



KANSAS CORPORATION COMMISSION 1153135  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1153135

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **Damar Resources INC**

PO box 70,  
Hays KS, 67601

ATTN: Randy Killian

### **Runway Unit #1**

#### **33-13s-16w Ellis,KS**

Start Date: 2013.05.28 @ 23:04:00

End Date: 2013.05.29 @ 06:02:15

Job Ticket #: 53901                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.05 @ 08:39:56

Damar Resources INC  
33-13s-16w Ellis,KS  
Runway Unit #1  
DST # 1  
Tor - LKC "B"  
2013.05.28



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Damar Resources INC

**33-13s-16w Ellis,KS**

PO box 70,  
Hays KS, 67601

**Runway Unit #1**

ATTN: Randy Killian

Job Ticket: 53901

**DST#: 1**

Test Start: 2013.05.28 @ 23:04:00

## GENERAL INFORMATION:

Formation: **Tor - LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:38:30

Time Test Ended: 06:02:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 43

**Interval: 3150.00 ft (KB) To 3240.00 ft (KB) (TVD)**

Reference Elevations: 1961.00 ft (KB)

Total Depth: 3240.00 ft (KB) (TVD)

1956.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6799**

**Inside**

Press @ RunDepth: 88.48 psig @ 3220.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.28

End Date:

2013.05.29

Last Calib.:

2013.05.29

Start Time: 23:04:05

End Time:

06:02:14

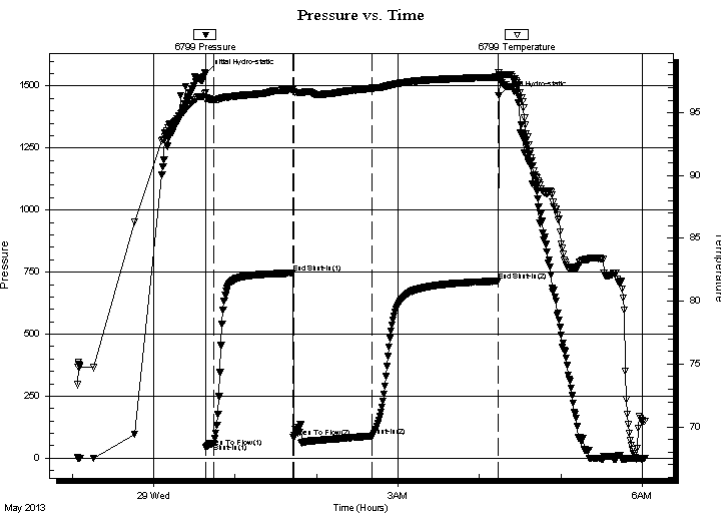
Time On Btm:

2013.05.29 @ 00:38:15

Time Off Btm:

2013.05.29 @ 04:14:15

**TEST COMMENT:** 05 - IF- 1" blow  
60 - IS- No return  
60 - FF- 7" blow  
90 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.60	96.58	Initial Hydro-static
1	44.50	95.99	Open To Flow (1)
6	58.83	96.04	Shut-In(1)
64	745.36	96.82	End Shut-In(1)
65	82.17	96.66	Open To Flow (2)
123	88.48	96.95	Shut-In(2)
216	713.76	97.83	End Shut-In(2)
216	1461.75	98.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
112.00	GSOCM, 5%O, 15%G, 80%M	1.30

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Damar Resources INC

**33-13s-16w Ellis,KS**

PO box 70,  
Hays KS, 67601

**Runway Unit #1**

Job Ticket: 53901

**DST#: 1**

ATTN: Randy Killian

Test Start: 2013.05.28 @ 23:04:00

## Tool Information

Drill Pipe:	Length: 3107.00 ft	Diameter: 3.80 inches	Volume: 43.58 bbl	Tool Weight: 2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 43.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3150.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	114.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3127.00	
Shut In Tool	5.00			3132.00	
Hydraulic tool	5.00			3137.00	
Safety Joint	3.00			3140.00	
Packer	5.00			3145.00	24.00 Bottom Of Top Packer
Packer	5.00			3150.00	
Stubb	1.00			3151.00	
Perforations	5.00			3156.00	
Change Over Sub	1.00			3157.00	
Drill Pipe	62.00			3219.00	
Change Over Sub	1.00			3220.00	
Recorder	0.00	6799	Inside	3220.00	
Recorder	0.00	8648	Inside	3220.00	
Perforations	17.00			3237.00	
Bullnose	3.00			3240.00	90.00 Bottom Packers & Anchor

**Total Tool Length: 114.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Damar Resources INC

**33-13s-16w Ellis,KS**

PO box 70,  
Hays KS, 67601

**Runway Unit #1**

Job Ticket: 53901

**DST#: 1**

ATTN: Randy Killian

Test Start: 2013.05.28 @ 23:04:00

## 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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
112.00	GSOCM, 5%O, 15%G, 80%M	1.298

