

DRILL STEM TEST REPORT

Prepared For: **Strata Exploration, Inc.**

P.O. Box 401
Fairfield, ILL. 62837

ATTN: Jon Christensen

28-29S-32W

#1 Tindall-Spanier

Start Date: 2002.09.27 @ 17:33:46

End Date: 2002.09.28 @ 02:14:46

Job Ticket #: 14428 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Strata Exploration, Inc.

#1 Tindall-Spanier

28-29S-32W

DST # 1

Atoka

2002.09.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 14428

DST#: 1

ATTN: Jon Christensen

Test Start: 2002.09.27 @ 17:33:46

GENERAL INFORMATION:

Formation: **Atoka**

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

Time Tool Opened: 20:08:16

Time Test Ended: 02:14:46

Test Type: **Conventional Bottom Hole**

Tester: **Shad Vieux**

Unit No: **17**

Interval: **5069.00 ft (KB) To 5127.00 ft (KB) (TVD)**

Reference Elevations: **2914.00 ft (KB)**

Total Depth: **5127.00 ft (KB) (TVD)**

2909.00 ft (CF)

Hole Diameter: **77.80 inches** Hole Condition: **Fair**

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

Serial #: 3307

Inside

Press@RunDepth: **51.58 psig @ 5083.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.09.27**

End Date:

2002.09.28

Last Calib.: **1899.12.30**

Start Time: **17:33:47**

End Time:

02:14:46

Time On Btm: **2002.09.27 @ 20:06:46**

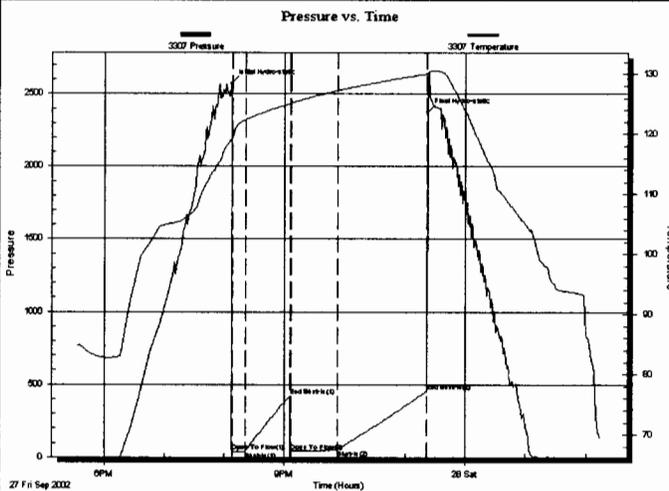
Time Off Btm: **2002.09.27 @ 23:21:46**

TEST COMMENT: **IF- Strong Blow Built to 15"**

IS- No Blow

FF- Strong Blow Built From 14" to B.O.B. in 8 min.

FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2572.89	119.17	Initial Hydro-static
2	37.74	119.38	Open To Flow (1)
14	40.33	122.38	Shut-In(1)
58	420.00	125.08	End Shut-In(1)
59	40.89	125.21	Open To Flow (2)
105	51.58	127.25	Shut-In(2)
195	453.33	130.03	End Shut-In(2)
195	2374.10	130.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%-Mud	0.15
780.00	100%-Gas	8.65

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, LL. 62837

28-29S-32W

Job Ticket: 14428

DST#: 1

ATTN: Jon Christensen

Test Start: 2002.09.27 @ 17:33:46

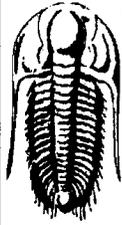
Tool Information

Drill Pipe:	Length: 4771.00 ft	Diameter: 3.80 inches	Volume: 66.92 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: 20000.00 lb
Drill Collar:	Length: 281.00 ft	Diameter: 2.25 inches	Volume: 1.38 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 68.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	5069.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	81.00 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			5047.00	
S.I. Tool	5.00			5052.00	
HMV	5.00			5057.00	
Safety Joint	2.00			5059.00	
C.O. Sub	1.00			5060.00	
Packer	5.00			5065.00	23.00 Bottom Of Top Packer
Packer	4.00			5069.00	
Stubb	1.00			5070.00	
Perforations	13.00			5083.00	
Recorder	0.00	3307	Inside	5083.00	
C.O. Sub	1.00			5084.00	
Blank Spacing	30.00			5114.00	
C.O. Sub	1.00			5115.00	
Perforations	9.00			5124.00	
Recorder	0.00	5495	Inside	5124.00	
Bullnose	3.00			5127.00	58.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 14428

DST#: 1

ATTN: Jon Christensen

Test Start: 2002.09.27 @ 17:33:46

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: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	100%-Mud	0.148
780.00	100%-Gas	8.655

Total Length: 810.00 ft Total Volume: 8.803 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

