

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.27 @ 21:31:15

End Date: 2012.08.28 @ 02:45:45

Job Ticket #: 49490 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.07 @ 16:35:01

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 1 Topeka-Oread 2012.08.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49490 **DST#: 1**
Test Start: 2012.08.27 @ 21:31:15

GENERAL INFORMATION:

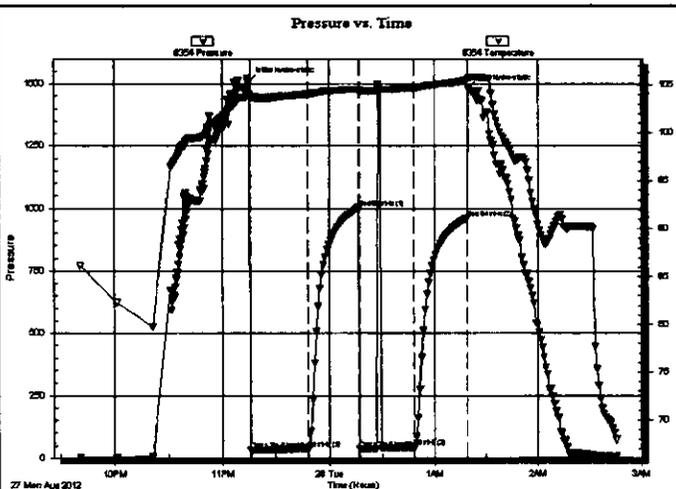
Formation: **Topeka-Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:15:45
Time Test Ended: 02:45:45
Interval: **3188.00 ft (KB) To 3238.00 ft (KB) (TVD)**
Total Depth: 3238.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: 2034.00 ft (KB)
2027.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press@RunDepth: 42.75 psig @ 3227.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.27 End Date: 2012.08.28 Last Calib.: 2012.08.28
Start Time: 21:41:15 End Time: 02:45:45 Time On Btm: 2012.08.27 @ 23:15:25
Time Off Btm: 2012.08.28 @ 01:19:45

TEST COMMENT: IF-Weak 1/2 inch blow throughout.
ISI-No Return.
FF-No Blow . Flushed Tool. Weak surface blow . Died @ 11 minutes.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.71	104.03	Initial Hydro-static
1	32.67	103.73	Open To Flow (1)
33	36.68	104.02	Shut-In(1)
62	1004.15	104.58	End Shut-In(1)
62	36.75	104.21	Open To Flow (2)
93	42.75	104.69	Shut-In(2)
124	961.34	105.51	End Shut-In(2)
125	1480.05	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%Mud	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601

7-15s-19w Ellis, KS

Orville #1

Job Ticket: 49490

DST#: 1

ATTN: Herb Deines

Test Start: 2012.08.27 @ 21:31:15

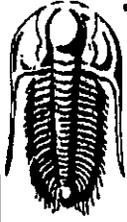
Tool Information

Drill Pipe:	Length: 3178.00 ft	Diameter: 3.80 inches	Volume: 44.58 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 44.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3188.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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			3169.00	
Shut In Tool	5.00			3174.00	
Hydraulic tool	5.00			3179.00	
Packer	5.00			3184.00	20.00 Bottom Of Top Packer
Packer	4.00			3188.00	
Stubb	1.00			3189.00	
Perforations	5.00			3194.00	
Change Over Sub	1.00			3195.00	
Drill Pipe	31.00			3226.00	
Change Over Sub	1.00			3227.00	
Recorder	0.00	8354	Inside	3227.00	
Recorder	0.00	8520	Outside	3227.00	
Perforations	8.00			3235.00	
Bullnose	3.00			3238.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49490 **DST#: 1**
Test Start: 2012.08.27 @ 21:31:15