Total Length: 112.00 ft      Total Volume: 1.298 bbl

Num Fluid Samples: 0

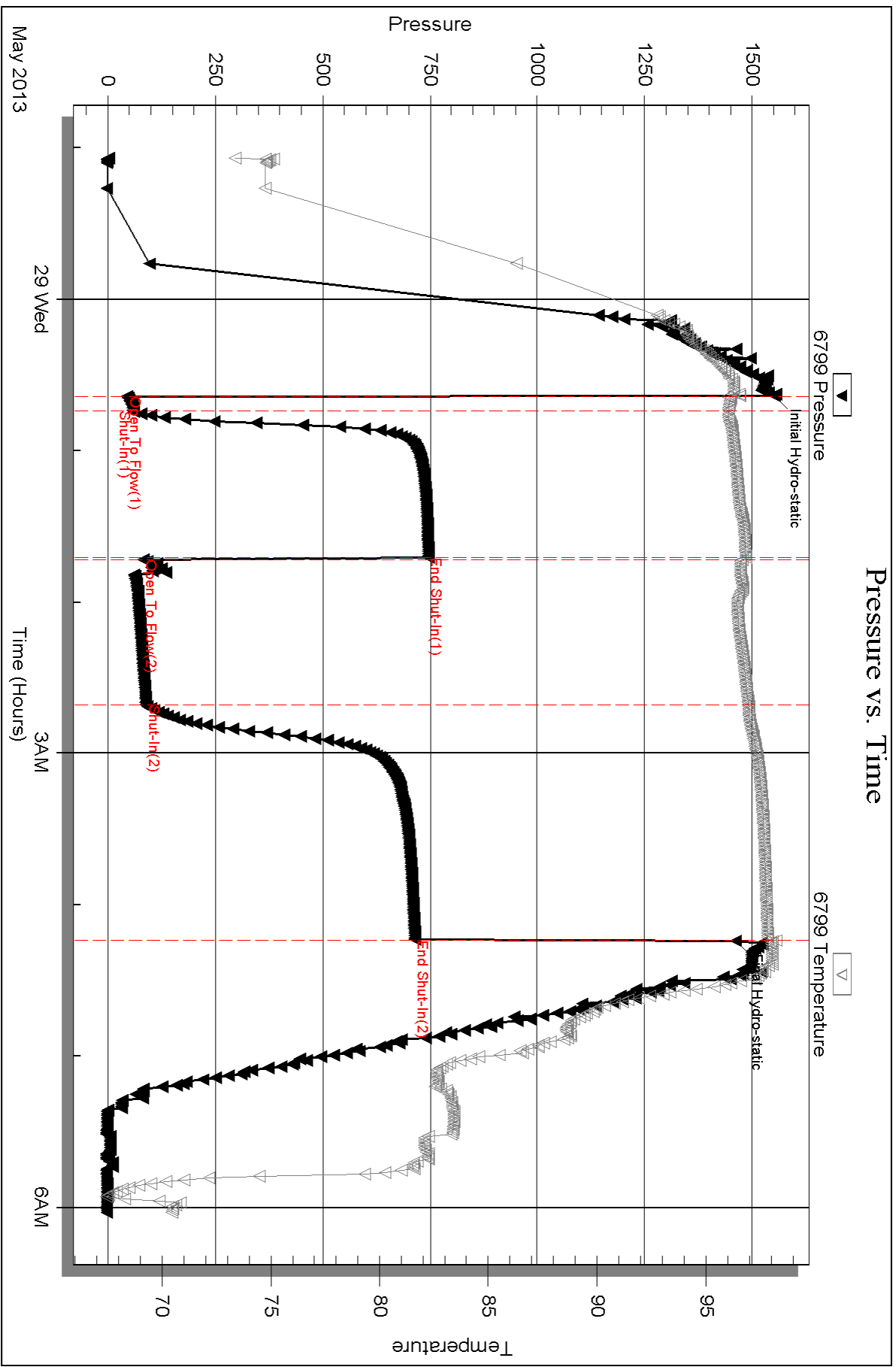
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





