

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	Darrah, John Jay, Jr.
Well Name	BRONLEEWE 2-22
Doc ID	1448253

All Electric Logs Run

Micro
Dual Comp Porosity
Dual Induction
Sonic

GLOBAL OIL FIELD SERVICES, LLC

V48926

Invoice

24 S. Lincoln
RUSSELL, KS 67665

Date	Invoice #
11/7/2018	0013181

Bill To
DARRAH OIL COMPANY PO BOX 2786 WICHITA,KS 67201

P.O. No.	Terms	Project
<u>BRONLEEWE#2-22</u>	Due on receipt	

Quantity	Description	Rate	Amount
200	60/40 POZMIX CEMENT	14.02	2,804.00
4	BENTONITE GEL	30.00	120.00
5	CALCIUM-CHLORIDE	80.00	400.00
209	HANDLING	1.90	397.10
	BULK MILEAGE	250.00	250.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
10	HEAVY EQUIPMENT. ONE WAY	6.50	65.00
10	LMV- ONE WAY	2.75	27.50
	20% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	EXTRA CEMENT WAS NEEDED BECAUSE OF SAND AND FOOTAGE OF PIPE SET. WE USED A EXTRA 50 SXS AND ONLY CIRCULATED ABOUT 10 SXS TO PIT. OTHER BID WAS FOR 150 SXS SO THAT IS WHY IT IS A LITTLE HIGHER BUT IF YOU TAKE THE EXTRA 50SXS OFF THEN WE WERE STILL CHEAPER. IF YOU HAVE ANY QUESTIONS PLEASE CALL HEATH new sales tax rate as of 7-1-2015	8.50%	0.00

82300/200
mud BC

Thank you for your business.

Phone #	Fax #
785-445-3525	785-445-3526

Total \$4,913.60

GLOBAL OIL FIELD SERVICES, LLC

0013181

REMIT TO **24 S. Lincoln**
Russell, KS 67665

SERVICE POINT: **Russell KS**

DATE 10-31-198	SEC 22	TWP. 18S	RANGE 9W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE Beaumont	WELL # 2-22	LOCATION 3 west of Ashland KS to Blacktop				COUNTY Rice	STATE KS
OLD OR NEW (CIRCLE ONE)			3500th Highway through westing				

CONTRACTOR WW Drilling Rig # 8	
TYPE OF JOB Surface	
HOLE SIZE 12 7/8	T.D. 292'
CASING SIZE 8 7/8	DEPTH 292'
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. 25'	
PERFS	
DISPLACEMENT	

OWNER **Darrah Oil**

CEMENT AMOUNT ORDERED **200sx 60/40 3%Gel**
2 To Gel

EQUIPMENT

PUMP TRUCK # 409	CEMENTER Body
	HELPER Brad
BULK TRUCK # 379	DRIVER Tom
BULK TRUCK #	DRIVER

COMMON _____	@ _____	_____
POZMIX _____	@ _____	_____
GEL _____	@ _____	_____
CHLORIDE _____	@ _____	_____
ASC _____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
HANDLING _____	@ _____	_____
MILEAGE _____	@ _____	_____
_____	@ _____	_____
TOTAL		_____

REMARKS:
Ran 7 hrs of 8" casing + Lt- Holed to
Rig Break Circulation Holed to truck + pulled
200 sy of cement + displaced 17 bbl of H₂O
+ shut in

Cement did circulate to surface

CHARGE TO: **Darrah Oil**

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____	_____
PUMP TRUCK CHARGE _____	_____
EXTRA FOOTAGE _____	@ _____
MILEAGE _____	@ _____
MANIFOLD _____	@ _____
_____	@ _____
_____	@ _____
Ordered extra cement because of sand	TOTAL _____

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME **Scott Pump**

SIGNATURE _____

PLUG & FLOAT EQUIPMENT

other bid was for 150sy we had to use 200 to circulate

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
TOTAL		_____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah oil company
 po box 2786 wichita ks 67201+2786
 ATTN: Seth Evenson

22-18s-9w rice county
Bronleewe
 Job Ticket: 53761 **DST#: 1**
 Test Start: 2018.11.04 @ 19:58:00

