

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) (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	Prospect Oil & Gas Corp
Well Name	ORTH-ALTENBAUMER 1-12
Doc ID	1468526

All Electric Logs Run

DUAL INDUCTION
COMPENSATED NEUTRON
COMPENSATED FORMATION DENSITY
GAMMA RAY
MICROLOG

Form	ACO1 - Well Completion
Operator	Prospect Oil & Gas Corp
Well Name	ORTH-ALTENBAUMER 1-12
Doc ID	1468526

Tops

Name	Top	Datum
ANYHDRITE	392	+339
HEEBNER	2754	-1023
TORONTO	2777	-1046
DOUGLAS	2788	-1057
BROWN LIME	2879	-1148
LANSING	2910	-1179
CONGLOMERATE	3250	-1519
ARBUCKLE	270	-1539

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1444

Date	6-14-19	Sec.	12	Twp.	19	Range	10	County	Rice	State	KS	On Location		Finish	5:30 A.M.
------	---------	------	----	------	----	-------	----	--------	------	-------	----	-------------	--	--------	-----------

Lease Orth-Altenburger Well No. 1-12 Location Clifton E to 4th Rd 8s TR 2E 1/4 NE 1/4

Contractor Discovery #9 Owner To Quality Oilwell Cementing, Inc.
 Type Job Surface 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. 305 Charge To Prospect Oil & Gas
 Csg. 8 5/8 20# Depth 304

Tbg. Size _____ Depth _____ Street _____
 Tool _____ Depth _____ City _____ State _____

Cement Left in Csg. 15' Shoe Joint _____ The above was done to satisfaction and supervision of owner agent or contractor.
 Meas Line _____ Displace 18 BBL Cement Amount Ordered 250 80/100 3/4 2/4 GEL

EQUIPMENT

Pumptrk	18	No.	Cement	Common	200
			Helper	Poz. Mix	50
Bulktrk		No.	Driver	Gel.	5
			Driver	Calcium	9
Bulktrk	9	No.	Driver		
			Driver		

JOB SERVICES & REMARKS

Remarks: _____
 Rat Hole _____
 Mouse Hole _____
 Centralizers _____
 Baskets _____
 D/V or Port Collar _____
 Sand _____
 Handling 264
 Mileage _____

FLOAT EQUIPMENT

Guide Shoe _____
 Centralizer _____
 Baskets _____
 AFU Inserts _____
 Float Shoe _____
 Latch Down _____

8 5/8 on bottom - Est Circulation
Mix 250/100 Displace
Cement (Circulated)!

Thanks

Pumptrk Charge Surface
 Mileage 27

X Signature John Smith

Tax _____
 Discount _____
 Total Charge _____

QUALITY OILWELL CEMENTING, INC.

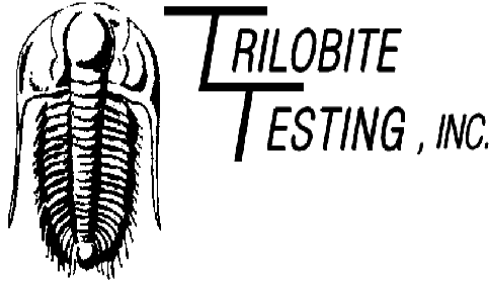
Federal Tax I.D.# 20-2886107

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

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

No. 1457

Date	6-21-19	Sec.	12	Twp.	19	Range	10	County	Rice	State	Ks	On Location		Finish	1:00 AM
Lease								Location		Clafin - E to 4th Rd, S5 to I Rd, 2E					
Well No.								1-12							
Contractor								Discovery #4							
Type Job								Plug							
Hole Size								7 7/8"							
Csg.								T.D. 3270'							
Tbg. Size								4 1/2" D.P. Depth 3270'							
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace H2O / mud							
EQUIPMENT															
Pumptrk		17		No.		Cementer		Tony L.							
Bulktrk		3		No.		Driver		Tim							
Bulktrk		P.U.		No.		Driver		Rick							
JOB SERVICES & REMARKS															
Remarks: 3270' - 35 5x															
Rat Hole 1200' - 35 5x															
Mouse Hole 850' - 35 5x															
Centralizers 340' - 35 5x															
Baskets 60' - 25 5x															
DV or Port Collar Rathole w/ 30 5x															
Mousehole w/ 20 5x															
Cement did Circulate															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumptrk Charge Plug															
Mileage 27															
Tax															
Discount															
Total Charge															
Signature <i>Bob Dahl</i>															



DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchison

Orth-Altenbaumer1-12

12-19s-10w Rice,KS

Start Date: 2019.06.17 @ 07:31:00

End Date: 2019.06.17 @ 14:06:39

Job Ticket #: 65791 DST #: 1

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

Printed: 2019.06.21 @ 09:52:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchison

12-19s-10w Rice, KS
Orth-Altenbaumer1-12
 Job Ticket: 65791 **DST#: 1**
 Test Start: 2019.06.17 @ 07:31:00

GENERAL INFORMATION:

Formation: **Toronto - Douglas**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:30:40 Tester: Benny Mulligan
 Time Test Ended: 14:06:39 Unit No: 66
 Interval: **2745.00 ft (KB) To 2830.00 ft (KB) (TVD)** Reference Elevations: 1731.00 ft (KB)
 Total Depth: 2830.00 ft (KB) (TVD) 1723.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

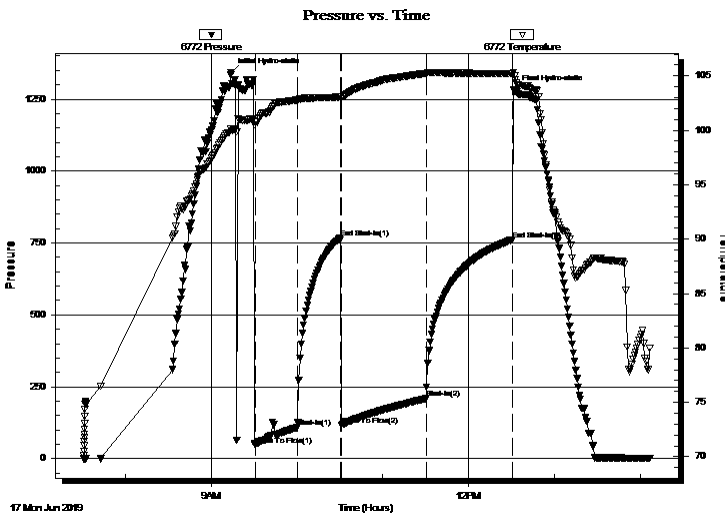
Serial #: 6772

Inside

Press@RunDepth: 209.24 psig @ 2746.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.17 End Date: 2019.06.17 Last Calib.: 2019.06.17
 Start Time: 07:31:01 End Time: 14:06:40 Time On Btm: 2019.06.17 @ 09:14:00
 Time Off Btm: 2019.06.17 @ 12:32:20

TEST COMMENT: IF-30-BOB 25 mins built to 14"
 ISI-30- no blow back
 FF-60- BOB 17 mins built to 31"
 FSI-60- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1342.84	100.15	Initial Hydro-static
17	47.79	100.77	Open To Flow (1)
47	108.89	102.77	Shut-In(1)
77	767.89	103.07	End Shut-In(1)
78	117.17	102.94	Open To Flow (2)
137	209.24	105.22	Shut-In(2)
197	761.73	105.19	End Shut-In(2)
199	1281.45	104.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	W 100%W	1.40
120.00	M.W 30%M 70%W	1.68
120.00	W.M. 20%W 80%M	1.68
30.00	M 100%M	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65791 **DST#: 1**
Test Start: 2019.06.17 @ 07:31:00

Tool Information

Drill Pipe:	Length: 2727.00 ft	Diameter: 3.80 inches	Volume: 38.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 38.40 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	2745.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 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			2726.00	
Shut In Tool	5.00			2731.00	
Hydraulic tool	5.00			2736.00	
Packer	5.00			2741.00	20.00 Bottom Of Top Packer
Packer	4.00			2745.00	
Stubb	1.00			2746.00	
Recorder	0.00	6772	Inside	2746.00	
Recorder	0.00	6769	Outside	2746.00	
Perforations	16.00			2762.00	
Change Over Sub	1.00			2763.00	
Drill Pipe	63.00			2826.00	
Change Over Sub	1.00			2827.00	
Bullnose	3.00			2830.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

12-19s-10w Rice,KS

PO Box 837
Russell KS 67665+0837

Orth-Altenbaumer1-12

Job Ticket: 65791 **DST#: 1**

ATTN: Brad Hutchison

Test Start: 2019.06.17 @ 07:31:00

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:	125000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

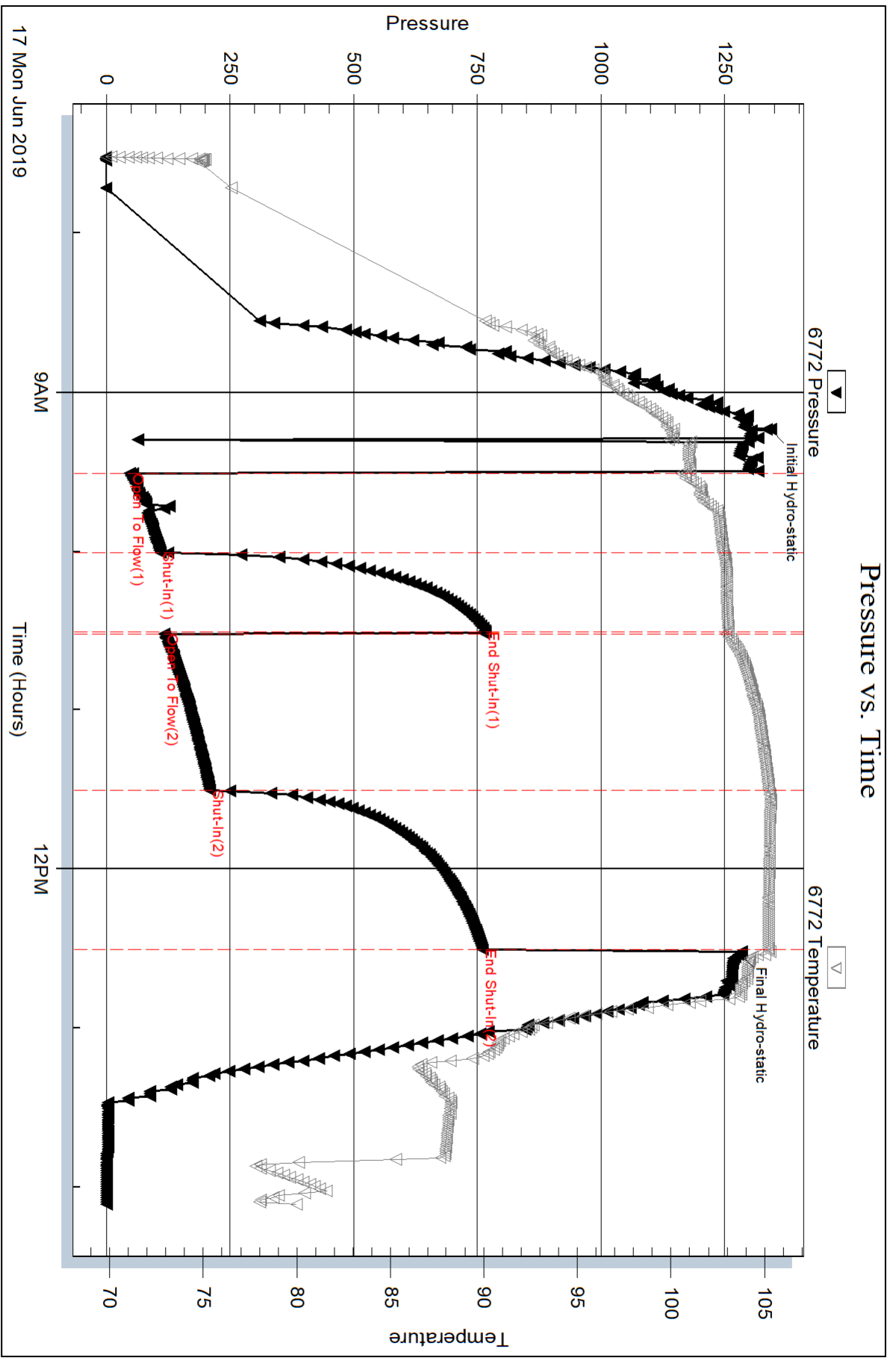
Length ft	Description	Volume bbl
120.00	W 100%W	1.401
120.00	M.W 30%M 70%W	1.683
120.00	W.M. 20%W 80%M	1.683
30.00	M 100%M	0.421