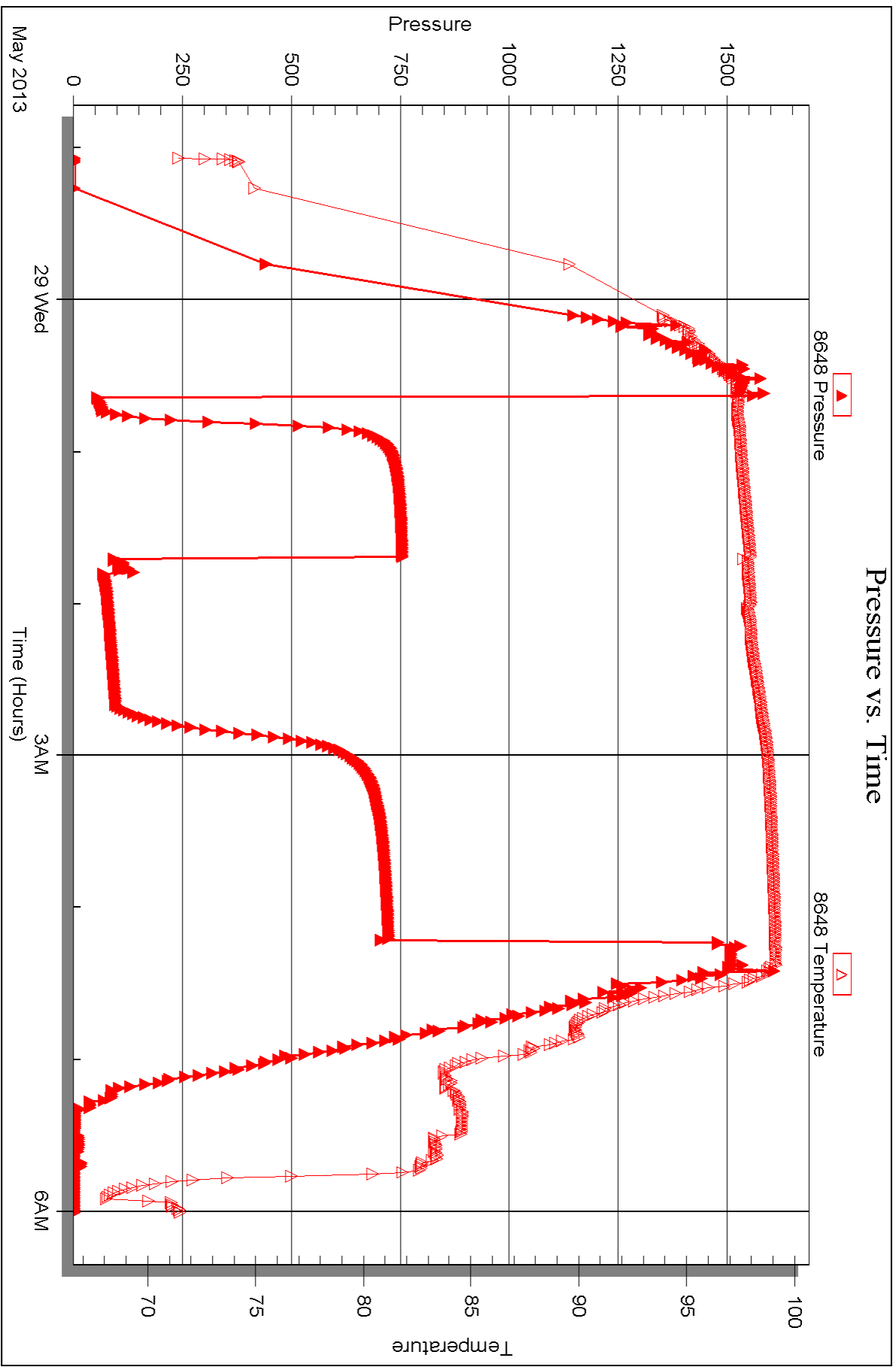
Serial #: 8648

Inside

Damar Resources INC

Runway Unit #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Damar Resources INC**

PO box 70,  
Hays KS, 67601

ATTN: Randy Killian

### **Runway Unit #1**

#### **33-13s-16w Ellis,KS**

Start Date: 2013.05.29 @ 11:35:00

End Date: 2013.05.29 @ 16:51:45

Job Ticket #: 53902                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.05 @ 08:39:06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Damar Resources INC

**33-13s-16w Ellis,KS**

PO box 70,  
Hays KS, 67601

**Runway Unit #1**

ATTN: Randy Killian

Job Ticket: 53902

**DST#: 2**

Test Start: 2013.05.29 @ 11:35:00

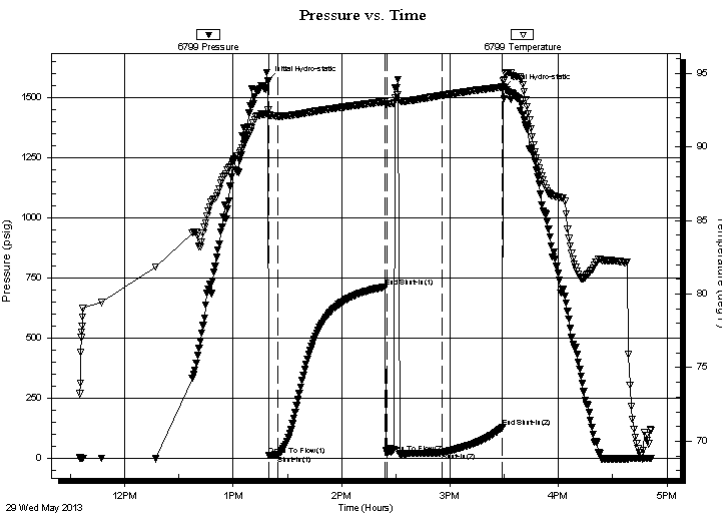
## GENERAL INFORMATION:

