



KANSAS CORPORATION COMMISSION 1081639
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 # 9090
Name: Charter Energy, Inc.
Address 1: PO BOX 252
Address 2: _____
City: GREAT BEND State: KS Zip: 67530 + 0252
Contact Person: Steve Baize
Phone: (620) 793-9090
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Josh Austin
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 #: _____
8/31/2011 9/7/2011 9/19/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-145-21648-00-00
Spot Description: _____
NE NE SW NE Sec. 25 Twp. 20 S. R. 16 East West
1472 Feet from North / South Line of Section
1477 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Pawnee
Lease Name: C.J. & M Well #: 1
Field Name: _____
Producing Formation: Arbuckle
Elevation: Ground: 2041 Kelly Bushing: 2046
Total Depth: 3880 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1056 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: 6000 ppm Fluid volume: 1200 bbls
Dewatering method used: Evaporated
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: Dorina Garbol Date: 05/21/2012



1081639

Operator Name: Charter Energy, Inc. Lease Name: C.J. & M Well #: 1
 Sec. 25 Twp. 20 S. R. 16 East West County: Pawnee

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 Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

List All E. Logs Run:

Dual Induction, Comp. Density Neutron, Micro

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Anhydrite	1042	+1004
Heebner	3366	-1320
Toronto	3381	-1335
Douglas	3393	-1347
Brown Lime	3443	-1397
Lansing	3465	-1419
Arbuckle	3755	-1709

CASING RECORD <input checked="" 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
Surface	12.25	8.625	24	1056	common	400	3%cc 2%gel
Production	7.875	5.5	14	3869	EA2	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	-			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3786-3790		

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3842</u> Packer At:		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>09/26/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone 785-324-1041 fax 785-483-1087
 Email: cementing@ruraltel.net

Date: 9/4/2011
 Invoice # 3849

P.O.#:
 Due Date: 10/4/2011
 Division: Russe!!

Invoice

*CK 5046
 9-19-11*

Contact:
 CHARTER ENERGY
Address/Job Location:
 CHARTER ENERGY
 P.O. BOX 252
 GREAT BEND KS 67530

Reference:
 CJ & M 1

Description of Work:
 LONG SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Total
Labor		\$ 977.42	No				
Common-Class A	400	\$ 5,223.66	Yes				
Bulk Truck Mat-Material Service Charge	422	\$ 903.44	No				
Calcium Chloride	14	\$ 564.37	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 256.39	No				
Premium Gel (Eccorite)	8	\$ 139.41	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 150.03	No				
0.50" Top Rubber Plug	1	\$ 113.46	Yes				
Bottom Plate Aluminum 8.50"	1	\$ 95.34	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,424.53
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice. \$ (1,263.68)

SubTotal for Taxable Items:	\$ 5,216.66
SubTotal for Non-Taxable Items:	\$ 1,944.19
Total:	\$ 7,160.85
Tax:	\$ 432.98

8.30% Pawnee County Sales Tax

Thank You For Your Business!

Amount Due: \$ 7,593.83
Applied Payments:
Balance Due: \$ 7,593.83

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed
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QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone 785-324-1041 fax 785-483-1087
Email: cementing@ruralte.net

Date: 9/4/2011
Invoice # 3849

P.O.#:
Duo Date: 10/4/2011
Division: Russell

Invoice

Contact:
CHARTER ENERGY
Address/Job Location:
CHARTER ENERGY
P O. BOX 252
GREAT BEND KS 67530

*CK 5046
9-19-11*

Reference:
CJ & M 1

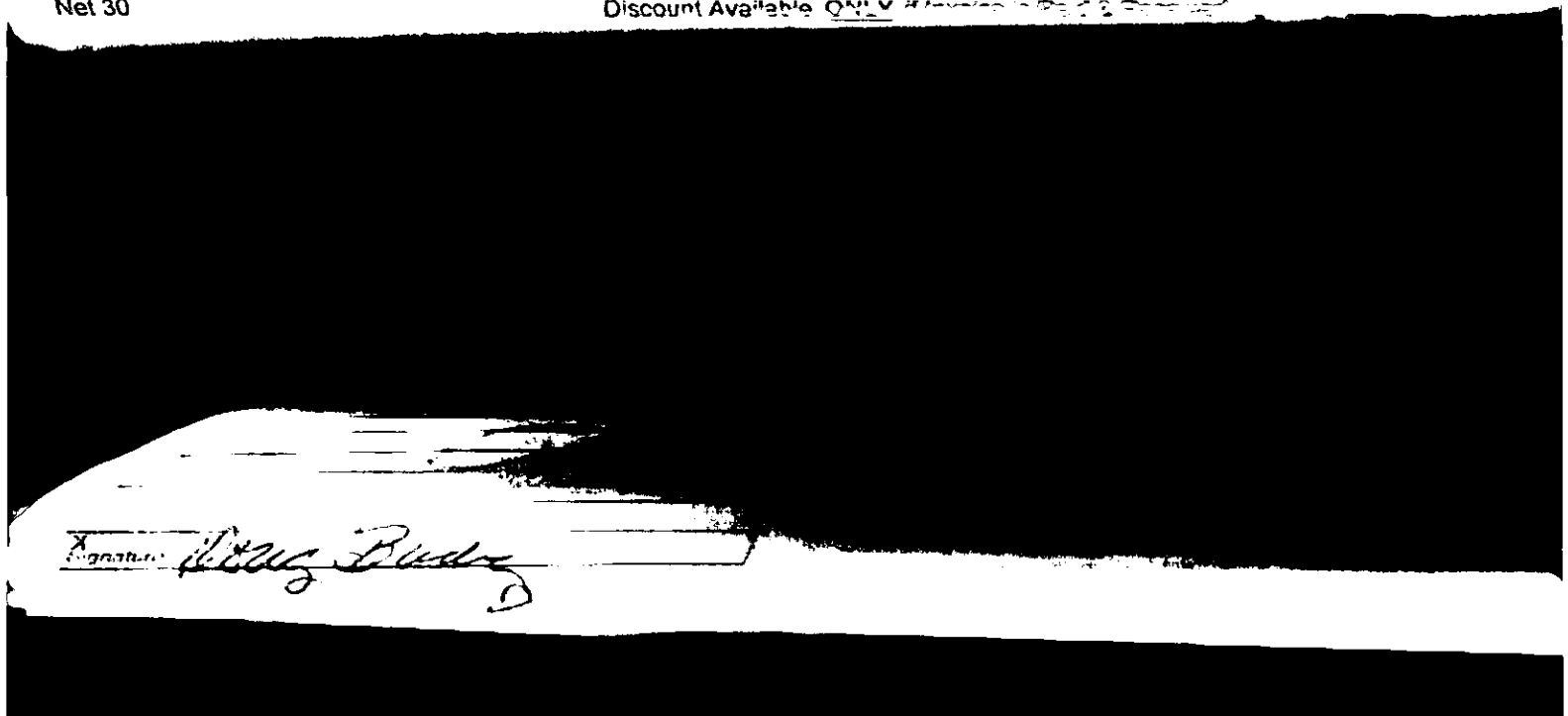
Description of Work:
LONG SURFACE JOB

Services / Items Included.	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 977.42	No				
Common-Class A	400	\$ 5,223.66	Yes				
Bulk Truck Mail Material Service Charge	422	\$ 803.44	No				
Calcium Chloride	14	\$ 564.37	Yes				
Pump Truck Mileage-Job to Nearest Camp	24	\$ 256.39	No				
Premium Gel (Bentonite)	8	\$ 139.41	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	\$ 150.03	No				
11 5/8" Top Rubber Plug	1	\$ 113.46	Yes				
Baffle Plate Aluminum 8 5/8"	1	\$ 86.34	Yes				

Invoice Terms:
Net 30

SubTotal: \$ 8,424.53

Discount Available ONLY If Invoice is Paid 2 Days Early



QUALITY OILWELL CEMENTING, INC.