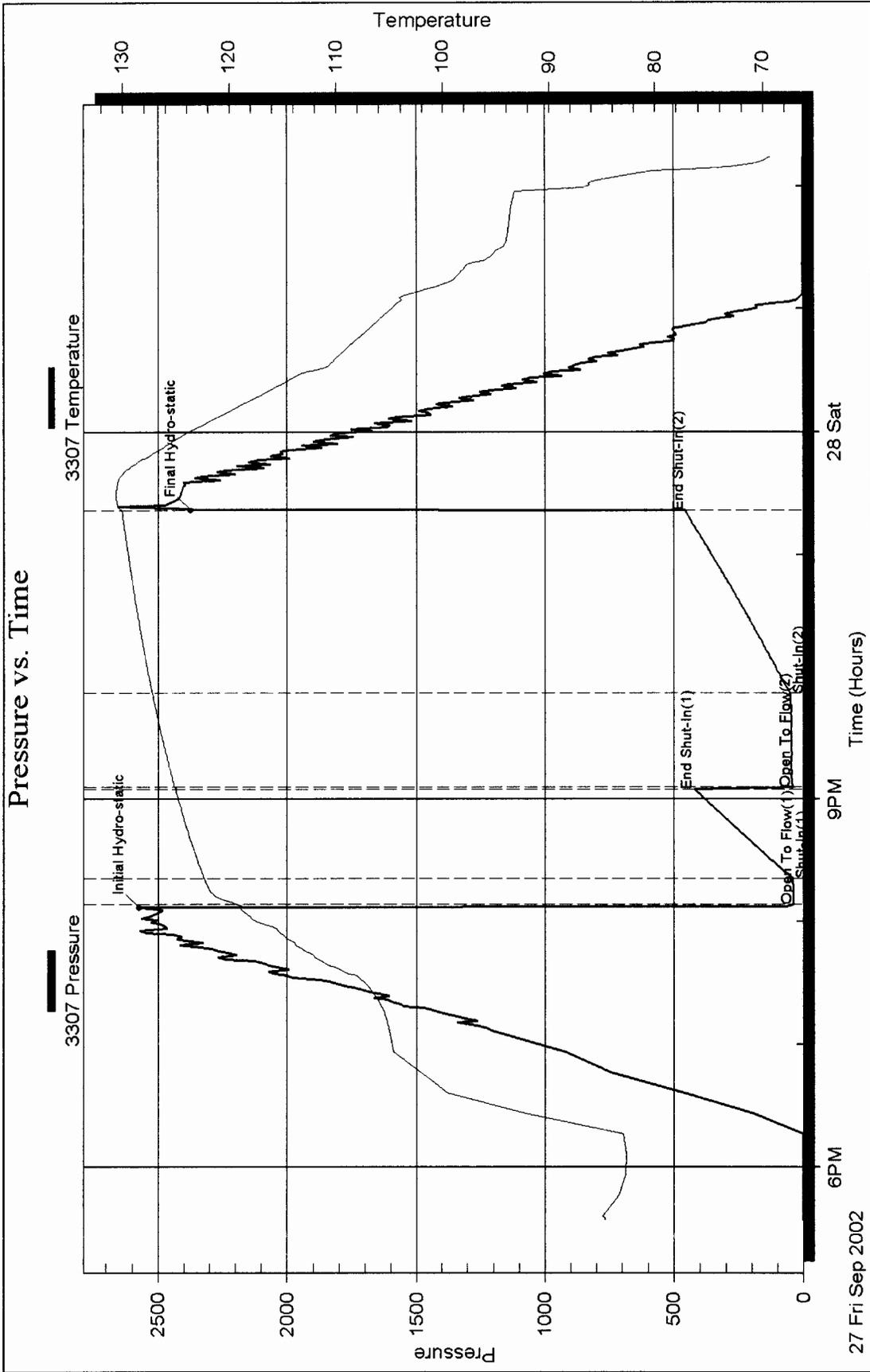
Serial #:

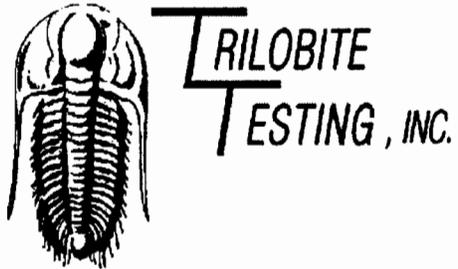
Laboratory Name:

Laboratory Location:

Recovery Comments: RW-.903@65.4F

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Strata Exploration, Inc.**

P.O. Box 401
Fairfield, ILL. 62837

ATTN: Jon Christensen

28-29S-32W

#1 Tindall-Spanier

Start Date: 2002.09.30 @ 02:39:28

End Date: 2002.09.30 @ 11:23:28

Job Ticket #: 14429 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

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 14429

DST#: 2

ATTN: Jon Christensen

Test Start: 2002.09.30 @ 02:39:28

GENERAL INFORMATION:

Formation: **St. Louis**

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

Time Tool Opened: 05:33:28

Time Test Ended: 11:23:28

Test Type: **Conventional Bottom Hole**

Tester: **Shad Vieux**

Unit No: **17**

Interval: **5465.00 ft (KB) To 5512.00 ft (KB) (TVD)**

Reference Elevations: **2914.00 ft (KB)**

Total Depth: **5512.00 ft (KB) (TVD)**

2909.00 ft (CF)

Hole Diameter: **77.80 inches** Hole Condition: **Fair**

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

Serial #: 3307

Inside

Press@RunDepth: **347.38 psig @ 5466.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2002.09.30**

