



KANSAS CORPORATION COMMISSION 1125966  
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: \_\_\_\_\_



1125966

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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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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# 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. 6118

Date	12-12-12	Sec.	9	Twp.	15	Range	18	County	Ellis	State	Ks	On Location		Finish	7:00 PM
Lease	Madden R+C			Well No.	#3			Location	Hay's, Ks - S to Norfolk Rd,						
Contractor	Royal #1			Owner	1/2 W, 1/2 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.	206'			Charge To	Charter Energy						
Csg.	8 5/8"			Depth	206'			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	150 sx Common 3% CC						
Meas Line	Displace			12 BLS			206el								
<b>EQUIPMENT</b>															
Pumptrk	16	No.		Cementer	Travis			Common	150						
Bulktrk	1	No.		Helper	Lorraine			Poz. Mix							
Bulktrk	p.u.	No.		Driver	Rick			Gel.	3						
				Driver				Calcium	5						
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:	Cement did Circulate														
Rat Hole	Salt														
Mouse Hole	Flowseal														
Centralizers	Kol-Seal														
Baskets	Mud CLR 48														
D/V or Port Collar	CFL-117 or CD110 CAF 38														
	Sand														
	Handling 158														
	Mileage														
<b>FLOAT EQUIPMENT</b>															
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge Surface														
	Mileage 8														
	Tax														
	Discount														
X Signature	Doug Budenz														
	Total Charge														





CHARGE TO: Charter Energy  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
 No. 22970

PAGE 1 OF 2

SERVICE LOCATIONS

1. <u>Hays Ks</u>	WELL/PROJECT NO. <u>3</u>	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
2. <u>Ness City</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	<u>Madden R+C</u>	<u>KS</u>		<u>12-18-12</u>	
3.	WELL TYPE	WELL CATEGORY	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
4. REFERRAL LOCATION	<u>Oil</u>	<u>Develop</u>	<u>Ellis</u>	<u>GT</u>	<u>Location</u>		
	INVOICE INSTRUCTIONS	JOB PURPOSE			WELL PERMIT NO.	WELL LOCATION	
		<u>5 1/2 Long String</u>				<u>See 9 map 15 R 18w</u>	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #112	10	m			6.00	60.00
578					Pump Charge Long String	1	ea			1500.00	1500.00
221					Liquid KCL	2	gal			25.00	50.00
281					MudFlush	500	gal			1.25	625.00
290					O-Air	2	gal			35.00	70.00
402					Centralizer	7	ea			70.00	490.00
403					Lement Basket	2	ea			250.00	500.00
404					Port Collar @ 1209'	1	ea			2400.00	2400.00
406					Latch Down Plug + Baffle	1	ea			250.00	250.00
407					Insect Float Shoe w/ Huro Fill	1	ea			350.00	350.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 12-18-12 TIME SIGNED 1800  A.M.  P.M.

X [Signature]

**REMIT PAYMENT TO:**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

**SURVEY**

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	P1	6295.00
TOTAL	P2	4388.50
TOTAL		11,213.17

Subtotal 10,683.50  
 ELLIS TAX 603.00  
 529.67

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL

Thank You!





PO Box 466  
 Ness City, KS 67560  
 Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 22970

CUSTOMER Charter Energy  
 WELL Madden R+C #3  
 DATE 12-18-12  
 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		UNIT PRICE		AMOUNT		
		LOC	ACCT	DF			QTY.	UM	QTY.	UM			
325		2				Standard Cement EA-2	175	SKS	13	SD	2362	50	
276		2				Flcele	SD	Lbs	2	SD	100	SD	
283		2				Salt	900	Lbs		20	180	SD	
284		2				Calseal	8	SKS	35	SD	280	SD	
288		2				Halad-1	100	Lbs	7	SD	750	SD	
581		2				SERVICE CHARGE			2	SD	350	SD	
583		2				MILEAGE CHARGE			1	SD	366	SD	
							TOTAL WEIGHT	18300	LOADED MILES	40	CUBIC FEET	175 SKS	
							TOTAL MILES	366.00					
CONTINUATION TOTAL												4388.50	



**JOB LOG**

**SWIFT Services, Inc.**

DATE 12-15-12 PAGE NO.

CUSTOMER *Charter* WELL NO. *3* LEASE *Madden R+C* JOB TYPE *5 1/2 long string* TICKET NO. *22920*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600	<del>1600</del>						on location circulating on bottom with Bit TD 3617 SS 20.30 TP 3605 Insert 3585 PC 1209 sup #76 5 1/2 14" used Centralizers 1, 3, 5, 7, 9, 11, 75 Baskets 9, 76
	2055							Start 5 1/2 casing
	2300							Drop Ball circulate
	2330		7/5					Plug RH 30 SKs, MH 20 SKs
	2355		12	✓	✓			Start Mudflush
			20		✓			Start KCL flush
	0012		30		✓			Start Cement 125 SKs
	0015							Drop Plug
								Wash out Pump + Lines
	0020	7					600	Displace Plug
	0030	7	87.4		✓		1500	Land Plug
								Release
								wash up / Rack up
	0115							Job Complete Thank You Josh, Roger, Jon, Rob