GENERAL INFORMATION:

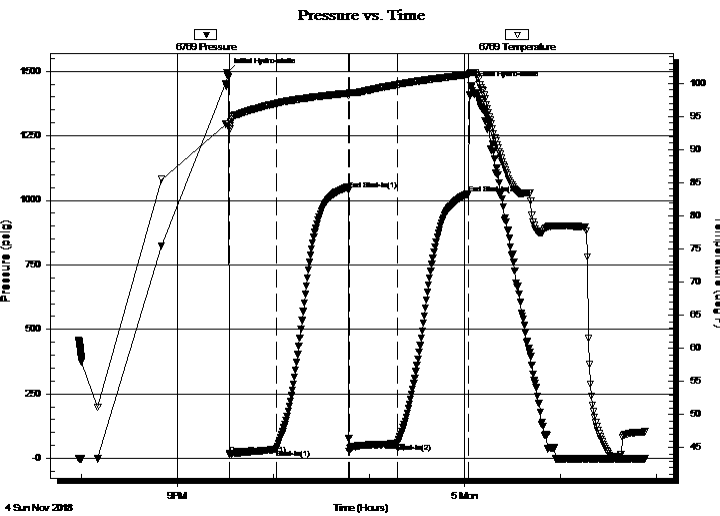
Formation: **LKC H-I-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:32:50 Tester: Benny Mulligan
 Time Test Ended: 01:53:09 Unit No: 66
 Interval: **3021.00 ft (KB) To 3085.00 ft (KB) (TVD)** Reference Elevations: 1732.00 ft (KB)
 Total Depth: 3085.00 ft (KB) (TVD) 1727.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6769

Outside

Press@RunDepth: 59.18 psig @ 3022.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.04 End Date: 2018.11.05 Last Calib.: 2018.11.05
 Start Time: 19:58:01 End Time: 01:53:10 Time On Btm: 2018.11.04 @ 21:31:00
 Time Off Btm: 2018.11.05 @ 00:03:50

TEST COMMENT: I.F-30- Built to 42"
 I.S.I.-45- no blow
 F.F-30- BOB 30 seconds total build o 63.5 "
 F.S.I.-45- no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.63	93.93	Initial Hydro-static
2	14.96	93.55	Open To Flow (1)
31	35.47	96.96	Shut-In(1)
76	1039.16	98.46	End Shut-In(1)
77	28.11	98.41	Open To Flow (2)
107	59.18	99.79	Shut-In(2)
152	1025.73	101.34	End Shut-In(2)
153	1444.65	101.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOCM (20%G 20%O 60%M	0.32
60.00	GMCO (70%G 20%O 10%M	0.35
0.00	835' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah oil company
po box 2786 w ichita ks 67201+2786
ATTN: Seth Evenson

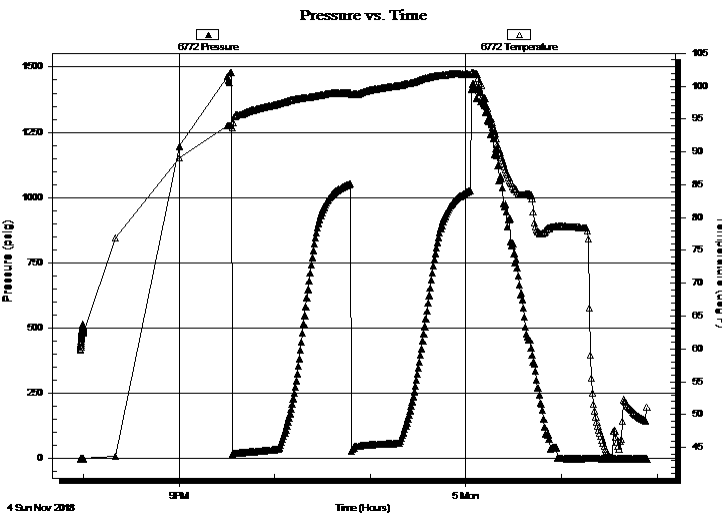
22-18s-9w rice county
Bronleewe
Job Ticket: 53761 **DST#: 1**
Test Start: 2018.11.04 @ 19:58:00