End Date: **2002.09.30**

Last Calib.: **1899.12.30**

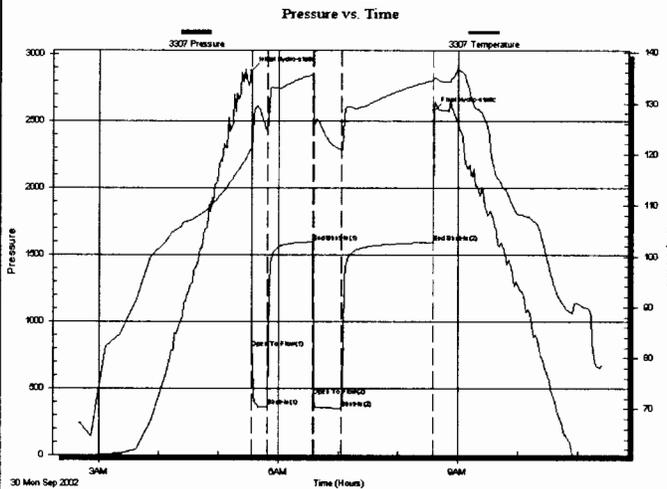
Start Time: **02:39:29**

End Time: **11:23:28**

Time On Btm: **2002.09.30 @ 05:32:58**

Time Off Btm: **2002.09.30 @ 08:35:28**

TEST COMMENT: F- Strong Blow B.O.B. in 30 sec. G.T.S. in 2 min. Gauging Gas
IS- No Blow
FF- Strong Blow B.O.B. Immediately
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2873.18	121.35	Initial Hydro-static
1	797.55	121.17	Open To Flow (1)
17	362.54	124.25	Shut-In(1)
62	1593.73	135.63	End Shut-In(1)
62	443.39	130.81	Open To Flow (2)
91	347.38	120.91	Shut-In(2)
182	1591.91	134.56	End Shut-In(2)
183	2578.41	134.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	75.00	1388.40
Last Gas Rate	0.75	115.00	2009.61
Max. Gas Rate	0.75	115.00	2009.61



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 14429

DST#: 2

ATTN: Jon Christensen

Test Start: 2002.09.30 @ 02:39:28

Tool Information

Drill Pipe:	Length: 5170.00 ft	Diameter: 3.80 inches	Volume: 72.52 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: 20000.00 lb
Drill Collar:	Length: 281.00 ft	Diameter: 2.25 inches	Volume: 1.38 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 73.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	5465.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	75.00 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			5438.00	
S.I. Tool	5.00			5443.00	
HMV	5.00			5448.00	
Jars	5.00			5453.00	
Safety Joint	2.00			5455.00	
C.O. Sub	1.00			5456.00	
Packer	5.00			5461.00	28.00 Bottom Of Top Packer
Packer	4.00			5465.00	
Stubb	1.00			5466.00	
Recorder	0.00	3307	Inside	5466.00	
Perforations	10.00			5476.00	
C.O. Sub	1.00			5477.00	
Blank Spacing	31.00			5508.00	
C.O. Sub	1.00			5509.00	
Recorder	0.00	5495	Inside	5509.00	
Bullnose	3.00			5512.00	47.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, IL. 62837