CHARGE TO: Charter Energy  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET No **23026**  
 PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Hays, KS WELL/PROJECT NO. # 3 LEASE Madden COUNTY/PARISH Ellis STATE KS DATE 12-26-12 OWNER  
 2. Ness City, K CONTRACTOR PPS RIG NAME/NO. \_\_\_\_\_ ORDER NO. 5992  
 3. \_\_\_\_\_ WELL TYPE \_\_\_\_\_ WELL CATEGORY \_\_\_\_\_ JOB PURPOSE Part Collar DELIVERED TO Location WELL PERMIT NO. \_\_\_\_\_  
 4. \_\_\_\_\_ REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS oil development WELL LOCATION \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575					# 111	10	mi	1209	'	1250.00	1250.00
576D					Ramp Charge (Part Collar)	1	ra			35.00	35.00
290					D-Air	2	gal			70.00	140.00
105					Part Collar Tool Rental/Man	1	cy			350.00	350.00
<del>544D</del> 330					SMD Cement	140	bls			16.50	2310.00
276					Flocels	50	#			2.00	100.00
581					Cement Service Charge	125	bls			2.00	250.00
583					Drillage	342	ft			1.00	342.00

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 12-26-12 TIME SIGNED 1:340  A.M.  P.M.

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: [Signature] APPROVAL [Signature]

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  WE UNDERSTOOD AND MET YOUR NEEDS?  OUR SERVICE WAS PERFORMED WITHOUT DELAY?  WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  ARE YOU SATISFIED WITH OUR SERVICE?  CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 4832.00  
 TAX: 6.3%  
 TOTAL: 5010.29

Thank You!



**JOB LOG**

**SWIFT Services, Inc.**

DATE: 12-26-12 PAGE NO. 1

CUSTOMER: Charter Energy WELL NO. # 3 LEASE: Madden JOB TYPE: Port Collar TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							on loc setup Trks
								2 7/8" x 5 1/2" P.C. 1209'
	1030					800		locate P.C. Test Csg to 800 psi Try to open P.C. / won't stay latched in / TOO H w/ Tool Run Swift P.C. opening tool Open P.C.
	1225	3	2			300		Taking rate
	1230	3.5	0			300		Start SMD Cement 140 sks
	1249	3.5	66			150		Circ. cement / Raise weight
	1251	3.5	71/0			150		End Cement / Start Displacement
	1252		6					Cement Displaced
	1257					700		Close P.C. Test Csg to 700 psi
	1315	3	0					Run 5jts Reverse out
	1320		18					Hole Clean
								140 sks SMD Circ 20 sks to pit
								Thank you
								Nick, David E. & Doug





## DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbott

### **Madden R&C #3**

### **9-15s-18w Ellis KS**

Start Date: 2012.12.17 @ 19:50:00

End Date: 2012.12.18 @ 00:31:00

Job Ticket #: 51567                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.19 @ 10:16:15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

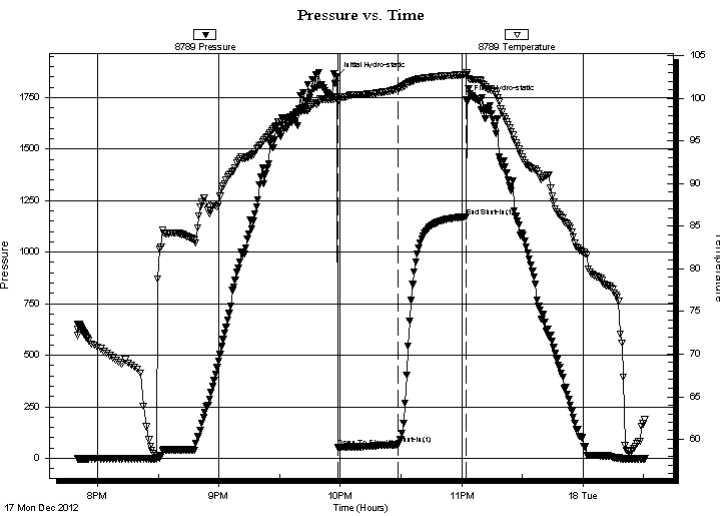
**9-15s-18w Ellis KS**  
**Madden R&C #3**  
 Job Ticket: 51567 **DST#: 1**  
 Test Start: 2012.12.17 @ 19:50:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 21:58:45 Tester: Cody Bloedorn  
 Time Test Ended: 00:31:00 Unit No: 54  
 Interval: **3536.00 ft (KB) To 3614.00 ft (KB) (TVD)** Reference Elevations: 2022.00 ft (KB)  
 Total Depth: 3614.00 ft (KB) (TVD) 2016.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 8789 Outside**  
 Press @ Run Depth: 66.08 psig @ 3606.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.12.17 End Date: 2012.12.18 Last Calib.: 2012.12.18  
 Start Time: 19:50:02 End Time: 00:31:00 Time On Btm: 2012.12.17 @ 21:58:15  
 Time Off Btm: 2012.12.17 @ 23:02:30

TEST COMMENT: 30 - IF- 2 " blow  
 30 - IS- No blow back  
 \* PULLED TOOL AFTER 1ST SHUT IN. \*



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.97	100.22	Initial Hydro-static
1	51.92	99.63	Open To Flow (1)
31	66.08	101.16	Shut-In(1)
64	1172.06	102.79	End Shut-In(1)
65	1741.20	103.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GO, 20%G, 80%O	0.42
15.00	Mud, with spots of oil, 100%M	0.21