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

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

No. **3849**

Date	9-1-11	Sec.	25	Twp.	20	Range	16	County	Lawnee	State	Ks	On Location	10:30 AM	
Lease	LJ+m	Well No.	#1		Location Dunder, Ks - 11 w to 80th Rd, 25									
Contractor	Royal Rig #1				Owner to VBA, 2 W, 3 S									
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.		1056'		Charge To						Charter Energy	
Csg.	8 5/8"		Depth		1056'		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.	44.05'		Shoo Joint		44.05'		Cement Amount Ordered						400 5x Common 3% CC	
Meas Line			Displace		64 BLS									

EQUIPMENT

Pumptrk	1	No.	Cementer/Helper	Cisto	2 1/2 Gal	Common	400
Bulktrk	12	No.	Driver	Brian S.	Poz. Mix		
Bulktrk	p.m.	No.	Driver	Rick	Gel.	8	

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	Calcium	14
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handing	472
		Mileage	

FLOAT EQUIPMENT

Guide Shoe		1- Raffle plate
Centralizer		1- Rubber plug
Baskets		Pumptrk Charge
AFU Inserts		Long Surface
Float Shoe		Mileage
Latch Down		24

X Signature <i>Roy Budy</i>	Tax _____ Discount _____ Total Charge _____
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SWIFT



Services, Inc.

P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
9/7/2011	22264

BILL TO
Charter Energy, Inc. P. O. Box 252 Great Bend, KS 67530-0252

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	CJ&M	Pawnee	Royal Drilling	Oil	Development	5 1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				75	Miles	6.00	450.00
578D-L	Pump Charge - Long String - 3869 Feet				1	Job	1,500.00	1,500.00
402-5	5 1/2" Centralizer				8	Each	70.00	560.00
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00
281	Mud Flush				500	Gallon(s)	1.25	625.00
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00
276	Floccle				44	Lb(s)	2.00	88.00
283	Salt				900	Lb(s)	0.20	180.00
284	Calscal				8	Sack(s)	35.00	280.00
286	Halad-1 (Halad 9)				100	Lb(s)	7.50	750.00
287	Gas Stop (2 LBS/SK)				350	Lb(s)	8.00	2,800.00
325	Standard Cement				175	Sacks	13.50	2,362.50
581D	Service Charge Cement				175	Sacks	2.00	350.00
583D	Drayage				699.15	Ton Miles	1.00	699.15
	Subtotal							11,544.65
	Sales Tax Pawnee County						8.30%	709.28
We Appreciate Your Business!						Total	\$12,253.93	

C125055
9-19-11



CHARGE TO: **CHARTER ENERGY**

ADDRESS:

CITY STATE, ZIP CODE:

TICKET No **22264**

PAGE **1** OF **2**

SERVICE LOCATION: **NESS CITY, KS** WELL/PROJECT NO: **#1** LEASE: **CJ & M** COUNTY/PARISH: **PAWNEE** STATE: **KS** CITY: **PAWNEE ROAD, KS** DATE: **7 SEP 11** OWNER:

TICKET TYPE: **SALES** CONTRACTOR: **ROYAL DRILLING** RIG NAME/NO: SHIPPED VIA: **LOCATION** ORDER NO:

WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **5 1/2 LONGSTRING** WELL PERMIT NO.: WELL LOCATION: **3 1/2 W, 2 N, 1/2 E, S/E TWD**

REFERRAL LOCATION: INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ADCT	DF							
575		1			MILEAGE #110	75	MIL			6.00	450.00
578		1			PUMP CHARGE	1	JOB	3869	FT.	1500.00	1500.00
402		1			CENTRALIZERS	8	EA			70.00	560.00
403		1			CEMENT BASKET	1	EA			250.00	250.00
406		1			LATCH DOWN PLUG & BAFFLE	1	EA			250.00	250.00
407		1			INSERT FLOAT SHOE W/AUTO FILL	1	EA			350.00	350.00
281		1			MUD FLUSH	500	GAL			1.25	625.00
221		1			LIQUID KCL	2	GAL			25.00	50.00

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

X *[Signature]*
DATE SIGNED: **7 SEPT** TIME SIGNED: **2330** A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	1 4035.00
WE UNDERSTOOD AND MET YOUR NEEDS?					2 7509.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	11544.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Pawnee TAX 5.3%	709.28
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	12,253.143
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

SWIFT OPERATOR: *[Signature]* APPROVAL: _____

Thank You!



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

TICKET CONTINUATION

TICKET No. 22264

CUSTOMER CHARTER ENERGY WELL LS #1 DATE 7 SEP 11 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	UM		
276		1				FLOCELE	44	lbs.	2.00	88.00
283		1				SALT	900	lbs	.20	180.00
284		1				CALSEAL	8	bx	35.00	280.00
286		1				HALAD-1	100	lbs.	7.50	750.00
287		1				GAS STOP	350	lbs.	8.00	2800.00
325		1				STANDARD CEMENT	175	sq	13.50	2362.50
581		1				SERVICE CHARGE	175	sq	2.00	350.00
583		1				RELEASE CHARGE	699.15	TON MILES	1.00	699.15

TOTAL WEIGHT 78644 LOADED MILES 75

CONTINUATION TOTAL 7509.65

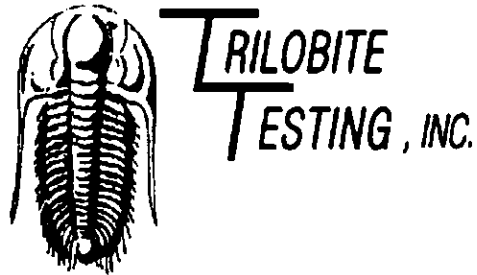
JOB LOG

SWIFT Services, Inc.

DATE 7 SEP 11 PAGE NO.

CUSTOMER CHARTER ENERGY WELL NO. # 1 LEASE C J M JOB TYPE 5 1/2 LONGSTRING TICKET NO. 22264

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							ON LOCATION
	2105							START PIPE 5 1/2" 14#
								RIDE @ 3880 TOTAL PIPE 3869.27
								SHOEST 20.97
								CENTRALIZERS 2,4,6,8,10,12,14,16,18
								BASKET # 3
	2225							DROP BALL CIRCULATE
	2231	6	12		✓		300	Pump 500 gal MUD FLUSH
	2233	6	20		✓		300	Pump 20 Bbl KCL FLUSH
	2237		7.5					PLUG RH-MA (30sx-20sx)
	2241	4	30		✓			MIX 125sx EA2
	2254							WASH OUT PUMPING LINES.
	2257	6			✓			RELEASE PLUG START DISPLACEMENT
	2313	2	94		✓		1500	PLUG DOWN PRESSURE W/ LATCH PLUG IN
	2315							RELEASE PRESSURE
	2318							WASH TRUCK
	2345							JOB COMPLETE
								THANKS B I I D
								JASON JEFF DAVID



DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.04 @ 13:56:00

End Date: 2011.09.04 @ 18:56:45

Job Ticket #: 44535 DST #: 1

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

Printed: 2012.05.21 @ 10:48:00

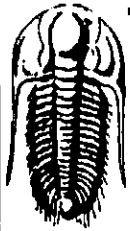
Charter Energy

CJM #1

25-20s-16w Pawnee,KS

DST # 1

2011.09.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

ATTN: Jim Musgrove

Job Ticket: 44535

DST#: 1

Test Start: 2011.09.04 @ 13:56:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:26:00

Time Test Ended: 18:56:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 54

Interval: **3461.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 2047.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

2042.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6755

Outside

Press@RunDepth: 40.51 psig @ 3497.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.04

End Date: 2011.09.04

Last Calib.: 2011.09.04

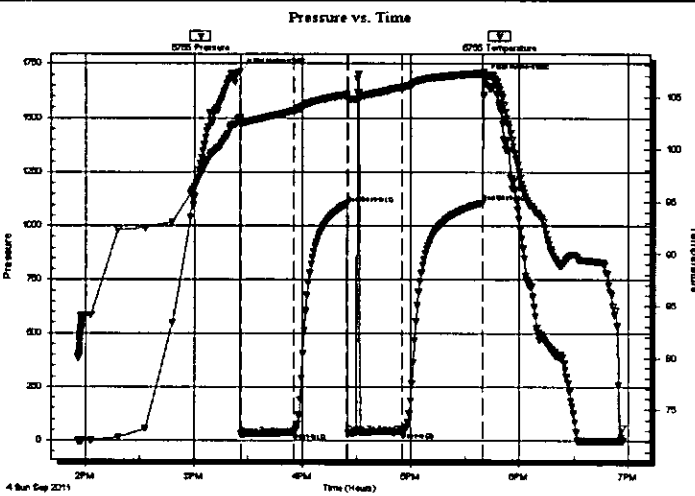
Start Time: 13:56:02

End Time: 18:56:45

Time On Btm: 2011.09.04 @ 15:25:45

Time Off Btm: 2011.09.04 @ 17:40:30

TEST COMMENT: 30 - IF- 1/4" Blow , died in 23 Mn.
30 - IS- No blow back
30 - FF-No blow back, flushed tool, no blow back
45 - FS- No blow back.