GENERAL INFORMATION:

Formation: **LKC H-I-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:32:50
Time Test Ended: 01:53:09
Interval: **3021.00 ft (KB) To 3085.00 ft (KB) (TVD)**
Total Depth: 3085.00 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: 1732.00 ft (KB)
1727.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6772 Inside
Press@RunDepth: psig @ 3022.00 ft (KB)
Start Date: 2018.11.04 End Date: 2018.11.05 Capacity: 8000.00 psig
Start Time: 19:58:01 End Time: 01:53:40 Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: I.F-30- Built to 42"
I.S.I.-45- no blow
F.F-30- BOB 30 seconds total build o 63.5 "
F.S.I.-45- no blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	GOCM (20%G 20%O 60%M	0.32
60.00	GMCO (70%G 20%O 10%M	0.35
0.00	835' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah oil company
po box 2786 w ichita ks 67201+2786
ATTN: Seth Evenson

22-18s-9w rice county
Bronleewe
Job Ticket: 53761 **DST#: 1**
Test Start: 2018.11.04 @ 19:58:00

Mud and Cushion Information

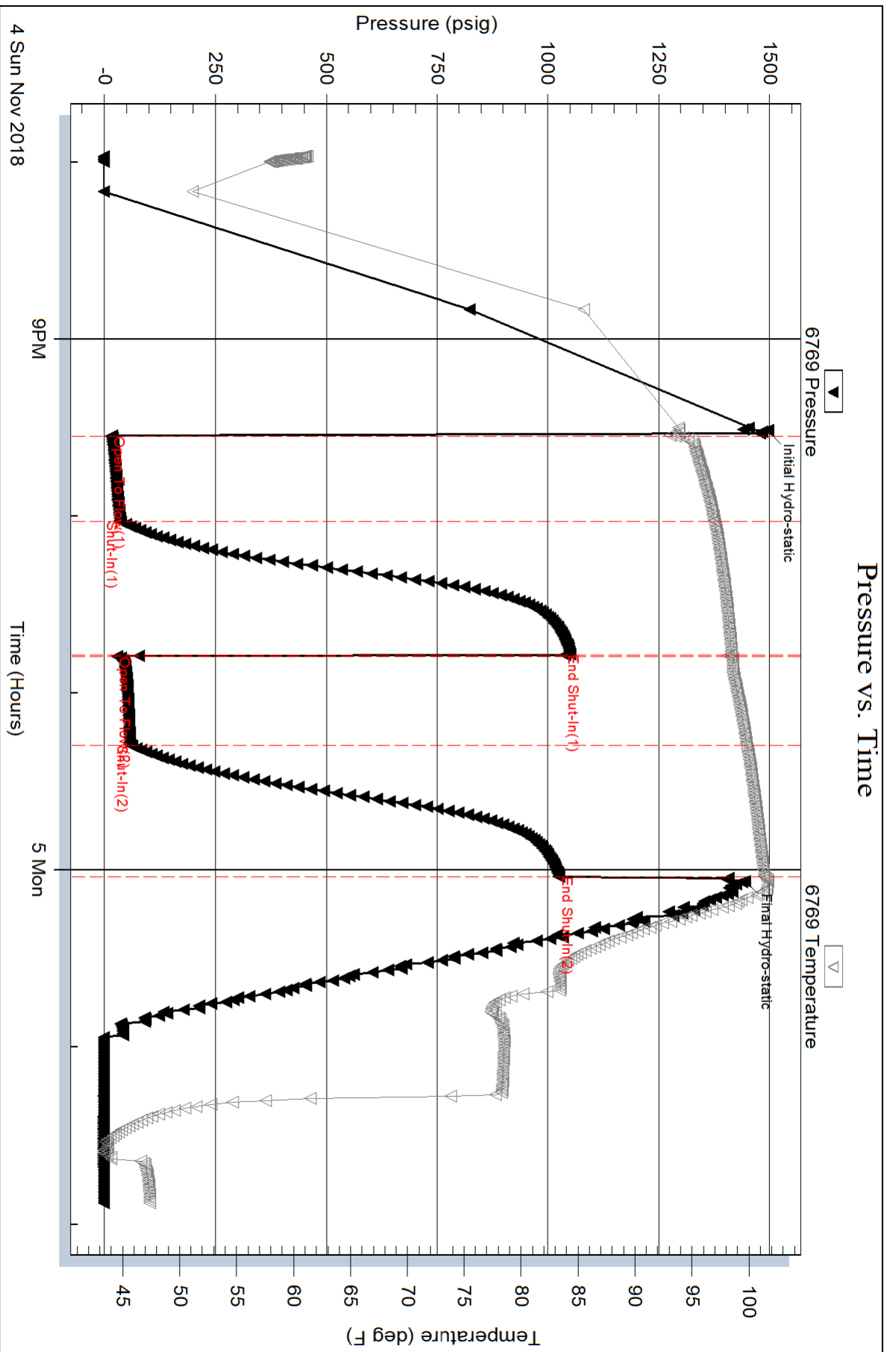
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GOCM (20%G 20%O 60%M	0.320
60.00	GMCO (70%G 20%O 10%M	0.350
0.00	835' GIP	0.000

