

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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 <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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Casino Petroleum, LLC
Well Name	LARRY 3
Doc ID	1374525

All Electric Logs Run

Dual Compensated Porosity Log
Microresistivity
Dual Induction
Sonic Cement Bond

Form	ACO1 - Well Completion
Operator	Casino Petroleum, LLC
Well Name	LARRY 3
Doc ID	1374525

Tops

Name	Top	Datum
ANHYDRITE	535'	+1256'
BASE ANHYDRITE	554'	+1237'
HEEBNER SHALE	2940'	-1149'
TORONTO	2956'	-1165'
DOUGLAS	2972'	-1181'
BROWN LIME	3066'	-1275'
LANSING	3083'	-1292'
ARBUCKLE	3312'	-1521'
ROTARY TOTAL DEPTH	3405'	-1614'



DRILL STEM TEST REPORT

Prepared For: **Casino Petroleum LLC**

PO Box 415
Ellinwood, KS 67526+0415

ATTN: Todd Morgenstern

Larry #3

18-20S-11W Barton,KS

Start Date: 2017.11.25 @ 23:48:00

End Date: 2017.11.26 @ 05:58:02

Job Ticket #: 62089 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.27 @ 13:15:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

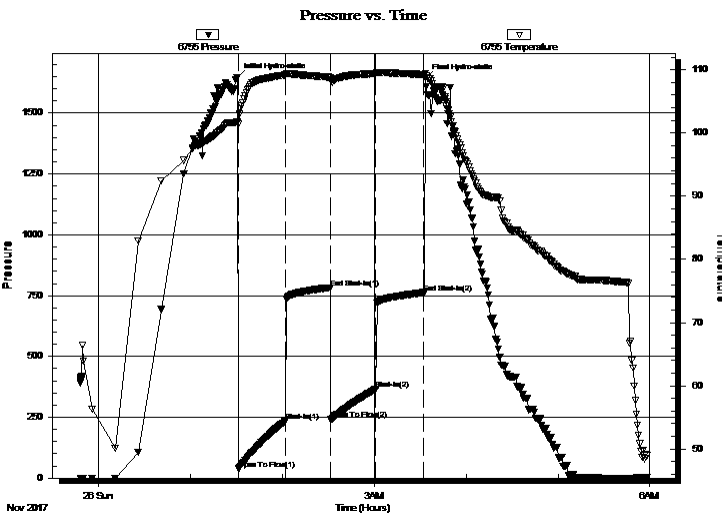
18-20S-11W Barton, KS
Larry #3
 Job Ticket: 62089 **DST#: 1**
 Test Start: 2017.11.25 @ 23:48:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:31:02
 Time Test Ended: 05:58:02
 Interval: **3292.00 ft (KB) To 3314.00 ft (KB) (TVD)**
 Total Depth: 3314.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 1789.00 ft (KB)
 1781.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 366.40 psig @ 3310.00 ft (KB) Capacity: psig
 Start Date: 2017.11.25 End Date: 2017.11.26 Last Calib.: 2017.11.26
 Start Time: 23:48:01 End Time: 05:58:02 Time On Btm: 2017.11.26 @ 01:30:32
 Time Off Btm: 2017.11.26 @ 03:33:32

TEST COMMENT: IF 30 Minutes BOB in 4 1/2 minutes
 ISI 30 Minutes Surface blow back died in 15 minutes
 FF 30 Minutes BOB in 6 1/2 minutes
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.14	101.77	Initial Hydro-static
1	38.19	101.38	Open To Flow (1)
32	235.61	109.19	Shut-In(1)
61	782.66	108.77	End Shut-In(1)
61	240.51	108.48	Open To Flow (2)
91	366.40	109.41	Shut-In(2)
122	762.84	109.24	End Shut-In(2)
123	1643.92	109.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	139 feet of GIP	0.00
480.00	GO Gas 40% Oil 60%	6.73
248.00	GMWCO Mud 5% Water 15% Gas 20%	03.48%
186.00	OCMW Oil 5% Mud 10% Water 85%	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

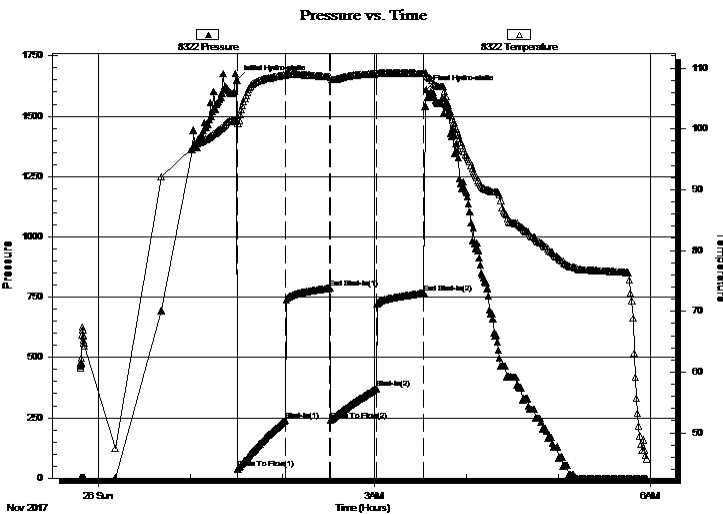
18-20S-11W Barton, KS
Larry #3
 Job Ticket: 62089 **DST#: 1**
 Test Start: 2017.11.25 @ 23:48:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:31:02
 Time Test Ended: 05:58:02
 Interval: **3292.00 ft (KB) To 3314.00 ft (KB) (TVD)**
 Total Depth: 3314.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 1789.00 ft (KB)
 1781.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8322 Outside
 Press@RunDepth: 767.15 psig @ 3311.00 ft (KB) Capacity: psig
 Start Date: 2017.11.25 End Date: 2017.11.26 Last Calib.: 2017.11.26
 Start Time: 23:48:01 End Time: 05:58:02 Time On Btm: 2017.11.26 @ 01:30:17
 Time Off Btm: 2017.11.26 @ 03:33:47