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

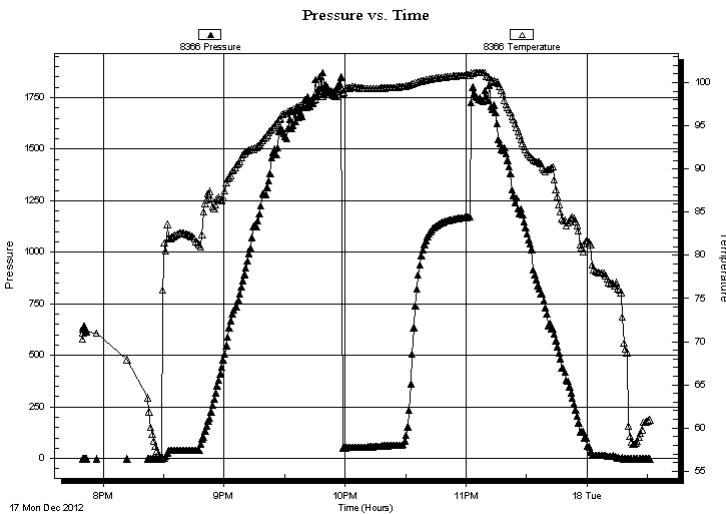
**9-15s-18w Ellis KS**  
**Madden R&C #3**  
 Job Ticket: 51567      **DST#: 1**  
 Test Start: 2012.12.17 @ 19:50:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:58:45  
 Time Test Ended: 00:31:00  
**Interval: 3536.00 ft (KB) To 3614.00 ft (KB) (TVD)**  
 Total Depth: 3614.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Cody Bloedorn  
 Unit No: 54  
 Reference Elevations: 2022.00 ft (KB)  
 2016.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 8366 Inside**  
 Press @ RunDepth: psig @ 3606.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.12.17      End Date: 2012.12.18      Last Calib.: 2012.12.18  
 Start Time: 19:49:47      End Time: 00:31:00      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IF- 2 " blow  
 30 - IS- No blow back  
 \* PULLED TOOL AFTER 1ST SHUT IN. \*



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	GO, 20%G, 80%O	0.42
15.00	Mud, with spots of oil, 100%M	0.21

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy Inc  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

**9-15s-18w Ellis KS**  
**Madden R&C #3**  
 Job Ticket: 51567      **DST#: 1**  
 Test Start: 2012.12.17 @ 19:50:00

**Tool Information**

Drill Pipe:	Length: 3523.00 ft	Diameter: 3.80 inches	Volume: 49.42 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			Total Volume: 49.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3536.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	99.00 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			3516.00	
Shut In Tool	5.00			3521.00	
Hydraulic tool	5.00			3526.00	
Packer	5.00			3531.00	21.00      Bottom Of Top Packer
Packer	5.00			3536.00	
Stubb	1.00			3537.00	
Perforations	5.00			3542.00	
Change Over Sub	1.00			3543.00	
Drill Pipe	62.00			3605.00	
Change Over Sub	1.00			3606.00	
Recorder	0.00	8366	Inside	3606.00	
Recorder	0.00	8789	Outside	3606.00	
Perforations	5.00			3611.00	
Bullnose	3.00			3614.00	78.00      Bottom Packers & Anchor

**Total Tool Length: 99.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Charter Energy Inc  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**9-15s-18w Ellis KS**  
**Madden R&C #3**  
Job Ticket: 51567      **DST#: 1**  
Test Start: 2012.12.17 @ 19:50:00