Total Length: 125.00 ft Total Volume: 0.670 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



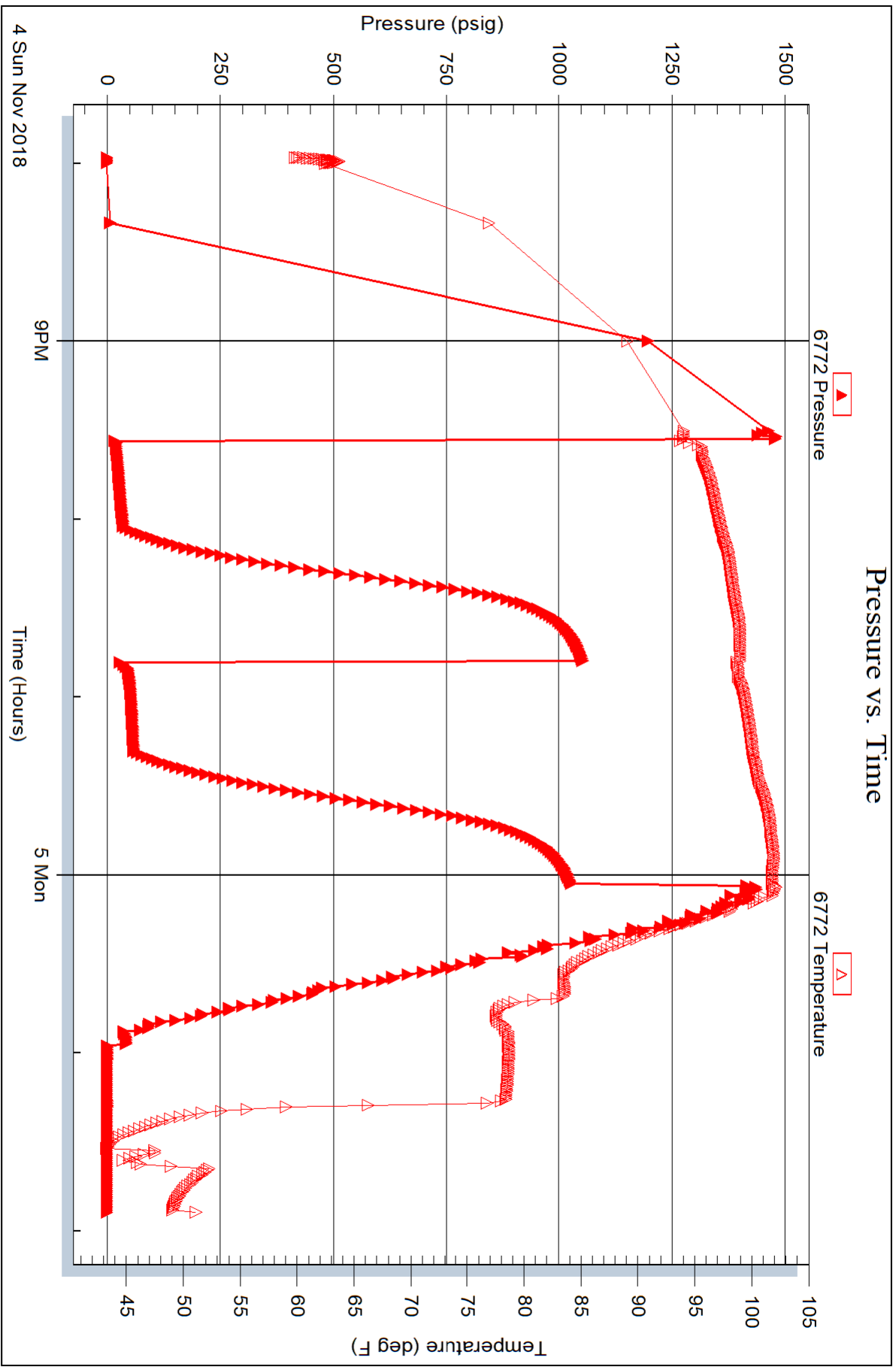
Serial #: 6772

Inside

Darrah oil company

Bronleewe

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah oil company
 po box 2786 w ichita ks 67201+2786
 ATTN: Seth Evenson

22-18s-9w rice county
Bronleewe 2-22
 Job Ticket: 53762 **DST#: 2**
 Test Start: 2018.11.05 @ 20:38:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:34:10
 Time Test Ended: 03:45:09
 Interval: **3271.00 ft (KB) To 3275.00 ft (KB) (TVD)**
 Total Depth: 3275.00 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: 1732.00 ft (KB)
 1727.00 ft (CF)
 KB to GR/CF: 5.00 ft

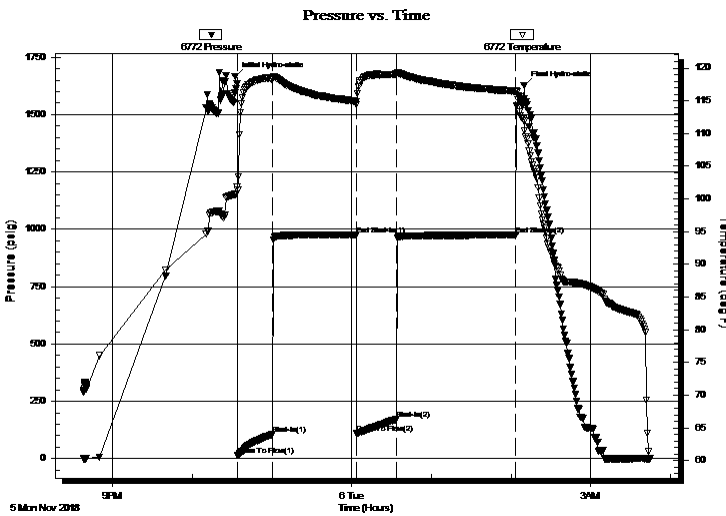
Serial #: 6772

Inside

Press@RunDepth: 171.16 psig @ 3272.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.05 End Date: 2018.11.06 Last Calib.: 2018.11.06
 Start Time: 20:38:01 End Time: 03:45:10 Time On Btm: 2018.11.05 @ 22:32:10
 Time Off Btm: 2018.11.06 @ 02:09:50

TEST COMMENT: I.F-30-BOB 14mins total build of 23.5"
 I.S.I-60- weak blow back
 F.F-30- BOB 17mins built to 18"
 F.S.I-90- no blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.87	100.72	Initial Hydro-static
2	14.92	101.40	Open To Flow (1)
29	107.36	118.30	Shut-In(1)
92	976.16	114.90	End Shut-In(1)
92	108.43	114.42	Open To Flow (2)
122	171.16	119.06	Shut-In(2)
212	974.71	116.49	End Shut-In(2)
218	1626.05	111.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
330.00	O.S.W.	3.54
30.00	C.O.	0.42

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah oil company
 po box 2786 w ichita ks 67201+2786
 ATTN: Seth Evenson