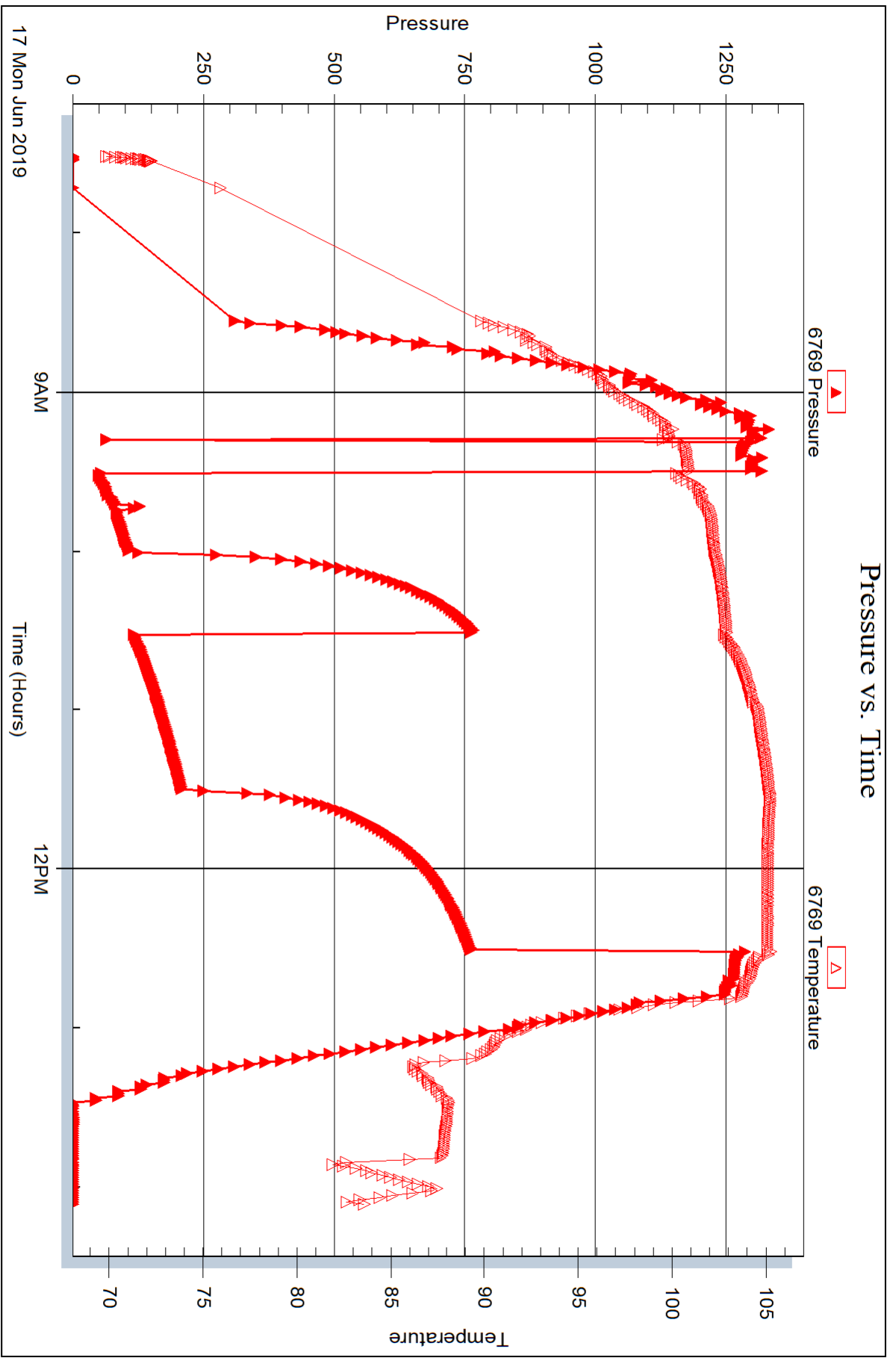
Total Length: 390.00 ft Total Volume: 5.188 bbl

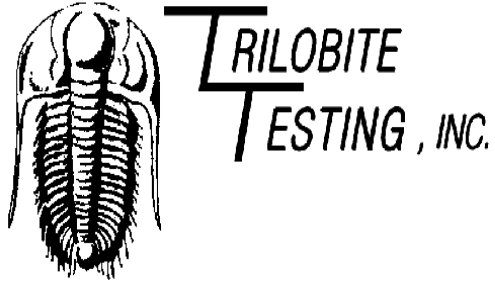
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 0.053@90.7







DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchison

Orth-Altenbaumer1-12

12-19s-10w Rice,KS

Start Date: 2019.06.18 @ 12:10:00

End Date: 2019.06.18 @ 18:17:39

Job Ticket #: 65792 DST #: 2

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

Printed: 2019.06.21 @ 09:52:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchison

12-19s-10w Rice, KS
Orth-Altenbaumer1-12
 Job Ticket: 65792 **DST#: 2**
 Test Start: 2019.06.18 @ 12:10:00

GENERAL INFORMATION:

Formation: **BKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:17:40
 Time Test Ended: 18:17:39
 Interval: **3115.00 ft (KB) To 3180.00 ft (KB) (TVD)**
 Total Depth: 3180.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Reference Elevations: 1731.00 ft (KB)
 1723.00 ft (CF)
 KB to GR/CF: 8.00 ft

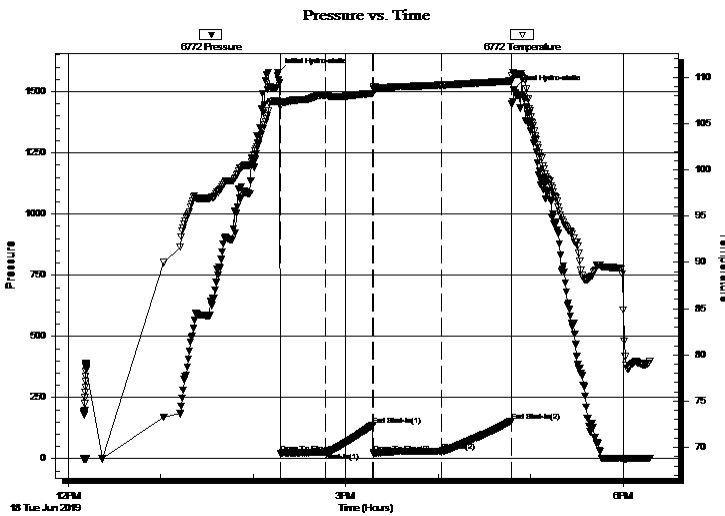
Serial #: 6772

Inside

Press@RunDepth: 31.51 psig @ 3116.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.18 End Date: 2019.06.18 Last Calib.: 2019.06.18
 Start Time: 12:10:01 End Time: 18:17:40 Time On Btm: 2019.06.18 @ 14:16:10
 Time Off Btm: 2019.06.18 @ 16:49:00

TEST COMMENT: IF-30- built to 9"
 ISI-30- no blow back
 FF-45- built to 10 1/2"
 FSI-45- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.63	107.37	Initial Hydro-static
2	20.34	106.86	Open To Flow (1)
31	26.65	108.04	Shut-In(1)
62	137.98	108.25	End Shut-In(1)
62	20.31	109.01	Open To Flow (2)
106	31.51	109.15	Shut-In(2)
152	153.75	109.59	End Shut-In(2)
153	1509.18	110.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	G.S.O.C.M. 10%O 20%G 70%M	0.35
0.00	G.I.P 200'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice, KS
Orth-Altenbaumer1-12
Job Ticket: 65792 **DST#: 2**
Test Start: 2019.06.18 @ 12:10:00

Tool Information

Drill Pipe:	Length: 3076.00 ft	Diameter: 3.80 inches	Volume: 43.15 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume: 43.30 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3115.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 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			3096.00	
Shut In Tool	5.00			3101.00	
Hydraulic tool	5.00			3106.00	
Packer	5.00			3111.00	20.00 Bottom Of Top Packer
Packer	4.00			3115.00	
Stubb	1.00			3116.00	
Recorder	0.00	6772	Inside	3116.00	
Recorder	0.00	6769	Outside	3116.00	
Perforations	27.00			3143.00	
Change Over Sub	1.00			3144.00	
Drill Pipe	32.00			3176.00	
Change Over Sub	1.00			3177.00	
Bullnose	3.00			3180.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65792 **DST#: 2**
Test Start: 2019.06.18 @ 12:10:00