PRESSURE SUMMARY

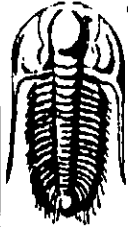
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1711.58	103.02	Initial Hydro-static
1	29.80	102.46	Open To Flow (1)
30	36.09	103.67	Shut-In(1)
59	1103.36	105.23	End Shut-In(1)
60	36.05	104.78	Open To Flow (2)
89	40.51	105.92	Shut-In(2)
134	1109.63	107.27	End Shut-In(2)
135	1686.28	107.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud, 100%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy
 PO Box 252,
 Great Bend KS 67530 + 0252
 ATTN: Jim Musgrove

CJM #1
25-20s-16w Pawnee,KS
 Job Ticket: 44535 **DST#: 1**
 Test Start: 2011.09.04 @ 13:56:00

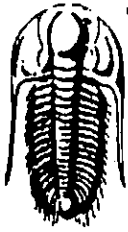
Tool Information

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 48.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3461.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	60.00 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			3441.00	
Shut In Tool	5.00			3446.00	
Hydraulic tool	5.00			3451.00	
Packer	5.00			3456.00	21.00 Bottom Of Top Packer
Packer	5.00			3461.00	
Stubb	1.00			3462.00	
Perforations	2.00			3464.00	
Change Over Sub	1.00			3465.00	
Drill Pipe	31.00			3496.00	
Change Over Sub	1.00			3497.00	
Recorder	0.00	8673	Inside	3497.00	
Recorder	0.00	6755	Outside	3497.00	
Bullnose	3.00			3500.00	39.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee, KS

Job Ticket: 44535 **DST#: 1**

ATTN: Jim Musgrove

Test Start: 2011.09.04 @ 13:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Safinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud, 100%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