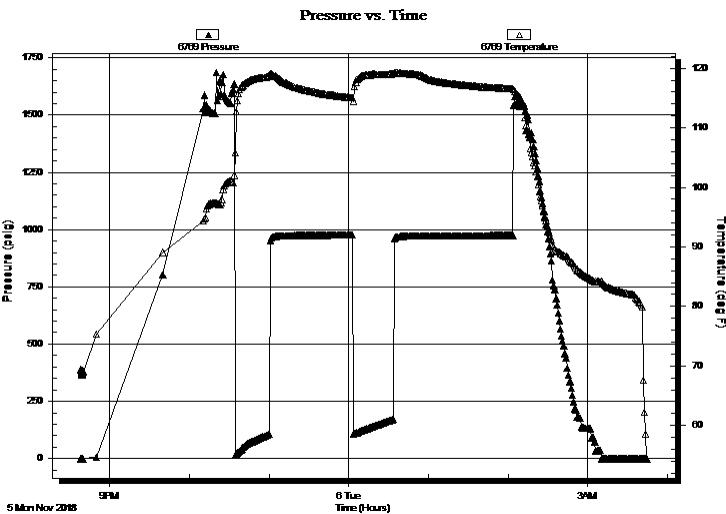
22-18s-9w rice county
Bronleewe 2-22
 Job Ticket: 53762 **DST#: 2**
 Test Start: 2018.11.05 @ 20:38:00

GENERAL INFORMATION:

Formation: Arbuckle	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Benny Mulligan
Time Tool Opened: 22:34:10	Unit No: 66
Time Test Ended: 03:45:09	
Interval: 3271.00 ft (KB) To 3275.00 ft (KB) (TVD)	Reference Elevations: 1732.00 ft (KB)
Total Depth: 3275.00 ft (KB) (TVD)	1727.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 5.00 ft

Serial #: 6769	Outside			
Press@RunDepth: psig @ 3272.00 ft (KB)	Capacity: 8000.00 psig			
Start Date: 2018.11.05	End Date: 2018.11.06	Last Calib.: 2018.11.06		
Start Time: 20:38:01	End Time: 03:45:00	Time On Btm:		
		Time Off Btm:		

TEST COMMENT: I.F-30-BOB 14mins total build of 23.5"
 I.S.I-60- weak blow back
 F.F-30- BOB 17mins built to 18"
 F.S.I-90- no blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
330.00	O.S.W.	3.54
30.00	C.O.	0.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah oil company
po box 2786 w ichita ks 67201+2786
ATTN: Seth Evenson

22-18s-9w rice county
Bronleewe 2-22
Job Ticket: 53762 **DST#: 2**
Test Start: 2018.11.05 @ 20:38:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 45 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 24000 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
330.00	O.S.W.	3.545
30.00	C.O.	0.421