Mud and Cushion Information

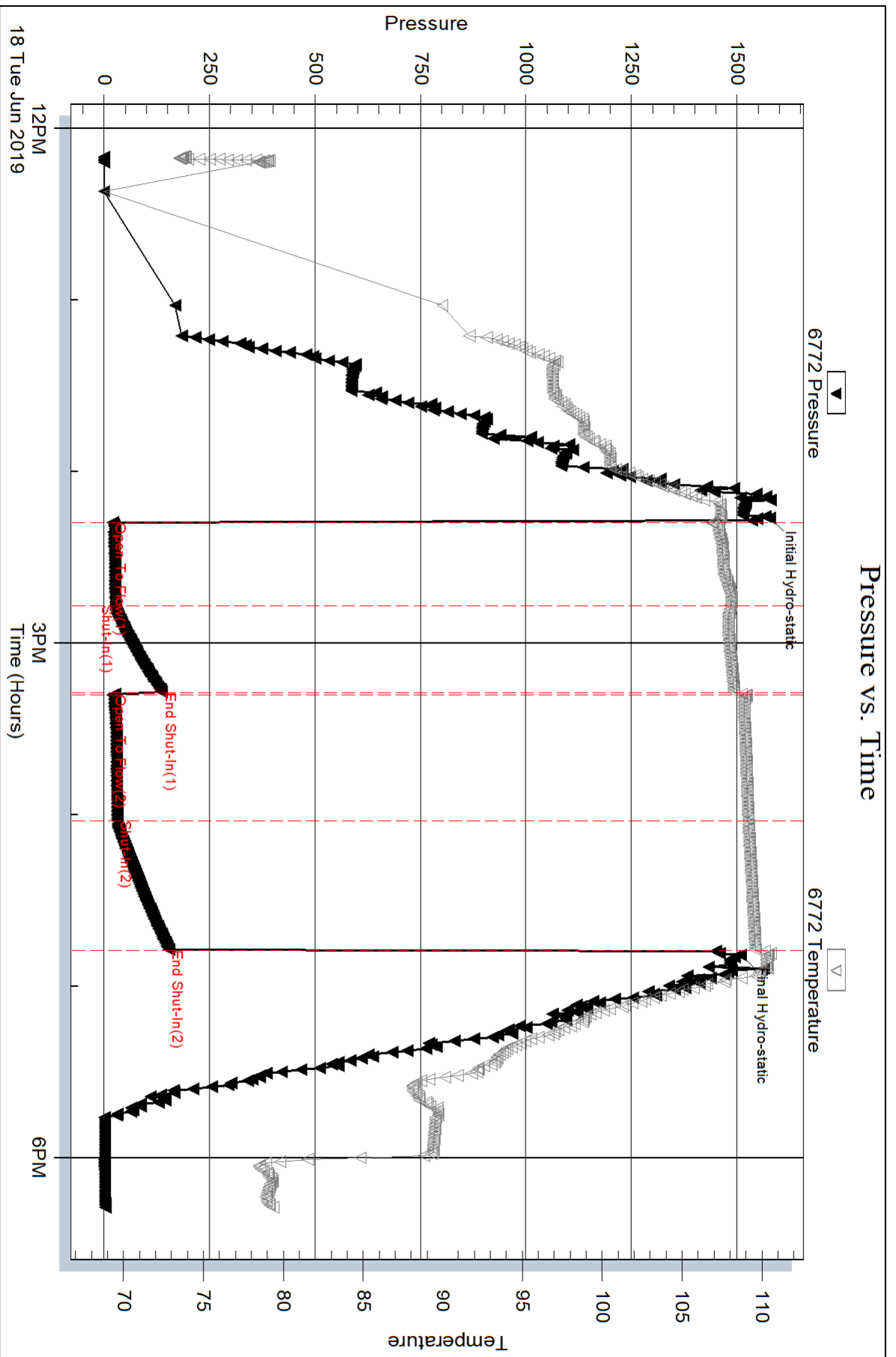
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

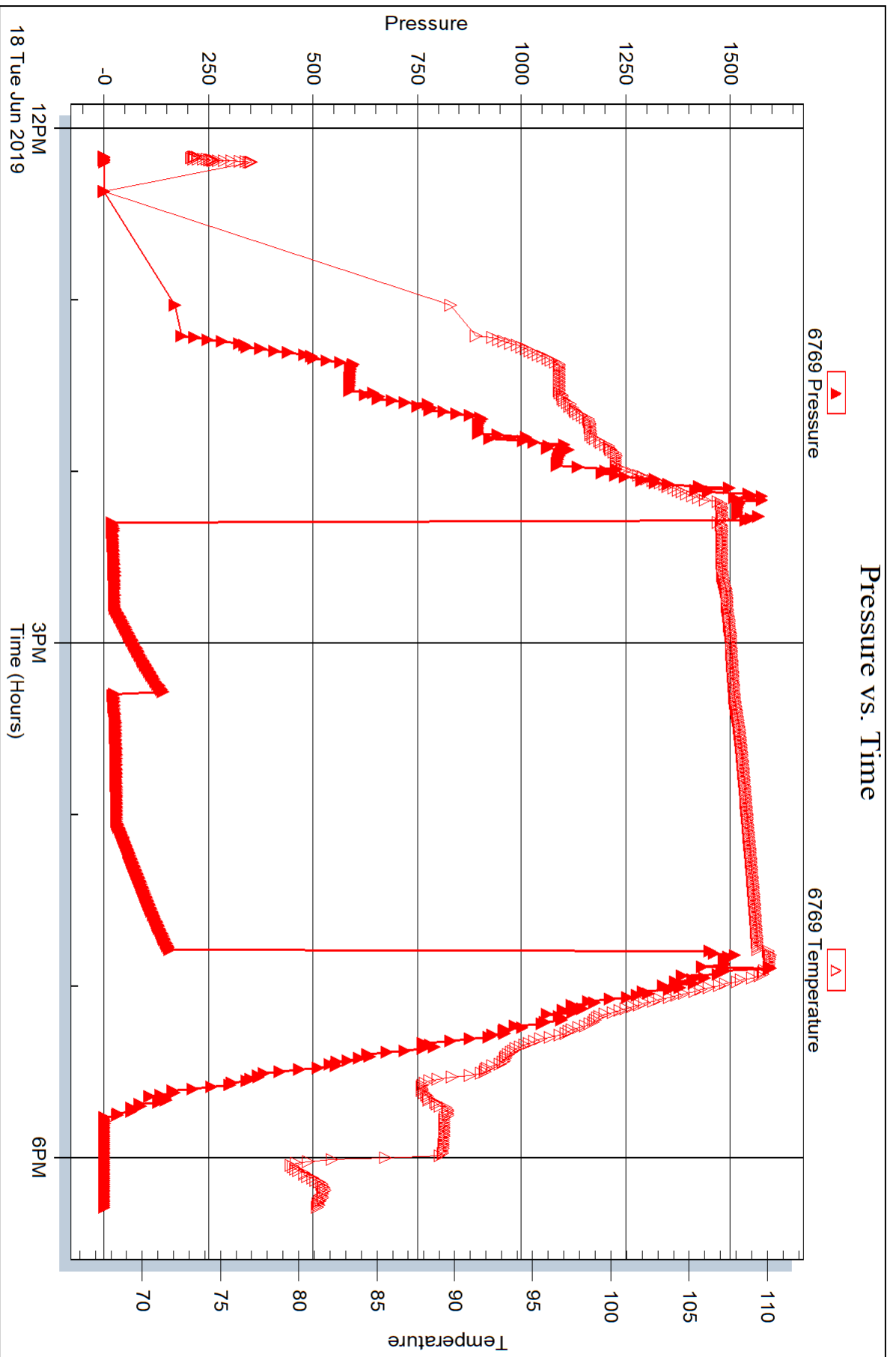
Recovery Information

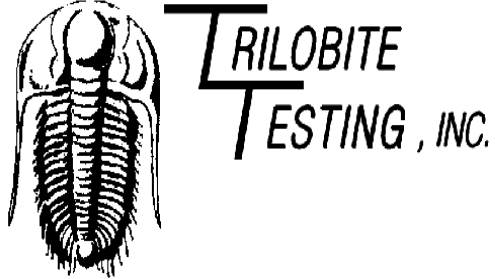
Recovery Table

Length ft	Description	Volume bbl
45.00	G.S.O.C.M. 10%O 20%G 70%M	0.349
0.00	G.I.P 200'	0.000

Total Length: 45.00 ft Total Volume: 0.349 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchison

Orth-Altenbaumer1-12

12-19s-10w Rice,KS

Start Date: 2019.06.19 @ 03:50:00

End Date: 2019.06.19 @ 08:57:39

Job Ticket #: 65793 DST #: 3

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

Printed: 2019.06.21 @ 09:50:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchison

12-19s-10w Rice, KS
Orth-Altenbaumer1-12
 Job Ticket: 65793 **DST#: 3**
 Test Start: 2019.06.19 @ 03:50:00

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:31:10
 Time Test Ended: 08:57:39
 Interval: **3175.00 ft (KB) To 3265.00 ft (KB) (TVD)**
 Total Depth: 3265.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Reference Elevations: 1731.00 ft (KB)
 1723.00 ft (CF)
 KB to GR/CF: 8.00 ft

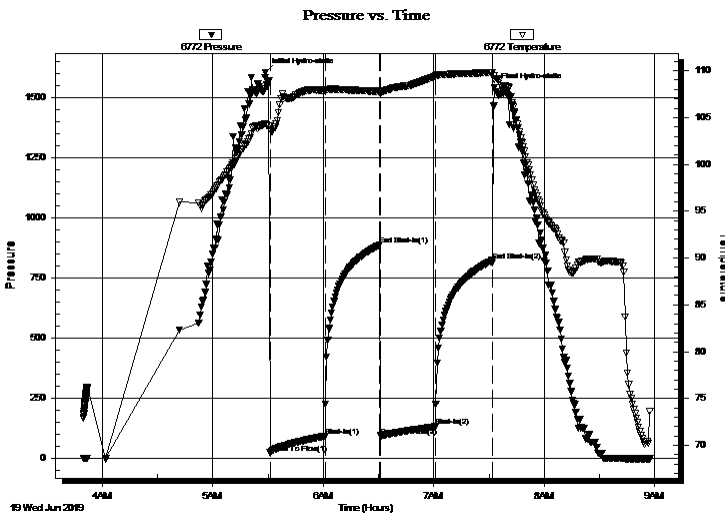
Serial #: 6772

Inside

Press@RunDepth: 132.41 psig @ 3176.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.19 End Date: 2019.06.19 Last Calib.: 2019.06.19
 Start Time: 03:50:01 End Time: 08:57:40 Time On Btm: 2019.06.19 @ 05:28:40
 Time Off Btm: 2019.06.19 @ 07:33:00

TEST COMMENT: IF-30- BOB 17 mins total build of 19"
 ISI-30- no blow back
 FF-30- built to 11 1/2"
 FSI-30- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1603.48	104.33	Initial Hydro-static
3	23.47	103.67	Open To Flow (1)
33	93.10	107.88	Shut-In(1)
62	886.01	107.79	End Shut-In(1)
63	94.72	107.50	Open To Flow (2)
93	132.41	109.38	Shut-In(2)
123	822.49	109.81	End Shut-In(2)
125	1541.96	109.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	W.M. 20%W 80%M	0.62
200.00	M. 100%M	2.81

