



KANSAS CORPORATION COMMISSION 1085488  
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 # 4184  
Name: Casino Petroleum, LLC  
Address 1: PO BOX 415  
Address 2: \_\_\_\_\_  
City: ELLINWOOD State: KS Zip: 67526 + 0415  
Contact Person: Chris Batchman  
Phone: ( 620 ) 566-7111  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: Todd Morgenstern  
Purchaser: NCRA

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_

<u>06/05/2012</u>	<u>06/12/2012</u>	<u>06/22/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25703-00-00  
Spot Description: 70' West of C of NE NE SW NENESW  
W2 NE NE SW Sec. 24 Twp. 20 S. R. 11  East  West  
2310 Feet from  North /  South Line of Section  
2240 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Barton  
Lease Name: Sessler Well #: 9

Field Name: Chase-Silica  
Producing Formation: Arbuckle

Elevation: Ground: 1745 Kelly Bushing: 1750

Total Depth: 3310 Plug Back Total Depth: 3289

Amount of Surface Pipe Set and Cemented at: 271 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: 20000 ppm Fluid volume: 320 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Casino Petroleum LLC

Lease Name: Sessler License #: 4181

Quarter SW Sec. 24 Twp. 20 S. R. 11  East  West

County: Barton Permit #: D-24,167

**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: Deanna Gamisor Date: 11/07/2012



1085488

Operator Name: Casino Petroleum, LLC Lease Name: Sessler Well #: 9  
 Sec. 24 Twp. 20 S. R. 11  East  West County: Barton

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner Shale</td> <td>2844'</td> <td>-1094'</td> </tr> <tr> <td>Toronto</td> <td>2858'</td> <td>-1110'</td> </tr> <tr> <td>Douglas</td> <td>2875'</td> <td>-1124'</td> </tr> <tr> <td>Brown Lime</td> <td>2967'</td> <td>-1217'</td> </tr> <tr> <td>Lansing</td> <td>2986'</td> <td>-1237'</td> </tr> <tr> <td>Arbuckle</td> <td>3245'</td> <td>-1494'</td> </tr> <tr> <td>Rotary Total Depth</td> <td>3310'</td> <td>-1560'</td> </tr> </table>	Name	Top	Datum	Heebner Shale	2844'	-1094'	Toronto	2858'	-1110'	Douglas	2875'	-1124'	Brown Lime	2967'	-1217'	Lansing	2986'	-1237'	Arbuckle	3245'	-1494'	Rotary Total Depth	3310'	-1560'
Name	Top	Datum																							
Heebner Shale	2844'	-1094'																							
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Rotary Total Depth	3310'	-1560'																							

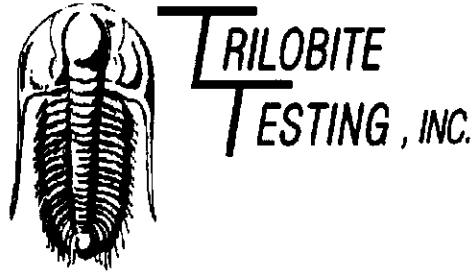
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	271	common	250	60/40 poz
Production	7.875	5.50	15.5	3301	common	120	60/40 poz

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 (Amount and Kind of Material Used)	Depth
2	3247-3249		

TUBING RECORD: Size: <u>2.8750</u> Set At: <u>3280</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>06/30/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>
Estimated Production Per 24 Hours	Oil Bbls. <u>15</u> Gas Mcf <u> </u> Water Bbls. <u>450</u> Gas-Oil Ratio <u> </u> Gravity <u> </u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) <u> </u>	PRODUCTION INTERVAL: <u> </u> <u> </u>
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## DRILL STEM TEST REPORT

Prepared For: **Casino Petroleum LLC**

PO Box 415  
Ellinwood KS 67526

ATTN: Chris Batchman/Todd

### **Sessler #9**

### **24-20s-11w Barton,KS**

Start Date: 2012.06.10 @ 02:47:00

End Date: 2012.06.10 @ 10:31:45

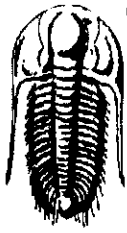
Job Ticket #: 47555                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.18 @ 14:11:57