Formation: **LKC "C-E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:19:30  
 Time Test Ended: 16:51:45  
 Interval: **3240.00 ft (KB) To 3281.00 ft (KB) (TVD)**  
 Total Depth: 3281.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 43  
 Reference Elevations: 1961.00 ft (KB)  
 1956.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6799 Outside

Press @ RunDepth: 23.38 psig @ 3277.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.29 End Date: 2013.05.29 Last Calib.: 2013.05.29  
 Start Time: 11:35:05 End Time: 16:51:44 Time On Btm: 2013.05.29 @ 13:19:15  
 Time Off Btm: 2013.05.29 @ 15:29:30

TEST COMMENT: 05 - IF- Surface blow  
 60 - IS- No return  
 30 - FF- no blow for 5 minutes, flushed tool, surged and died  
 30 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1568.37	92.49	Initial Hydro-static
1	11.64	92.11	Open To Flow (1)
6	12.94	92.09	Shut-In(1)
65	711.22	93.08	End Shut-In(1)
66	17.90	92.96	Open To Flow (2)
97	23.38	93.50	Shut-In(2)
130	127.53	94.07	End Shut-In(2)
131	1536.86	94.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud, show of oil, 100%M	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Damar Resources INC

**33-13s-16w Ellis,KS**

PO box 70,  
Hays KS, 67601

**Runway Unit #1**

Job Ticket: 53902

**DST#: 2**

ATTN: Randy Killian

Test Start: 2013.05.29 @ 11:35:00

## Tool Information

Drill Pipe:	Length: 3200.00 ft	Diameter: 3.80 inches	Volume: 44.89 bbl	Tool Weight: 2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 45.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3240.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	65.00 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
Change Over Sub	1.00			3217.00	
Shut In Tool	5.00			3222.00	
Hydraulic tool	5.00			3227.00	
Safety Joint	3.00			3230.00	
Packer	5.00			3235.00	24.00 Bottom Of Top Packer
Packer	5.00			3240.00	
Stubb	1.00			3241.00	
Perforations	3.00			3244.00	
Change Over Sub	1.00			3245.00	
Drill Pipe	31.00			3276.00	
Change Over Sub	1.00			3277.00	
Recorder	0.00	8648	Inside	3277.00	
Recorder	0.00	6799	Outside	3277.00	
Perforations	1.00			3278.00	
Bullnose	3.00			3281.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Damar Resources INC

**33-13s-16w Ellis,KS**

PO box 70,  
Hays KS, 67601

**Runway Unit #1**

Job Ticket: 53902

**DST#: 2**

ATTN: Randy Killian

Test Start: 2013.05.29 @ 11:35:00

## 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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud, show of oil, 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

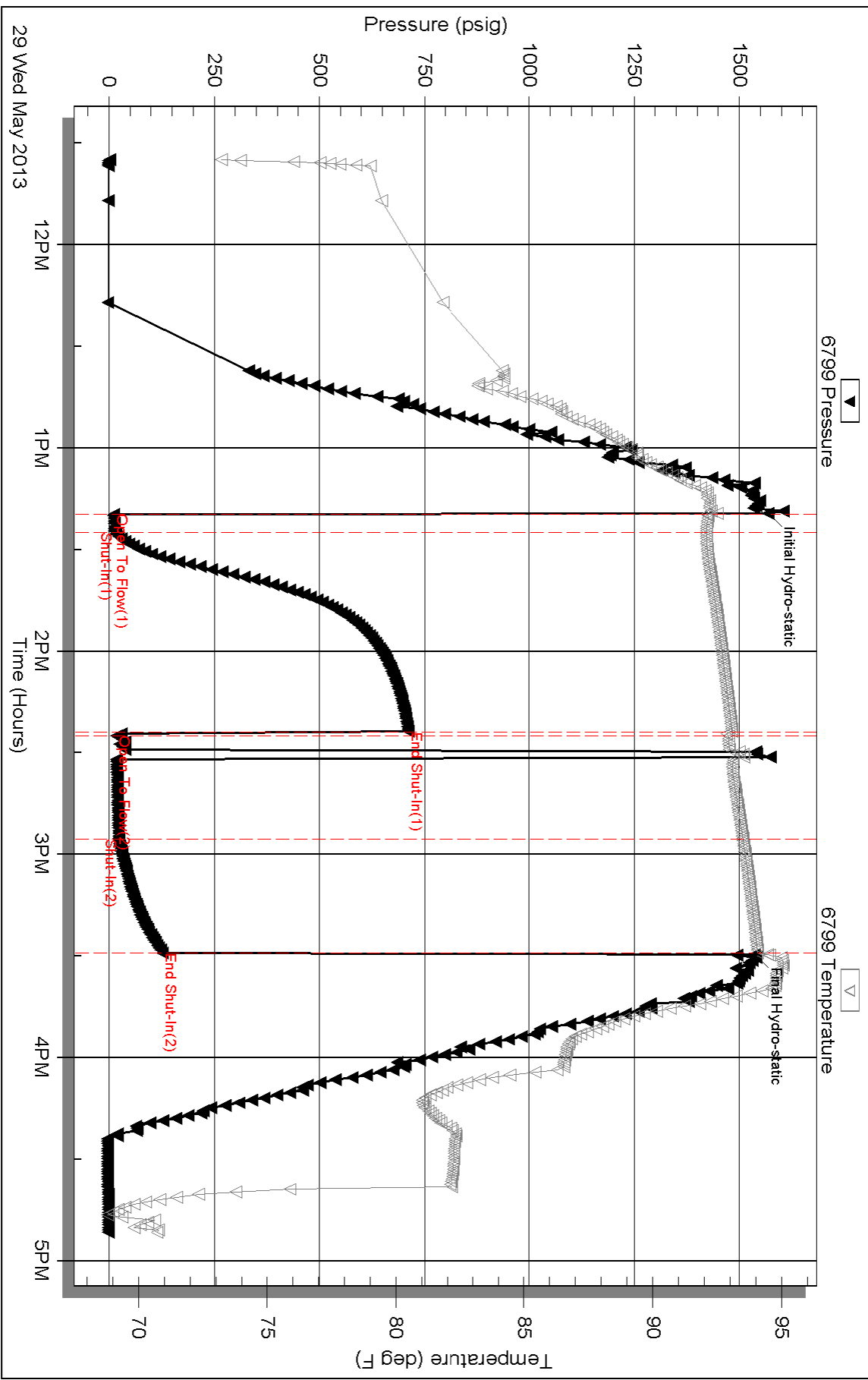
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