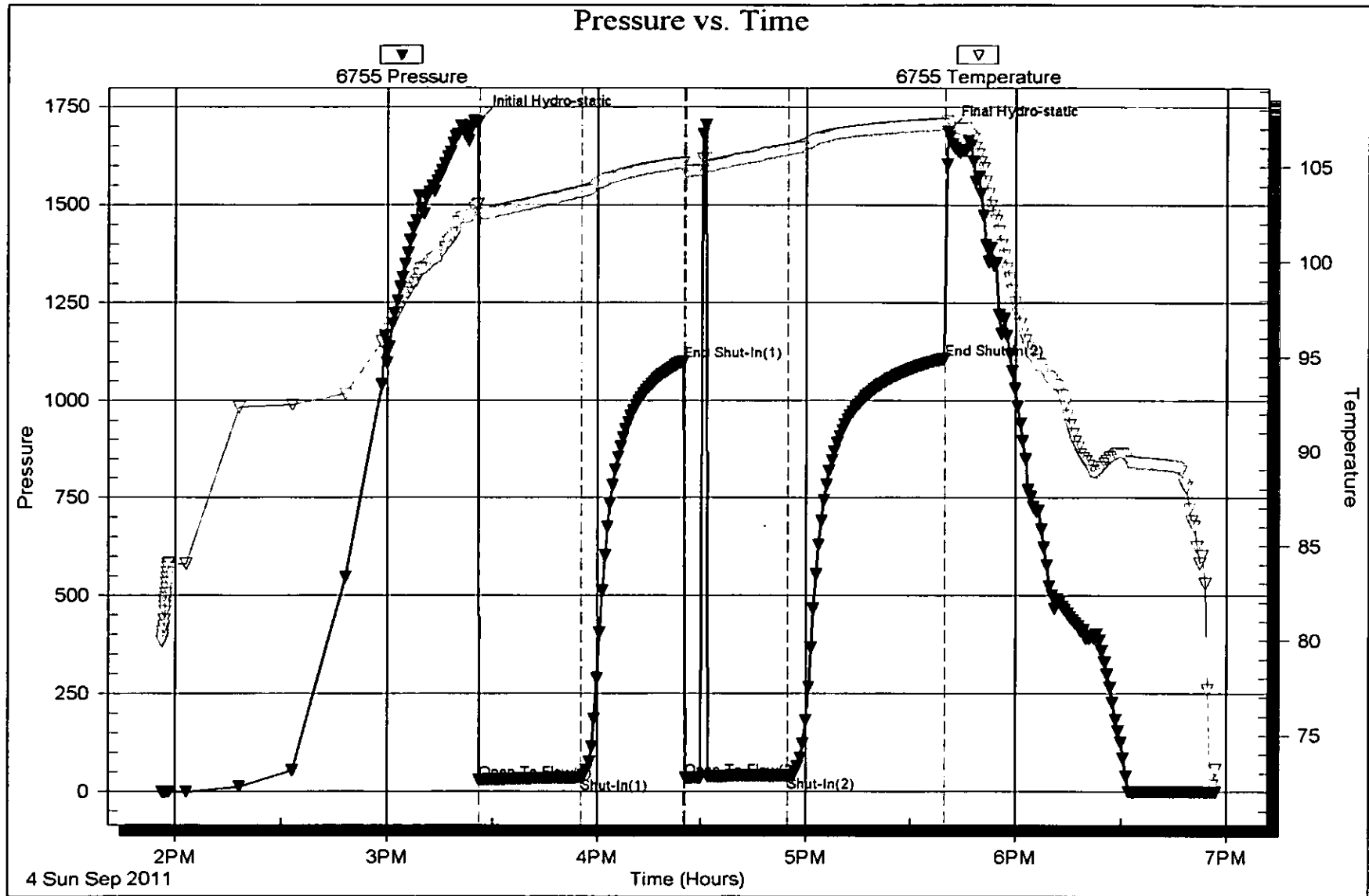
Num Gas Bombs: 0

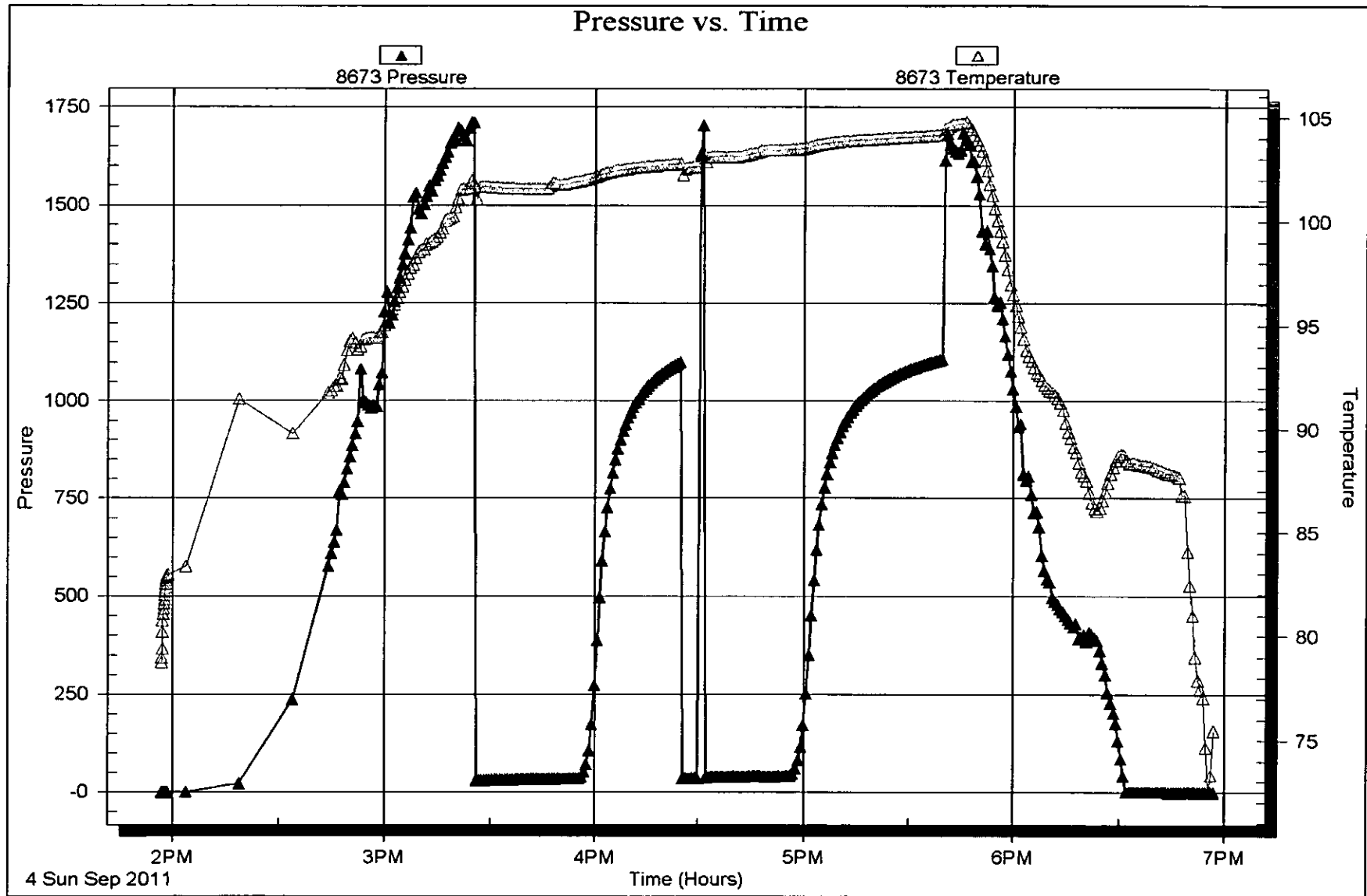
Serial #:

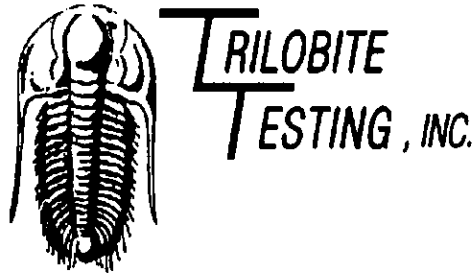
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.05 @ 18:25:00

End Date: 2011.09.05 @ 23:58:45

Job Ticket #: 44536 DST #: 2

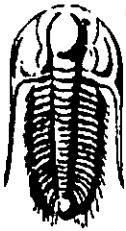
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.21 @ 10:47:14

Charter Energy CJM #1 25-20s-16w Pawnee,KS DST # 2 Arbuckle 2011.09.05



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
PO Box 252,
Great Bend KS 67530 + 0252
ATTN: Jim Musgrove

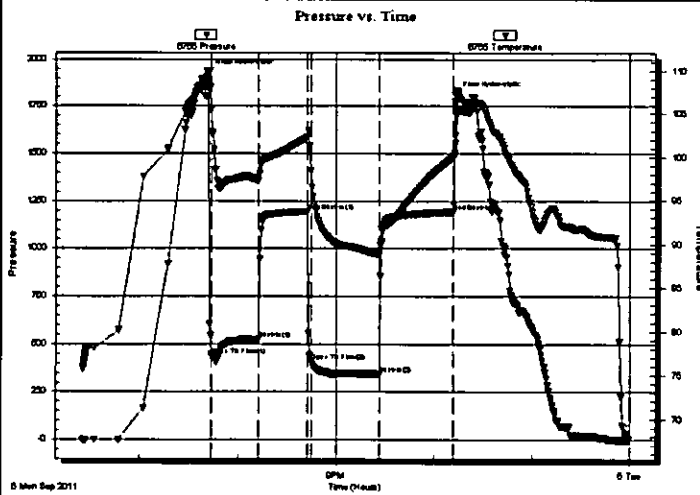
CJM #1
25-20s-16w Pawnee,KS
Job Ticket: 44536 **DST#:2**
Test Start: 2011.09.05 @ 18:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 19:43:30
Time Test Ended: 23:58:45
Interval: **3701.00 ft (KB) To 3770.00 ft (KB) (TVD)**
Total Depth: **3770.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Cody Bloedorn**
Unit No: **54**
Reference Elevations: **2047.00 ft (KB)**
2042.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6755 **Outside**
Press@RunDepth: **344.45 psig @ 3767.00 ft (KB)**
Start Date: **2011.09.05** End Date: **2011.09.05** Capacity: **8000.00 psig**
Start Time: **18:25:02** End Time: **23:58:45** Last Calib.: **2011.09.06**
Time On Btm: **2011.09.05 @ 19:41:45**
Time Off Btm: **2011.09.05 @ 22:13:30**

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S., Gauging
30 - IS- 27 Mn to bleed off, No blow back
45 - FF- B.O.B. instantly, G.T.S., gauging gas
45 - FS- Bled off in 10 Mn, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.99	110.02	Initial Hydro-static
2	437.40	105.53	Open To Flow (1)
31	523.56	97.31	Shut-in(1)
61	1193.41	102.30	End Shut-in(1)
63	410.02	98.47	Open To Flow (2)
105	344.45	88.85	Shut-in(2)
151	1191.40	99.98	End Shut-in(2)
152	1812.79	101.65	Final Hydro-static

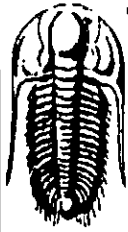
Recovery

Length (ft)	Description	Volume (bbl)
124.00	Mud	1.74
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	52.00	1908.92
Last Gas Rate	1.00	56.00	2023.92
Max. Gas Rate	1.00	56.00	2023.92



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charter Energy
PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

CJM #1
25-20s-16w Pawnee,KS
Job Ticket: 44536 **DST#: 2**
Test Start: 2011.09.05 @ 18:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:43:30
Time Test Ended: 23:58:45

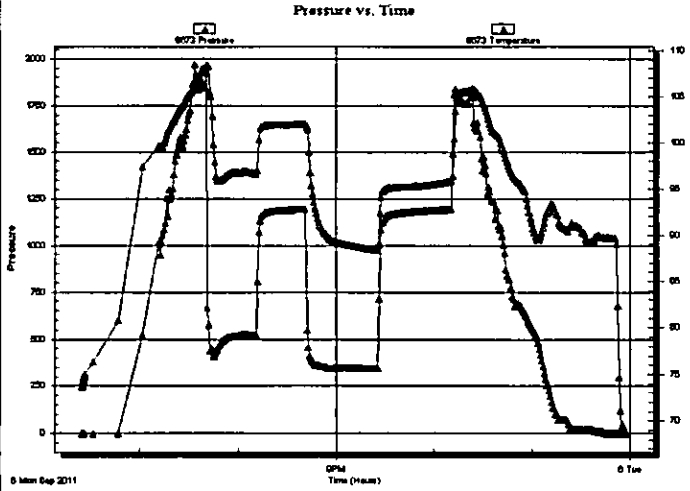
Interval: **3701.00 ft (KB) To 3770.00 ft (KB) (TVD)**
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bleedorn
Unit No: 54

Reference Elevations: 2047.00 ft (KB)
 2042.00 ft (CF)
KB to GRVCF: 5.00 ft

Serial #: 8673 Inside
Press@RunDepth: psig @ 3767.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.09.05 End Date: 2011.09.05 Last Calib.: 2011.09.06
Start Time: 18:25:02 End Time: 23:58:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S., Gauging
30 - IS- 27 Mn to bleed off, No blow back
45 - FF- B.O.B. instantly, G.T.S., gauging gas
45 - FS- Bled off in 10 Mn, No blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
124.00	Mud	1.74
0.00	GTS	0.00

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	52.00	1908.92
Last Gas Rate	1.00	56.00	2023.92
Max. Gas Rate	1.00	56.00	2023.92



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy
 PO Box 252,
 Great Bend KS 67530 + 0252
 ATTN: Jim Musgrove

CJM #1
25-20s-16w Pawnee,KS
 Job Ticket: 44536 **DST#: 2**
 Test Start: 2011.09.05 @ 18:25:00