TEST COMMENT: IF 30 Minutes BOB in 4 1/2 minutes
 ISI 30 Minutes Surface blow back died in 15 minutes
 FF 30 Minutes BOB in 6 1/2 minutes
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.77	101.38	Initial Hydro-static
1	39.25	100.89	Open To Flow (1)
32	239.56	108.86	Shut-In(1)
61	786.89	108.56	End Shut-In(1)
61	242.00	108.41	Open To Flow (2)
91	372.96	109.09	Shut-In(2)
122	767.15	109.18	End Shut-In(2)
124	1610.65	109.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	139 feet of GIP	0.00
480.00	GO Gas 40% Oil 60%	6.73
248.00	GMWCO Mud 5% Water 15% Gas 20%	03.48%
186.00	OCMW Oil 5% Mud 10% Water 85%	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

18-20S-11W Barton,KS
Larry #3
 Job Ticket: 62089 **DST#: 1**
 Test Start: 2017.11.25 @ 23:48:00

Tool Information

Drill Pipe:	Length: 3297.00 ft	Diameter: 3.80 inches	Volume: 46.25 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:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 46.25 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3292.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	42.00 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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Shut-In Tool	5.00			3277.00	
Hydraulic tool	5.00			3282.00	
Top Packer	5.00			3287.00	
Packer	5.00			3292.00	20.00 Bottom Of Top Packer
Anchor	17.00			3309.00	
Recorder	1.00	6755	Inside	3310.00	
Recorder	1.00	8322	Outside	3311.00	
Bullnose	3.00			3314.00	22.00 Anchor Tool

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

18-20S-11W Barton,KS
Larry #3
 Job Ticket: 62089 **DST#: 1**
 Test Start: 2017.11.25 @ 23:48:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 25000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.95 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