### Mud and Cushion Information

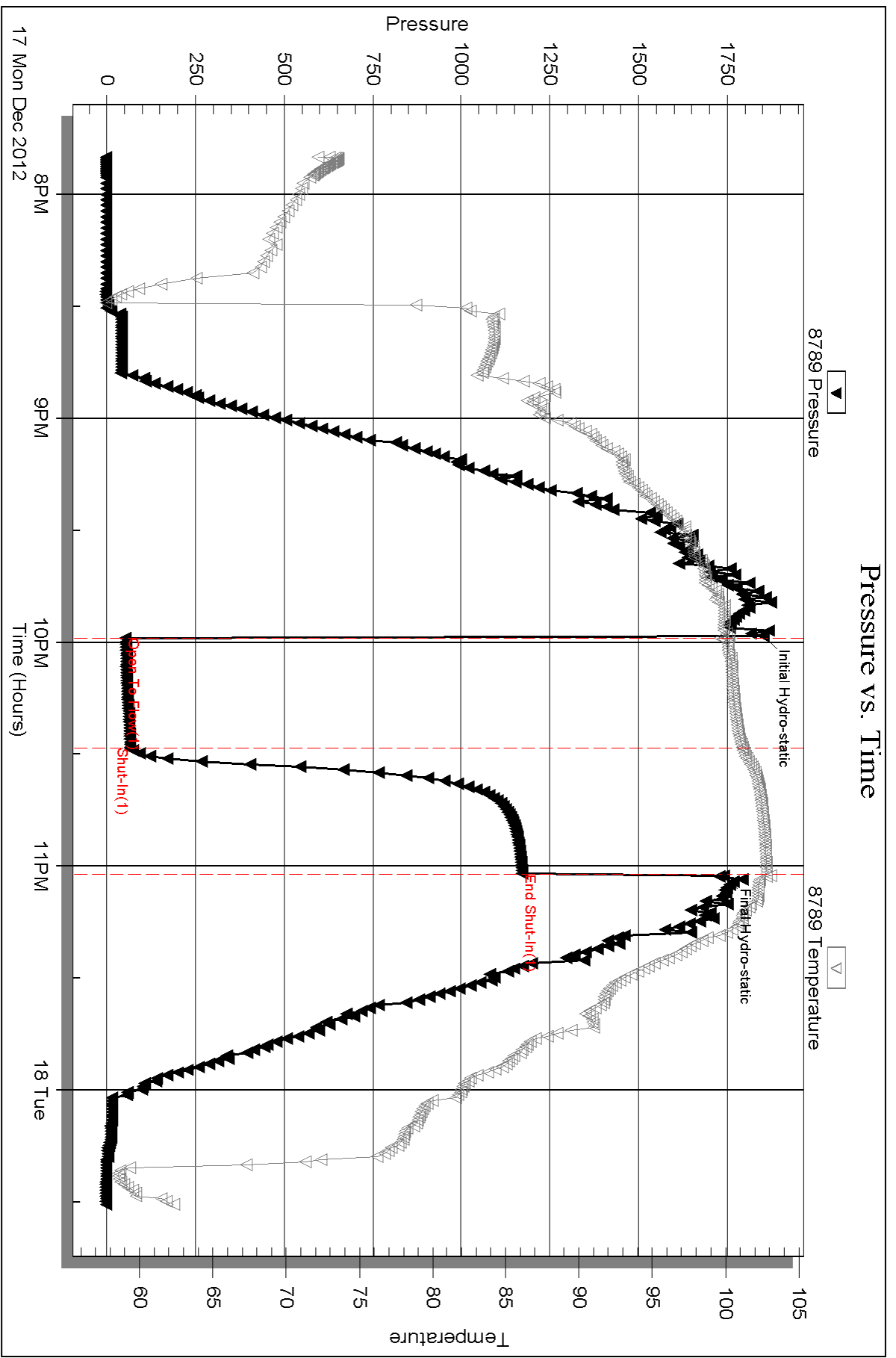
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	GO, 20%G, 80%O	0.421
15.00	Mud, w ith spots of oil, 100%M	0.210

Total Length: 45.00 ft      Total Volume: 0.631 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