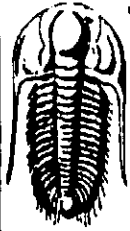
Tool Information

Drill Pipe:	Length: 3706.00 ft	Diameter: 3.80 inches	Volume: 51.99 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3701.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	90.00 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			3681.00	
Shut In Tool	5.00			3686.00	
Hydraulic tool	5.00			3691.00	
Packer	5.00			3696.00	21.00 Bottom Of Top Packer
Packer	5.00			3701.00	
Stubb	1.00			3702.00	
Perforations	2.00			3704.00	
Change Over Sub	1.00			3705.00	
Drill Pipe	61.00			3766.00	
Change Over Sub	1.00			3767.00	
Recorder	0.00	8673	Inside	3767.00	
Recorder	0.00	6755	Outside	3767.00	
Bullnose	3.00			3770.00	69.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44536

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.09.05 @ 18:25:00

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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	Mud	1.739
0.00	GTS	0.000

Total Length: 124.00 ft

Total Volume: 1.739 bbf

Num Fluid Samples: 0

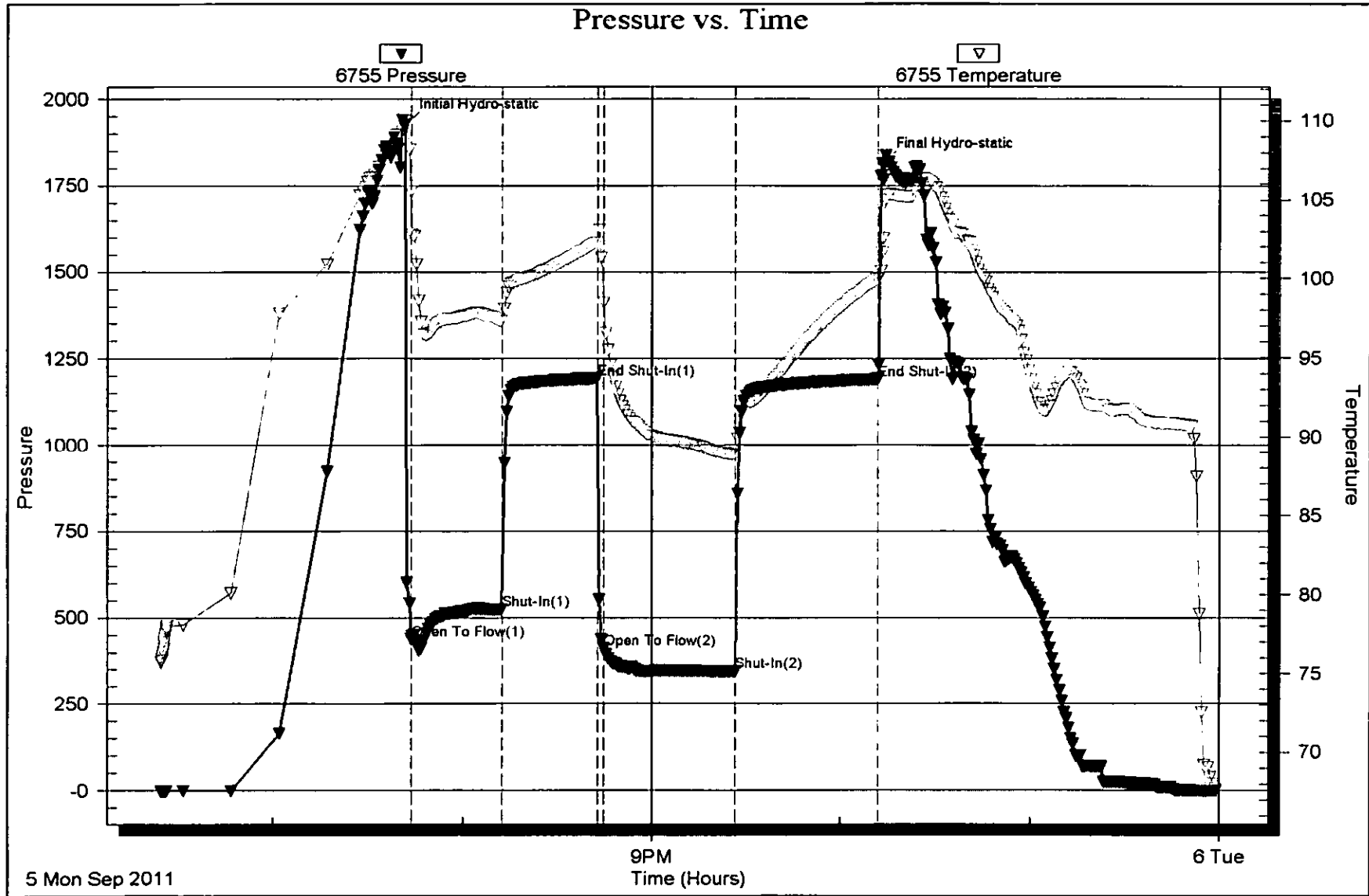
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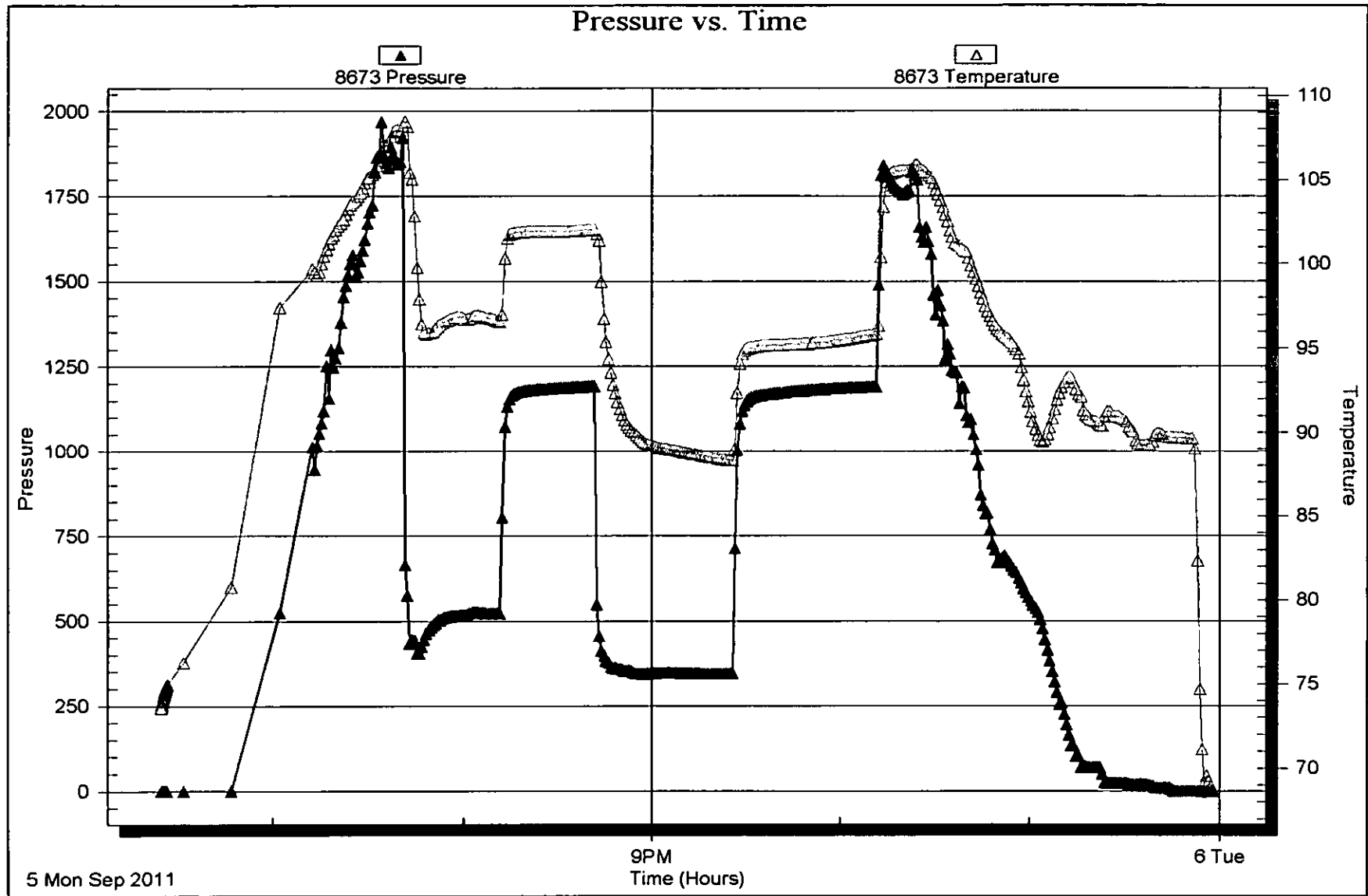
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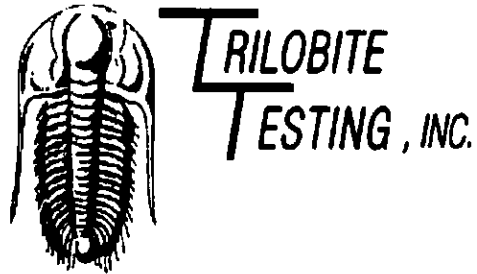
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.06 @ 05:32:00