Mud and Cushion Information

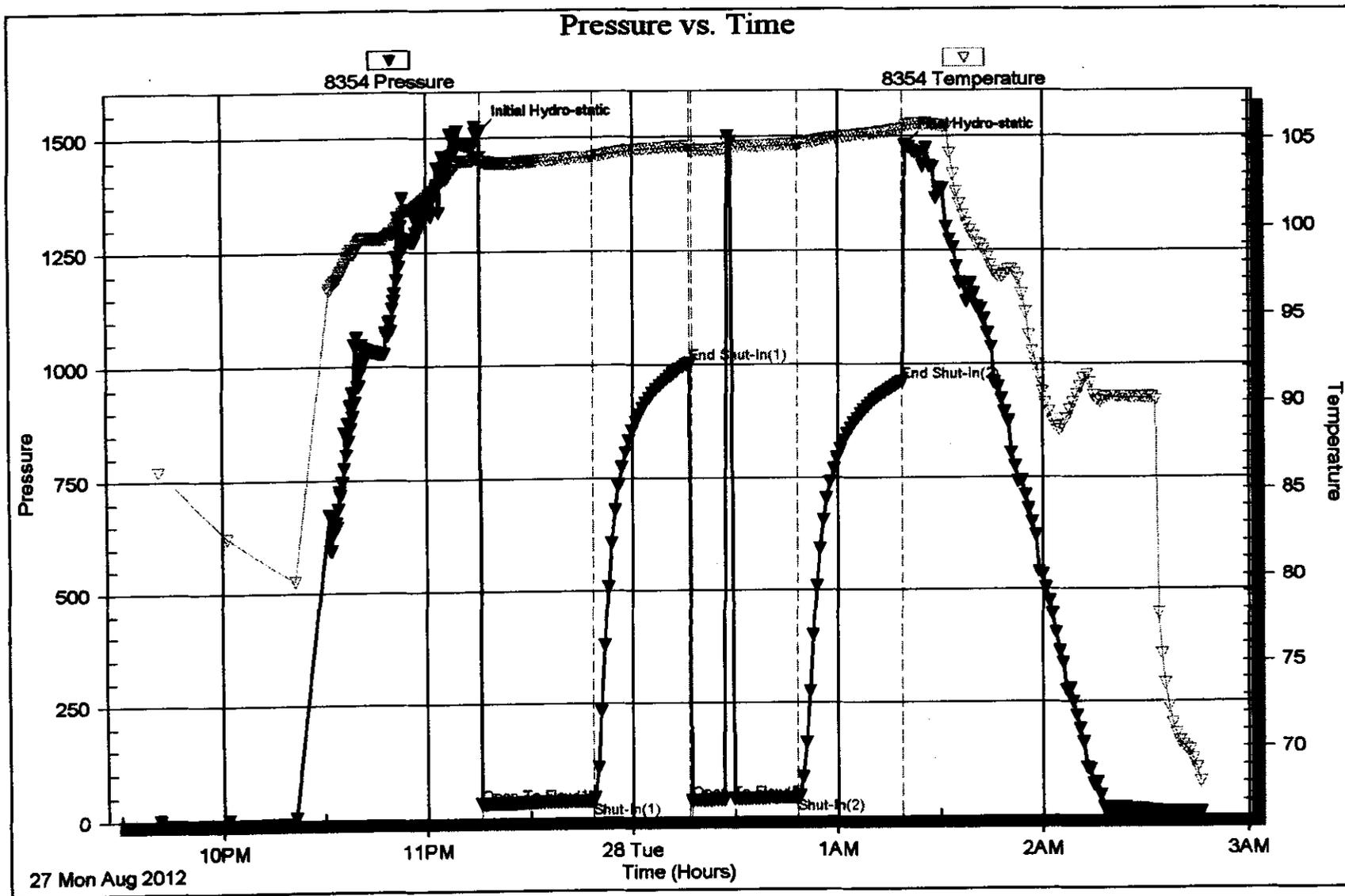
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	100%Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

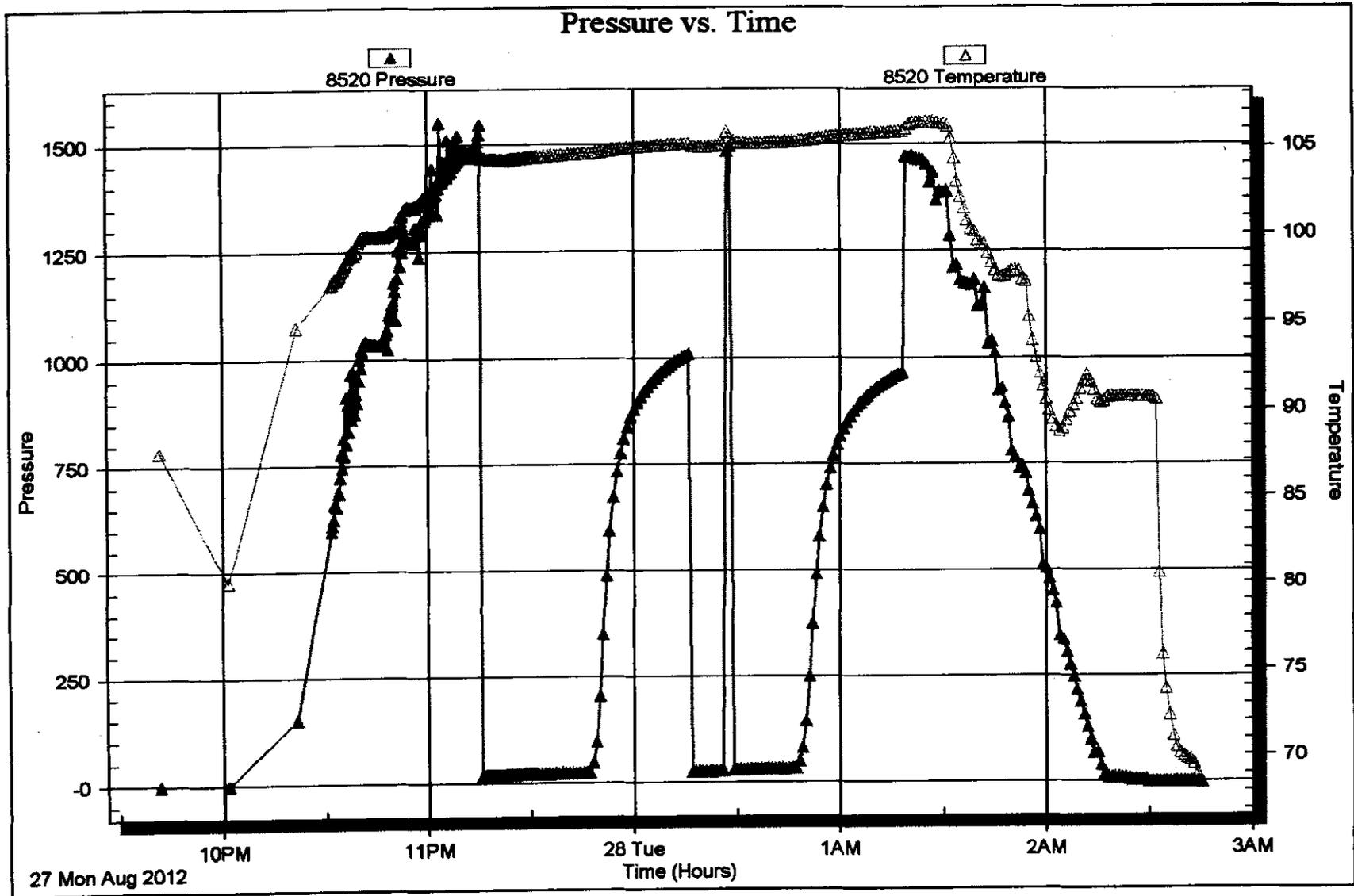


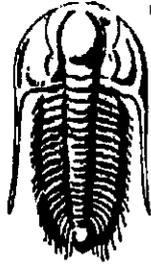
Serial #: 8520

Outside TD, Inc.

