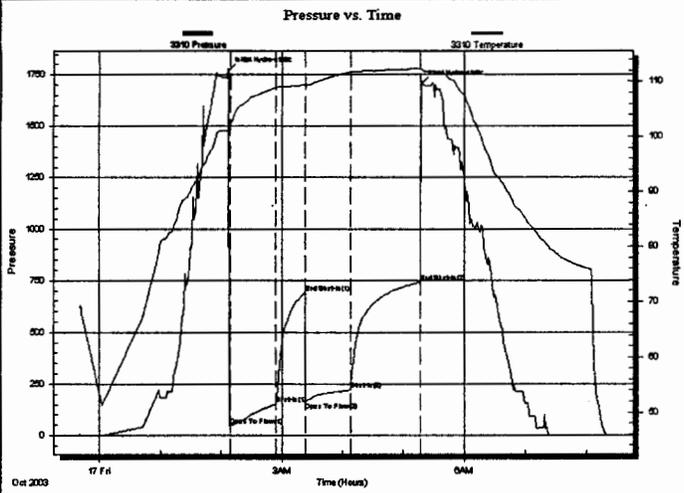
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:09:02
Time Test Ended: 08:20:02
Interval: **3505.00 ft (KB) To 3525.00 ft (KB) (TVD)**
Total Depth: 3525.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole
Tester: Nathan & Nick
Unit No: 16
Reference Elevations: 1200.00 ft (KB)
1195.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3310

Inside

Press@RunDepth: 221.65 psig @ 3506.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2003.10.16 End Date: 2003.10.17 Last Calib.: 1899.12.30
Start Time: 23:40:48 End Time: 08:20:02 Time On Btrm: 2003.10.17 @ 02:07:32
Time Off Btrm: 2003.10.17 @ 05:17:47

TEST COMMENT: IF-Strong blow ; O.B.B. in 40 sec.
IS-Weak blow building to 1.75 inches
FSI-Good blow ; O.B.B. in 9.5 min.
FSI-Fair blow building to 4 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.51	101.30	Initial Hydro-static
2	45.45	101.76	Open To Flow (1)
47	153.45	108.90	Shut-In(1)
76	689.36	109.38	End Shut-In(1)
76	162.20	109.44	Open To Flow (2)
121	221.65	111.75	Shut-In(2)
189	739.53	112.35	End Shut-In(2)
191	1705.48	112.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
139.00	SOCM 84% mud 10% oil 6% gas	0.68
310.00	gassy salt water 82% mud 15% mud 3% gas	1.83

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Delta Petroleum
475 17th St, Suite 1400
Denver, Co 80202

Scott #3
33-34-2 Sumner KS
Job Ticket: 17819 **DST#: 2**
Test Start: 2003.10.16 @ 23:40:47

ATTN: Ed Broyles

Tool Information

Drill Pipe:	Length: 3093.00 ft	Diameter: 3.80 inches	Volume: 43.39 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 415.00 ft	Diameter: 2.25 inches	Volume: 2.04 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 45.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3505.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3484.00	
Shut In Tool	5.00			3489.00	
Hydraulic tool	5.00			3494.00	
Safety Joint	2.00			3496.00	
Packer	4.00			3500.00	22.00 Bottom Of Top Packer
Packer	5.00			3505.00	
Stubb	1.00			3506.00	
Recorder	0.00	3310	Inside	3506.00	
Perforations	17.00			3523.00	
Recorder	0.00	13630	Outside	3523.00	
Bullnose	2.00			3525.00	20.00 Bottom Packers & Anchor

Total Tool Length: 42.00



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FLUID SUMMARY

Delta Petroleum
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ATTN: Ed Broyles

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33-34-2 Sumner KS
Job Ticket: 17819 **DST#:2**
Test Start: 2003.10.16 @ 23:40:47

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:	78000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
139.00	SOCM 84%mud 10%oil 6%gas	0.684
310.00	gassy saltw ater 82%mud 15%mud 3%gas	1.834

Total Length: 449.00 ft Total Volume: 2.518 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 3310

Inside

Delta Petroleum

33-34-2 Summer KS

DST Test Number: 2