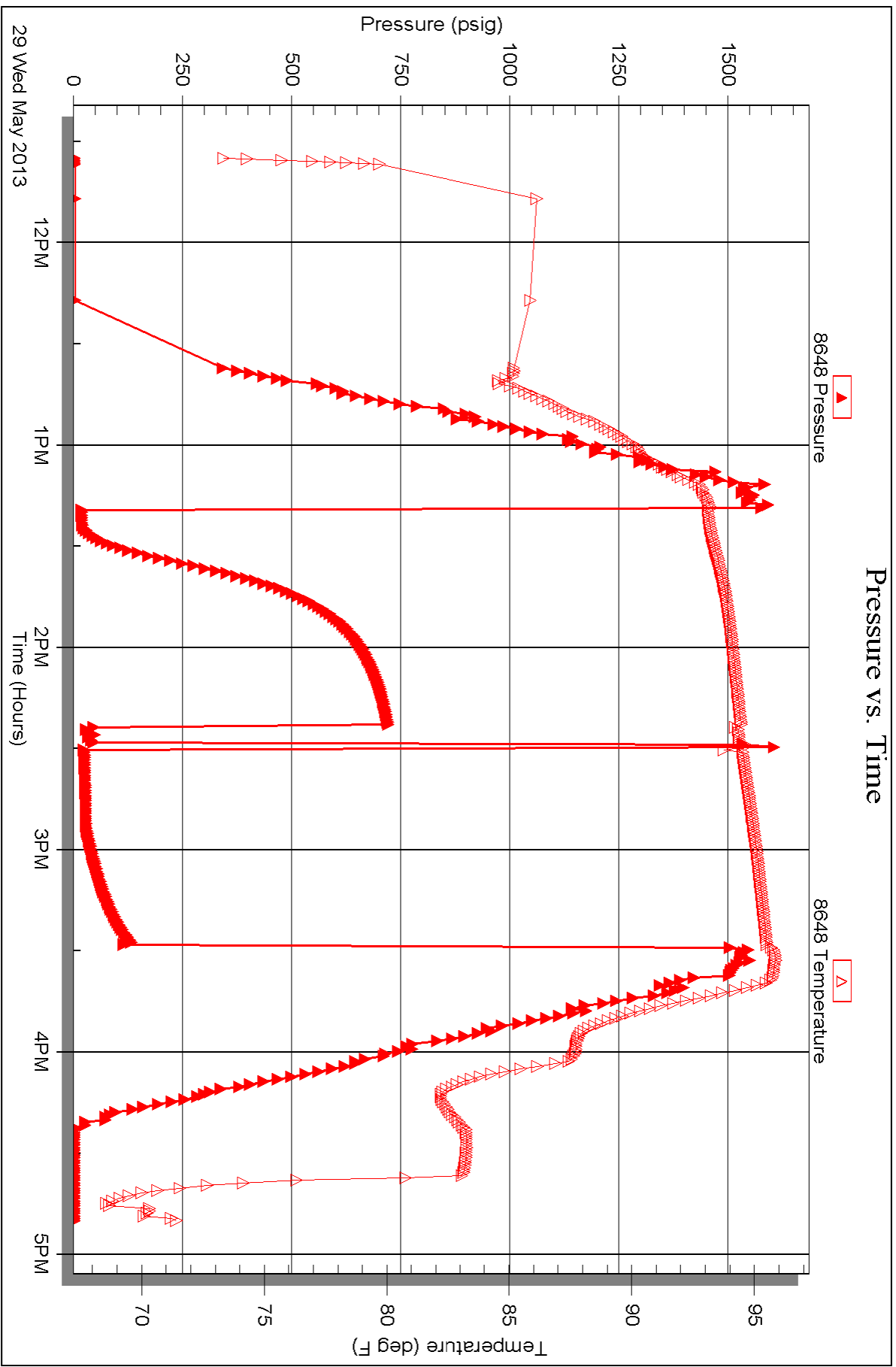
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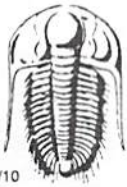
Damar Resources INC