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65793 **DST#: 3**
Test Start: 2019.06.19 @ 03:50:00

Tool Information

Drill Pipe:	Length: 3138.00 ft	Diameter: 3.80 inches	Volume: 44.02 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 44.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3175.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	110.00 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			3156.00	
Shut In Tool	5.00			3161.00	
Hydraulic tool	5.00			3166.00	
Packer	5.00			3171.00	20.00 Bottom Of Top Packer
Packer	4.00			3175.00	
Stubb	1.00			3176.00	
Recorder	0.00	6772	Inside	3176.00	
Recorder	0.00	6769	Outside	3176.00	
Perforations	20.00			3196.00	
Change Over Sub	1.00			3197.00	
Drill Pipe	64.00			3261.00	
Change Over Sub	1.00			3262.00	
Bullnose	3.00			3265.00	90.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65793 **DST#: 3**
Test Start: 2019.06.19 @ 03:50:00

Mud and Cushion Information

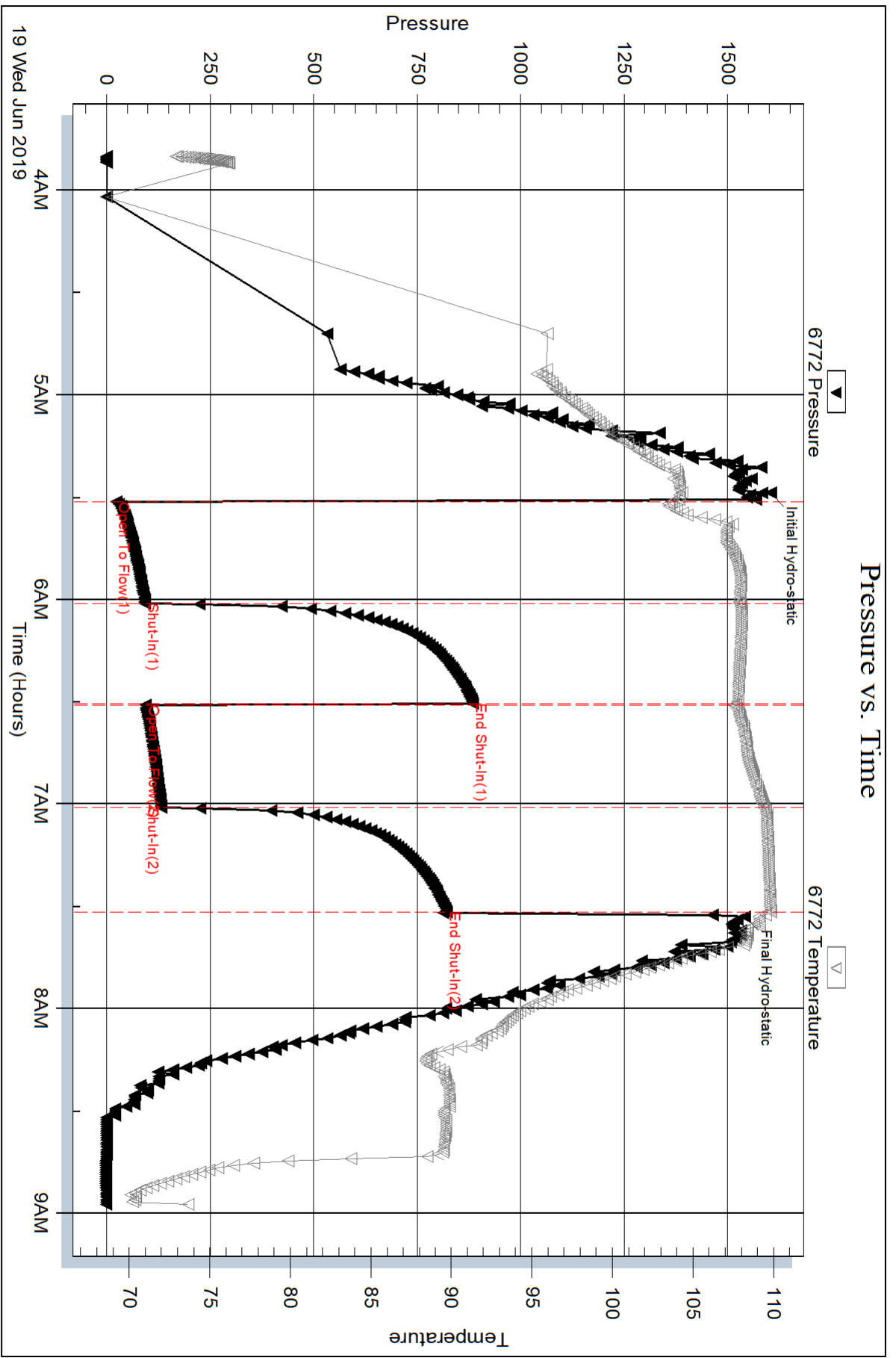
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6400.00 ppm			
Filter Cake: 1.00 inches			

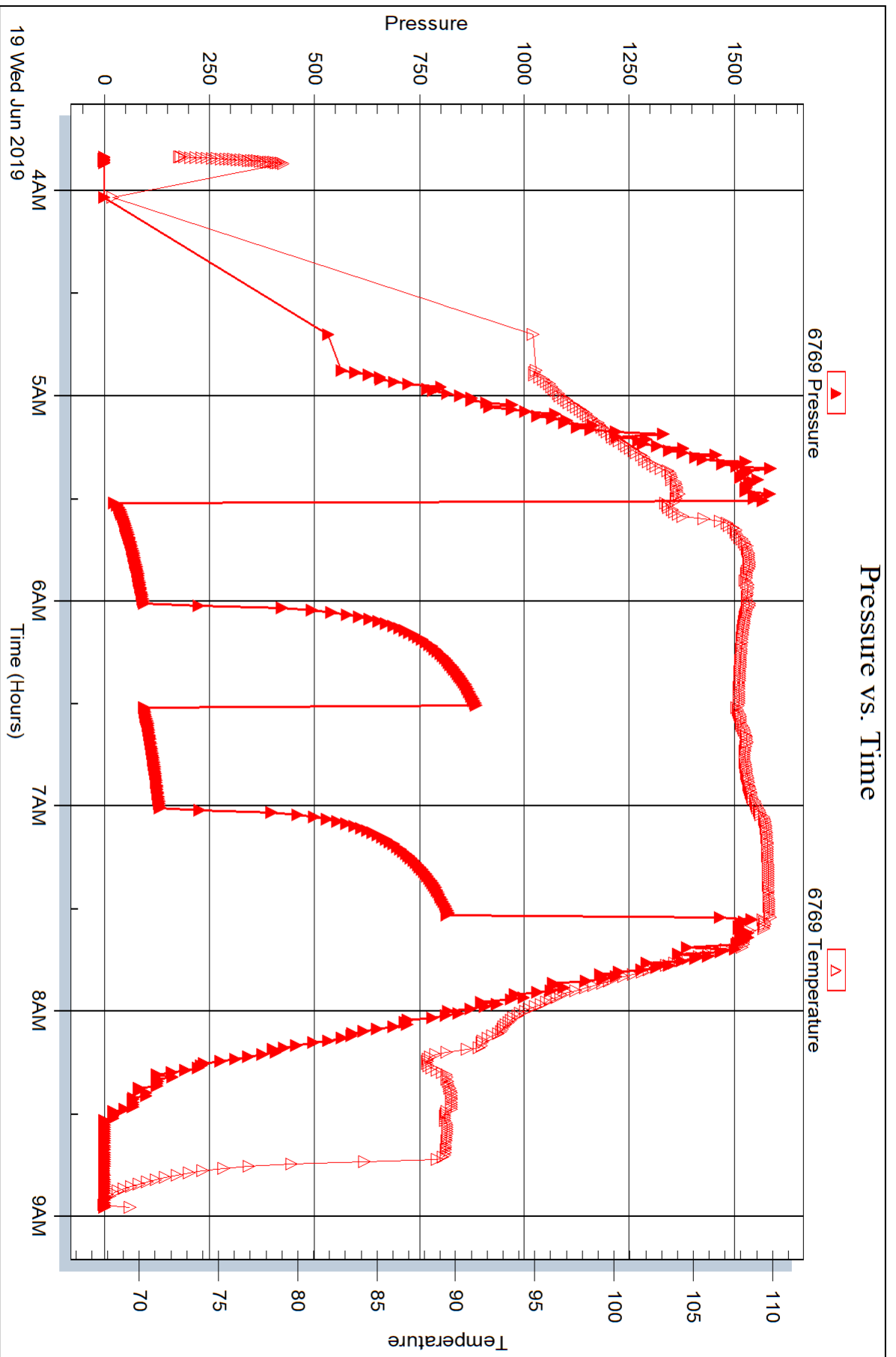
Recovery Information

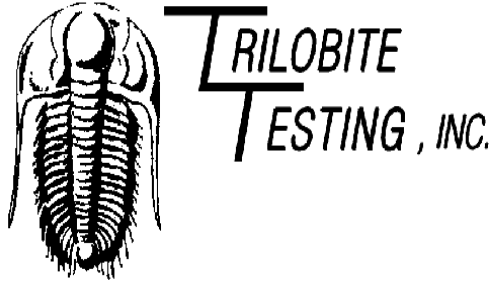
Recovery Table

Length ft	Description	Volume bbl
64.00	W.M. 20%W 80%M	0.615
200.00	M. 100%M	2.805

Total Length: 264.00 ft Total Volume: 3.420 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchison

Orth-Altenbaumer1-12

12-19s-10w Rice,KS

Start Date: 2019.06.19 @ 16:28:00

End Date: 2019.06.19 @ 22:26:39

Job Ticket #: 65794 DST #: 4

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

Printed: 2019.06.21 @ 09:50:05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchison

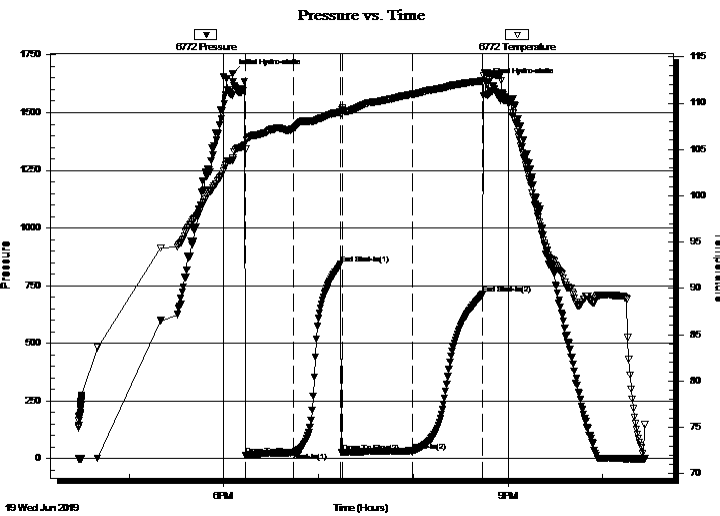
12-19s-10w Rice, KS
Orth-Altenbaumer1-12
 Job Ticket: 65794 **DST#: 4**
 Test Start: 2019.06.19 @ 16:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:13:50 Tester: Benny Mulligan
 Time Test Ended: 22:26:39 Unit No: 66
 Interval: **3287.00 ft (KB) To 3300.00 ft (KB) (TVD)** Reference Elevations: 1731.00 ft (KB)
 Total Depth: 3300.00 ft (KB) (TVD) 1723.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 33.56 psig @ 3288.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.19 End Date: 2019.06.19 Last Calib.: 2019.06.19
 Start Time: 16:28:01 End Time: 22:26:40 Time On Btm: 2019.06.19 @ 18:05:40
 Time Off Btm: 2019.06.19 @ 20:46:09

TEST COMMENT: IF-30- built to 4 1/2"
 ISI-30- no blow back
 FF-45- built to 9"
 FSI-45- 1" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.26	104.05	Initial Hydro-static
9	15.56	105.02	Open To Flow (1)
39	26.74	107.27	Shut-In(1)
69	844.91	109.04	End Shut-In(1)
70	27.30	109.31	Open To Flow (2)
114	33.56	110.94	Shut-In(2)
159	713.06	112.40	End Shut-In(2)
161	1630.02	113.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	G.O.C.M. 10%G 30%O 60%M	0.42
0.00	G.I.P. 140'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65794 **DST#: 4**
Test Start: 2019.06.19 @ 16:28:00

Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 45.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3287.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 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			3268.00	
Shut In Tool	5.00			3273.00	
Hydraulic tool	5.00			3278.00	
Packer	5.00			3283.00	20.00 Bottom Of Top Packer
Packer	4.00			3287.00	
Stubb	1.00			3288.00	
Recorder	0.00	6772	Inside	3288.00	
Recorder	0.00	6769	Outside	3288.00	
Perforations	9.00			3297.00	
Bullnose	3.00			3300.00	13.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65794 **DST#: 4**
Test Start: 2019.06.19 @ 16:28:00

Mud and Cushion Information

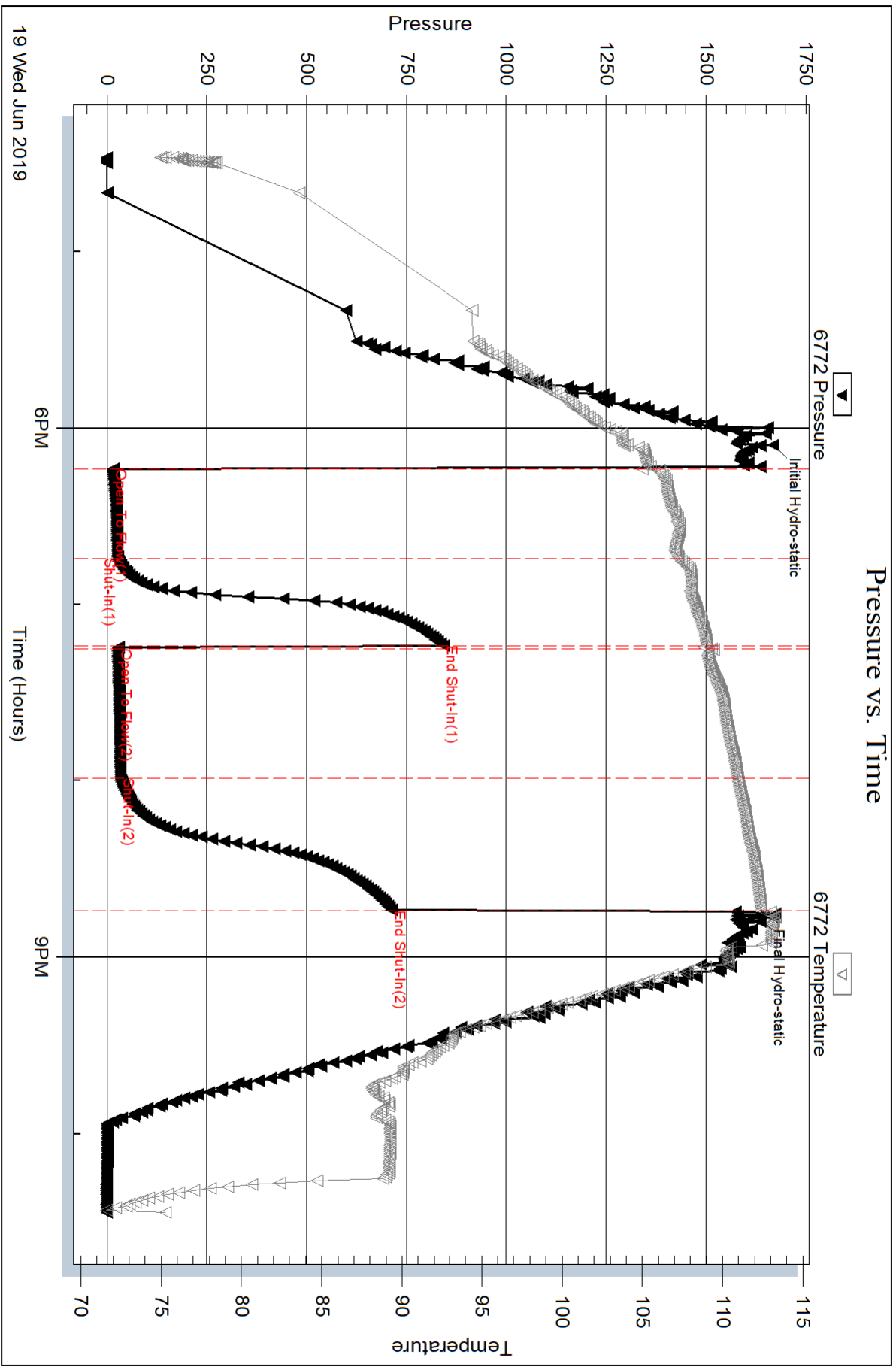
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

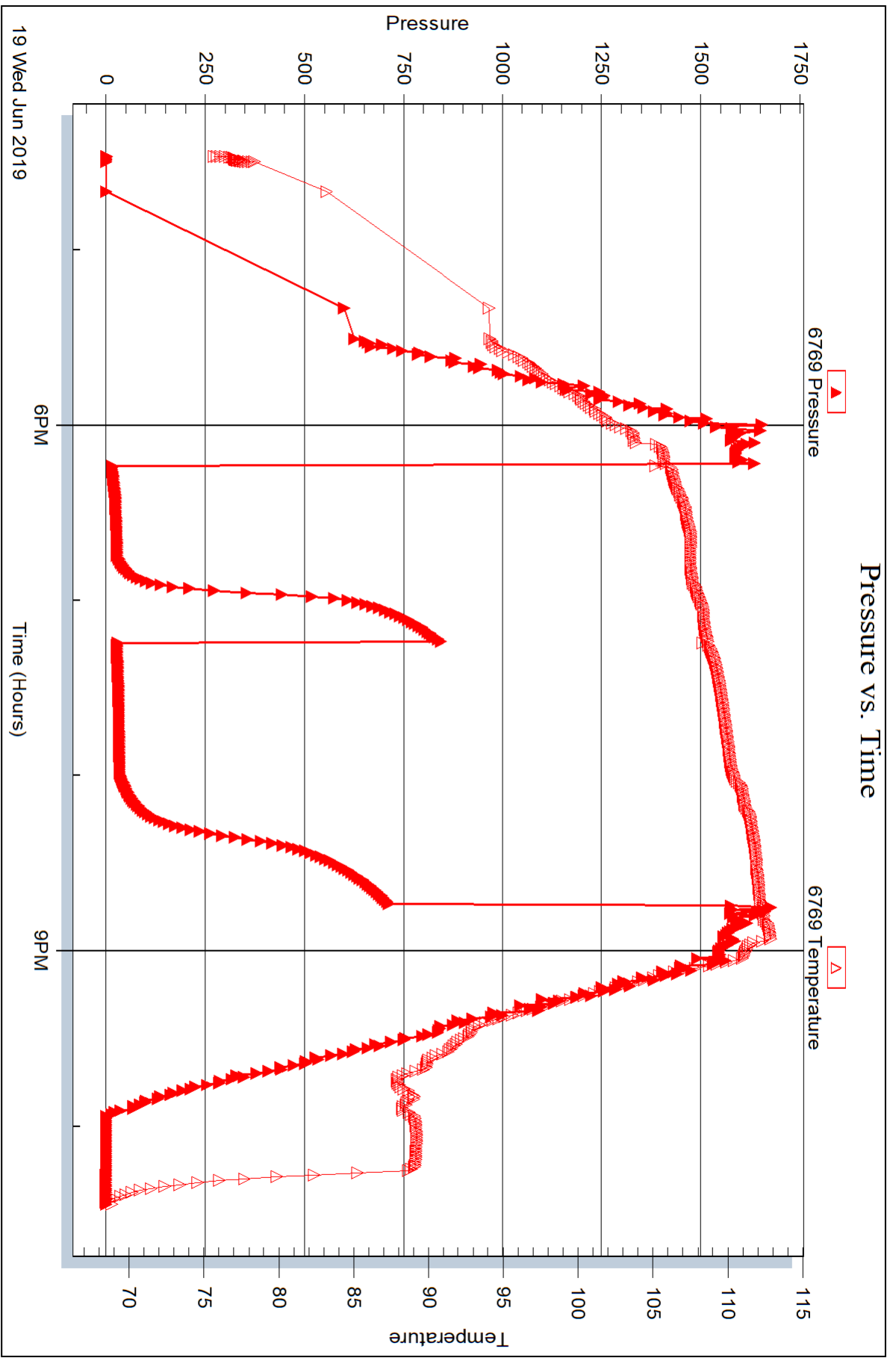
Recovery Information

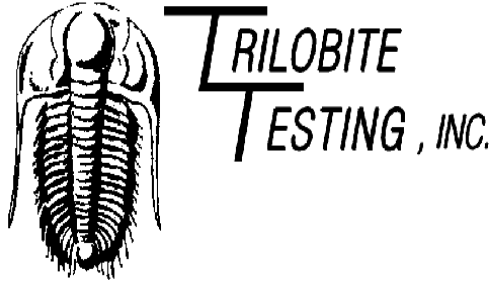
Recovery Table

Length ft	Description	Volume bbl
50.00	G.O.C.M. 10%G 30%O 60%M	0.419
0.00	G.I.P. 140'	0.000