Orville #1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.28 @ 12:48:30

End Date: 2012.08.28 @ 18:13:30

Job Ticket #: 49491 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.07 @ 16:34:04

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 2 LKC "A-C" 2012.08.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Daines

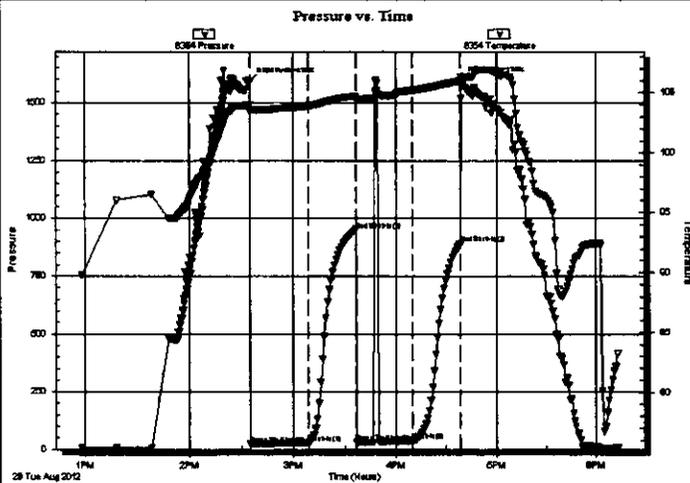
7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

GENERAL INFORMATION:

Formation: **LKC "A-C"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 14:35:10
Time Test Ended: 18:13:30
Interval: **3319.00 ft (KB) To 3370.00 ft (KB) (TVD)**
Total Depth: **3370.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Rash**
Unit No: **38**
Reference Elevations: **2034.00 ft (KB)**
2027.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 8354 Inside
Press@RunDepth: **37.82 psig @ 3358.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.08.28** End Date: **2012.08.28** Last Calib.: **2012.08.28**
Start Time: **12:58:30** End Time: **18:13:30** Time On Btm: **2012.08.28 @ 14:34:50**
Time Off Btm: **2012.08.28 @ 16:39:30**

TEST COMMENT: IF-Weak surface blow . Surging @ 11 minutes.
IS-No Return.
FF-No Blow . Flushed Tool. Surface Blow . Died @ 9 minutes.
FSI-No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.71	103.97	Initial Hydro-static
1	22.04	103.64	Open To Flow (1)
35	29.65	103.95	Shut-In(1)
62	950.08	104.70	End Shut-In(1)
62	30.59	104.32	Open To Flow (2)
96	37.82	105.21	Shut-In(2)
124	890.14	106.02	End Shut-In(2)
125	1597.40	106.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	100%Mud	0.49

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 46.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3319.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 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			3300.00	
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Packer	5.00			3315.00	20.00 Bottom Of Top Packer
Packer	4.00			3319.00	
Stubb	1.00			3320.00	
Perforations	5.00			3325.00	
Change Over Sub	1.00			3326.00	
Drill Pipe	31.00			3357.00	
Change Over Sub	1.00			3358.00	
Recorder	0.00	8354	inside	3358.00	
Recorder	0.00	8520	Outside	3358.00	
Perforations	9.00			3367.00	
Bullnose	3.00			3370.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