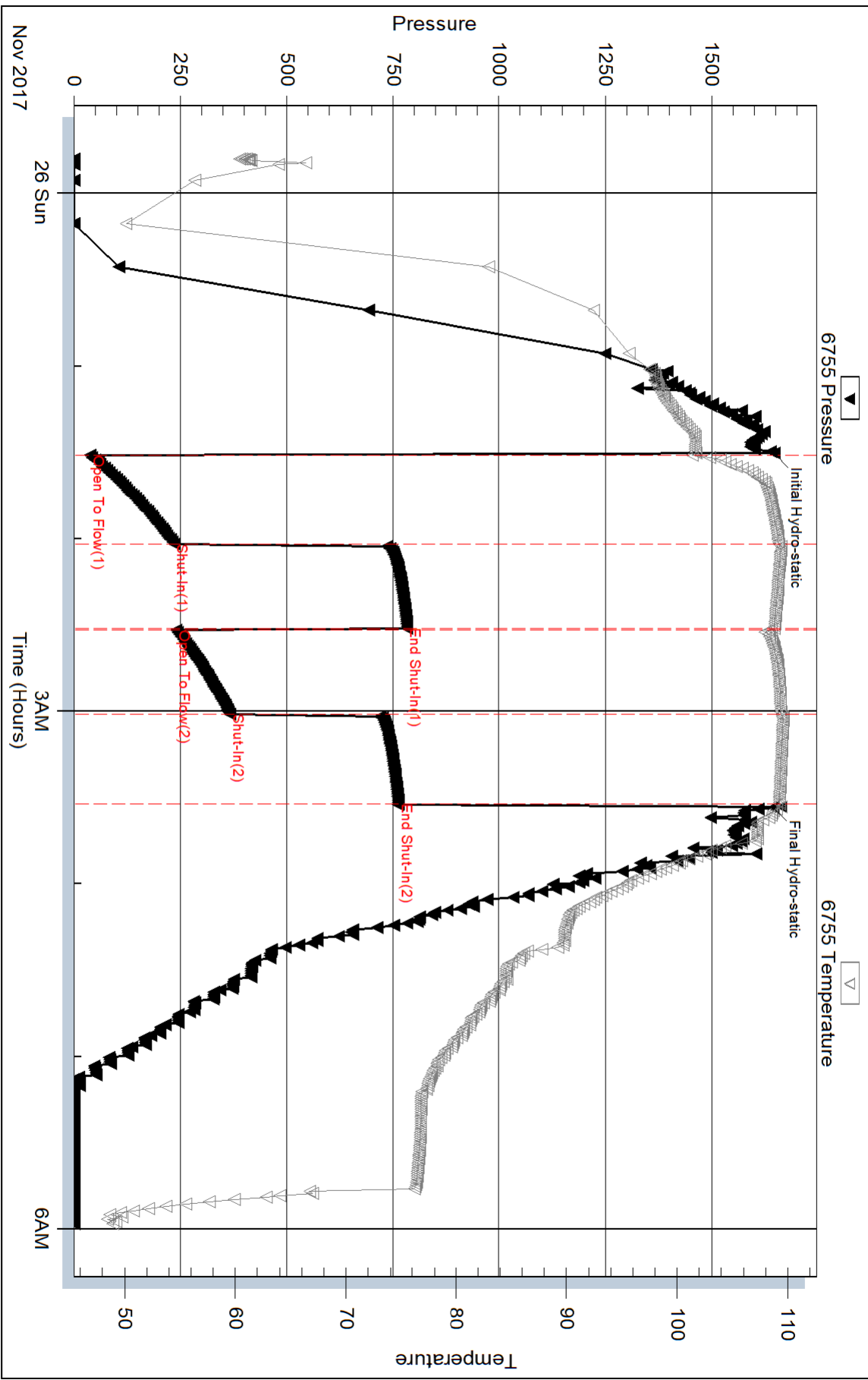
Recovery Information

Recovery Table

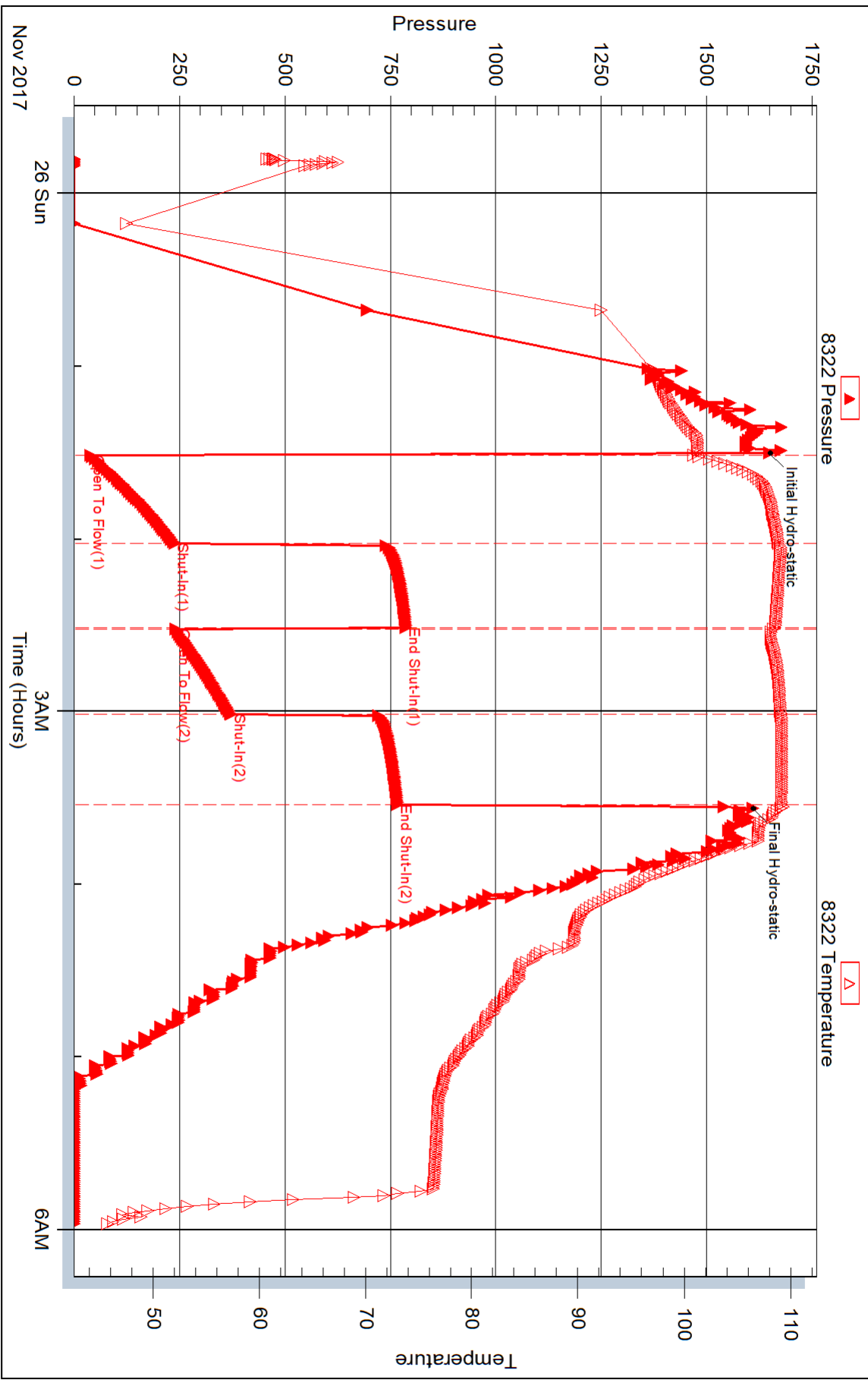
Length ft	Description	Volume bbl
0.00	139 feet of GIP	0.000
480.00	GO Gas 40% Oil 60%	6.733
248.00	GMWCO Mud 5% Water 15% Gas 20% Oil 60	3.479
186.00	OCMW Oil 5% Mud 10% Water 85%	2.609

Total Length: 914.00 ft Total Volume: 12.821 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Recovery Resistivity .451 ohms @ 41 deg

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Casino Petroleum LLC**

PO Box 415
Ellinwood, KS 67526+0415

ATTN: Todd Morgenstern

Larry #3

18-20S-11W Barton,KS

Start Date: 2017.11.26 @ 13:40:00

End Date: 2017.11.26 @ 17:10:17

Job Ticket #: 62090 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.11.27 @ 13:05:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

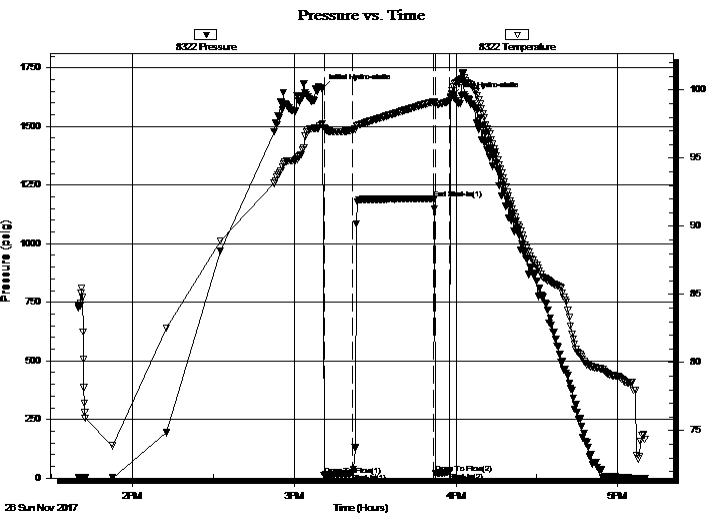
18-20S-11W Barton, KS
Larry #3
 Job Ticket: 62090 **DST#: 2**
 Test Start: 2017.11.26 @ 13:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:11:02 Tester: Ken Swinney
 Time Test Ended: 17:10:17 Unit No: 72
 Interval: **3350.00 ft (KB) To 3355.00 ft (KB) (TVD)** Reference Elevations: 1789.00 ft (KB)
 Total Depth: 3355.00 ft (KB) (TVD) 1781.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8322 Outside
 Press@RunDepth: 19.82 psig @ 3352.00 ft (KB) Capacity: psig
 Start Date: 2017.11.26 End Date: 2017.11.26 Last Calib.: 2017.11.26
 Start Time: 13:40:01 End Time: 17:10:17 Time On Btm: 2017.11.26 @ 15:10:32
 Time Off Btm: 2017.11.26 @ 15:58:17