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Casino Petroleum LLC

**24-20s-11w Barton, KS**

PO Box 415  
Ellinwood KS 67526

**Sessler #9**

Job Ticket: 47555 **DST#: 1**

ATTN: Chris Batchman/Todd

Test Start: 2012.06.10 @ 02:47:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:54:00

Time Test Ended: 10:31:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: **3227.00 ft (KB) To 3249.00 ft (KB) (TVD)**

Reference Elevations: 1751.00 ft (KB)

Total Depth: 3249.00 ft (KB) (TVD)

1745.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 6755**

**Outside**

Press@RunDepth: 902.13 psig @ 3228.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.10

End Date: 2012.06.10

Last Calib.: 2012.06.10

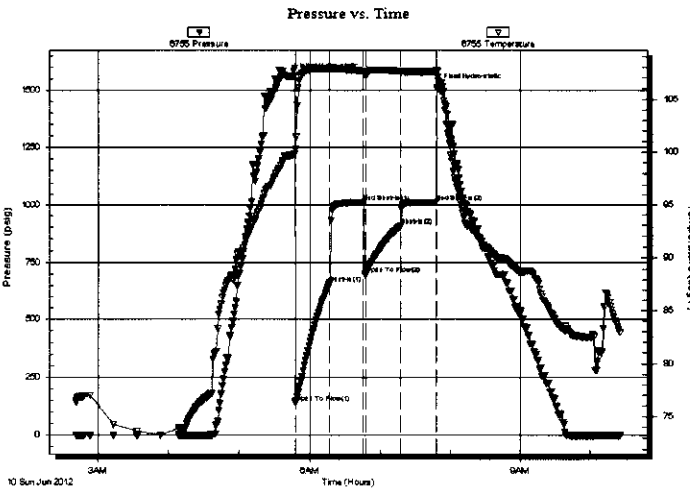
Start Time: 02:41:05

End Time: 10:25:44

Time On Btm: 2012.06.10 @ 05:45:30

Time Off Btm: 2012.06.10 @ 07:48:45

**TEST COMMENT:** IF: Strong blow BOB 1 min  
IS: No blow back  
FF: Strong blow BOB 1 min  
FSI: Weak blow back 1"



## PRESSURE SUMMARY

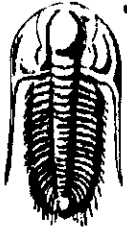
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.82	99.73	Initial Hydro-static
3	138.32	100.26	Open To Flow (1)
32	661.11	107.87	Shut-In(1)
60	1011.71	107.66	End Shut-In(1)
63	701.59	107.22	Open To Flow (2)
92	902.13	107.67	Shut-In(2)
122	1012.07	107.56	End Shut-In(2)
124	1513.36	107.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
392.00	O,G,W,M 10%oil 20%gas 30%water 40%4.41	4.41
310.00	O,M,W 5%oil 5% mud 90% water	4.35
1798.00	WATER 100%	25.22

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Casino Petroleum LLC

24-20s-11w Barton, KS

PO Box 415  
Ellinwood KS 67526

Sessler #9

Job Ticket: 47555

DST#: 1

ATTN: Chris Batchman/Todd

Test Start: 2012.06.10 @ 02:47:00

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:54:00

Time Test Ended: 10:31:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 3227.00 ft (KB) To 3249.00 ft (KB) (TVD)

Total Depth: 3249.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1751.00 ft (KB)

1745.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6773 Inside

Press@RunDepth: psig @ 3228.00 ft (KB)

Start Date: 2012.06.10

End Date:

2012.06.10

Capacity: 8000.00 psig

Last Calib.:

2012.06.10

Start Time: 02:47:50

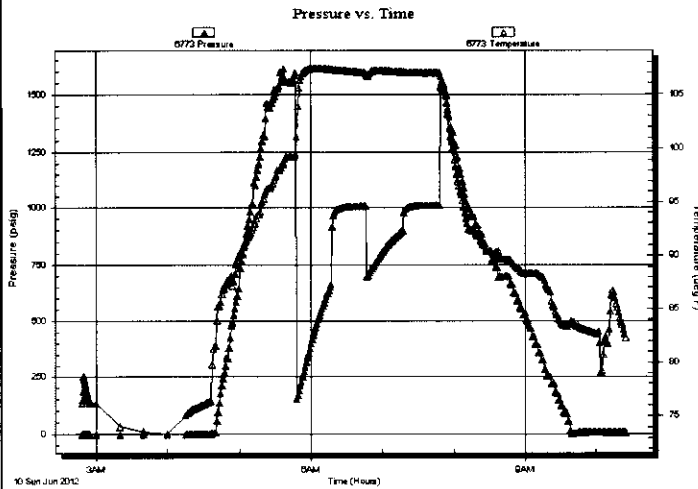
End Time:

10:25:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow BOB 1 min  
ISI: No blow back  
FF: Strong blow BOB 1 min  
FSI: Weak blow back 1"



### PRESSURE SUMMARY

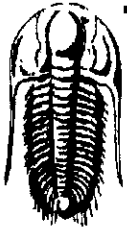
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
392.00	O,G,W,M 10%oil 20%gas 30%w ater40%	4.41
310.00	O,M,W 5%oil 5% mud 90% w ater	4.35
1798.00	WATER 100%	25.22

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Casino Petroleum LLC

**24-20s-11w Barton, KS**

PO Box 415  
Ellinwood KS 67526

**Sessler #9**

Job Ticket: 47555

**DST#: 1**

ATTN: Chris Batchman/Todd

Test Start: 2012.06.10 @ 02:47:00

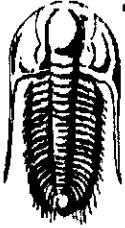
### Tool Information

Drill Pipe:	Length: 3095.00 ft	Diameter: 3.80 inches	Volume: 43.41 bbl	Tool Weight: 2200.00 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: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.00 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3227.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3207.00	
Shut In Tool	5.00			3212.00	
Hydraulic tool	5.00			3217.00	
Packer	5.00			3222.00	21.00 Bottom Of Top Packer
Packer	5.00			3227.00	
Stubb	1.00			3228.00	
Recorder	0.00	6773	Inside	3228.00	
Recorder	0.00	6755	Outside	3228.00	
Perforations	18.00			3246.00	
Bullnose	3.00			3249.00	22.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Casino Petroleum LLC

**24-20s-11w Barton,KS**

PO Box 415  
Ellinwood KS 67526

**Sessler #9**

Job Ticket: 47555

**DST#: 1**

ATTN: Chris Batchman/Todd

Test Start: 2012.06.10 @ 02:47:00

## 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:

75000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
392.00	O,G,W,M 10%oil 20%gas 30%water40% muc	4.415
310.00	O,M,W 5%oil 5% mud 90% water	4.348
1798.00	WATER 100%	25.221