Total Length: 50.00 ft Total Volume: 0.419 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 837
Russell KS 67665+0837

ATTN: Brad Hutchison

Orth-Altenbaumer1-12

12-19s-10w Rice,KS

Start Date: 2019.06.20 @ 11:55:00

End Date: 2019.06.20 @ 18:22:30

Job Ticket #: 65795 DST #: 5

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

Printed: 2019.06.21 @ 09:49:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas
 PO Box 837
 Russell KS 67665+0837
 ATTN: Brad Hutchison

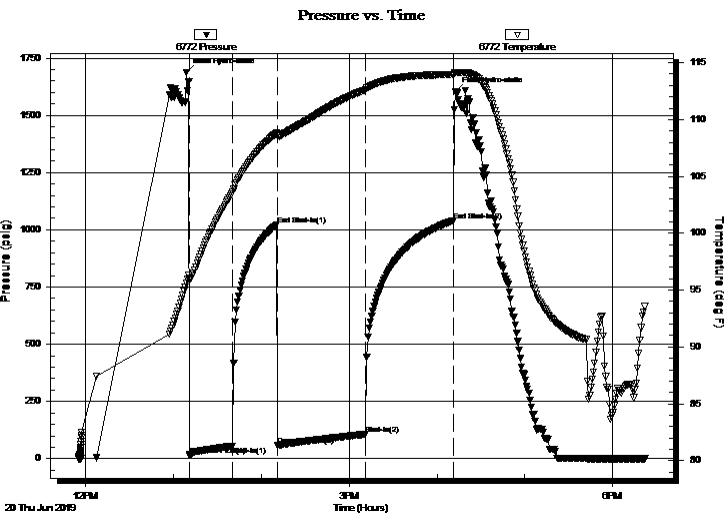
12-19s-10w Rice, KS
Orth-Altenbaumer1-12
 Job Ticket: 65795 **DST#: 5**
 Test Start: 2019.06.20 @ 11:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:10:40
 Time Test Ended: 18:22:30
 Interval: **3270.00 ft (KB) To 3310.00 ft (KB) (TVD)**
 Total Depth: 3370.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Benny Mulligan
 Unit No: 66
 Reference Elevations: 1731.00 ft (KB)
 1723.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 106.93 psig @ 3271.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.06.20 End Date: 2019.06.20 Last Calib.: 2019.06.20
 Start Time: 11:55:01 End Time: 18:22:30 Time On Btm: 2019.06.20 @ 13:08:40
 Time Off Btm: 2019.06.20 @ 16:12:50

TEST COMMENT: IF-30- built to 7 1/2"
 IS-30- no blow back
 FF-60- 10" built but had loose connection so not accurate
 FSI-60- 1/2' blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.27	95.64	Initial Hydro-static
2	15.94	95.85	Open To Flow (1)
32	54.72	103.62	Shut-In(1)
62	1020.86	108.82	End Shut-In(1)
63	59.13	108.57	Open To Flow (2)
123	106.93	112.61	Shut-In(2)
183	1040.10	113.96	End Shut-In(2)
185	1604.97	114.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	M.W. 20%M 80%W	1.40
80.00	W.M w / oil spots. 20%W 80%M	1.12
0.00	GIP 100'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65795 **DST#: 5**
Test Start: 2019.06.20 @ 11:55:00

Tool Information

Drill Pipe:	Length: 3233.00 ft	Diameter: 3.80 inches	Volume: 45.35 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			Total Volume: 45.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3270.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3309.00 ft			
Interval between Packers:	39.00 ft			
Tool Length:	123.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3251.00	
Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Packer	5.00			3266.00	20.00 Bottom Of Top Packer
Packer	4.00			3270.00	
Stubb	1.00			3271.00	
Recorder	0.00	6772	Inside	3271.00	
Recorder	0.00	6769	Outside	3271.00	
Perforations	1.00			3272.00	
Change Over Sub	1.00			3273.00	
Drill Pipe	32.00			3305.00	
Change Over Sub	1.00			3306.00	
Blank Off Sub	1.00			3307.00	
Stubb	2.00			3309.00	39.00 Tool Interval
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Recorder	0.00	9058	Below	3315.00	
Perforations	21.00			3336.00	
Change Over Sub	1.00			3337.00	
Drill Pipe	32.00			3369.00	
Change Over Sub	1.00			3370.00	
Bullnose	3.00			3373.00	64.00 Bottom Packers & Anchor

Total Tool Length: 123.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas
PO Box 837
Russell KS 67665+0837
ATTN: Brad Hutchison

12-19s-10w Rice,KS
Orth-Altenbaumer1-12
Job Ticket: 65795 **DST#: 5**
Test Start: 2019.06.20 @ 11:55:00

Mud and Cushion Information

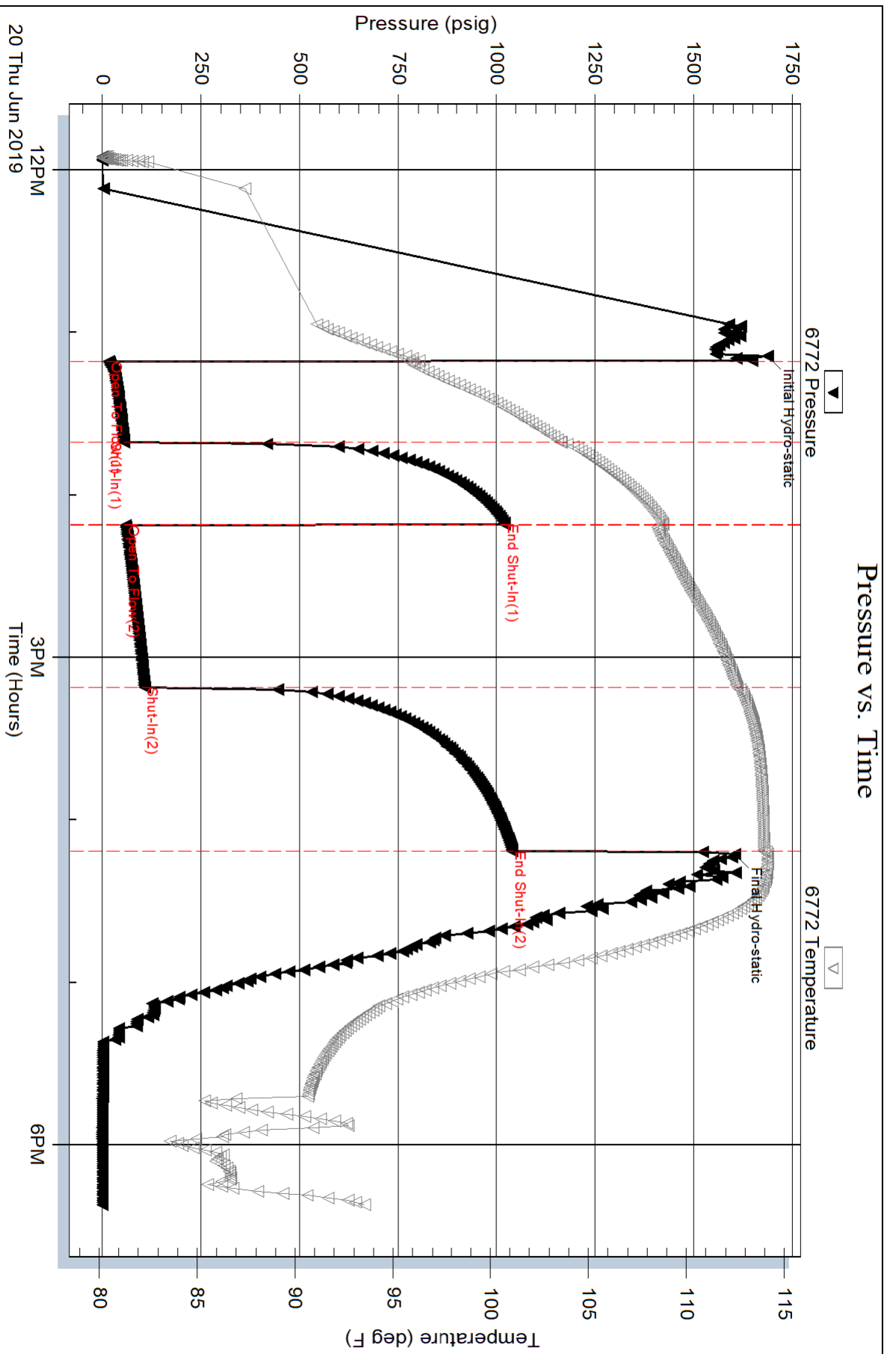
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6300.00 ppm			
Filter Cake: 1.00 inches			

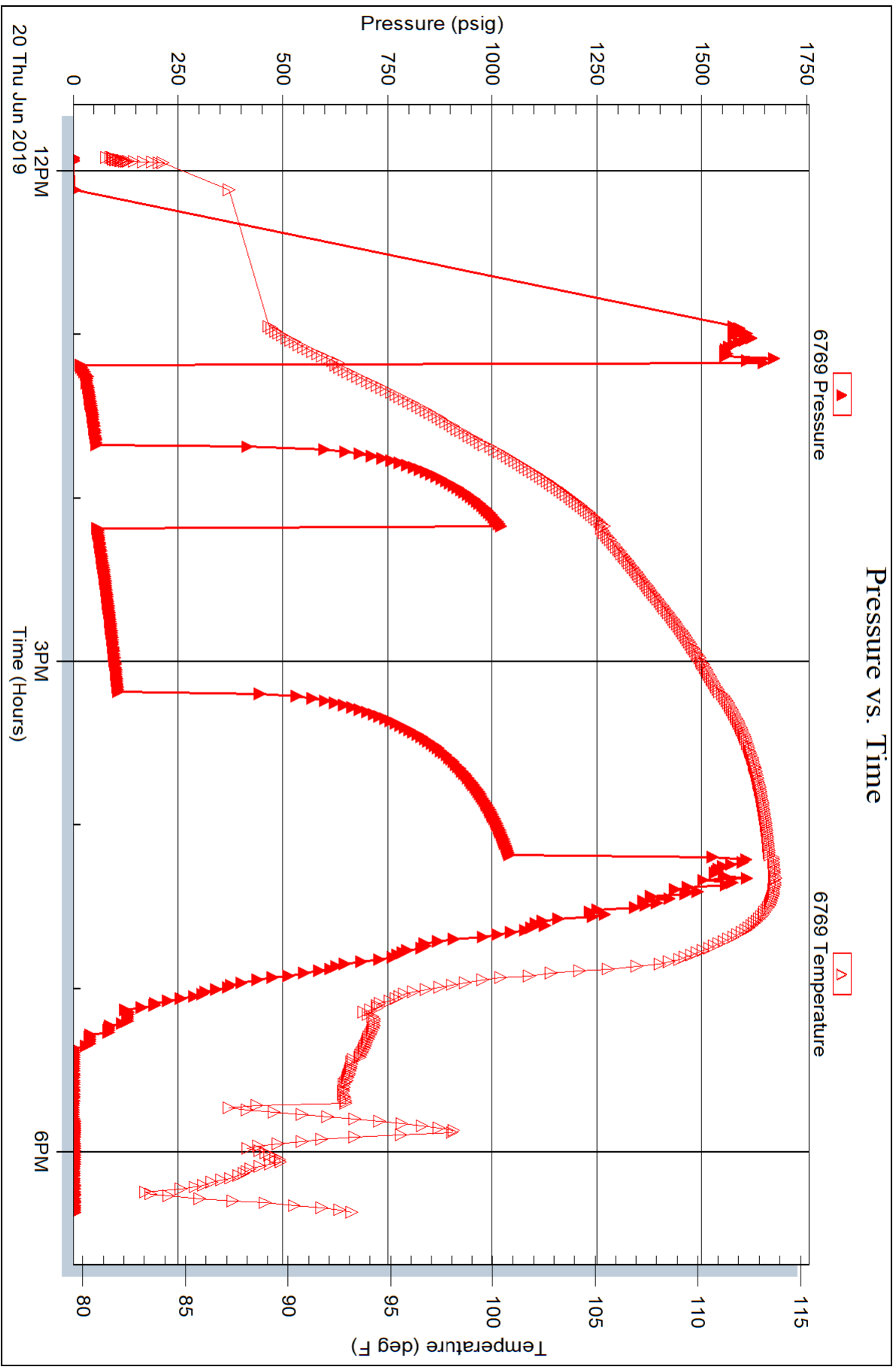
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	M.W. 20%M 80%W	1.401
80.00	W.M w / oil spots. 20%W 80%M	1.122
0.00	GIP 100'	0.000