TEST COMMENT: IF 10 Minutes Few bubbles at open then dead
 ISI 30 Minutes No blow back
 FF 5 Minutes Few bubbles at open then dead - Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.44	97.53	Initial Hydro-static
1	13.40	97.26	Open To Flow (1)
11	19.82	97.05	Shut-In(1)
42	1190.05	99.11	End Shut-In(1)
42	21.59	98.98	Open To Flow (2)
47	24.60	99.19	Shut-In(2)
48	1627.05	99.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil 100%	0.04
20.00	OCMW Oil 5% Mud 40% Water 55%	0.28

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

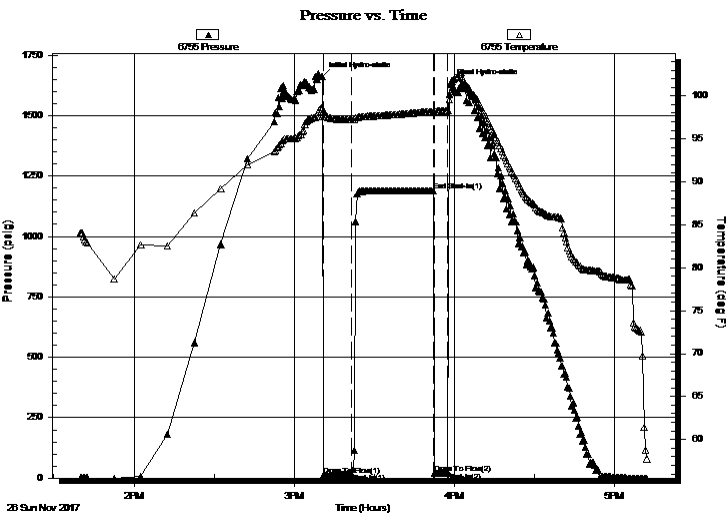
18-20S-11W Barton, KS
Larry #3
 Job Ticket: 62090 **DST#: 2**
 Test Start: 2017.11.26 @ 13:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:11:02 Tester: Ken Swinney
 Time Test Ended: 17:10:17 Unit No: 72
 Interval: **3350.00 ft (KB) To 3355.00 ft (KB) (TVD)** Reference Elevations: 1789.00 ft (KB)
 Total Depth: 3355.00 ft (KB) (TVD) 1781.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6755 Inside
 Press@RunDepth: 1188.29 psig @ 3351.00 ft (KB) Capacity: psig
 Start Date: 2017.11.26 End Date: 2017.11.26 Last Calib.: 2017.11.26
 Start Time: 13:40:01 End Time: 17:12:17 Time On Btm: 2017.11.26 @ 15:10:32
 Time Off Btm: 2017.11.26 @ 15:58:32

TEST COMMENT: IF 10 Minutes Few bubbles at open then dead
 ISI 30 Minutes No blow back
 FF 5 Minutes Few bubbles at open then dead - Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.98	98.66	Initial Hydro-static
1	11.84	98.15	Open To Flow (1)
11	18.11	97.23	Shut-In(1)
42	1188.29	98.22	End Shut-In(1)
42	20.05	98.15	Open To Flow (2)
47	22.82	98.27	Shut-In(2)
48	1633.04	101.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Clean Oil 100%	0.04
20.00	OCMW Oil 5% Mud 40% Water 55%	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

18-20S-11W Barton, KS
Larry #3
 Job Ticket: 62090 **DST#: 2**
 Test Start: 2017.11.26 @ 13:40:00

Tool Information

Drill Pipe:	Length: 3361.00 ft	Diameter: 3.80 inches	Volume: 47.15 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3350.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	25.00 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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Shut-In Tool	5.00			3335.00	
Hydraulic tool	5.00			3340.00	
Top Packer	5.00			3345.00	
Packer	5.00			3350.00	20.00 Bottom Of Top Packer
Recorder	1.00	6755	Inside	3351.00	
Recorder	1.00	8322	Outside	3352.00	
Bullnose	3.00			3355.00	5.00 Anchor Tool

Total Tool Length: 25.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Casino Petroleum LLC
 PO Box 415
 Ellinwood, KS 67526+0415
 ATTN: Todd Morgenstern

18-20S-11W Barton,KS
Larry #3
 Job Ticket: 62090 **DST#: 2**
 Test Start: 2017.11.26 @ 13:40:00