Runway Unit #1

DST Test Number: 2







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53901

Well Name & No. Runway Unit #1 Test No. 1 Date 5-28-13  
 Company Damar Resources Inc Elevation 1961 KB 1956 GL  
 Address Po Box 70, Hays KS, 67601  
 Co. Rep / Geo. \_\_\_\_\_ Rig Murfin 16  
 Location: Sec. 33 Twp. 13S Rge. 16W Co. ELLIS State KS

Interval Tested 3150 - 3240 Zone Tested Tor - LKC "D"  
 Anchor Length 90' Drill Pipe Run 3107 Mud Wt. 8.8  
 Top Packer Depth 3145 Drill Collars Run 30 Vis 65  
 Bottom Packer Depth 3150 Wt. Pipe Run — WL 7.6  
 Total Depth 3240 Chlorides 1500 ppm System LCM —

Blow Description IF - 1" blow  
ISI - No return  
FF - 7" blow  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>112</u>	<u>GSOCM</u>	<u>15</u>	<u>5</u>	<u>80</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 112' BHT 97° Gravity — API RW — @ — °F Chlorides — ppm

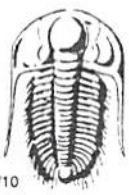
(A) Initial Hydrostatic <u>1551</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:01 pm</u>
(B) First Initial Flow <u>44</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:04 pm</u>
(C) First Final Flow <u>58</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:39 am</u>
(D) Initial Shut-In <u>745</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>4:14 am</u>
(E) Second Initial Flow <u>82</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:03 am</u>
(F) Second Final Flow <u>88</u>	<input checked="" type="checkbox"/> Mileage <u>39 RT</u> 60.45	Comments _____
(G) Final Shut-In <u>713</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1461</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____

Initial Open 05  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Sub Total 1285.45

Approved By \_\_\_\_\_ Our Representative Cody Blak

Trilobite Testing Inc. shall not be liable for damaged of 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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53902

Well Name & No. Runway Unit #1 Test No. 2 Date 5-29-13  
 Company Damar Resources INC Elevation 1961 KB 1956 GL  
 Address Po Box 70, Hays KS, 67601  
 Co. Rep / Geo. Randy Killian Rig Murfin 16  
 Location: Sec. 33 Twp. 13s Rge. 16w Co. Ellis State KS

Interval Tested 3240 - 3281 Zone Tested "C-E"  
 Anchor Length 41' Drill Pipe Run 3200 Mud Wt. 8.8  
 Top Packer Depth 3235 Drill Collars Run 30 Vis 65  
 Bottom Packer Depth 3240 Wt. Pipe Run — WL 7.6  
 Total Depth 3281 Chlorides 1500 ppm System LCM —

Blow Description IF - Surface blow  
ISI - No return  
FF - No blow for 5 min. Flushed tool, Surged & died.  
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud-show of oil</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 5' BHT 94° Gravity — API RW — @ —°F Chlorides — ppm

(A) Initial Hydrostatic <u>1568</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11:15am</u>
(B) First Initial Flow <u>11</u>	<input type="checkbox"/> Jars	T-Started <u>11:35am</u>
(C) First Final Flow <u>12</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1:20pm</u>
(D) Initial Shut-In <u>711</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>3:25pm</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:53pm</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>39 RT X 2</u> 120.90	Comments <u>Loaded tools: 5-30-13</u>
(G) Final Shut-In <u>127</u>	<input type="checkbox"/> Sampler	<u>@ 11:00am</u>
(H) Final Hydrostatic <u>1536</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1345.90</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't <u>—</u>
	Sub Total <u>1345.90</u>	

Initial Open 05  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative Cody Blank

Trilobite Testing Inc. shall not be liable for damaged of 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.