Total Length: 2500.00 ft

Total Volume: 33.984 bbl

Num Fluid Samples: 0

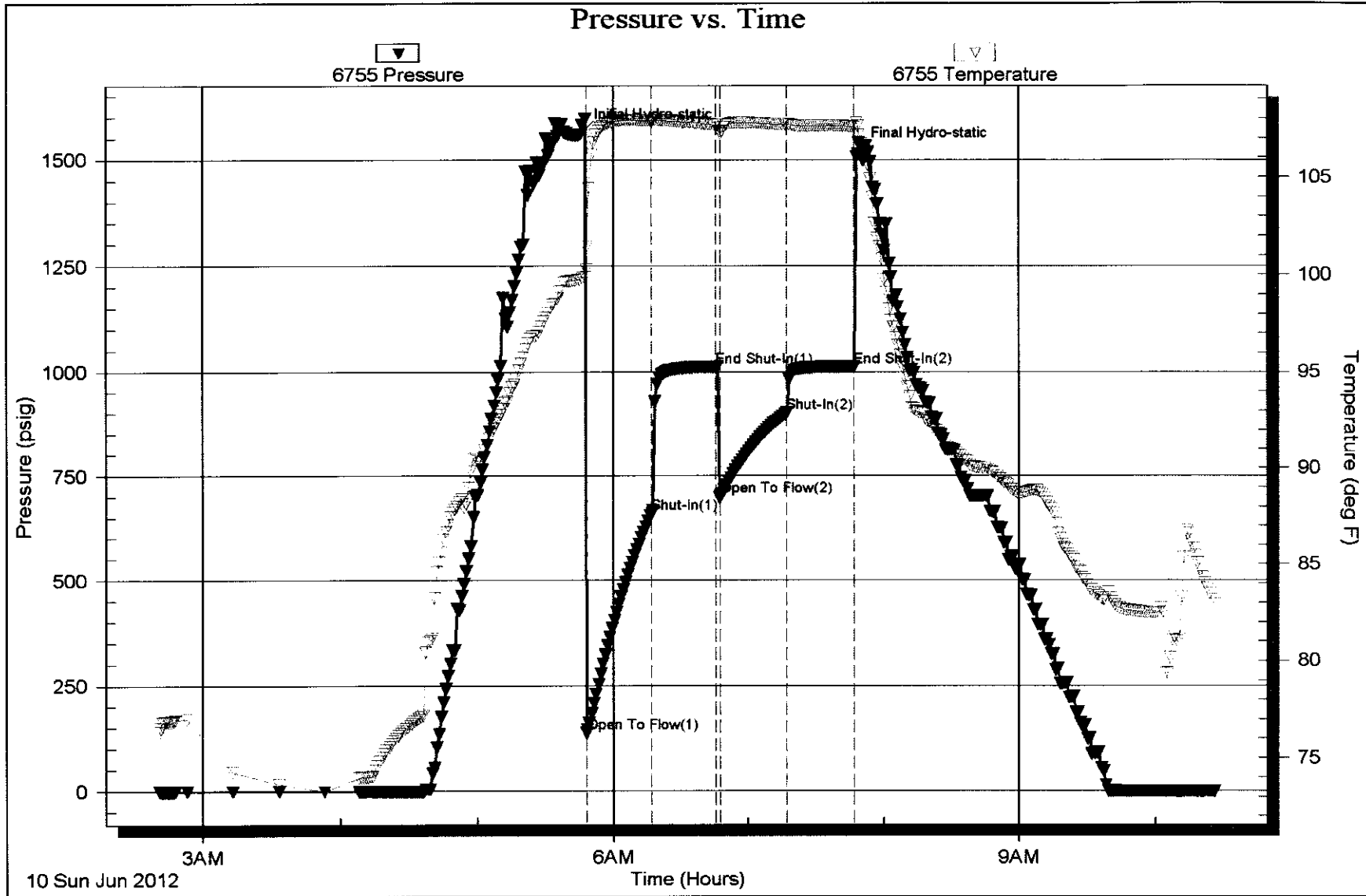
Num Gas Bombs: 0

Serial #:

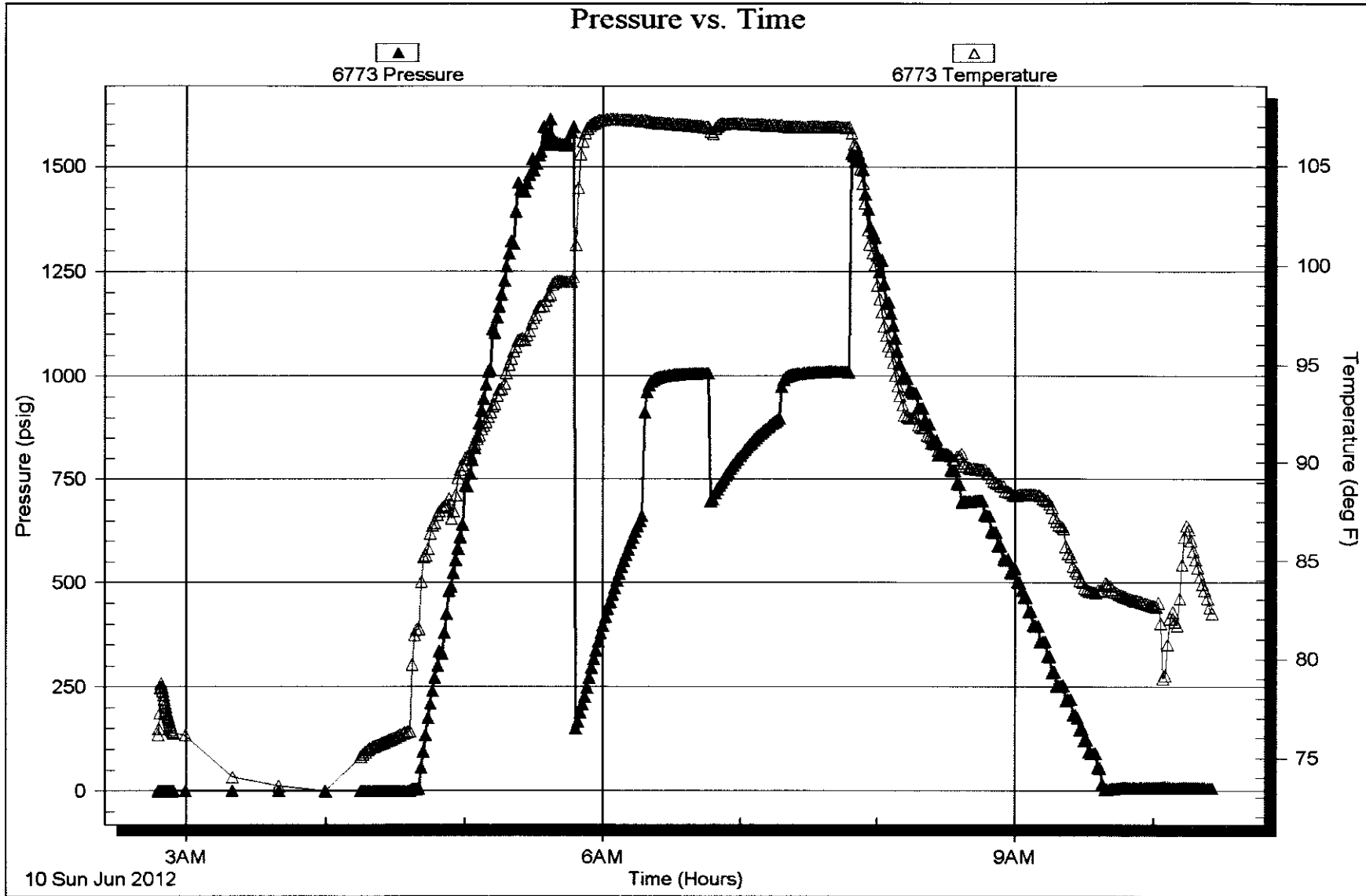
Laboratory Name:

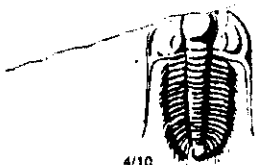
Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47555

Well Name & No. Sessler #9 Test No. 1 Date 6-10-12  
 Company Casino Petroleum LLC Elevation 1751 KB 1745 GL  
 Address PO Box 415 Ellinwood KS 67526  
 Co. Rep / Geo. Chris Batchman / Todd Morgenstern Rig Southwind #4  
 Location: Sec. 24 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3227 - 3249 Zone Tested AR Buckle  
 Anchor Length 22' Drill Pipe Run 3125 Mud Wt. 9.0  
 Top Packer Depth 3222 Drill Collars Run 119 Vis 48  
 Bottom Packer Depth 3227 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3249 Chlorides 8200 ppm System LCM 0