28-29S-32W

Job Ticket: 14429

DST#: 2

ATTN: Jon Christensen

Test Start: 2002.09.30 @ 02:39:28

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 2

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, Ks

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 14429

DST#: 2

ATTN: Jon Christensen

Test Start: 2002.09.30 @ 02:39:28

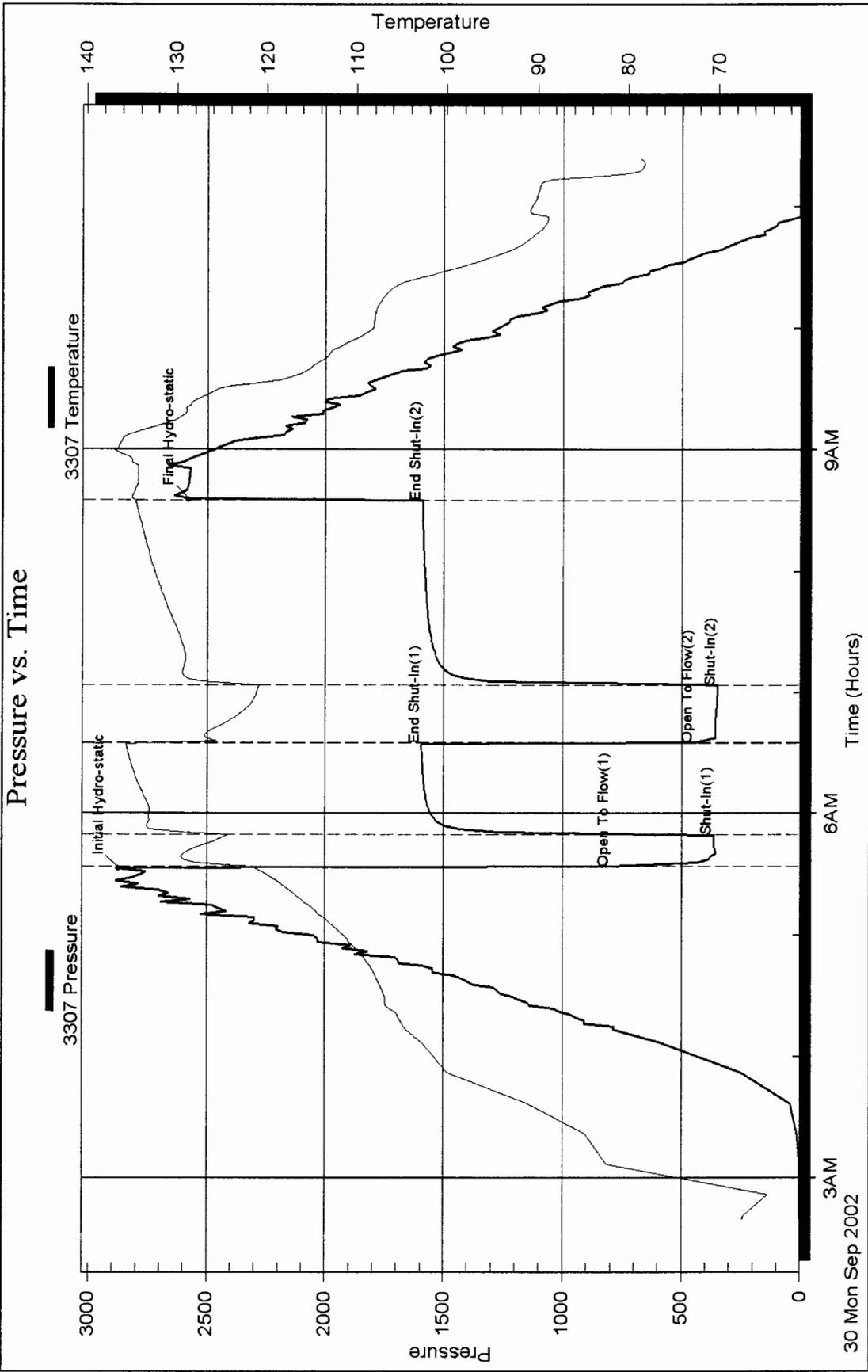
Gas Rates Information

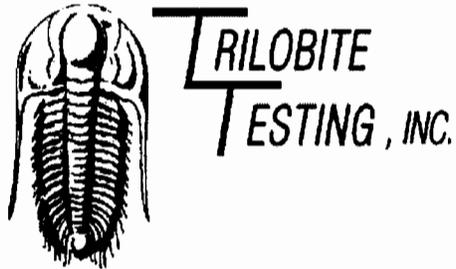
Temperature: 65 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	5	0.75	75.00	1388.40
1	10	0.75	105.00	1854.31
1	15	0.75	109.00	1916.43
2	5	0.75	85.00	1543.71
2	10	0.75	110.00	1931.96
2	15	0.75	115.00	2009.61
2	20	0.75	115.00	2009.61
2	25	0.75	115.00	2009.61
2	30	0.75	115.00	2009.61

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Strata Exploration, Inc.**

P.O. Box 401
Fairfield, ILL. 62837

ATTN: Jon Christensen

28-29S-32W

#1 Tindall-Spanier

Start Date: 2002.10.01 @ 21:14:48

End Date: 2002.10.02 @ 01:01:03

Job Ticket #: 16332 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Strata Exploration, Inc.

#1 Tindall-Spanier

28-29S-32W

DST # 3

Morrow

2002.10.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 16332

DST#: 3

ATTN: Jon Christensen

Test Start: 2002.10.01 @ 21:14:48

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:03:33

Time Test Ended: 01:01:03

Test Type: Conventional Straddle

Tester: Darren L.Amerine

Unit No: 19

Interval: **5225.00 ft (KB) To 5377.00 ft (KB) (TVD)**

Reference Elevations: 2914.00 ft (KB)

Total Depth: 5637.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 77.80 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 3302

Inside

Press@RunDepth: 149.61 psig @ 5355.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.10.01

End Date: 2002.10.02

Last Calib.: 2002.10.02

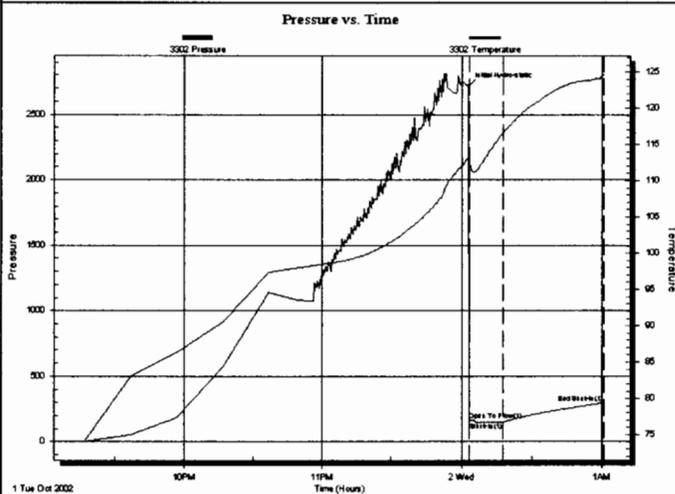
Start Time: 21:14:50

End Time: 01:01:03

Time On Btrm: 2002.10.02 @ 00:02:48

Time Off Btrm:

TEST COMMENT: IF:Weak blow built to 6" in H2O bucket.
IS:Bled down for 20 mins.Built back to weak surface blow.
FF:Strong blow built to b.o.b in 28 mins.
FS:Bled down for 5 mins.no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2718.24	113.02	Initial Hydro-static
1	161.52	112.41	Open To Flow (1)
15	149.61	116.55	Shut-In(1)
59	298.03	124.77	End Shut-In(1)

Recovery

Length (ft)	Description	Volume (bbl)
500.00	01 - Gas	3.94
120.00	gas cut mud	1.68

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Strata Exploration, Inc.