Randall Kilian Corporation  
Geologist



**Certified Petroleum  
Geologist #3351  
License #224**

P.O. Box 26  
Hays, Kansas 67601-0026  
Phone: 785-628-6061  
Cell: 785-635-1349

## GEOLOGIST'S WELL REPORT

COMPANY DAMAR RESOURCES, INC (9067)

WELL Runway Unit #1

FIELD Wildcat

LOCATION (legal) Ap. S $\frac{1}{2}$  N $\frac{1}{2}$  N $\frac{1}{2}$  NE  
(517' FNL & 1320' FEL)

Section 33 TWP 13S RGE 16W

(Map) 1 mi W & 1 $\frac{1}{2}$  mi N of Walker, Ks.

COUNTY Ellis STATE Kansas

ELEVATION: 1961' K.B., 1956' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26537

GEOLOGY BY Randall Kilian

## PERTINENT WELL DATA

CONTRACTOR Murfin Drilling Co., Inc. (30606)

RIG #16 HYDRAULICS D-375 6x14x60  
(Andy Dinkel TP)

DRILL PIPE 4 $\frac{1}{2}$ " X-H COLLARS 6 $\frac{1}{2}$ " 17 (505')

CASING: SURFACE 8 5/8" @ 262' w/ 160 sx Common

PRODUCTION 5  $\frac{1}{2}$ " @ 3497' w/ 145 sx EA2  
PC in Anhy.

DRILLING FLUID: COMPANY Andy's Mud & Chemical Co.  
(Brandon Mendez)

TYPE: Chemical

REMARKS: Full service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc.  
(Cody Bloedorn)

NUMBER OF TESTS Two (2)

ELECTIC LOGS: COMPANY Pioneer Energy Services

DETAIL (5") 2850' - RTD

TYPE RAG

DRILLING TIME FROM 2850' TO RTD

SAMPLE TIME FROM 2850' TO RTD

SUPERVISION FROM 2850' TO RTD

VERTICAL DEVIATION  $\frac{1}{2}$ " @ 263',  $\frac{1}{2}$ " @ 1782',  $\frac{1}{2}$ " @ 3240'

PLUGGING REPORT 30 sx Rat. 15 sx Mouse

RESERVE PIT 600 bbls., Chl. 51,000 Ca 800

DATE:

5-25

5-26

5-27

5-28

5-29

5-30

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# DAILY REPORT

DATE: 7 a.m. Depth RIG ACTIVITY

5-25-13 MIRT, Spud  
 5-26-13 493' Drilling under surface  
 5-27-13 2040' Drilling shale & sand  
 5-28-13 2930' Drilling Topeka lime  
 5-29-13 3240' DST #1 Top-IKc R  
 5-30-13 3500' TD, Logging, Run casing

## DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISF/TIME	FF/TIME	FSF/TIME	HP/IFP	RECOVERY
1	Top-B 3150- 3240'	44# 58# 5"	7'45# 60"	82# 88# 60"	7'15# 90"	1551# 1461#	112" G.O.C, Mud 5% O
2	IKc G-E 3240- 3281'	11# 12# 5"	7'11# 60"	17# 25# 30"	127# 30"	1568# 1536#	5' Mud w/ s.o.
3							
4							
5							
6							
7							
8							

## MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	2732'					
2	2960'	8.8	71			
3	3006'	8.8	65	7.6	1.5k	20
4	3140'	8.9	64			
5	3281'	8.8	64	8.0	1.5k	22
6	3325'	8.9	63			
7	3410'	9.0	55			
8						
9						
10						
11						

Displaced  
 LCM 2 1/2#  
 LCM 1# \$7448

## BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH-OUT	FEET	HOURS
1	12 1/2"	Smith	FDS	263'	263'	3 1/4
2	7 7/8"	HTCo.	Qx20C	3500'	3237'	70
3						
4						
5						
6						
7						

FORMA

T 13 S

STRATIGRA  
 MARKERS

- Abhydritk
- Base
- Topeka
- Heeb. Sn
- Toronto
- Lansing
- BKc.
- Cong.
- Artouckle
- TD
- No pipe

\*Structural

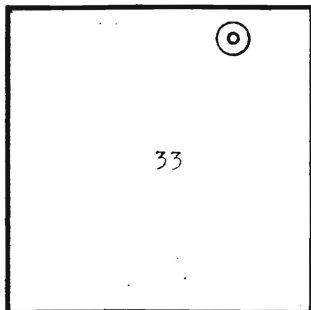
# FORMATION TOPS & STRUCTURAL GEOLOGY

R 16 W

REFERRED TO:

- A: DAMAR RESOURCES, INC.  
Karlin #2 SE NE SW 28
- B: \_\_\_\_\_
- C: \_\_\_\_\_
- D: \_\_\_\_\_
- E: \_\_\_\_\_

T  
13  
S



STRATIGRAPHIC MARKERS	SUBJECT WELL			STRUCTURAL POSITION				
	SAMPLE	E. LOG	DATUM	A	B	C	D	E
Anhydrite	1069'	1062'	+ 899	+ 896				
Base	1106'	1100'	+ 861	+ 857				
Topeka	2934'	2929'	- 968	- 968				
Heeb. Sh.	3155'	3150'	-1189	-1188				
Toronto	3176'	3169'	-1208	-1205				
Lansing	3203'	3198'	-1237	-1235				
BKc.	3438'	3434'	-1473	-1469				
Cong.	3453'	3451'	-1490	-1486				
Arbuckle	--	--	--	-1538				
TD	3500'	3498'	-1539	-1604				

No pipe strap; too windy.