Blow Description IF: Strong blow BOB / min  
ISI: NO blow back  
FF: Strong blow BOB / min  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>392'</u>	<u>0, G, W, M</u>	<u>20</u>	<u>10</u>	<u>30</u>	<u>40</u>
<u>310'</u>	<u>0, M, W</u>		<u>5</u>	<u>90</u>	<u>5</u>
<u>1798'</u>	<u>WATER</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2500' BHT 107 Gravity - API RW .18 @ 84 °F Chlorides 75,000 ppm

(A) Initial Hydrostatic 1558  Test T-On Location 2:30  
 (B) First Initial Flow 138  Jars T-Started 2:47  
 (C) First Final Flow 661  Safety Joint T-Open 5:54  
 (D) Initial Shut-In 1011  Circ Sub T-Pulled 8:00  
 (E) Second Initial Flow 701  Hourly Standby T-Out 10:15  
 (F) Second Final Flow 902  Mileage 120 miles 186 Comments \_\_\_\_\_  
 (G) Final Shut-In 1012  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1513  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1336  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1336

Approved By Robert Stevenson Our Representative Chris Stedt

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.

# QUALITY OILWELL CEMENTING, INC.

F

Phone 785-483-2025

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

No. 861

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-11-10	24	20	11	BARTON	KANSAS		10:00 AM
Lease <u>SESSLER</u>		Well No. <u>#9</u>		Location <u>ELMWOOD ST RD 50 E TO 150AVE 1/2 N E T 15</u>			
Contractor <u>SOUTHWIND #4</u>				Owner <u>CASINO PETROLEUM</u>			
Type Job <u>PROD STRING</u>				To Quality Oilwell Cementing, Inc.			
Hole Size <u>7 7/8"</u>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. <u>5 1/2" - 14LB NEW</u>		T.D. <u>3310'</u>		Charge To <u>CASINO PETROLEUM</u>			
Tbg. Size		Depth <u>3301'</u>		Street <u>B Box 415</u>			
Tool		Depth		City <u>ELMWOOD</u> State <u>KS 67526</u>			
Cement Left in Csg.		Shoe Joint <u>20.35'</u>		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>80 BLS</u>		Cement Amount Ordered <u>150 60/40 100/80 100/40 40/60</u>			

### EQUIPMENT

No.	Cement Helper	No.	Driver	Gel.	Common
<u>#15</u>	<u>NICK</u>	<u>#14</u>	<u>LEVY</u>	<u>3</u>	<u>90</u>
<u>DW</u>	<u>GARY</u>				<u>60</u>
					<u>3</u>

### JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt <u>13</u>
Centralizers	Flowseal <u>37#</u>
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48 <u>500 GALS</u>
	CFL-117 or CD110 CAF 38
	Sand
<u>RAW FLOAT EQUIPMENT - DROPPED BALL</u>	Handling <u>166</u>
<u>BORE CIRCULATION - CIRCULATED 5 hr.</u>	Mileage
<u>MADE CONNECTION PUMPED 500 GAL MUD</u>	FLOAT EQUIPMENT
<u>CFR 48 - DOWN CASING - DISCONNECTED</u>	Guide Shoe
<u>RUGGED RAT HOLE 30 SKS - MADE CONNECTION</u>	Centralizer <u>4-5 1/2"</u>
<u>MOVED &amp; PUMPED 1205 SKS DOWN CASING</u>	Baskets
<u>DISCONNECTED WASHED UP PUMP &amp; NEPP</u>	AFU Inserts <u>1-5 1/2"</u>
<u>PLUG - MADE CONNECTION DISCONNECTED</u>	Float Shoe <u>1-5 1/2"</u>
<u>PLUG LANDED &amp; HELD</u>	Latch Down
	<u>1-5 1/2" RUBBER PLUG</u>
<u>THANK YOU!</u>	
	Pumptrk Charge <u>prod Long String</u>
	Mileage <u>22</u>
	Tax
	Discount
X Signature <u>Robert Svenson</u>	Total Charge

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# *GEOLOGICAL REPORT*

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## *CASINO PETROLEUM*

No. 9 Sessler "A"  
2310' FSL & 2240' FWL  
Section 24-20S-11W  
Barton County, Kansas

**Todd E. Morgenstern**

Petroleum Geologist  
Sunflower Bank Building  
P.O. Box 251  
Ellinwood, Kansas 67526

OPERATOR: Casino Petroleum, inc.