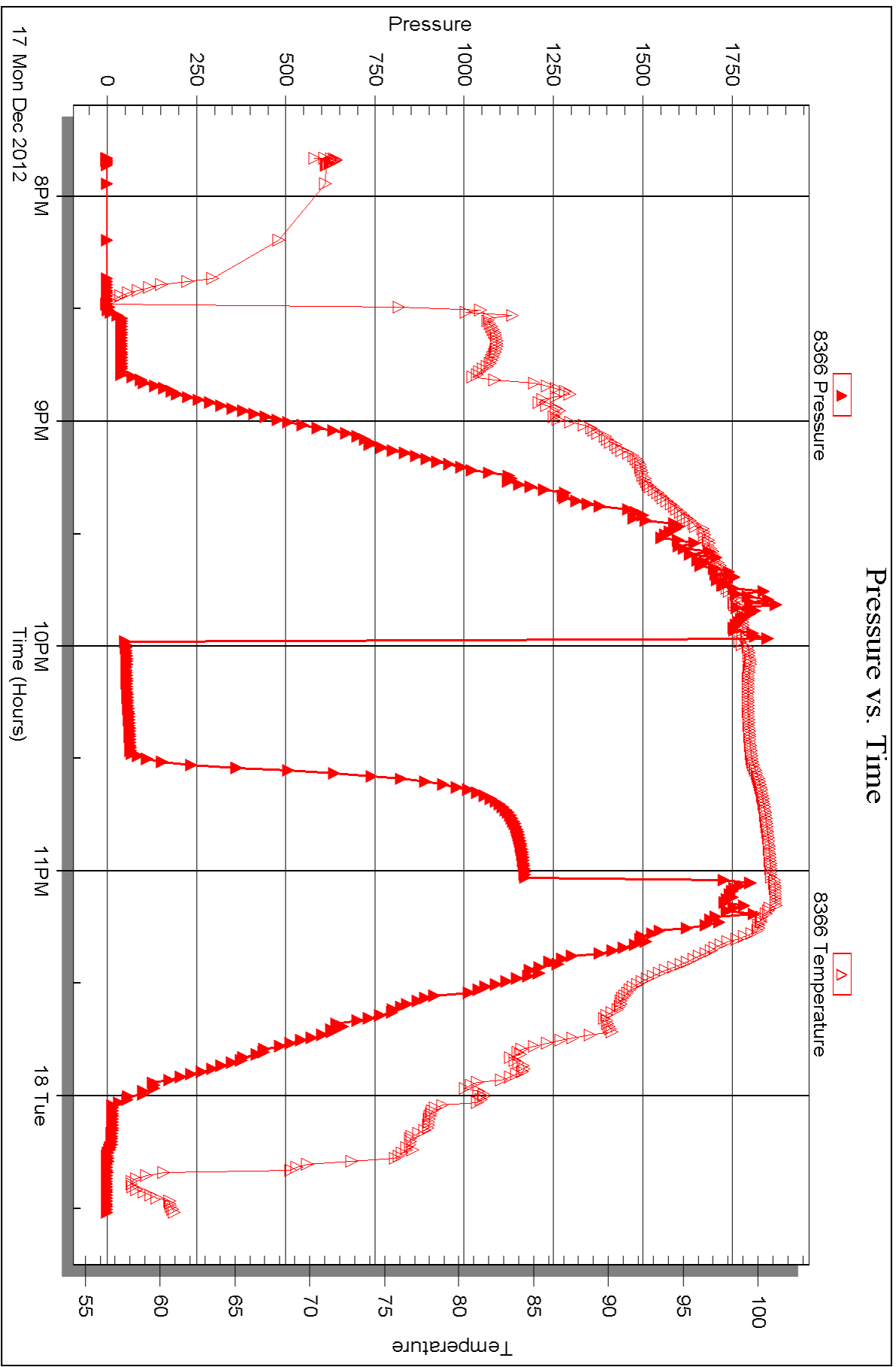
Serial #: 8366

Inside

Charter Energy Inc

Madden R&C#3

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51567

Printed: 2012.12.19 @ 10:16:20





## DRILL STEM TEST REPORT

Prepared For: **Charter Energy Inc**

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbott

### **Madden R&C #3**

### **9-15s-18w Ellis KS**

Start Date: 2012.12.18 @ 05:21:00

End Date: 2012.12.18 @ 12:47:45

Job Ticket #: 51568                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.19 @ 10:15:23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

**9-15s-18w Ellis KS**  
**Madden R&C #3**  
 Job Ticket: 51568 **DST#: 2**  
 Test Start: 2012.12.18 @ 05:21:00

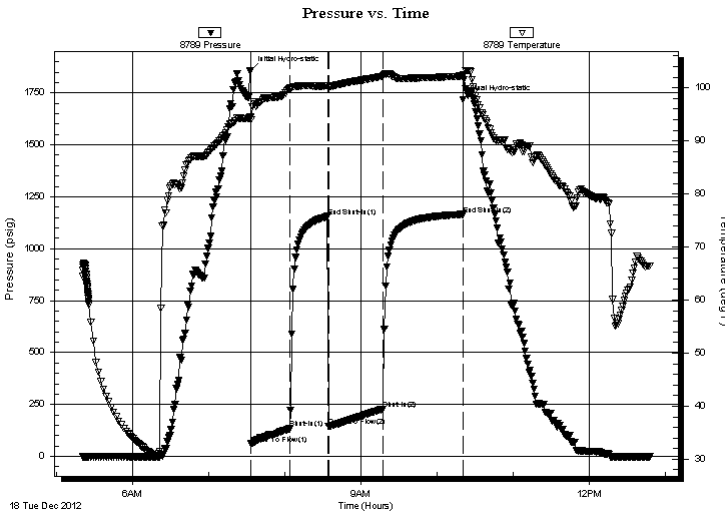
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 07:33:45  
 Tester: Cody Bloedorn  
 Time Test Ended: 12:47:45  
 Unit No: 54  
 Interval: **3536.00 ft (KB) To 3617.00 ft (KB) (TVD)**  
 Reference Elevations: 2022.00 ft (KB)  
 Total Depth: 3617.00 ft (KB) (TVD)  
 2016.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 6.00 ft

**Serial #: 8789 Outside**  
 Press @ Run Depth: 228.15 psig @ 3606.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.12.18 End Date: 2012.12.18 Last Calib.: 2012.12.18  
 Start Time: 05:21:02 End Time: 12:47:45 Time On Btm: 2012.12.18 @ 07:33:30  
 Time Off Btm: 2012.12.18 @ 10:20:45

**TEST COMMENT:** 30 - IF- B.O.B. in 18 Minutes  
 30 - IS- Surface blow back  
 45 - FF- B.O.B. in 21 Minutes  
 60 - FS- 1/4" blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.15	94.48	Initial Hydro-static
1	59.89	93.99	Open To Flow (1)
31	133.23	99.87	Shut-In(1)
61	1154.59	100.37	End Shut-In(1)
62	143.73	100.06	Open To Flow (2)
105	228.15	102.24	Shut-In(2)
167	1164.75	102.24	End Shut-In(2)
168	1719.01	102.52	Final Hydro-static

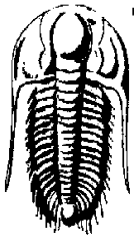
## Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCM, 90%M, 10%O	1.74
341.00	40%G, 60%O	4.78
0.00	248' of G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy Inc  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