End Date: 2011.09.06 @ 11:16:00

Job Ticket #: 44538 DST #: 3

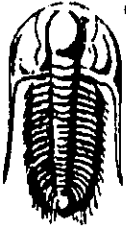
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.21 @ 10:46:28

Charter Energy CJM #1 25-20s-16w Pawnee,KS DST # 3 Arbuckle 2011.09.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
PO Box 252,
Great Bend KS 67530 + 0252
ATTN: Jim Musgrove

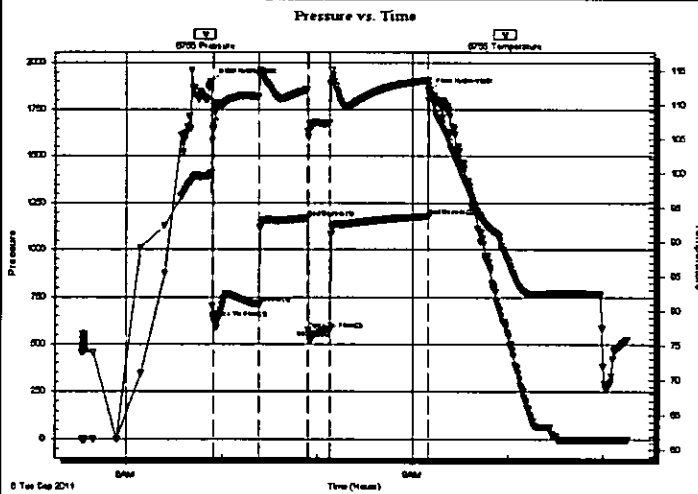
CJM #1
25-20s-16w Pawnee,KS
Job Ticket: 44538 **DST#: 3**
Test Start: 2011.09.06 @ 05:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 06:54:15
Time Test Ended: 11:16:00
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Cody Bloodorn**
Unit No: **54**
Interval: **3770.00 ft (KB) To 3785.00 ft (KB) (TVD)**
Reference Elevations: 2047.00 ft (KB)
Total Depth: **3785.00 ft (KB) (TVD)** 2042.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: 5.00 ft

Serial #: 6755 Outside
Press@RunDepth: **575.68 psig @ 3771.00 ft (KB)** Capacity: 8000.00 psig
Start Date: **2011.09.06** End Date: 2011.09.06 Last Calib.: 2011.09.06
Start Time: **05:32:02** End Time: 11:16:00 Time On Btm: 2011.09.06 @ 06:53:00
Time Off Btm: 2011.09.06 @ 09:10:30

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S, Gauged
30 - IS- Bled off in 10 Min, 7" blow
15 - FF- B.O.B. instantly, G.T.S., Gauging, in 15 Min, had Oil to surface, shut it in.
60 - FS- bled off in 32 Mn., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.09	100.01	Initial Hydro-static
2	639.29	106.33	Open To Flow (1)
31	710.73	111.15	Shut-In(1)
61	1169.34	112.19	End Shut-In(1)
62	576.81	106.01	Open To Flow (2)
75	575.68	107.26	Shut-In(2)
137	1180.41	113.56	End Shut-In(2)
138	1848.21	112.21	Final Hydro-static

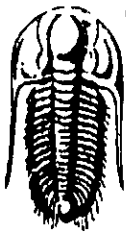
Recovery

Length (ft)	Description	Volume (bbl)
62.00	OMV, 10%O, 70%W, 20%M	0.87
62.00	MOW, 20%M, 20%O, 60%W	0.87
40.00	WMO, 10%W, 40%M, 50%O	0.56
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
First Gas Rate	0.25	548.00	892.19
Last Gas Rate	0.25	498.00	812.87
Max. Gas Rate	0.25	548.00	892.19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee, KS

Job Ticket: 44538

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 05:32:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:54:15

Time Test Ended: 11:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 54

Interval: 3770.00 ft (KB) To 3785.00 ft (KB) (TVD)

Total Depth: 3785.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2047.00 ft (KB)

2042.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8673 Inside

Press@RunDepth: psig @ 3771.00 ft (KB)

Start Date: 2011.09.06

End Date: 2011.09.06

Capacity: 8000.00 psig

Last Calib.: 2011.09.06

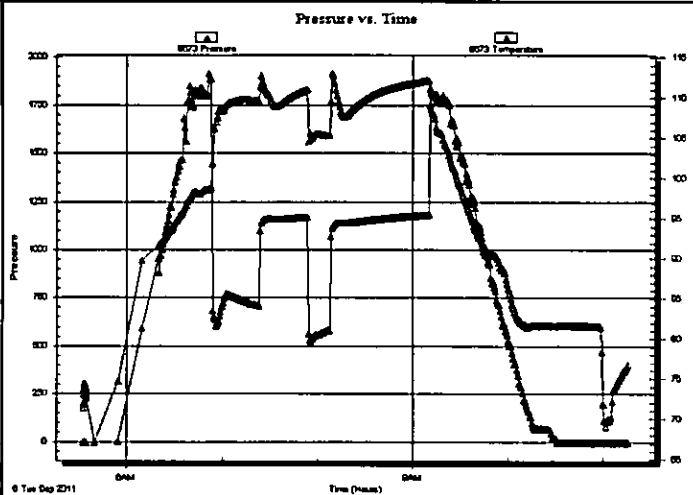
Start Time: 05:32:32

End Time: 11:16:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S, Gauged
30 - IS- Bled off in 10 Mn, 7" blow
15 - FF- B.O.B. instantly, G.T.S., Gauging, in 15 Mn, had Oil to surface, shut it in.
60 - FS- bled off in 32 Mn., no blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
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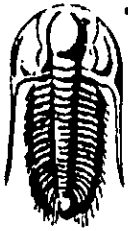
Recovery

Length (ft)	Description	Volume (bbl)
62.00	OMW, 10%O, 70%W, 20%M	0.87
62.00	MOW, 20%M, 20%O, 60%W	0.87
40.00	WMO, 10%W, 40%M, 50%O	0.56
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	548.00	892.19
Last Gas Rate	0.25	498.00	812.87
Max. Gas Rate	0.25	548.00	892.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44538

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 05:32:00

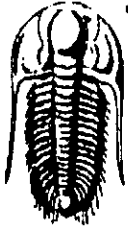
Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		<u>Total Volume:</u>	<u>52.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3770.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	36.00 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			3750.00	
Shut In Tool	5.00			3755.00	
Hydraulic tool	5.00			3760.00	
Packer	5.00			3765.00	21.00 Bottom Of Top Packer
Packer	5.00			3770.00	
Stubb	1.00			3771.00	
Recorder	0.00	8673	Inside	3771.00	
Recorder	0.00	6755	Outside	3771.00	
Perforations	11.00			3782.00	
Bullnose	3.00			3785.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44538

DST#: 3

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 05:32:00

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: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
62.00	OMW, 10%O, 70%W, 20%M	0.870
62.00	MOW, 20%M,20%O, 60%W	0.870
40.00	WMO, 10%W, 40%M, 50%O	0.561
0.00	GTS	0.000