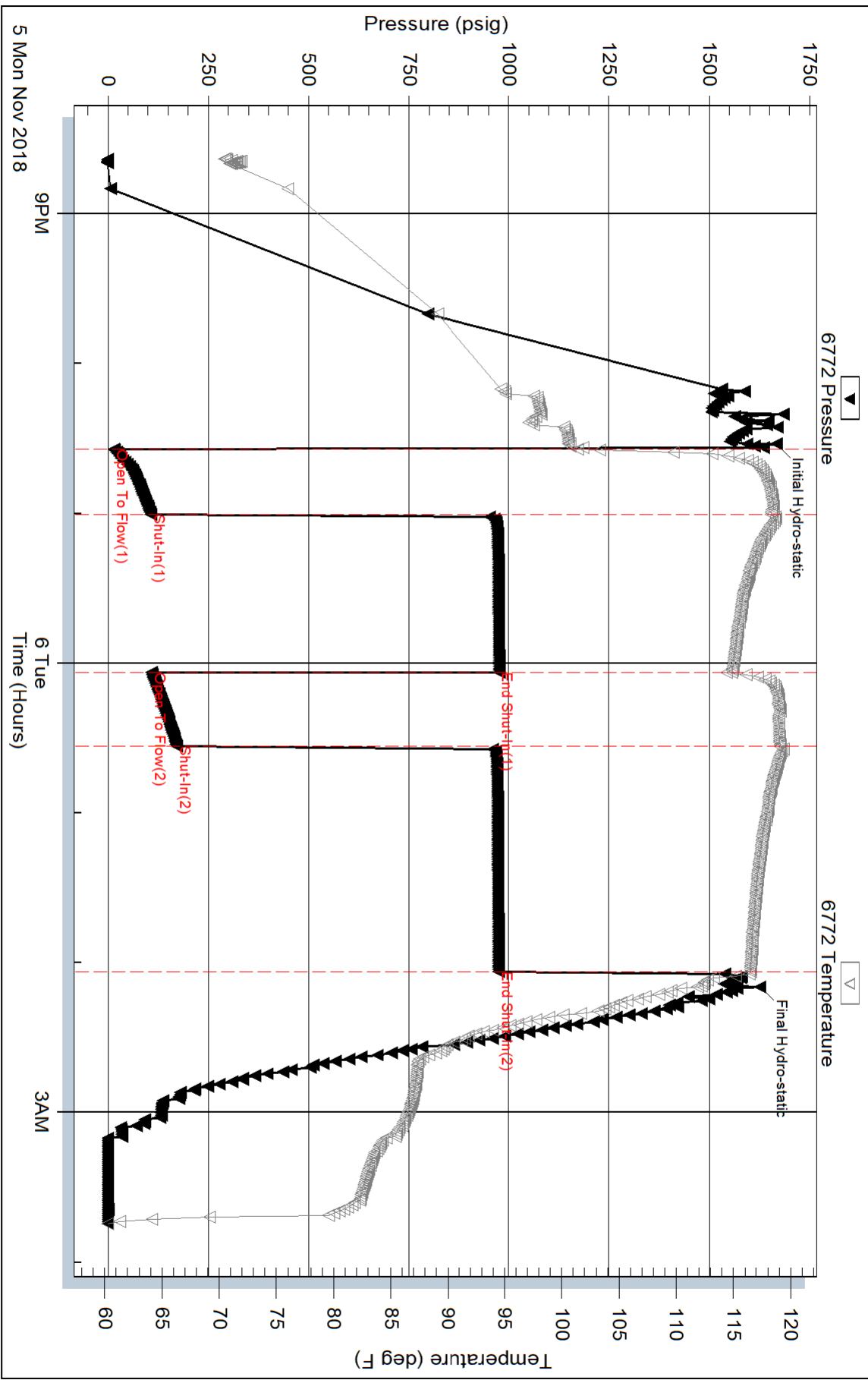
Total Length: 360.00 ft Total Volume: 3.966 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