Total Length: 200.00 ft Total Volume: 2.523 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



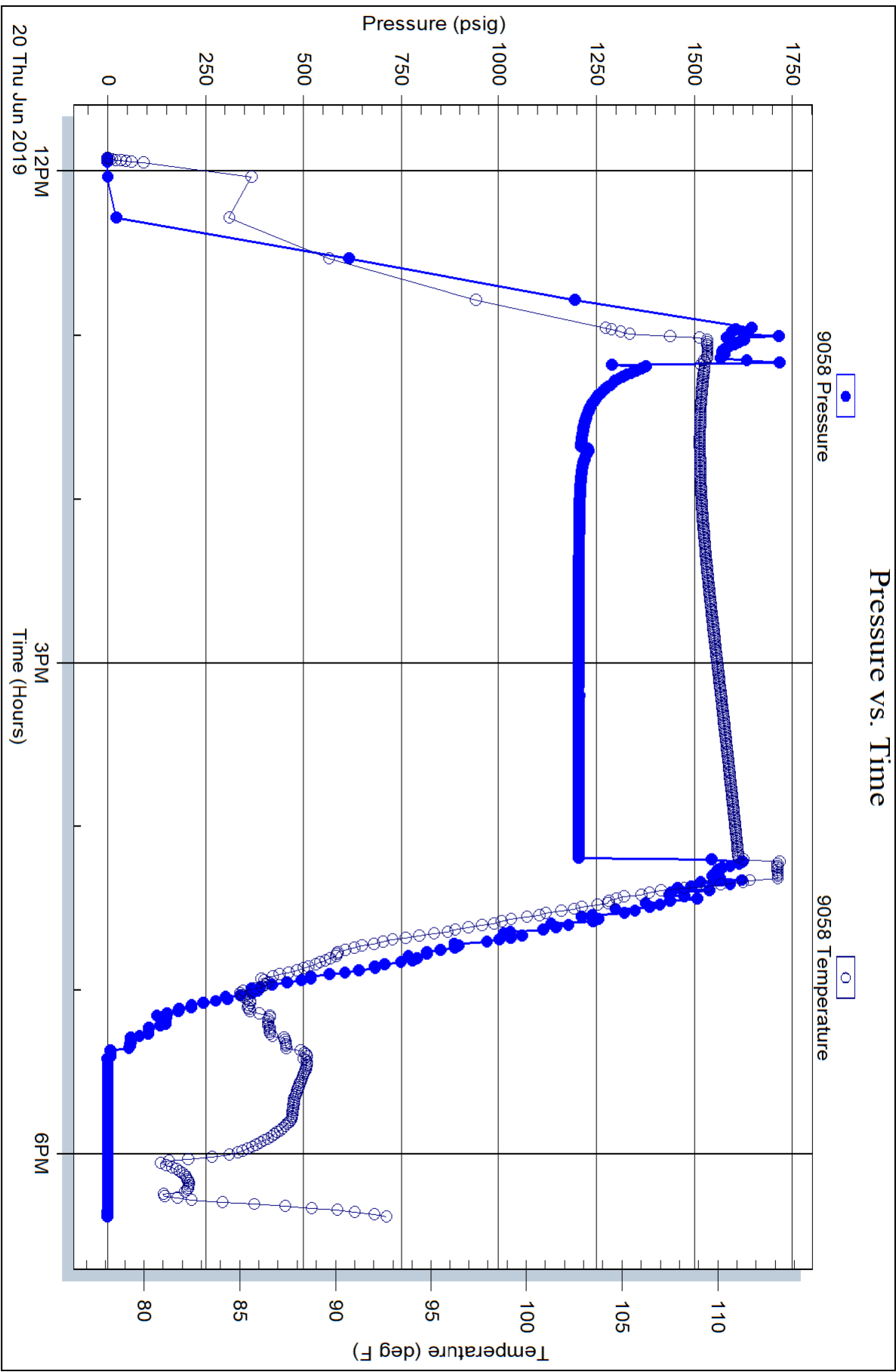


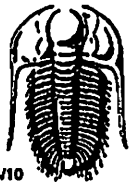
Serial #: 9058

Below (Strat) Spect Oil & Gas

Orth-Allenbauer1-12

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65791

NO.

Well Name & No. Orth-Altenbaumer #1-12 Test No. 1 Date 6/7-19
 Company Prospect Oil & Gas Elevation 1731 KB 1723 GL
 Address P.O. box 837 Russell KS 67665+0837
 Co. Rep / Geo. Brad Hutchison Rig Disco Rig 4
 Location: Sec. 12 Twp 19s Rge. 10w Co. Rice State KS

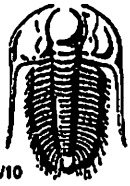
Interval Tested 2745-2830 Zone Tested Toronto-douglas
 Anchor Length ~~220~~ 85' Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 2740 Drill Collars Run 31 Vis 55
 Bottom Packer Depth 2745 Wt. Pipe Run _____ WL 8.0
 Total Depth 2830 Chlorides 3,700 ppm System LCM ~~3700~~ 1#
 Blow Description IF - Bob 25 mins built to 14"
ISF - no blow back
FF - Bob 17 mins built to 31"
FST - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>mud</u>			<u>100</u>	<u>0</u>
<u>120'</u>	<u>w.m.</u>		<u>20</u>	<u>80</u>	<u>0</u>
<u>120'</u>	<u>m.w.</u>		<u>70</u>	<u>30</u>	<u>0</u>
<u>120'</u>	<u>w</u>		<u>100</u>	<u>0</u>	<u>0</u>

Rec Total 390' BHT 104° Gravity _____ API RW 0.053 @ 90.7 °F Chlorides 123,000 ppm
 (A) Initial Hydrostatic 1342 Test 1200 T-On Location 6:45 am
 (B) First Initial Flow 47 Jars _____ T-Started 7:31
 (C) First Final Flow 108 Safety Joint _____ T-Open 9:31
 (D) Initial Shut-In 767 Circ Sub _____ T-Pulled 12:31 pm
 (E) Second Initial Flow 117 Hourly Standby _____ T-Out 2:07
 (F) Second Final Flow 209 Mileage 52 RT ⁵² Comments _____
 (G) Final Shut-In 761 Sampler _____
 (H) Final Hydrostatic 1281 Straddle _____ EM Tool _____
 Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1252
 Sub Total 1252 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

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 65792

NO.

Well Name & No. Orth-Athenbaumer #1-12 Test No. 2 Date 6-18-2019
 Company Prospect oil & Gas Elevation 1731 KB 1723 GL
 Address P.O. box 837 Russell KS 67665+0837
 Co. Rep / Geo. Brad Hutchison Rig Disco Rig 4
 Location: Sec. 12 Twp 19S Rge. 10W Co. Rice State KS

Interval Tested 3115-3180 Zone Tested Lower Kansas City
 Anchor Length 65 Drill Pipe Run 3076 Mud Wt. 9.2
 Top Packer Depth 3110 Drill Collars Run 31 Vls 54
 Bottom Packer Depth 3115 Wt. Pipe Run _____ WL 8.8
 Total Depth 3180 Chlorides 6400 ppm System LCM 1#
 Blow Description IF - built to 9"
IST - no blow back
FF - built to 10 1/2"
FST - no blow back

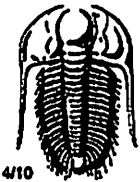
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>650 G.M.</u>	<u>20</u>	<u>10</u>	<u>70</u>	<u>0</u>
Rec	Feet of <u>200' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic 1577 Test 1200 T-On Location 11:05 PM
 (B) First Initial Flow 20 Jars _____ T-Started 12:10
 (C) First Final Flow 26 Safety Joint _____ T-Open 2:17
 (D) Initial Shut-In 137 Circ Sub _____ T-Pulled 4:47
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 6:18
 (F) Second Final Flow 31 Mileage 52 RT 52 Comments _____
 (G) Final Shut-In 153 Sampler _____
 (H) Final Hydrostatic 1509 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1252

Initial Open 30 EM Tool _____
 Initial Shut-In 30 Ruined Shale Packer _____
 Final Flow 45 Ruined Packer _____
 Final Shut-In 45 Extra Copies _____
 Sub Total 0
 Total 1252
 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65793

NO.