Mud and Cushion Information

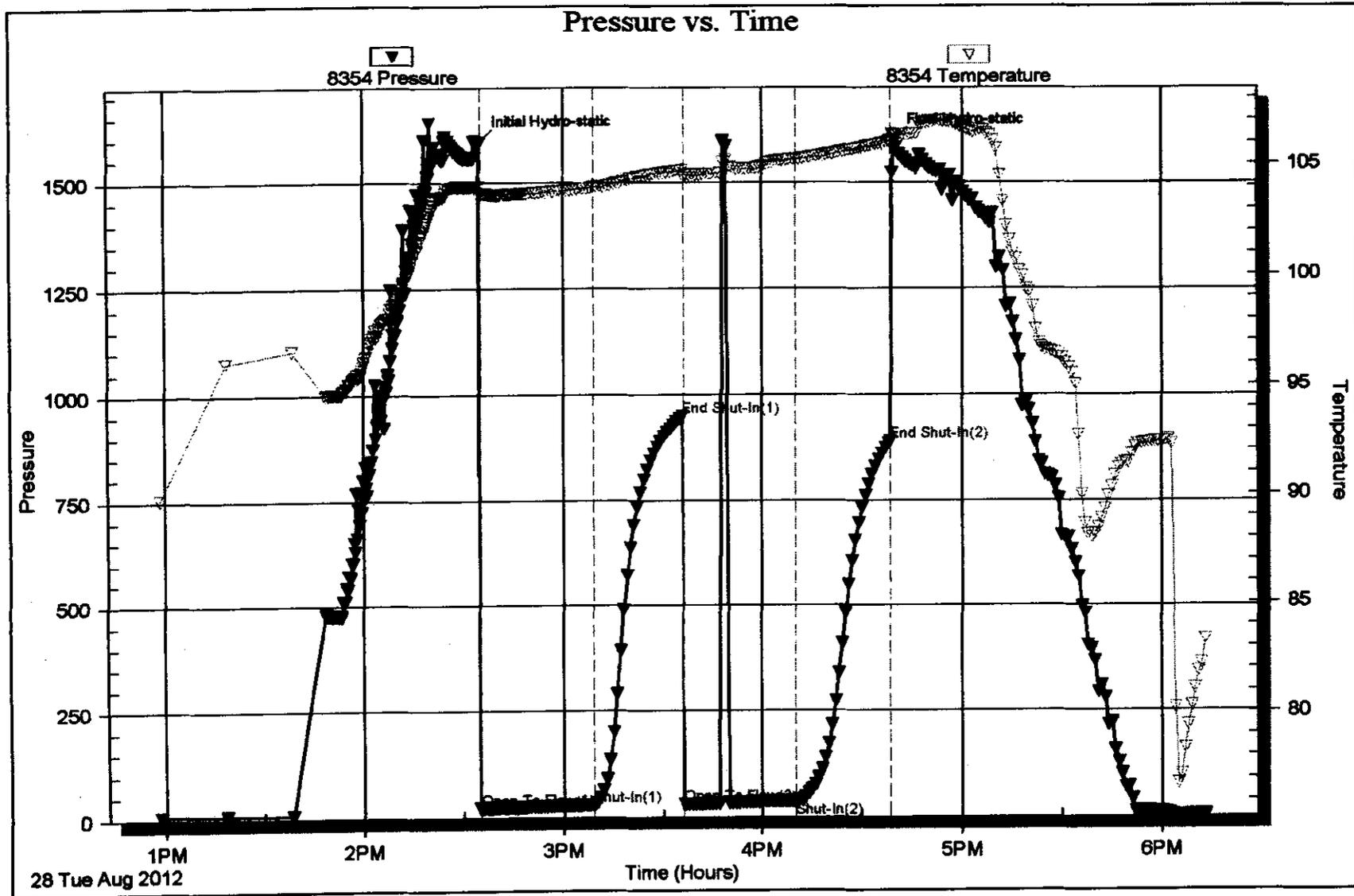
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	100%Mud	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

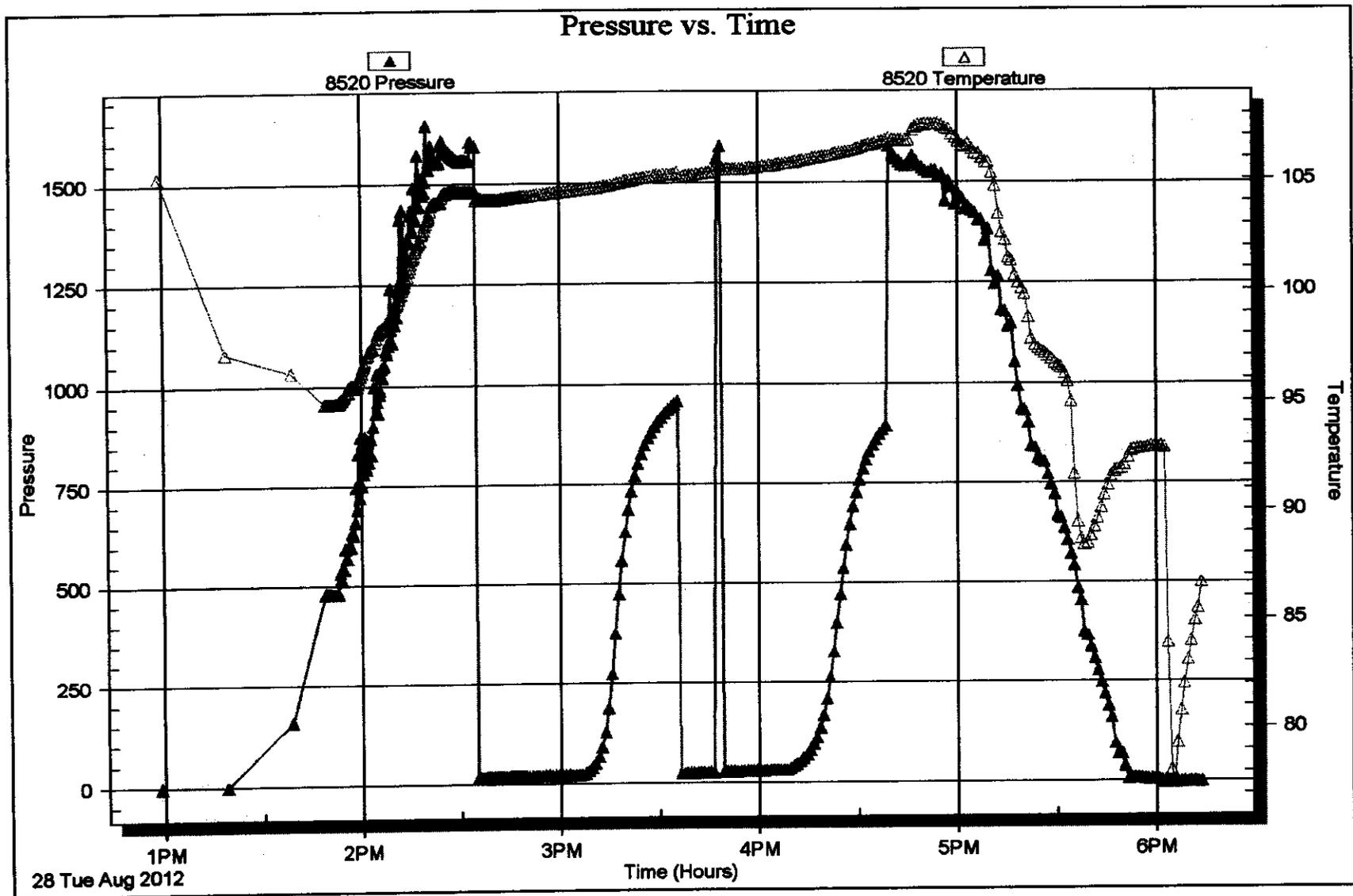


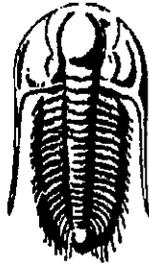
Serial #: 8520

Outside TD, Inc.