Total Length: 164.00 ft

Total Volume: 2.301 bbf

Num Fluid Samples: 0

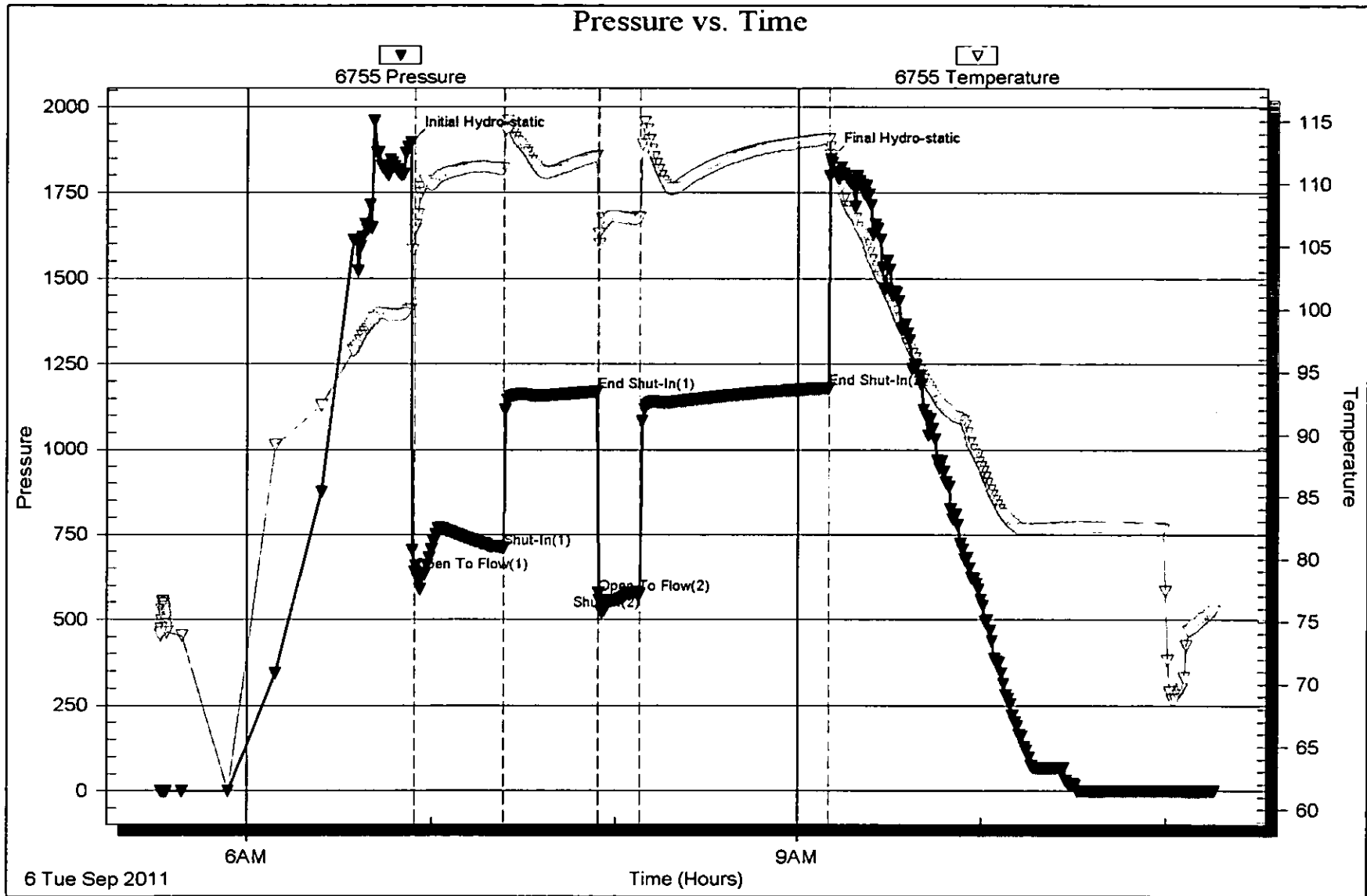
Num Gas Bombs: 0

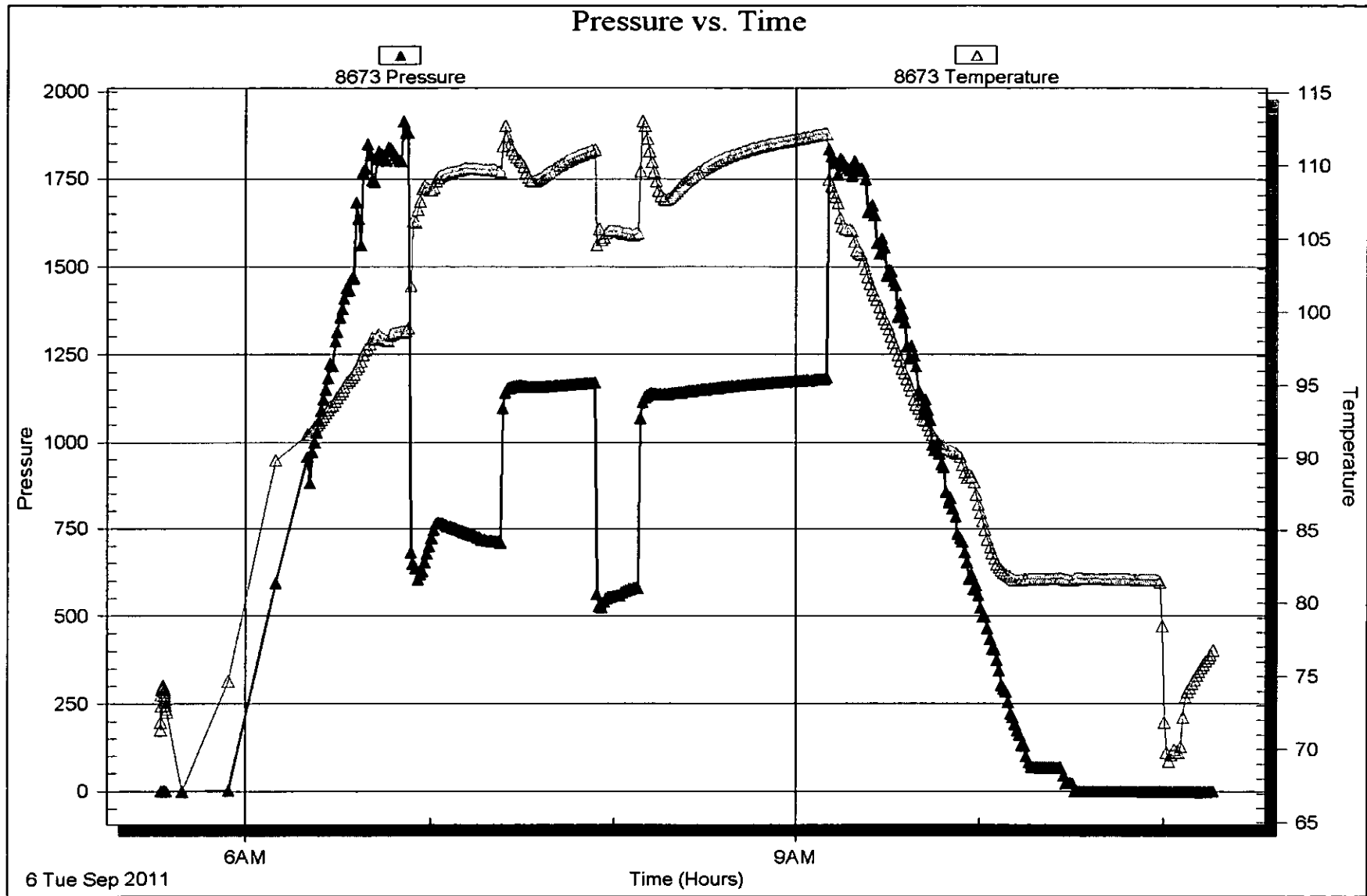
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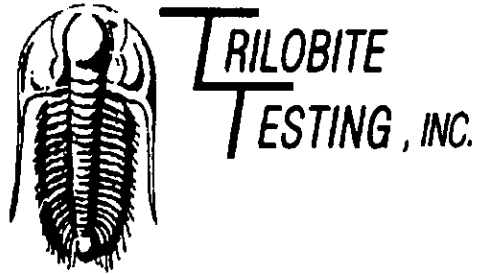
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Charter Energy**

PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

25-20s-16w Pawnee,KS

CJM #1

Start Date: 2011.09.06 @ 17:06:00

End Date: 2011.09.07 @ 00:45:30

Job Ticket #: 44539 DST #: 4

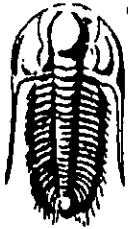
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.05.21 @ 10:45:30

Charter Energy CJM #1 25-20s-16w Pawnee,KS DST # 4 Arbuckle 2011.09.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
PO Box 252,
Great Bend KS 67530 + 0252
ATTN: Jim Musgrove

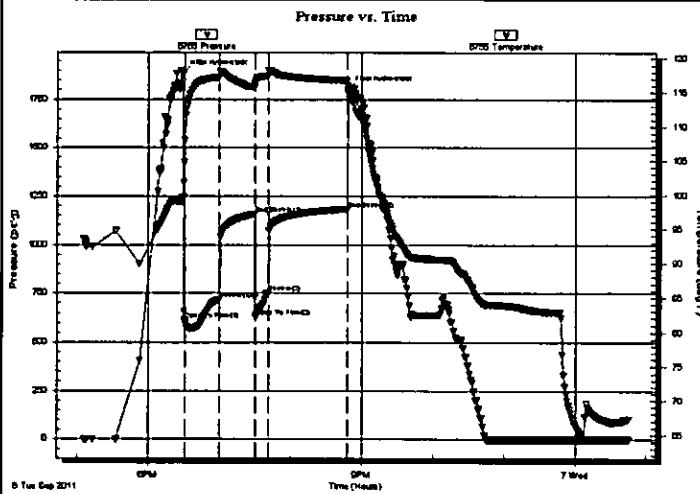
CJM #1
25-20s-16w Pawnee, KS
Job Ticket: 44539 **DST#: 4**
Test Start: 2011.09.06 @ 17:06:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 18:30:45
Time Test Ended: 00:45:30
Interval: **3785.00 ft (KB) To 3800.00 ft (KB) (TVD)**
Total Depth: **3800.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Cody Bloedorn**
Unit No: **54**
Reference Elevations: **2047.00 ft (KB)**
2042.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6755 Outside
Press@RunDepth: **752.52 psig @ 3797.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2011.09.06** End Date: **2011.09.07** Last Calib.: **2011.09.07**
Start Time: **17:06:02** End Time: **00:45:30** Time On Btm: **2011.09.06 @ 18:29:45**
Time Off Btm: **2011.09.06 @ 20:49:00**

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S. instantly, Gauging
30 - IS- Never bled off
11 - FF- Oil to surface in 6 Min. waited 5 Min and shut it in.
45 - FS- bled off in 42 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.15	99.59	Initial Hydro-static
1	613.89	104.73	Open To Flow (1)
31	716.85	117.24	Shut-In(1)
61	1157.00	115.84	End Shut-In(1)
61	627.78	116.27	Open To Flow (2)
72	752.52	117.44	Shut-In(2)
139	1180.81	116.75	End Shut-In(2)
140	1799.99	116.03	Final Hydro-static

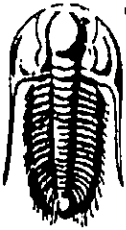
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWO, 5%W, 20%G, 75%O	0.87
62.00	GWO, 20%G, 20%W, 60%O	0.87
124.00	WO, 40%W, 60%O	1.74
124.00	MW, Oil scum, 5%M, 95%W	1.74
124.00	Water, oil scum, 100%W	1.74
0.00	2592' of G.I.P., lost 1178' of oil.	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	84.00	2828.88
Last Gas Rate	1.00	66.00	2311.40
Max. Gas Rate	1.00	84.00	2828.88



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Charter Energy
PO Box 252,
Great Bend KS 67530 + 0252

ATTN: Jim Musgrove

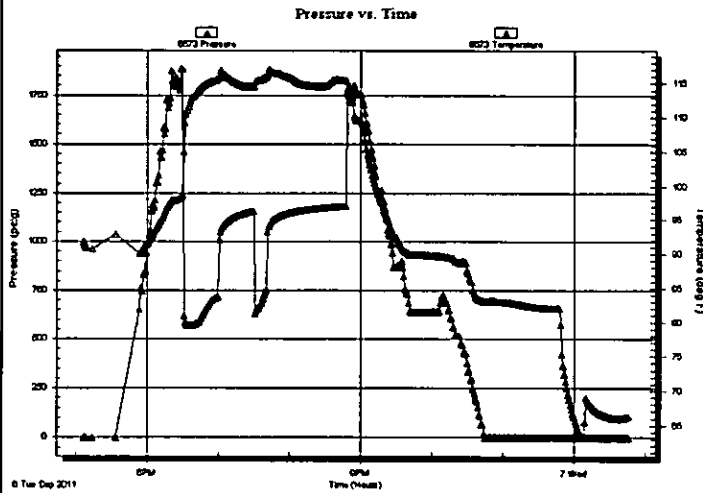
CJM #1
25-20s-16w Pawnee,KS
Job Ticket: 44539 **DST#: 4**
Test Start: 2011.09.06 @ 17:06:00

GENERAL INFORMATION:

Formation:	Arbuckle	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock: ft (KB)	Tester:	Cody Bloedorn
Time Tool Opened:	18:30:45	Unit No:	54
Time Test Ended:	00:45:30	Reference Elevations:	2047.00 ft (KB) 2042.00 ft (CF)
Interval:	3785.00 ft (KB) To 3800.00 ft (KB) (TV D)	KB to GR/CF:	5.00 ft
Total Depth:	3800.00 ft (KB) (TV D)		
Hole Diameter:	7.88 inches Hole Condition: Good		

Serial #: 8673	Inside		
Press@RunDepth:	psig @ 3797.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2011.09.06	End Date:	2011.09.07
Start Time:	17:06:47	End Time:	00:45:45
		Last Calib.:	2011.09.07
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30 - IF- B.O.B. instantly, G.T.S. instantly, Gauging
30 - IS- Never bled off
11 - FF- Oil to surface in 6 Min. waited 5 Min and shut it in.
45 - FS- bled off in 42 Min.



PRESSURE SUMMARY

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

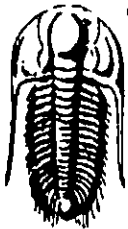
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWO, 5%W, 20%G, 75%O	0.87
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* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	84.00	2828.88
Last Gas Rate	1.00	66.00	2311.40
Max. Gas Rate	1.00	84.00	2828.88



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee,KS

Job Ticket: 44539

DST#: 4

ATTN: Jim Musgrove

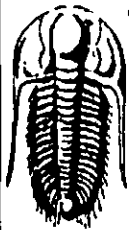
Test Start: 2011.09.06 @ 17:06:00

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight to Full Loose:	52000.00 lb
			<u>Total Volume: 52.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3785.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	36.00 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			3765.00	
Shut In Tool	5.00			3770.00	
Hydraulic tool	5.00			3775.00	
Packer	5.00			3780.00	21.00 Bottom Of Top Packer
Packer	5.00			3785.00	
Stubb	1.00			3786.00	
Perforations	11.00			3797.00	
Recorder	0.00	8673	Inside	3797.00	
Recorder	0.00	6755	Outside	3797.00	
Bullnose	3.00			3800.00	15.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Charter Energy

CJM #1

PO Box 252,
Great Bend KS 67530 + 0252

25-20s-16w Pawnee, KS

Job Ticket: 44539

DST#: 4

ATTN: Jim Musgrove

Test Start: 2011.09.06 @ 17:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GWO, 5%W, 20%G, 75%O	0.870
62.00	GWO, 20%G, 20%W, 60%O	0.870
124.00	WO, 40%W, 60%O	1.739
124.00	MW, Oil scum, 5%M, 95%W	1.739
124.00	Water, oil scum, 100%W	1.739
0.00	2592' of G.I.P., lost 1178' of oil.	0.000

Total Length: 496.00 ft Total Volume: 6.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity: 35 @ 60 Degrees = 35, Water Salinity: .23@66Degrees = 40,000