#1 Tindall-Spanier

P.O. Box 401
Fairfield, ILL. 62837

28-29S-32W

Job Ticket: 16332

DST#: 3

ATTN: Jon Christensen

Test Start: 2002.10.01 @ 21:14:48

Tool Information

Drill Pipe:	Length: 4869.74 ft	Diameter: 3.80 inches	Volume: 68.31 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: 337.26 ft	Diameter: 2.25 inches	Volume: 1.66 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 69.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5225.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	5377.00 ft			
Interval between Packers:	152.00 ft			
Tool Length:	445.00 ft			
Number of Packers:	4	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

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

C.O. Sub	1.00			5198.00		
S.I. Tool	5.00			5203.00		
HMV	5.00			5208.00		
Jars	5.00			5213.00		
Safety Joint	2.00			5215.00		
Packer	5.00			5220.00	28.00	Bottom Of Top Packer
Packer	5.00			5225.00		
Stubb	1.00			5226.00		
Anchor	4.00			5230.00		
Blank Spacing	125.00			5355.00		
Recorder	0.00	3302	Inside	5355.00		
Anchor	17.00			5372.00		
Recorder	0.00	13769	Outside	5372.00		
Anchor	5.00			5377.00	152.00	Tool Interval
Packer	5.00			5382.00		
Stubb	1.00			5383.00		
Anchor	8.00			5391.00		
Blank Spacing	248.00			5639.00		
Recorder	0.00	10991	Below	5639.00		
Bullnose	3.00			5642.00	265.00	Bottom Packers & Anchor

Total Tool Length: 445.00



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28-29S-32W

Job Ticket: 16332

DST#: 3

ATTN: Jon Christensen

Test Start: 2002.10.01 @ 21:14:48

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: 59.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 1.50 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 0.32 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
500.00	01 - Gas	3.941
120.00	gas cut mud	1.683

Total Length: 620.00 ft

Total Volume: 5.624 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3302

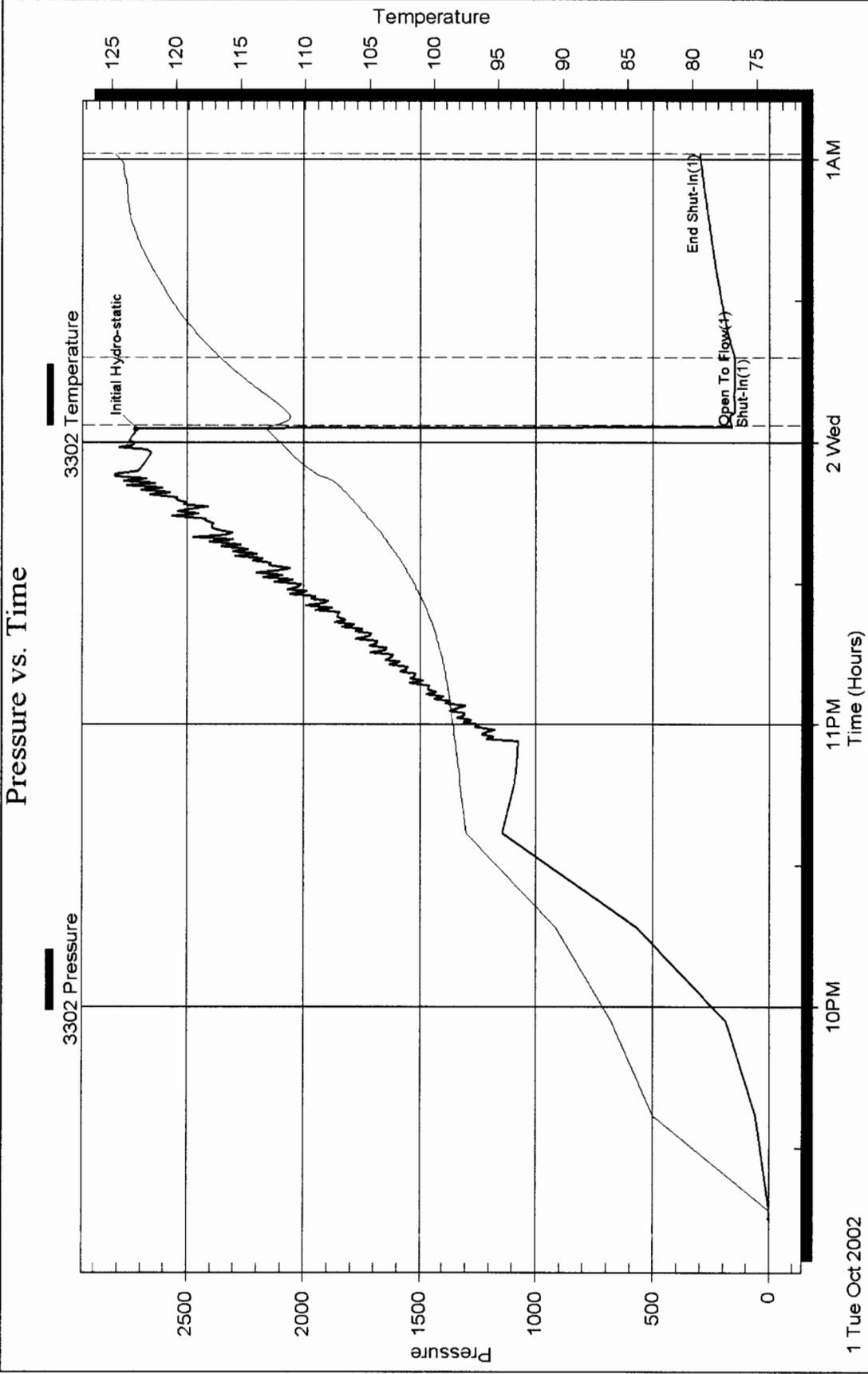
Inside

Strata Exploration, Inc.