Orville #1

DST Test Number: 2





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.30 @ 01:45:15

End Date: 2012.08.30 @ 07:23:15

Job Ticket #: 49492 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.07 @ 16:33:21

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 3 LKC "D" 2012.08.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

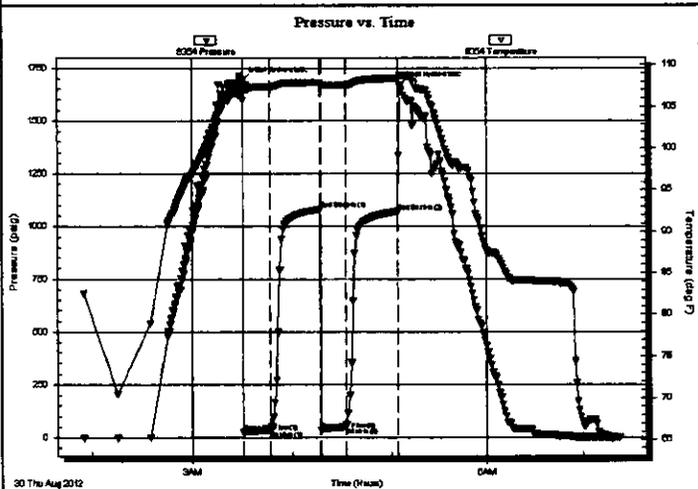
7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 03:30:45
Time Test Ended: 07:23:15
Interval: **3362.00 ft (KB) To 3382.00 ft (KB) (TVD)**
Total Depth: **3707.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: **2034.00 ft (KB)**
2027.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 8354 **inside**
Press@RunDepth: **49.92 psig @ 3363.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.08.30** End Date: **2012.08.30** Last Calib.: **2012.08.30**
Start Time: **01:55:15** End Time: **07:23:15** Time On Btm: **2012.08.30 @ 03:30:35**
Time Off Btm: **2012.08.30 @ 05:05:45**

TEST COMMENT: IF-Strong building blow . BOB in 4 minutes.
IS-**No Return.**
FF-Strong blow . BOB in 15 seconds.
FS-**No Return.**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.10	106.80	Initial Hydro-static
1	27.31	105.80	Open To Flow (1)
17	33.93	107.37	Shut-In(1)
47	1080.19	107.88	End Shut-In(1)
48	38.05	107.57	Open To Flow (2)
62	49.92	107.56	Shut-In(2)
94	1070.06	108.37	End Shut-In(2)
96	1666.55	108.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
57.00	40%Oil/60%Mud	0.80
40.00	40%Gas/60%Oil	0.56
0.00	1389' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 47.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3362.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	350.00 ft			
Tool Length:	370.00 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			3343.00	
Shut In Tool	5.00			3348.00	
Hydraulic tool	5.00			3353.00	
Packer	5.00			3358.00	20.00 Bottom Of Top Packer
Packer	4.00			3362.00	
Stubb	1.00			3363.00	
Recorder	0.00	8354	Inside	3363.00	
Recorder	0.00	8520	Outside	3363.00	
Perforations	19.00			3382.00	
Blank Off Sub	1.00			3383.00	350.00 Tool Interval
Packer	4.00			3387.00	
Stubb	1.00			3388.00	
Perforations	4.00			3392.00	
Change Over Sub	1.00			3393.00	
Recorder	0.00	8653	Below	3393.00	
Drill Pipe	315.00			3708.00	
Change Over Sub	1.00			3709.00	
Bullnose	3.00			3712.00	1000369.00 Bottom Packers & Anchor
Total Tool Length:	370.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