Mud and Cushion Information

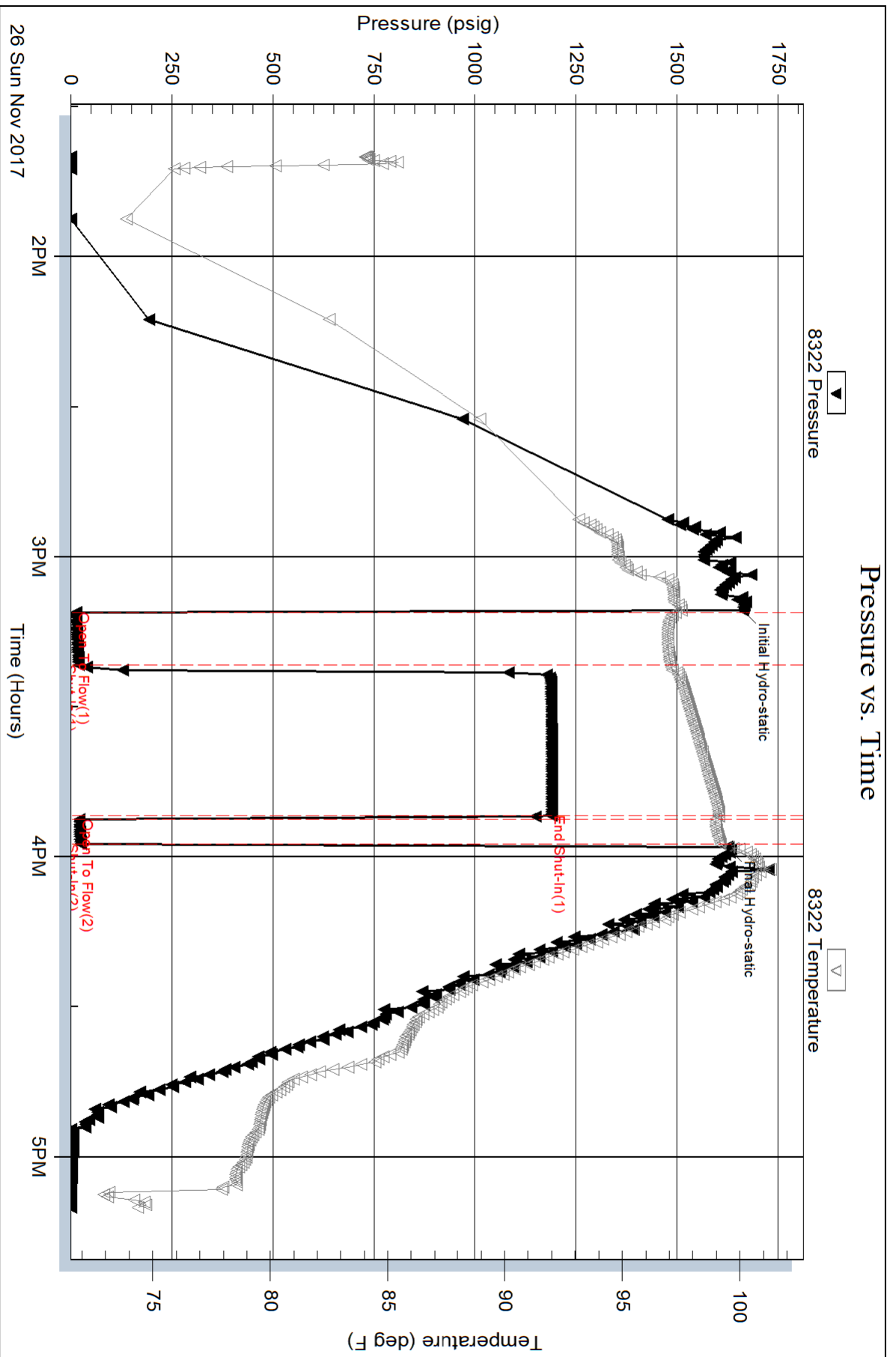
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	22000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Clean Oil 100%	0.042
20.00	OCMW Oil 5% Mud 40% Water 55%	0.281

Total Length: 23.00 ft Total Volume: 0.323 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Recovery Resistivity .30 ohms @ 68 deg.