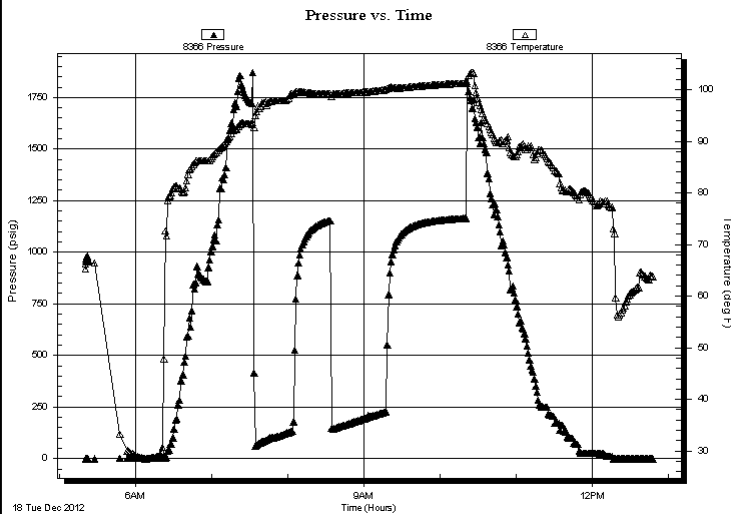
**9-15s-18w Ellis KS**  
**Madden R&C #3**  
 Job Ticket: 51568 **DST#: 2**  
 Test Start: 2012.12.18 @ 05:21:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 07:33:45 Tester: Cody Bloedorn  
 Time Test Ended: 12:47:45 Unit No: 54  
**Interval: 3536.00 ft (KB) To 3617.00 ft (KB) (TVD)**  
 Reference Elevations: 2022.00 ft (KB)  
 Total Depth: 3617.00 ft (KB) (TVD) 2016.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

**Serial #: 8366** **Inside**  
 Press @ Run Depth: psig @ 3606.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.12.18 End Date: 2012.12.18 Last Calib.: 2012.12.18  
 Start Time: 05:20:47 End Time: 12:47:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 - IF- B.O.B. in 18 Minutes  
 30 - IS- Surface blow back  
 45 - FF- B.O.B. in 21 Minutes  
 60 - FS- 1/4" blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
124.00	SOCM, 90%M, 10%O	1.74
341.00	40%G, 60%O	4.78
0.00	248' of G.I.P.	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy Inc  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

**9-15s-18w Ellis KS**  
**Madden R&C #3**  
 Job Ticket: 51568      **DST#: 2**  
 Test Start: 2012.12.18 @ 05:21:00

**Tool Information**

Drill Pipe:	Length: 3524.00 ft	Diameter: 3.80 inches	Volume: 49.43 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 49.43 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3536.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3516.00	
Shut In Tool	5.00			3521.00	
Hydraulic tool	5.00			3526.00	
Packer	5.00			3531.00	21.00      Bottom Of Top Packer
Packer	5.00			3536.00	
Stubb	1.00			3537.00	
Perforations	5.00			3542.00	
Change Over Sub	1.00			3543.00	
Drill Pipe	62.00			3605.00	
Change Over Sub	1.00			3606.00	
Recorder	0.00	8366	Inside	3606.00	
Recorder	0.00	8789	Outside	3606.00	
Perforations	8.00			3614.00	
Bullnose	3.00			3617.00	81.00      Bottom Packers & Anchor

**Total Tool Length: 102.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy Inc  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**9-15s-18w Ellis KS**  
**Madden R&C #3**  
Job Ticket: 51568      **DST#: 2**  
Test Start: 2012.12.18 @ 05:21:00

## Mud and Cushion Information

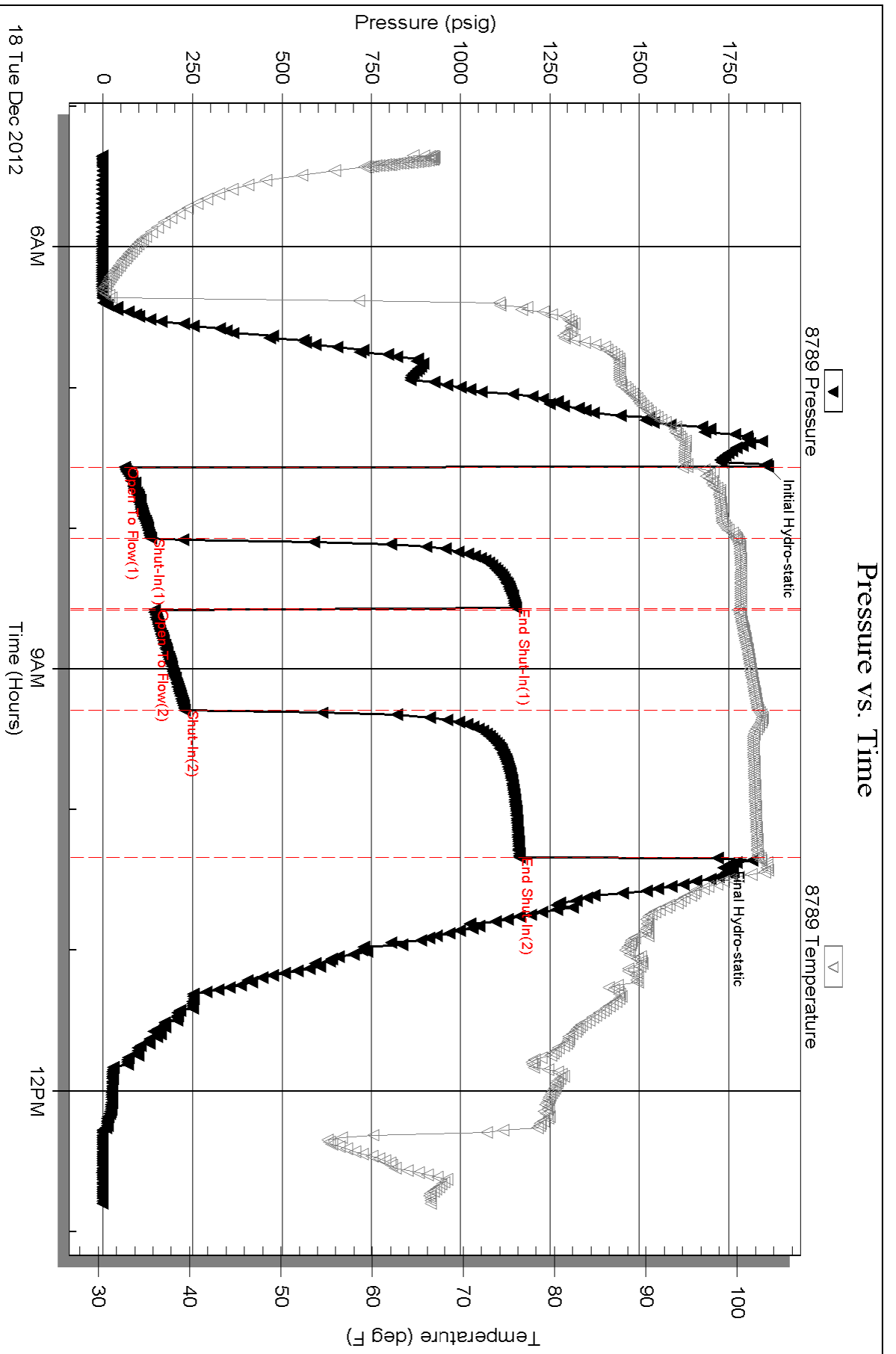
Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4600.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	SOCM, 90%M, 10%O	1.739
341.00	40%G, 60%O	4.783
0.00	248' of G.I.P.	0.000