Well Name & No. Orth-Altenbaumer #1-12 Test No. 3 Date 6-19-2019
 Company Prospect oil & coas Elevation 1731 KB 1723 GL
 Address P.O. box 837 Russell KS 67665+0837
 Co. Rep / Geo. Brad Hutchison Rig Disco Rig 4
 Location: Sec. 12 Twp 19s Rge. 10w Co. Rice State KS

Interval Tested 3175-3265 Zone Tested Conglomerate
 Anchor Length 90' Drill Pipe Run _____ Mud Wt. 9.2
 Top Packer Depth 3170 Drill Collars Run 31' Vls 54
 Bottom Packer Depth 3175 Wt. Pipe Run _____ WL 8.8
 Total Depth 3265 Chlorides 8400 ppm System LCM 1#

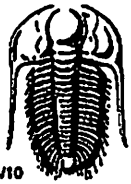
Blow Description IF - BOP 17 mins total build of 19"
ISI - no blow back
FF - built to 1 1/2"
FST - no blow backs

Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>M</u>			<u>100</u>	
<u>64</u>	<u>W.M.</u>		<u>20</u>	<u>80</u>	
____	____				
____	____				
____	____				

Rec Total 264 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1603 Test 1200 T-On Location 2:20 AM
 (B) First Initial Flow 23 Jars _____ T-Started 3:50
 (C) First Final Flow 93 Safety Joint _____ T-Open 5:32
 (D) Initial Shut-In 886 Circ Sub _____ T-Pulled 7:32
 (E) Second Initial Flow 94 Hourly Standby _____ T-Out 8:58
 (F) Second Final Flow 132 Mileage 52 RT 52 Comments _____
 (G) Final Shut-In 822 Sampler _____
 (H) Final Hydrostatic 1541 Straddle _____ EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility 1252 Total 1252
 Sub Total _____ MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65794

NO.

Well Name & No. Orth-Altenbaumer #1-12 Test No. 4 Date 6-19-2019
 Company Prospect Oil & Gas Elevation 1731 KB 1723 GL
 Address P.O. box 837 Russell KS 67665 + 0837
 Co. Rep / Geo. Brad Hutchison Rig Disco Rig 4
 Location: Sec. 12 Twp 19s Rge. 10w Co. Rice State KS

Interval Tested 3287-3300 Zone Tested Arbuckle
 Anchor Length 13' Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 3282 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3287 Wt. Pipe Run _____ WL 8.4
 Total Depth 3300 Chlorides 6000 ppm System LCM 1#

Blow Description IF - built to 4 1/2"
IST - no blow back
FF - built to 9"
FST - 1" blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>50'</u>	<u>G.O.C.M.</u>	<u>10</u>	<u>30</u>	<u>60</u>	
Rec _____	Feet of <u>GIP 140'</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 50' BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1668</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>3:30 PM</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars _____	T-Started <u>4:28</u>
(C) First Final Flow <u>26</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>6:14</u>
(D) Initial Shut-In <u>844</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:44</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:27</u>
(F) Second Final Flow <u>33</u>	<input checked="" type="checkbox"/> Mileage <u>52 RT</u> ⁵²	Comments _____
(G) Final Shut-In <u>713</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1630</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1252</u>
	Sub Total <u>1252</u>	MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 65795

NO.

Well Name & No. Orth-Affenbamer #1-12 Test No. 5 Date 6-20-2019
 Company Prospect Oil & Gas Elevation 1731 KB 1723 GL
 Address PO box 837 Russell KS 67665+0837
 Co. Rep / Geo. Bruce Hutchison Rig Disco Rig 4
 Location: Sec. 12 Twp 19S Rge. 10W Co. Rice State KS

Interval Tested 3270-3310 Zone Tested Arbuckle
 Anchor Length 40' Drill Pipe Run 3233 Mud Wt. 9.4
 Top Packer Depth 3265 Drill Collars Run 31' Vis 59
 Bottom Packer Depth 3270 Wt. Pipe Run _____ WL 8.8
 Total Depth 3370 Chlorides 6300 ppm System LCM 1#

Blow Description IF - built to 7 1/2"
IS ± - ~~no blow back~~ no blow back
FF - 10" build but had loose connection so not accurate
FS ± - 1/2" blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>05. W.M.</u>		<u>20</u>	<u>80</u>	
<u>120</u>	<u>M.W.</u>		<u>80</u>	<u>20</u>	
	<u>100' GIP</u>				

Rec Total BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic ~~1687~~ 1687 Test 1200 T-On Location 10:30 AM
 (B) First Initial Flow 15 Jars _____ T-Started 11:55
 (C) First Final Flow 54 Safety Joint _____ T-Open 1:12
 (D) Initial Shut-In 1020 Circ Sub _____ T-Pulled 4:12
 (E) Second Initial Flow 59 Hourly Standby _____ T-Out 6:23
 (F) Second Final Flow 106 Mileage 52 Rt 52 Comments Load tool after test
 (G) Final Shut-In 1040 Sampler _____
 (H) Final Hydrostatic 1604 Straddle 600

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 60 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 60 Day Standby _____ Extra Copies _____
 Sub Total 0
 Total 1652
 Sub Total 1652 MP/DST Disc't _____

Approved By _____ Our Representative Benny Mulligan

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BRAD HUTCHINSON

116 EVES DRIVE
RUSSELL, KANSAS 67665

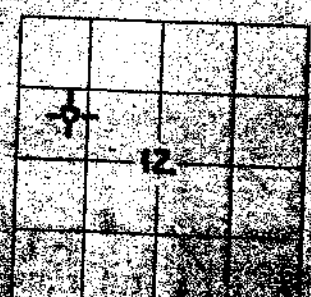
785-483-0482

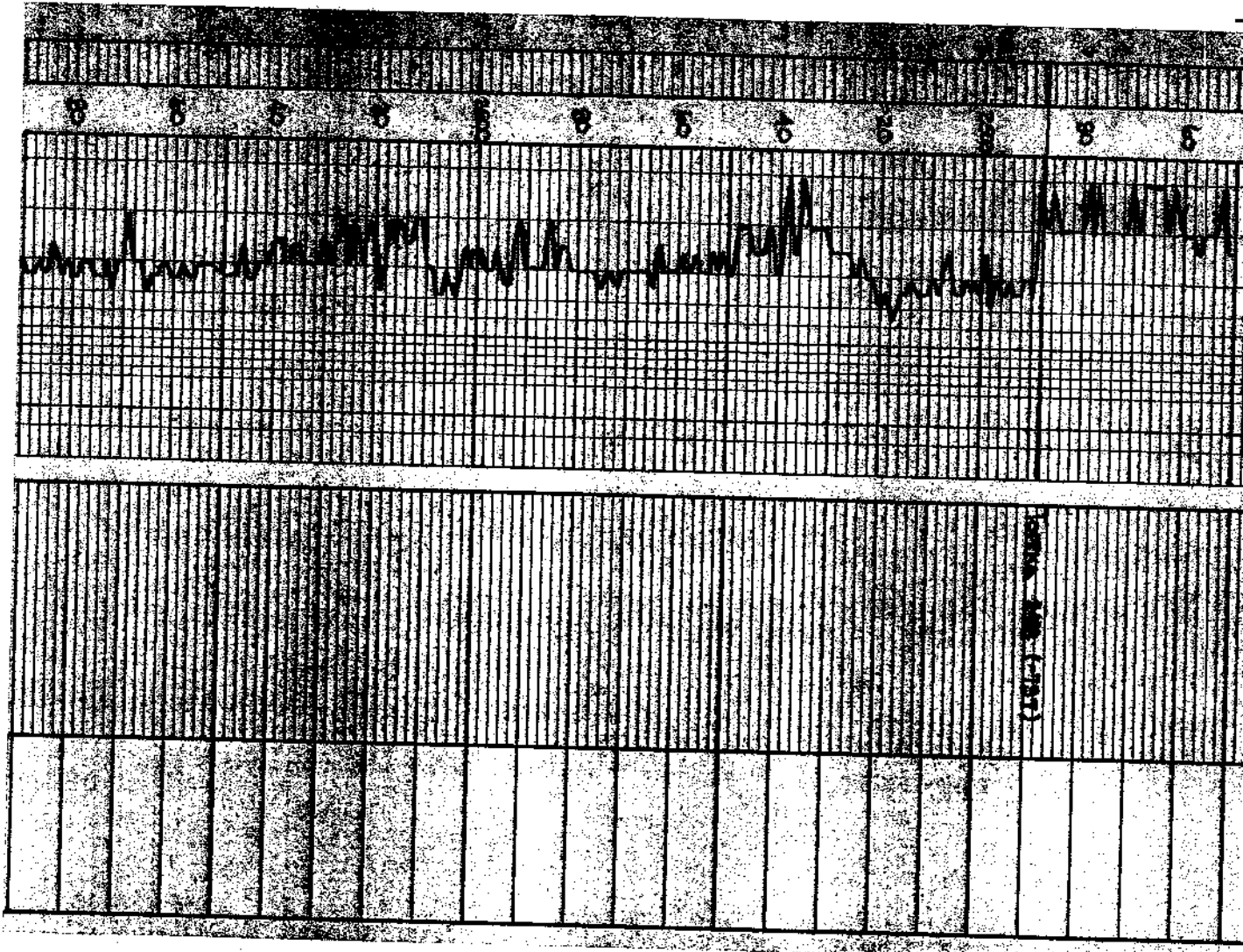
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>PROSPECT OIL & GAS, INC.</u>	ELEVATIONS
LEASE <u>Orth. Allendale 1-12</u>	KB <u>1731'</u>
FIELD <u>CHASE-SILVER</u>	DF _____
LOCATION <u>E/2 NE SW/4</u>	GL <u>1723'</u>
SEC <u>12</u> TWP <u>19S</u> RGE <u>10W</u>	Measurements Are All From <u>K.B.</u>
COUNTY <u>Rice</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Discovery Drilling</u>	CASING
SPUD <u>10-13-2019</u> COMP <u>10-20-2019</u>	SURFACE <u>8 1/2" @ 205'</u>
RTD <u>3370 (-1639)</u> LTD <u>3370 (-1639)</u>	PRODUCTION <u>None</u>
MUD UP <u>2400'</u> TYPE MUD <u>Chemical</u>	ELECTRICAL SURVEYS
	CML/COL <u>OIL</u>
	MEL _____
SAMPLES SAVED FROM _____ <u>2500'</u> TO _____ <u>BTD</u>	
DRILLING TIME KEPT FROM _____ <u>2400'</u> TO _____ <u>BTD</u>	
SAMPLES EXAMINED FROM _____ <u>2500'</u> TO _____ <u>BTD</u>	
GEOLOGICAL SUPERVISION FROM _____ <u>2500'</u> TO _____ <u>BTD</u>	
GEOLOGIST ON WELL _____	

FORMATION TOPS	LOG	SAMPLES	
Anhydrite	392 (-1390)	396 (-1385)	
Tonka	NL	2488 (-1787)	
Hochberg	2754 (-1021)	2758 (-1027)	
Toccato	2777 (-1006)	2778 (-1047)	
Dougherty	2788 (-1007)	2789 (-1050)	
Bonanza	2879 (-1118)	2880 (-1149)	
Lansing	2910 (-1179)	2910 (-1179)	
Carroll A	3230 (-1519)	3230 (-1519)	
Carroll B	3230 (-1519)	3230 (-1519)	
Carroll C	3230 (-1519)	3230 (-1519)	





ECG (12-lead)