28-29S-32W

DST Test Number: 3

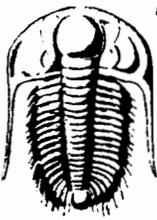
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 16332

Printed: 2002.10.08 @ 09:36:57 Page 5



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14428

Test Ticket

Well Name & No. #1 Tindall-Spanier Test No. 1 Date 9-27-02
 Company Strata Exploration, Inc. Zone Tested Atoka
 Address P.O. Box 401 Fairfield, IL 62837 Elevation 2914 KB 2909 GL
 Co. Rep / Geo. Jon Christensen Cont. Abercrombie #8 Est. Ft. of Pay Por. %
 Location: Sec. 28 Twp. 29 S Rge. 32 W Co. Haskell State Kansas
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5069 - 5127 Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 65,000
 Anchor Length 58 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 70,000
 Top Packer Depth 5064 Tool Weight 1800
 Bottom Packer Depth 5069 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5127 Wt. Pipe Run N/A Drill Collar Run 281
 Mud Wt. 9.3 LCM 2 Vis. 49 WL 8.0 Drill Pipe Size 4 1/2 X 0 Ft. Run 1771
 Blow Description IF - Strong Blow Built to 15"
BSI - No Blow
FF - Strong Blow Built from 14" to BOB in 8min.
FSI - No Blow

Recovery — Total Feet 30 GIP 700 Ft. in DC Ft. in DP
 Rec. 30 Feet Of Mud %gas %oil %water 100 %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 130 °F Gravity °API D@ °F Corrected Gravity °API
 RW 903 @ 65.4 °F Chlorides 7300 ppm Recovery Chlorides 2100 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		2572	3307	15:15
(B) First Initial Flow Pressure		37	(depth) 5083	T-Started 20:00 17:30
(C) First Final Flow Pressure		40	PSI Recorder No. 5495	T-Open 20:00
(D) Initial Shut-In Pressure		420	PSI (depth) 5124	T-Pulled 23:15
(E) Second Initial Flow Pressure		40	PSI Recorder No. <u> </u>	T-Out 02:15
(F) Second Final Flow Pressure		51	PSI (depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure		453	PSI Initial Opening 15	Test <input checked="" type="checkbox"/> Conventional 900
(Q) Final Hydrostatic Mud		2374	PSI Initial Shut-in 45	Jars <u> </u>
			Final Flow 45	Safety Joint <input checked="" type="checkbox"/> 50
			Final Shut-in 90	Straddle <u> </u>
				Circ. Sub <u> </u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <input checked="" type="checkbox"/> 150
				Mileage <input checked="" type="checkbox"/> \$40 40
				Other <u>Std. By #30</u> 1140
				TOTAL PRICE \$ 1170 30

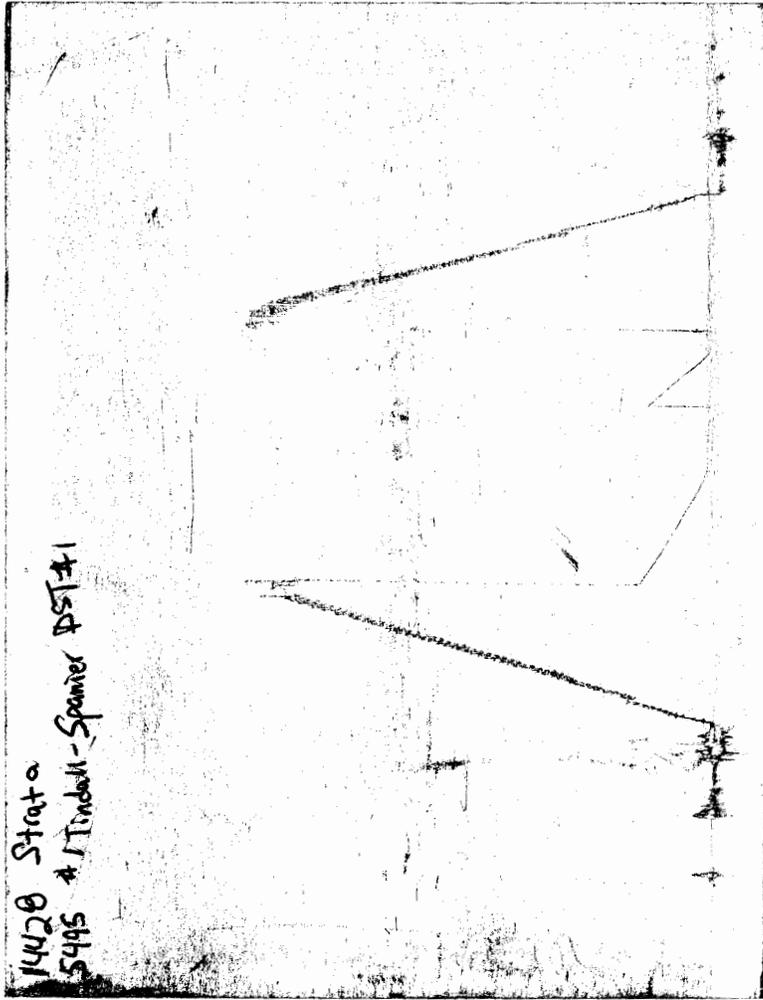
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Approved By [Signature]
Our Representative [Signature]