Mud and Cushion Information

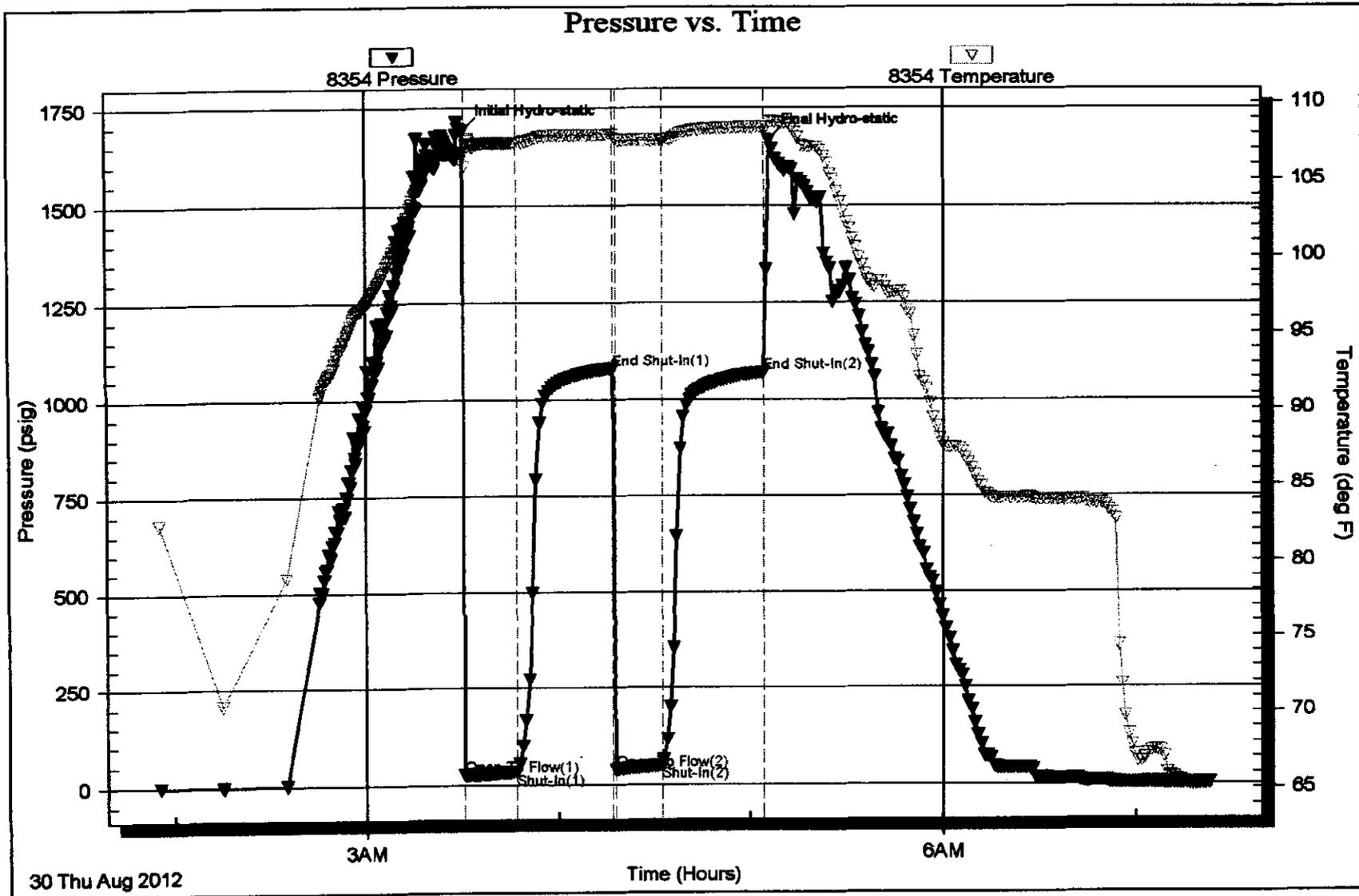
Mud Type: Gel Chem	Cushion Type:	Oil API:	41 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

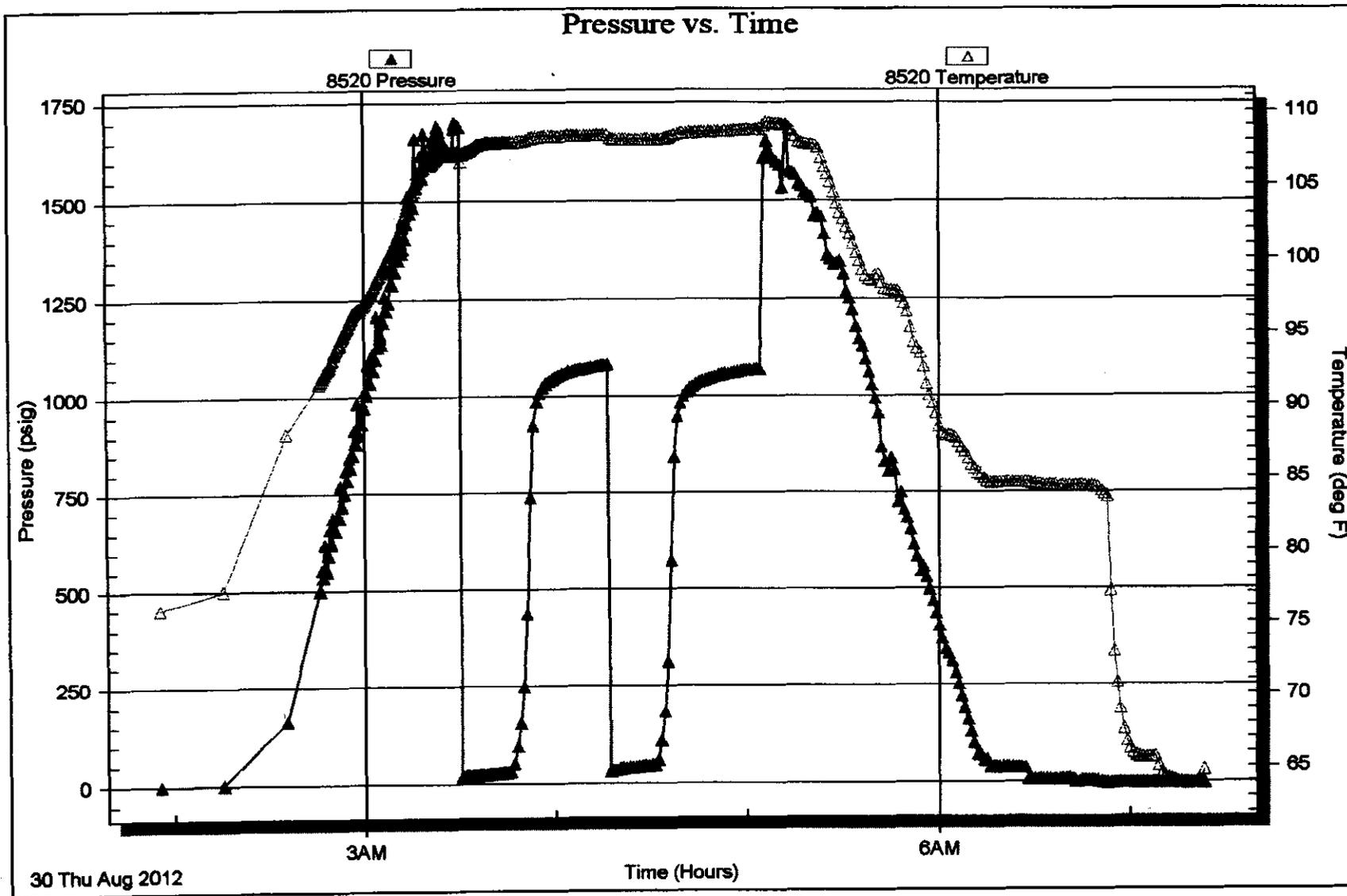
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
57.00	40%Oil/60%Mud	0.800
40.00	40%Gas/60%Oil	0.561
0.00	1389' G.I.P.	0.000