Serial #: 6755

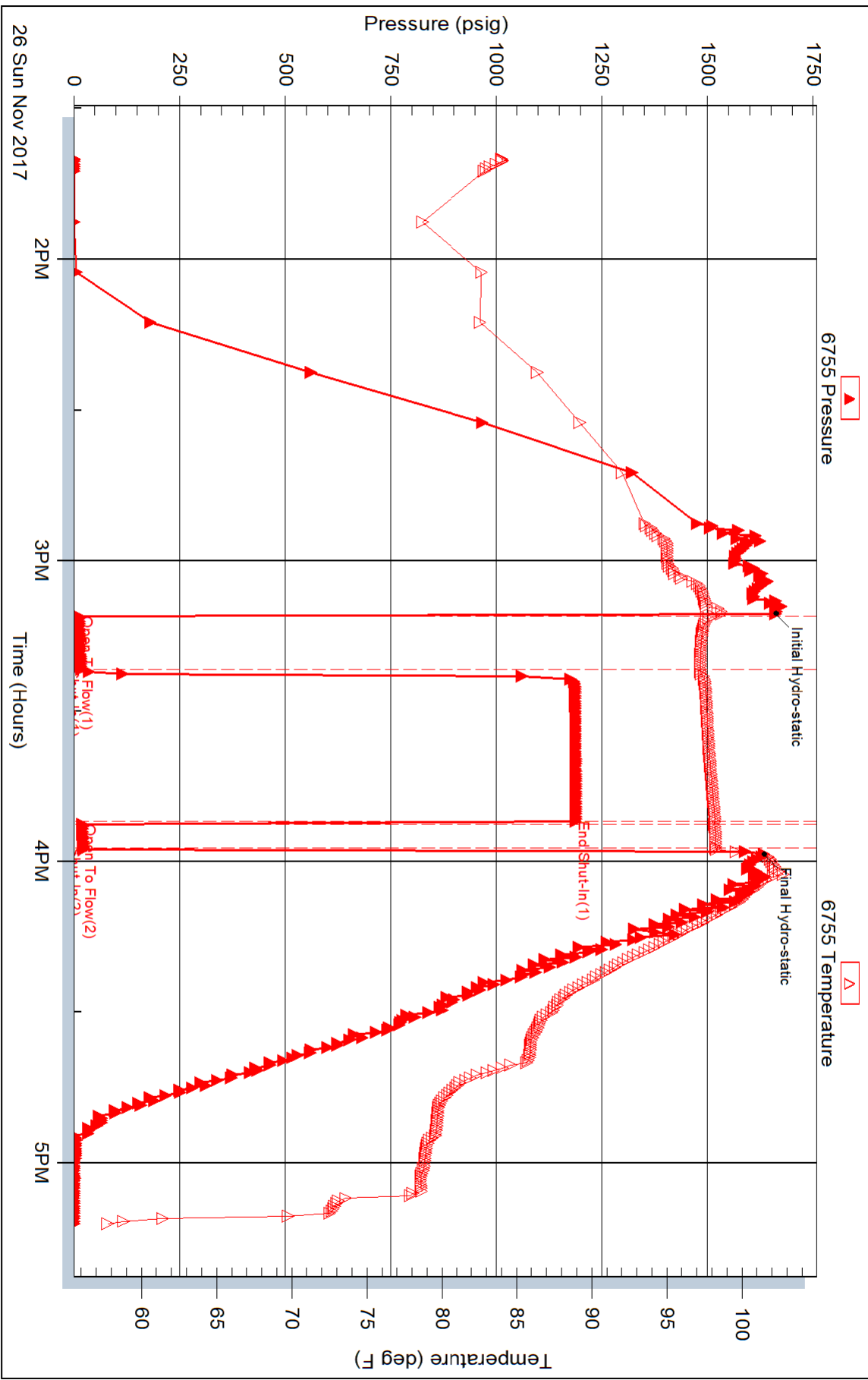
Inside

Casino Petroleum LLC

Larry #3

DST Test Number: 2

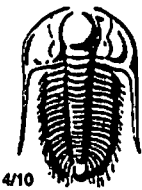
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 62090

Printed: 2017.11.27 @ 13:05:12



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62089

Well Name & No. Larry #3 Test No. 1 Date 25 NOV 17
 Company Casino Petroleum LLC Elevation 1789 KB 1781 GL
 Address PO Box 415 Ellinwood Kansas 67526-0415
 Co. Rep / Geo. Todd Morgenstern Rig Southwind Rig 1
 Location: Sec. 18 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3292-3314 Zone Tested Arbuckle
 Anchor Length 22 Drill Pipe Run 3297 Mud Wt. 9.1
 Top Packer Depth 3287 Drill Collars Run - Vis 53
 Bottom Packer Depth 3292 Wt. Pipe Run - WL 8.0
 Total Depth 3314 Chlorides 5000 ppm System LCM 177

Blow Description I.F. Blow built to BOB in 4 1/2 minutes
I.S.E. Surface blow back died in 15 minutes
F.F. Blow built to BOB in 6 1/2 minutes
F.S.E. No blow back

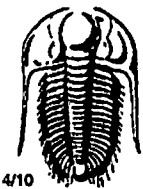
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>GIIP</u>	<u>100</u>			
<u>480</u>	<u>Gassy Oil</u>	<u>40</u>	<u>60</u>		
<u>248</u>	<u>Mud & Water cut Gassy Oil</u>	<u>20</u>	<u>60</u>	<u>15</u>	<u>5</u>
<u>186</u>	<u>Oil cut Muddy Water</u>		<u>5</u>	<u>85</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 914 BHT 109 Gravity 38 API RW .451 @ 41 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic 1648 Test 1050 T-On Location 11:22 pm
 (B) First Initial Flow 38 Jars _____ T-Started 11:48 pm
 (C) First Final Flow 235 Safety Joint _____ T-Open 1:30 am
 (D) Initial Shut-In 782 Circ Sub _____ T-Pulled 3:30 am
 (E) Second Initial Flow 240 Hourly Standby _____ T-Out 5:58 am
 (F) Second Final Flow 366 Mileage 19.50 26 _____
 (G) Final Shut-In 762 Sampler _____
 (H) Final Hydrostatic 1643 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1069.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1069.50

Approved By Todd Morgenstern 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62090

Well Name & No. Larry #3 Test No. 2 Date 26 NOV 17
 Company Casino Petroleum LLC Elevation 1789 KB 1781 GL
 Address PO Box 415 Ellinwood Kansas 67526+0415
 Co. Rep / Geo. Todd Morgenstern Rig Southwind Rig 1
 Location: Sec. 18 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3350-3355 Zone Tested Arbuckle
 Anchor Length 5 Drill Pipe Run 3361 Mud Wt. 9.3
 Top Packer Depth 3345 Drill Collars Run — Vis 48
 Bottom Packer Depth 3350 Wt. Pipe Run — WL 8.8
 Total Depth 3355 Chlorides 5000 ppm System LCM 1/2 #

Blow Description I.F. Few bubbles at open then dead
I.S.I No blow back
F.F. Few bubbles at open then dead / Pull test

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>clean 0.1'</u>		<u>100%</u>		
<u>20</u>	<u>0.1 cut Muddy Water</u>		<u>5%</u>	<u>55%</u>	<u>40%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 23 BHT 100 Gravity _____ API RW .30 @ 68 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic <u>1662</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>12:45 pm</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars _____	T-Started <u>1:40 pm</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>3:11 pm</u>
(D) Initial Shut-In <u>1190</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>3:59 pm</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:12 pm</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>19.50</u> <u>26</u>	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1627</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>5</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Total <u>1069.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1069.50</u>	

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

CASINO PETROLEUM

Larry #3
810' FNL & 2970' FEL
Section 18-20S-11W
Barton County, Kansas

Todd E. Morgenstern

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

OPERATOR: Casino Petroleum

WELL: Larry #3
API # 15-009-26193-00-00

LOCATION: 810' from the North Line
2970' from the East Line
Section 18-20S-11W
Barton County, Kansas

FIELD: Chase-Silica

CONTRACTOR: Southwind Drilling Inc. Rig No. 1

DRILLING COMMENCED: 11.21.17

DRILLING COMPLETED: 11.27.17

DRILLING TIME: Started at 2900' – 3405' (RTD)

SAMPLES: Started at 2900' – 3405' (RTD)

ELEVATIONS: 1781' Ground Level / 1791' Kelly Bushing

MEASUREMENTS: All depths are measured from 1791' K.B.