Total Length: 465.00 ft      Total Volume: 6.522 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: Gravity: 31 @ 60 Degrees = 31



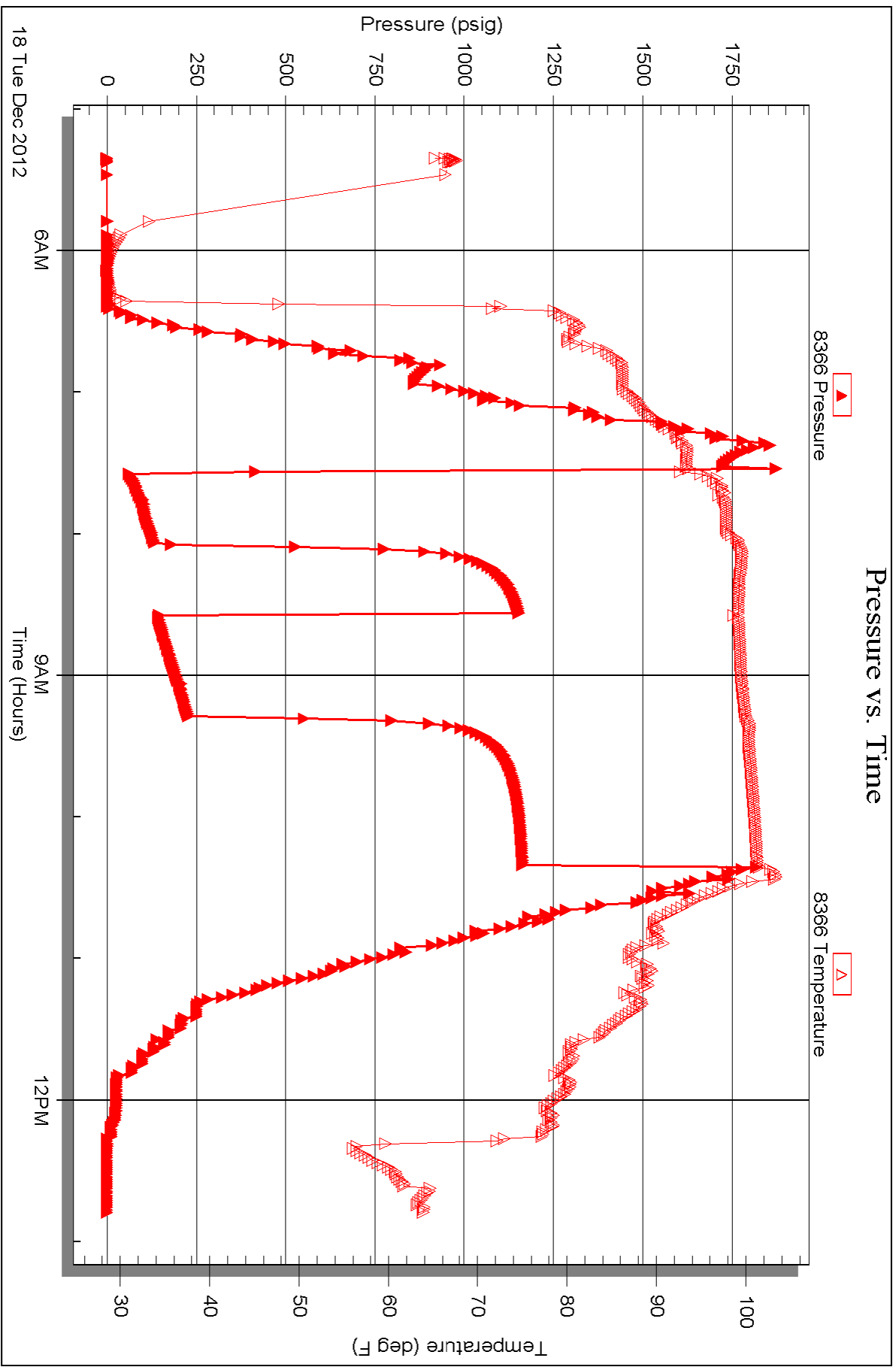
Serial #: 8366

Inside

Charter Energy Inc

Madden R&C#3

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **51567**

Well Name & No. Madden R&C #3 Test No. 1 Date 12-17-12  
 Company Charter Energy INC. Elevation 2022 KB 2016 GL  
 Address PO BOX 252, Greatbend KS, 67530  
 Co. Rep / Geo. Kurt T. Rig Royal #1  
 Location: Sec. 9 Twp. 15s Rge. 18w Co. Ellis State ks

Interval Tested 3536 - 3614 Zone Tested Arbuckle  
 Anchor Length 78' Drill Pipe Run 3523 Mud Wt. 9.5  
 Top Packer Depth 3531 Drill Collars Run — Vis 61  
 Bottom Packer Depth 3536 Wt. Pipe Run — WL 7.8  
 Total Depth 3614 Chlorides 4,600 ppm System LCM —  
 Blow Description IF- 2" blow  
ISI- No blow  
~~ISI- No blow~~ \* Pulled tool after 1st shut in. \*

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>15</u>	<u>Mud with spots of oil</u>			<u>100</u>	

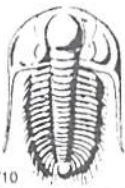
Rec Total 45' BHT 1020 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1851  Test 1150 T-On Location 6:42 pm  
 (B) First Initial Flow 51  Jars \_\_\_\_\_ T-Started 7:50 pm  
 (C) First Final Flow 66  Safety Joint \_\_\_\_\_ T-Open 10:01 pm  
 (D) Initial Shut-In 1172  Circ Sub \_\_\_\_\_ T-Pulled 11:01 pm  
 (E) Second Initial Flow —  Hourly Standby \_\_\_\_\_ T-Out 12:34 am  
 (F) Second Final Flow —  Mileage 24 RT 37.20 Comments \_\_\_\_\_  
 (G) Final Shut-In —  ~~25~~ \_\_\_\_\_  
 (H) Final Hydrostatic 1741  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30 Sub Total 0  
 Initial Shut-In 30 Total 1187.20  
 Final Flow — MP/DST Disc't \_\_\_\_\_  
 Final Shut-In — Sub Total 1187.20

Approved By \_\_\_\_\_ Our Representative Cody R...

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. 51568

4/10

Well Name & No. Madden RJC #3 Test No. 2 Date 12-18-12  
 Company Charter Energy INC Elevation 2022 KB 2016 GL  
 Address Po Box 252, Greatbend KS, 67530  
 Co. Rep / Geo. Kurt T. Rig Royal #1  