Total Length: 97.00 ft Total Volume: 1.361 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



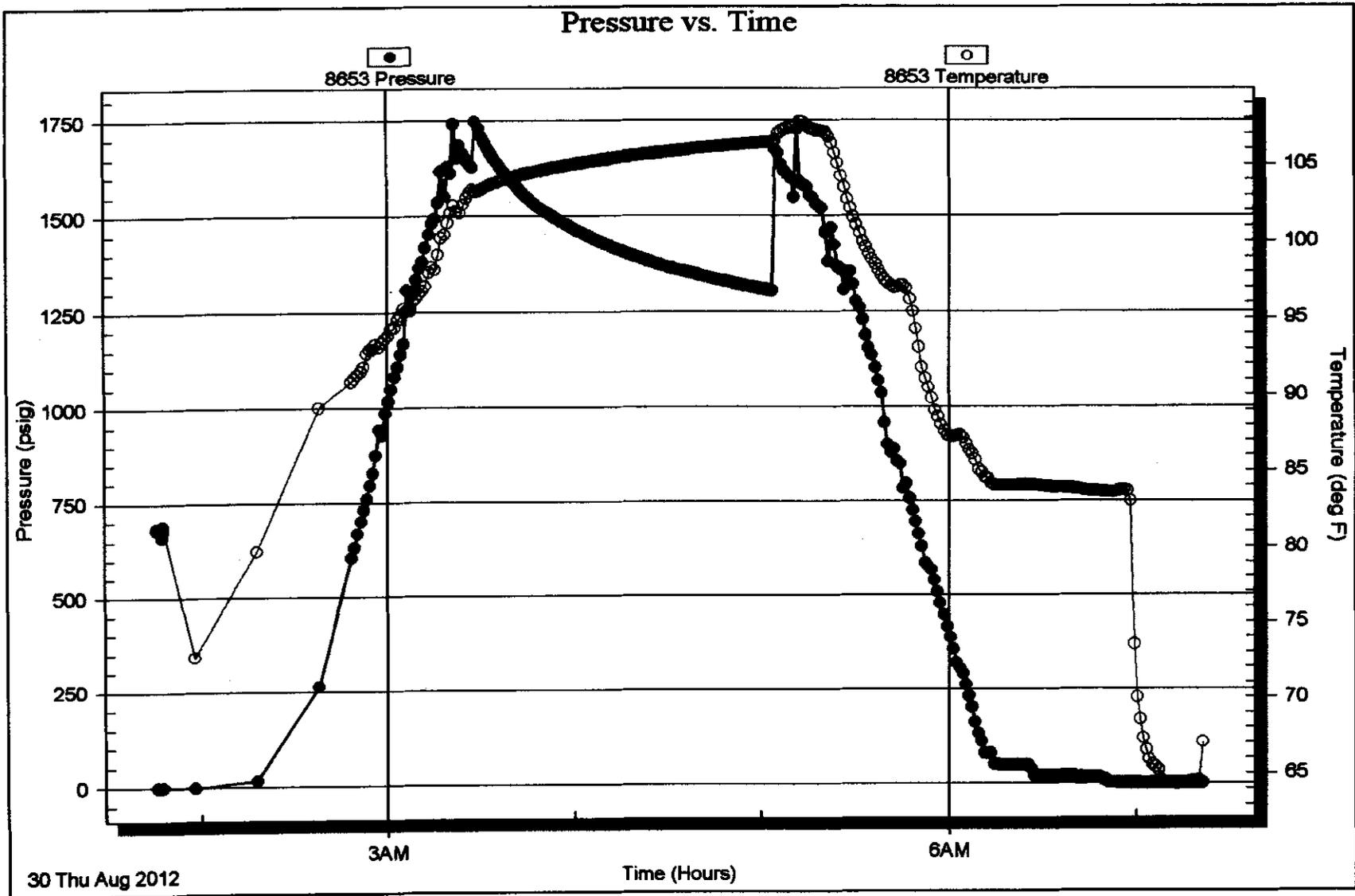


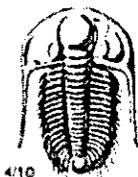
Serial #: 8653

Below (Strat):

Orville #1

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49490

Well Name & No. Orville #1 Test No. 1 Date 8-27-11
 Company VDT, Inc. Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Dienes Rig Southwind 1
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3188-3238 Zone Tested Topeka - Oread
 Anchor Length 50' Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 3183 Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3188 Wt. Pipe Run 0 WL 6.8
 Total Depth 3238 Chlorides 3000 ppm System LCM Z#

Blow Description IF - Weak 1/2 inch blow throughout,
IST - No Return,
FF - No Blow, Flushed Tool, weak surface blow, Dred @ 11 min,
FST - No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%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