CASING RECORD: Ran 9 joints of new 23# 8 5/8" casing; Tally @ 250, Set @ 261', used 275 sacks of 60/40 poz, 2% gel, 2% cc, cement circulated, by Copeland (Ticket #C45256), plug down @ 7:45 pm on 11.21.17.

Ran 80 joints of 5 1/2" casing; Tally @ 3488', Set @ 3498', used 125 sacks of 60/40 poz, 2% gel, 12% salt, cement circulated, by Copeland Ticket #C45947 , plug down @ 1:15 pm on 11.27.17.

FORMATION TESTING: Two (2) Tests were run by Trilobite Testing Inc.

MUD: Andy's Mud (Chemical Mud)

OPEN HOLE LOGS: Pioneer Energy Services (CNL/CDL, DIL, MEL)

PRODUCTION: Oil / Arbuckle

FORMATION TOPS:

TOP

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE		535'	+1256'
BASE ANHYDRITE		554'	+1237'
HEEBNER SHALE	2941'	2940'	-1149'
TORONTO	2956'	2956'	-1165'
DOUGLAS	2973'	2972'	-1181'
BROWN LIME	3067'	3066'	-1275'
LANSING	3083'	3083'	-1292'
ARBUCKLE	3312'	3312'	-1521'
ROTARY TOTAL DEPTH	3405'	3405'	-1614'

SAMPLE DESCRIPTIONS AND TEST DATA:**LANSING KANSAS CITY**

3102' – 3108' Limestone, cream, finely crystalline, chalky, trace of intercrystalline porosity, trace of brown stain, light show of free oil, faint odor. (Perforate before abandoning)

3121' – 3126' Limestone, cream to light gray, fossiliferous with some interfossil porosity, trace of stain, faint odor. (Perforate before abandoning)

3141' – 3146' Limestone, cream to buff, finely crystalline, dense, slightly chalky with rare intercrystalline porosity, trace of scattered staining, questionable odor.

ARBUCKLE

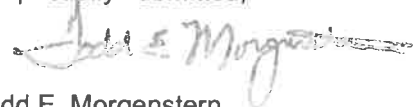
3312' – 3314' Dolomite, tan, fine to medium crystalline, sucrosic, fair to good intercrystalline porosity, brown staining, show of free oil, strong odor. (Covered by DST #1 – 3292' – 3314', See pressure charts attached)

3350' – 3355' Dolomite, cream to buff, finely crystalline with scattered intercrystalline and buggy type porosity, brown staining and saturation, show of free oil, fair to good odor. (Covered by DST #2 – 3350' – 3355', See pressure charts attached)

SUMMARY:

The Larry #3 was under geological supervision from 2900' – 3405' RTD. With the higher structural position and positive results of DST #1 it was recommended that 5 1/2" production casing be run and the Larry #3 be completed through Arbuckle perforations.

Respectfully submitted,



Todd E. Morgenstern



FIELD ORDER N° C 45947

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 11/27/17 20

IS AUTHORIZED BY: Casino Petroleum (NAME OF CUSTOMER)
 Address _____ City _____ State _____
 To Treat Well _____
 As Follows: Lease Larry Well No. #3 Customer Order No. _____
 Sec. Twp. _____
 Range _____ County Barton State K

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator _____ By _____ Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	10 7	mileage pump truck	4. ⁰⁰	28 00 .00
2	10 7	mileage pickup	2. ⁰⁰	14 00 .00
2	1	Pump Check - Long Strips		1,600.00
2	175	60/40 por. 2% slt.	10. ²⁹	1,881.75
2	1,050 #	Salt	.25	262.50
2	900 #	Gilsonite	.75	675.00
2	100 #	C-37 - Friction Reducer	4. ⁰⁰	400.00
2	100 #	C-12 - Fluid Loss	6. ⁰⁰	600.00
2	50 #	C-41p - Defoamer	3. ⁷⁵	187.50
2	1	Rotating Head Rental		250.00
2	5	Turbo-Controllers	85. ⁰⁰	425.00
2	2	Baskets	155. ⁰⁰	310.00
2	1	5/8" Latch down plug & baffle		175.00
2	1	5/8" float shoe w/ auto-fill		355.00
2	600	Mud-Flush	.75	450.00
2	219	Bulk Charge	1. ²⁵	273.75
2		Bulk Truck Miles 8.89T x 10 7 ^{62.23} x 1.19	mi-	150.00
		Process License Fee on _____ Gallons		8,037.00
		TOTAL BILLING	15%	1205.55
				6831.45

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Nathan W.

Station G.B.

Chris B.
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



TREATMENT REPORT

Acid Stage No. _____

Date 11/27/2017 District G.B. F.O. No. C45947
 Company Casino Petroleum
 Well Name & No. Larry #3
 Location _____ Field _____
 County Barton State KS

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand
 Bkdown _____ Bbl./Gal. _____
 _____ Bbl./Gal. _____
 _____ Bbl./Gal. _____
 _____ Bbl./Gal. _____
 Flush _____ Bbl./Gal. _____

Casing: Size 5.5" Type & Wt. 17.0# Set at _____ ft.
 Formation: Arbuckle Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.
 Cemented: Perforated from _____ ft. to _____ ft.
 Tubing: Size & Wt. _____ Swung at _____ ft.
 Perforated from _____ ft. to _____ ft.

Treated from _____ ft. to _____ ft. No. ft. 0
 from _____ ft. to _____ ft. No. ft. 0
 from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____
 Auxiliary Equipment 360/310
 Personnel Nathan-Greg-Eddy
 Auxiliary Tools _____

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Plugging or Sealing Materials: Type _____ Gals. _____ lb.