 Location: Sec. 9 Twp. 15S Rge. 18W Co. Ellis State KS

Interval Tested 3536 - 3617 Zone Tested Arbuckle  
 Anchor Length 81 Drill Pipe Run 3524 Mud Wt. 9.5  
 Top Packer Depth 3531 Drill Collars Run — Vis 61  
 Bottom Packer Depth 3536 Wt. Pipe Run — WL 7.8  
 Total Depth 3617 Chlorides 4.600 ppm System LCM —

Blow Description ±F - B.O.B. in 18 Minutes  
±F - Surface blow  
FF - B.O.B. in 21 Minutes  
Fst - Surface blow built to 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>SOCM</u>	<u>10</u>	<u>90</u>		
<u>341</u>	<u>60</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 Total 465' BHT 102° Gravity 31 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1858  Test 1150 T-On Location 5:00am  
 (B) First Initial Flow 59  Jars — T-Started 5:21am  
 (C) First Final Flow 133  Safety Joint — T-Open 7:34am  
 (D) Initial Shut-In 1154  Circ Sub — T-Pulled 10:19am  
 (E) Second Initial Flow 143  Hourly Standby — T-Out 12:48pm  
 (F) Second Final Flow 228  Mileage 24 RT 37.20  
 (G) Final Shut-In 1164  Sampler —  
 (H) Final Hydrostatic 1719  Straddle —

Ruined Shale Packer —  
 Ruined Packer —  
 Extra Packer —  
 Extra Copies —  
 Initial Open 30  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 60  
 Day Standby —  
 Accessibility —  
 Sub Total 1187.20  
 Total 1187.20  
 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative [Signature]

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.



**Geological Report**

Project: **Geological Survey of the ...**

Date: **...**

Location: **...**

Scale: **...**

Author: **...**

Reviewer: **...**

Project Manager: **...**

Client: **...**

Contract No.: **...**

Sheet No.: **...**

Scale: **...**

Project: **...**

Date: **...**

Location: **...**

Scale: **...**

Author: **...**

Reviewer: **...**

Project Manager: **...**

Client: **...**

Contract No.: **...**

Sheet No.: **...**

Scale: **...**

The production casing was not cemented on site. Madder R/C #3.  
 Reasonably sub-RTD  
 Plan: To be built  
 Petroleum geologist

**LEGEND**

	Sandstone
	Shale
	Limestone
	Dolomite
	Gypsum
	Anhydrite
	Salt
	Evaporite