Rec Total 40 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1513 Test 1150 T-On Location 0815
 (B) First Initial Flow 33 Jars _____ T-Started 2200
 (C) First Final Flow 37 Safety Joint _____ T-Open 2316
 (D) Initial Shut-In 1004 Circ Sub _____ T-Pulled 0120
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 0245
 (F) Second Final Flow 43 Mileage 17X2 52.7 Comments Bar-2131
 (G) Final Shut-In 961 Sampler _____
 (H) Final Hydrostatic 1480 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1202.70
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1202.70

Approved By _____ Our Representative [Signature]
 Triobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49491

Well Name & No. Owille #7 Test No. 2 Date 8-28-12
 Company TNT, Inc. Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Demes Rig Southwind 2
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3319-3370 Zone Tested LVC "A-C"
 Anchor Length 51' Drill Pipe Run 3332 Mud Wt. 9.0
 Top Packer Depth 3314 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3319 Wt. Pipe Run 0 WL 7.2
 Total Depth 3370 Chlorides 3600 ppm System LCM 2#

Blow Description IF - Weak surface blow. Surging @ 11 minutes.
ISI - No Return.
FF - No Blow. Flushed Tool. Surface blow. Died @ 9 minutes.
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Mud</u>			<u>100</u>	

Rec Total 35 BHT 106 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1594 Test 1150 T-On Location 1215
 (B) First Initial Flow 22 Jars T-Started ~~1215~~ 1300
 (C) First Final Flow 30 Safety Joint T-Open 1435
 (D) Initial Shut-In 950 Circ Sub T-Pulled 1640
 (E) Second Initial Flow 31 Hourly Standby T-Out 1815
 (F) Second Final Flow 38 Mileage 17X2 52.70 Comments BHT-1248
 (G) Final Shut-In 890 Sampler
 (H) Final Hydrostatic 1597 Straddle

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 30 Ruined Packer
 Final Flow 30 Extra Packer
 Final Shut-In 30 Extra Recorder
 Sub Total 0 Total 1202.70
 Day Standby MP/DST Disc
 Accessibility
 Sub Total 1202.70

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49492

Well Name & No.	<u>Osaville #1</u>	Test No.	<u>3</u>	Date	<u>8-30-12</u>
Company	<u>TDI Inc.</u>	Elevation	<u>2034</u>	KB	<u>2027</u>
Address	<u>1310 Bison Rd. Hays, KS 67601</u>				
Co. Rep / Geo.	<u>Herb Demes</u>	Rig	<u>Southwind 1</u>		
Location: Sec.	<u>7</u>	Twp.	<u>15S</u>	Rge.	<u>19W</u>
		Co.	<u>ELLIS</u>	State	<u>KS</u>

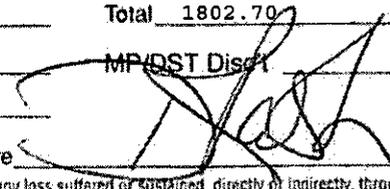
Interval Tested	<u>3362-3382</u>	Zone Tested	<u>LKC "D"</u>
Anchor Length	<u>20' 325' TP</u>	Drill Pipe Run	
Top Packer Depth	<u>3357</u>	Drill Collars Run	<u>0</u>
Bottom Packer Depth	<u>3362</u>	Wt. Pipe Run	<u>0</u>
Total Depth	<u>3707</u>	Chlorides	<u>3600</u> ppm System LCM <u>2#</u>

Blow Description TF - Strong building blow, BOB in 4 minutes,
ISI - No Return.
FF - Strong blow, BOB in 15 seconds,
FBI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Cassy Oil</u>	<u>40</u>	<u>60</u>		
<u>57</u>	<u>HOCM</u>		<u>40</u>		<u>60</u>
Rec	Feet of	%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

Rec Total	<u>97</u>	BHT	<u>109</u>	Gravity	<u>41</u>	API RW	@	F Chlorides	ppm
(A) Initial Hydrostatic	<u>1691</u>	<input checked="" type="checkbox"/>	Test	<u>1150</u>	T-On Location	<u>0100</u>			
(B) First Initial Flow	<u>27</u>	<input type="checkbox"/>	Jars		T-Started	<u>0145</u>			
(C) First Final Flow	<u>34</u>	<input type="checkbox"/>	Safety Joint		T-Open	<u>0331</u>			
(D) Initial Shut-In	<u>1080</u>	<input type="checkbox"/>	Circ Sub		T-Pulled	<u>0505</u>			
(E) Second Initial Flow	<u>38</u>	<input type="checkbox"/>	Hourly Standby		T-Out	<u>0715</u>			
(F) Second Final Flow	<u>50</u>	<input checked="" type="checkbox"/>	Mileage	<u>17X2</u> 52.70	Comments	<u>BATT-0145</u>			
(G) Final Shut-In	<u>1070</u>	<input type="checkbox"/>	Sampler						
(H) Final Hydrostatic	<u>1667</u>	<input checked="" type="checkbox"/>	Straddle	<u>600</u>	<input type="checkbox"/>	Ruined Shale Packer			

Initial Open	<u>15</u>	<input type="checkbox"/>	Shale Packer		<input type="checkbox"/>	Ruined Packer
Initial Shut-In	<u>30</u>	<input type="checkbox"/>	Extra Packer		<input type="checkbox"/>	Extra Copies
Final Flow	<u>15</u>	<input type="checkbox"/>	Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>30</u>	<input type="checkbox"/>	Day Standby		Total	<u>1802.70</u>
		<input type="checkbox"/>	Accessibility		MP/DST Disc 1	
		Sub Total	<u>1802.70</u>			

Approved By _____ Our Representative 

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