150
40
1140
30
TOTAL PRICE \$ 1170

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14429

Test Ticket

Well Name & No. #1 Tindall-Spanier Test No. 2 Date 9-30-02
 Company Strata Exploration, Inc. Zone Tested St. Louis
 Address P.O. Box 401 Fairfield, ILL. 62837 Elevation 2914 KB 2909 GL
 Co. Rep / Geo. Jon Christensen Cont. Abercrombie #8 Est. Ft. of Pay Por. %
 Location: Sec. 28 Twp. 29S Rge. 32W Co. Haskell State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5465 - 5512 Initial Str Wt./Lbs. 65,000 Unseated Str Wt./Lbs. 68,000
 Anchor Length 47 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 72,000
 Top Packer Depth 5460 Tool Weight 1900
 Bottom Packer Depth 5465 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5512 Wt. Pipe Run N/A Drill Collar Run 281
 Mud Wt. 9.2 LCM 3 Vis. 58 WL 7.2 Drill Pipe Size 4 1/2 XO Ft. Run 5170
 Blow Description IF - Strong Blow B.O.B - 30 sec GTS - 2 min Gauging Gas
ISI - No Blow B.O.B. immediately
FF - Strong Blow
FSI - No Blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	

BHT 134 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 4100 ppm System

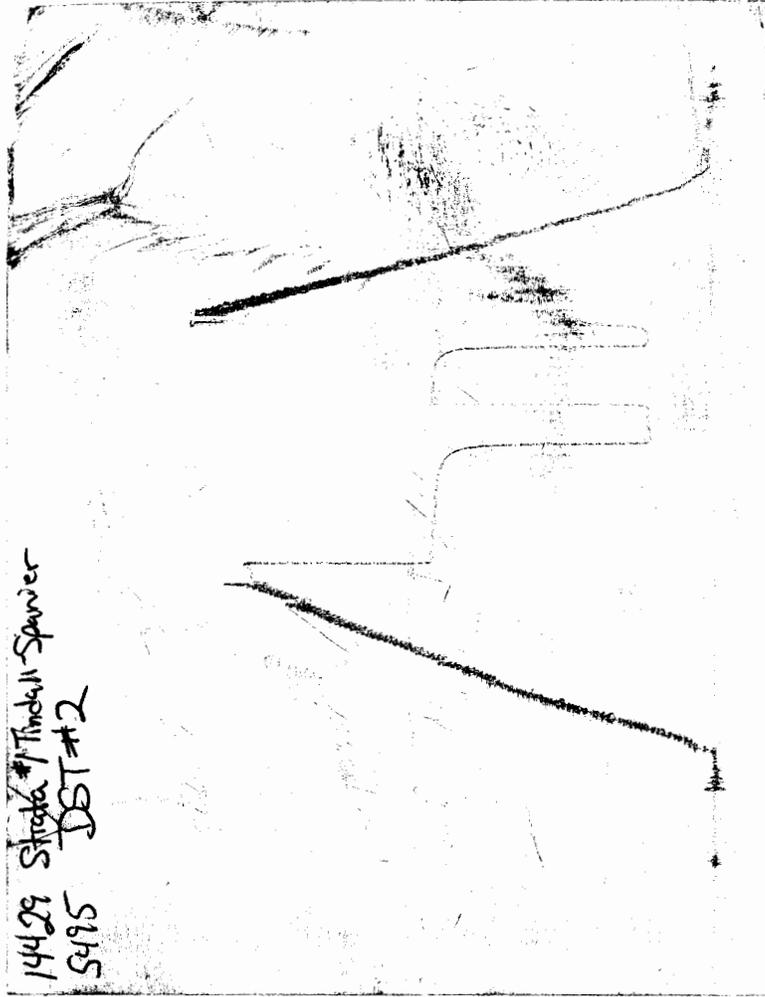
	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2873</u>		<u>3307</u>	<u>01:15</u>
(B) First Initial Flow Pressure	<u>797</u>		(depth) <u>5466</u>	T-Started <u>02:30</u>
(C) First Final Flow Pressure	<u>362</u>		PSI Recorder No. <u>5495</u>	T-Open <u>05:25</u>
(D) Initial Shut-In Pressure	<u>1593</u>		(depth) <u>5509</u>	T-Pulled <u>08:25</u>
(E) Second Initial Flow Pressure	<u>443</u>		PSI Recorder No. <u> </u>	T-Out <u>11:23</u>
(F) Second Final Flow Pressure	<u>347</u>		(depth) <u> </u>	T-Off Location <u>12:30</u>
(G) Final Shut-in Pressure	<u>1591</u>		PSI Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/> Conventional <u>900</u>
(Q) Final Hydrostatic Mud	<u>2578</u>		PSI Initial Shut-in <u>45</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
			Final Flow <u>30</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
			Final Shut-in <u>90</u>	Straddle <u> </u>
				Circ. Sub <u> </u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
				Mileage <input checked="" type="checkbox"/> \$40 <u>40</u>
				Other <u> </u>
				TOTAL PRICE \$ <u>1340</u> \$1340

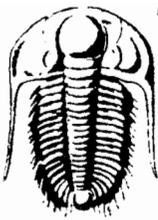
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Approved By John R. King
 Our Representative