WELL: No. 9 Sessler "A" <sup>103</sup>  
API # 15-009-25, ~~478~~-00-00

LOCATION: 2310' from the South Line  
2240' from the West Line  
Section 24-20S-11W  
Barton County, Kansas

FIELD: Chase-Silica

CONTRACTOR: Southwind Drilling Inc. Rig No. 4

DRILLING COMMENCED: 06-05-2012

DRILLING COMPLETED: 06-12-2012

DRILLING TIME: One (1) foot drilling time was recorded  
from 2700' to 3310' RTD.

SAMPLES: Samples were saved and examined from 2800'  
to 3310' RTD.

ELEVATIONS: 1743' Ground Level 1750' Kelly Bushing

MEASUREMENTS: All depths are measured from 1750' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 271' with 250 sxs.60/40 poz  
5 1/2" Production Casing set @ 3301' with 120 sxs.60/40 poz

FORMATION TESTING: One (1) tests was run by Trilobite Testing Inc.

MUD: Mud Co. Inc. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech (CNL/CDL,DIL,MEL,CPI)

PRODUCTION: Production Casing Set for Arbuckle Completion

FORMATION TOPS: ✓

FORMATION	SAMPLE	LOG	DATUM
HEEBNER SHALE	2844'	2844'	-1094'
TORONTO	2858'	2858'	-1110'
DOUGLAS	2875'	2874'	-1124'
BROWN LIME	2967'	2867'	-1217'
LANSING	2986'	2887'	-1237'
ARBUCKLE	3245'	3244'	-1494'
ROTARY TOTAL DEPTH	3310'	3310'	-1560'

SAMPLE DESCRIPTIONS AND TEST DATA:

ARBUCKLE

3245-3249 Dolomite, tan to light brown, finely crystalline, slightly sucrosic with fair to good visible intercrystalline porosity, good odor, fair show of free oil. Fair light brown staining and saturation.  
(Covered by DST No.1)

FORMATION TEST NO. 1			
ARBUCKLE			
Tested from 3227'-3249'			
		I.H.P.	1558#
<i>Strong blow BOB in 1 min</i>	30 min.	I.F.P.	138#-661#
<i>No blow-back</i>	30 min.	<u>I.S.I.P.</u>	<u>1011#</u>
<i>Strong blow BOB in 1 min</i>	30 min.	F.F.P.	701#-902#
<i>No blow-back</i>	30 min.	F.S.I.P.	<u>1012#</u>
		F.H.P.	1513#
<b>(SEE PRESSURE CHARTS AT END OF REPORT)</b>			
RECOVERY:	392' Oil Cut Watery Mud (20% gas, 10% oil, 30% water, 40% mud)		
	310' Oil Cut Muddy Water (5% oil, 90% water, 5% mud)		
	1,798' Water		
TEMPERATURE:	105*		
CHLORIDES:	20,000 ppm (Recovery) 3,600 ppm (System)		

- 3250-3256 Dolomite, tan to light brown, fine crystalline, sucrosic, chalky in part, with fair to good visible intercrystalline porosity, some slight vugular pin holes, some white chert, strong odor, fair show of free oil. Fair light brown staining and saturation.
- 3257-3260 Abundant black waxy shale with dolomite as above.
- 3261-3264 Dolomite, tan to light brown, fine to medium crystalline, rhombic in part, with good visible intercrystalline porosity, fair odor, less show of free oil. Some light brown staining .
- 3285-3290 Dolomite, tan to light brown, fine to medium crystalline, with good visible intercrystalline porosity, no odor, fair show of gassy free oil. Some light brown staining .

**SUMMARY:**

The No. 9 "A" was under geological supervision from 2800' to 3310' RTD. With the positive structural position and oil shows it was decided to run 5 ½" production casing and complete this well through perforations.

Respectfully submitted,

Todd E. Morgenstern  
Petroleum Geologist