\*Structural position of subject well as compared to referred well.

# SUMMARY

The Runway Unit #1 well was drilled with Murfin Drilling tools rig #16 beginning May 25, 2013 and drilling was completed May 30, 2013.

The drillsite was located via a 3-D seismic survey. The well ran a bit low structurally to a recently drilled DaMar Karlin #2 well to the northwest.

Oil shows were encountered in several upper LKc zones. LKc zones locally don't give up much fluid on DST's. Two DST's were run with DST #1 a positive test.

Based upon all data, casing was set and cemented to further test and produce the well.

Recommended perfs; LKc B 3225-31', Toronto 3173-76', later G 3292-98'.

Respectfully,

*Randy*

Randall Kilian

REMARKS

LITHOLOGY (LAGGED)

& SHOWS  
POOR  
FAIR  
GOOD  
DST

DRILLING TIME (min/ft)  
1/2 1 2 3 4 5678910

ANH. 75

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

6822

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No.

Date	5-25-13	Sec.	33	Twp.	13	Range	16	County	Ellis	State	Ks	On Location		Finish	6:00PM				
Lease	Run way							Well No.	1	Location Walker, Ks - W to Cemetery									
Contractor	Martin #16							Owner	Cemetery, 1W, 2N, W into										
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	12 1/4"		T.D.	263'		Charge To	Damar Resources												
Csg.	8 3/8"		Depth	262'		Street													
Tbg. Size			Depth			City	State												
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.													
Cement Left in Csg.	15'		Shoe Joint	15'		Cement Amount Ordered	160 Common 3%CC												
Meas Line			Displace	15 1/2 BLS		2%Gel													
<b>EQUIPMENT</b>													Common	160					
Pumptrk	15	No.	Cementer	Nick		Helper										Poz. Mix			
Bulktrk	10	No.	Driver	David		Driver										Gel.	3		
Bulktrk	p.u.	No.	Driver	Rick		Driver										Calcium	5		
<b>JOB SERVICES &amp; REMARKS</b>													Hulls						
Remarks:	Cement did Circulate.							Salt											
Rat Hole								Flowseal											
Mouse Hole								Kol-Seal											
Centralizers								Mud CLR 48											
Baskets								CFL-117 or CD110 CAF 38											
D/V or Port Collar								Sand											
								Handling	168										
								Mileage											
<b>FLOAT EQUIPMENT</b>																			
								Guide Shoe											
								Centralizer											
								Baskets											
								AFU Inserts											
								Float Shoe											
								Latch Down											
								Pumptrk Charge											
								Mileage	13										
								Tax											
								Discount											
								Total Charge											
X Signature	A. E. L. L.																		



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7261

Date	7-11-13	Sec.	33	Twp.	3	Range	16	County	Ellis	State	KS	On Location		Finish	2:30 PM
------	---------	------	----	------	---	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Location Walker N to Cemetery 1W 1N 1/2 W

Lease	Runway	Well No.	1	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Express			Charge To	Dumar Resources
Type Job	Plug	T.D.	3500	Street	
Hole Size	7 7/8	Depth	1647'	City	State
Csg.	5 1/2	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	275 60/40 4% Gel 1/4 Floz 500h
Tool		Depth		Meas Line	235 60/40 4% Gel 1/4 Floz 400 h
Cement Left in Csg.		Shoe Joint		EQUIPMENT	

Pumptrk	5	No.	Cementer		Common	141
			Helper	Matt	Poz. Mix	94
Bulktrk	10	No.	Driver		Gel.	8
			Driver	Doug	Calcium	
Bulktrk	PU	No.	Driver		Hulls	400 #
			Driver	Brett	Salt	

JOB SERVICES & REMARKS				Flowseal
Remarks:				Kol-Seal
Rat Hole				Mud CLR 48
Mouse Hole				CFL-117 or CD110 CAF 38
Centralizers				Sand
Baskets				Handling
D/V or Port Collar				Mileage
1st @ 1647'	125sx	300	hulls	
2nd @ 1100'	40sx	100	hulls	

FLOAT EQUIPMENT				
3rd @ 210'	50sx			Guide Shoe
Top off and filled collar	20sx			Centralizer
				Baskets
				AFU Inserts
				Float Shoe
				Latch Down

Pumptrk Charge	plug	
Mileage	14	
		Tax
		Discount
		Total Charge
X Signature	Ann Wearden	