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 16332

Test Ticket

Well Name & No. #2 Tindall - Spanier Test No. #3 Date 10/1/02
 Company Strata Exploration, Inc Zone Tested Morrow
 Address P.O. box 401 Fairfield, IL 62837 Elevation 2914 KB 2909 GL
 Co. Rep / Geo. John Kinney Cont. Abercrombie #8 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 28 Twp. 29S Rge. 32W Co. Haskell State KS
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5225' - 5377' Initial Str Wt./Lbs. 72000 Unseated Str Wt./Lbs. 72000
 Anchor Length 152' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 85000
 Top Packer Depth 5220' Tool Weight 2100
 Bottom Packer Depth 5225' & 5377' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5637' 260' Tailpipe Wt. Pipe Run N/A Drill Collar Run 337.26
 Mud Wt. 9.1 LCM 4# Vis. 59 WL 7.2 Drill Pipe Size 4 1/2 x 4 Ft. Run 5242.74

Blow Description IF: Weak blow built to 6" in #120 bucket.
IST: Bled down for 20 mins. built back to weak surface blow.
FF: Strong blow built to s.o.b in 28 mins.
FST: Bled down for 5 mins. No blow back.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>120'</u>	<u>500'</u>	<u>120'</u>	<u>N/A</u>
Rec. <u>120</u> Feet Of <u>SGCM</u>		<u>5</u> %gas	%oil %water <u>95%</u> %mud
Rec. <u>500'</u> Feet Of <u>GTP</u>		%gas	%oil %water %mud
Rec. _____ Feet Of _____		%gas	%oil %water %mud
Rec. _____ Feet Of _____		%gas	%oil %water %mud
Rec. _____ Feet Of _____		%gas	%oil %water %mud

BHT 125' °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3600 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2718</u>	<u>3302</u>	<u>2000</u>
(B) First Initial Flow Pressure		<u>162</u>	(depth) <u>5350'</u>	T-Started <u>2114</u>
(C) First Final Flow Pressure		<u>149</u>	PSI Recorder No. <u>13769 1</u>	T-Open <u>0017</u>
(D) Initial Shut-In Pressure		<u>298</u>	(depth) <u>5367'</u>	T-Pulled <u>0332</u>
(E) Second Initial Flow Pressure			PSI Recorder No. <u>10991 5</u>	T-Out <u>0700</u>
(F) Second Final Flow Pressure			(depth) <u>5629'</u>	T-Off Location <u>0900</u>
(G) Final Shut-in Pressure			PSI Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/> <u>900</u>
(Q) Final Hydrostatic Mud			PSI Initial Shut-in <u>45</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
			Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
			Final Shut-in <u>90</u>	Straddle <input checked="" type="checkbox"/> <u>250</u>
				Circ. Sub _____
				Sampler _____
				Extra Packer <input checked="" type="checkbox"/> <u>150</u>
				Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
				Mileage <u>124</u> <u>40</u>
				Other _____ <u>_____</u>
				TOTAL PRICE \$ <u>11740</u>

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Approved By [Signature]
 Our Representative Daren S. [Signature]

CHART PAGE

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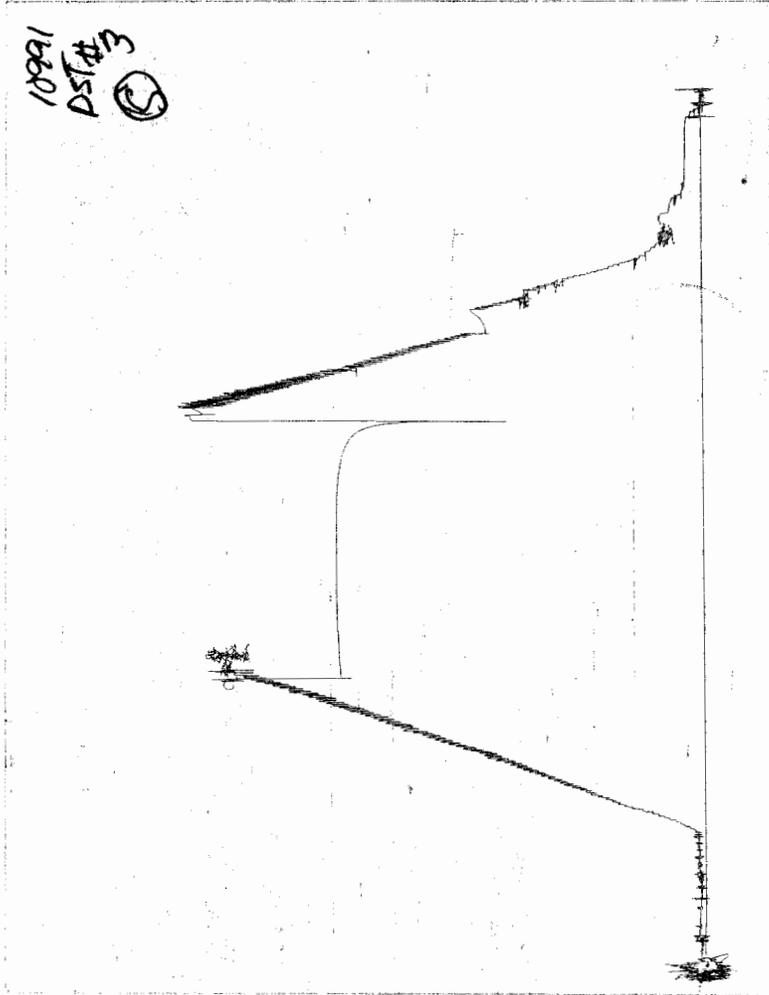


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