Company Representative Chris B. Treater Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	a.m./p.m.	Tubing		
8:15		5.5"		On Location. Run float equipment.
				5.5" 17.0# Casing-3397' Centralizers-1,2,4,5,7
				Baffle-3379' Baskets-2,4
				Run in hole casing. Tag bottom and pick back up.
				Break circulation with mud pump. Circulate for 1 hour.
				Pump 600gal of Mud Flush.
				Plug Rat Hole with 30sks
				Plug Mouse Hole with 20sks
				Mix 125sks 60/40poz 2%gel 12% Salt .75%C-37 .25%C-12 .25%C-41p
				5#/sk Gilsonite.
				Wash out pump and lines.
				Displace with 78.3bbls at 6.25bpm-650# Plug landed at 1000#
1:15				Released pressure. Float Held.
				Thank You!
				Nathan W.



FIELD ORDER N° C 45256

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 11-21 2017

IS AUTHORIZED BY: CASINO Petroleum Co.
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease LARRY Well No. 3 Customer Order No. _____

Sec. Twp. Range 18-20S-11W County BARTON State Ks.

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator _____ By _____ Agent _____

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	7	Mileage Pickup	2.00	14.00
2	7	Mileage Pump Truck	4.00	28.00
2	1	Pump Chg.	1100.00	1100.00
2	275sx	60-40 Pozmix 270 Gel	10.75	2956.25
2	15sx	Calcium Chloride	30.00	450.00
2	290	Bulk Charge	1.25	362.50
2	7	Bulk Truck Miles $12.47 = 87.29 \times 1.10$ MIN Del		150.00
		Process License Fee on _____ Gallons		5060.75
		TOTAL BILLING		1012.15
				4048.60

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Duane Brozek

Station Gr. Bena, Ks.

Chris Batchman
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

COPELAND

Acid & Cement

BURRTON, KS (620) 463-5161
 GREAT BEND, KS (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

Page: 1

INVOICE NUMBER:
C45256-IN

BILL TO:
CASINO PETROLEUM COMPANY
P.O. BOX 415
ELLINWOOD, KS 67526

LEASE: LARRY #3

received
 CB

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
11/27/2017	C45256		11/21/2017		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
7.00	MI	MILEAGE PICKUP		20.00	2.00	11.20
7.00	MI	MILEAGE CEMENT PUMP TRUCK		20.00	4.00	22.40
1.00	EA	CEMENT PUMP CHARGE		20.00	1,100.00	880.00
275.00	SK	60/40 POZ MIX 2% GEL		20.00	10.75	2,365.00
15.00	SK	CALCIUM CHLORIDE		20.00	30.00	360.00
290.00	EA	BULK CHARGE		20.00	1.25	290.00
1.00	MI	BULK TRUCK - TON MILES-MIN CHG		20.00	150.00	120.00
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		4,048.60
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		BATCO Sales Tax:		77.52
		NET 30 DAYS		Invoice Total:		4,126.12

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.

COPELAND

Acid & Cement

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

X

INVOICE NUMBER:
C45947-IN

BILL TO:
CASINO PETROLEUM COMPANY
P.O. BOX 415
ELLINWOOD, KS 67526

LEASE: LARRY #3

received
 CB

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
11/29/2017	C45947		11/27/2017		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
7.00	MI	MILEAGE CEMENT PUMP TRUCK		15.00	4.00	23.80
7.00	MI	MILEAGE PICKUP		15.00	2.00	11.90
1.00	EA	PUMP CHARGE-LONG STRING		15.00	1,600.00	1,360.00
175.00	SK	60/40 POZ MIX 2% GEL		15.00	10.75	1,599.06
1,050.00	LB	FINE SALT		15.00	0.25	223.13
900.00	LB	GILSONITE		15.00	0.75	573.75
100.00	LB	FRICTION REDUCER C-37		15.00	4.00	340.00
100.00	LB	FLUID LOSS C-12		15.00	6.00	510.00
50.00	LB	DEFOAMER C41P		15.00	3.75	159.38
1.00	EACH	ROTATING HEAD RENTAL		15.00	250.00	212.50
2.00	EACH	BASKETS		15.00	155.00	263.50
5.00	EACH	TURBO-CENTRALIZERS		15.00	85.00	361.25
1.00	EA	5 1/2 LATCH DOWN PLUG & BAFFLE		15.00	175.00	148.75
1.00	EA	5 1/2 FLOAAT SHOE W/AUTO FILL		15.00	355.00	301.75
600.00	GAL	MUD FLUSH		15.00	0.75	382.50
219.00	EA	BULK CHARGE		15.00	1.25	232.69

Continued

LAND**Acid & Cement**

POST OFFICE BOX 438
 HAYSVILLE, KS 67060
 (316) 524-1225
 (316) 524-1027 FAX

Invoice

Page: 2

BURRTON, KS ♦ GREAT BEND, KS
 (620) 463-5161 (620) 793-3366
 FAX (620) 463-2104 FAX (620) 793-3536

INVOICE NUMBER:
C45947-IN

BILL TO:
CASINO PETROLEUM COMPANY
P.O. BOX 415
ELLINWOOD, KS 67526

LEASE: LARRY #3

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS	
11/29/2017	C45947		11/27/2017		NET 30	
QUANTITY	U/M	ITEM NO./DESCRIPTION		D/C	PRICE	EXTENSION
1.00	MI	BULK TRUCK - TON MILES MIN CHG		15.00	150.00	127.50
REMIT TO: P.O. BOX 438 HAYSVILLE, KS 67060		COP		Net Invoice:		6,831.46
RECEIVED BY _____		FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.		BATCO Sales Tax:		163.97
		NET 30 DAYS		Invoice Total:		6,995.43

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service
 Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code.