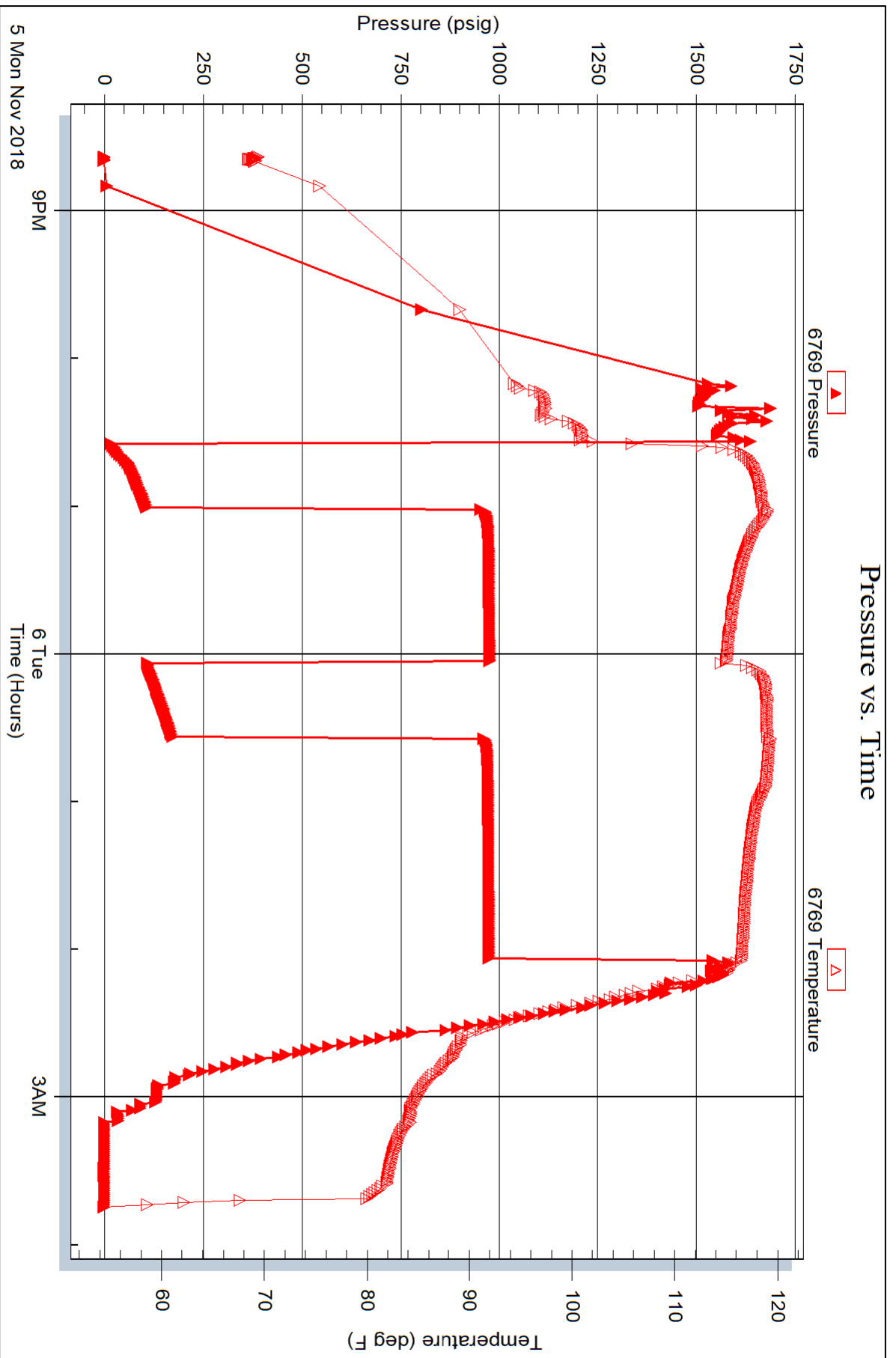


Serial #: 6769

Outside Darrah oil company

Bronleew e 2-22

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah oil company
 po box 2786 w ichita ks 67201+2786
 ATTN: Seth Evenson

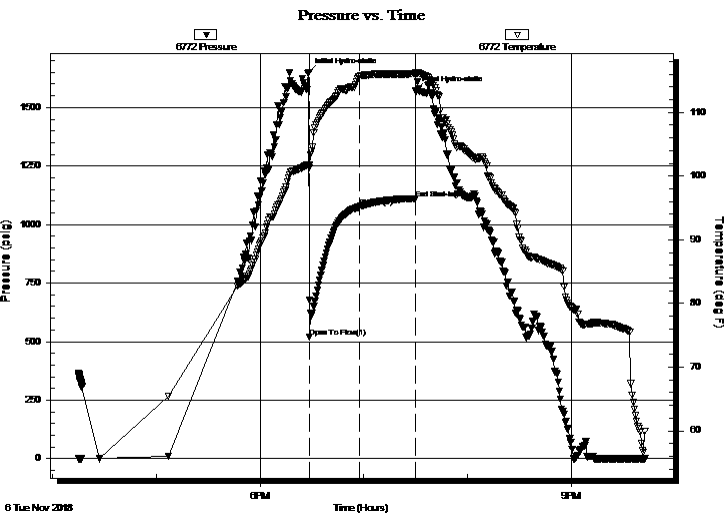
22-18s-9w rice county
Bronleewe 2-22
 Job Ticket: 53763 **DST#: 3**
 Test Start: 2018.11.06 @ 16:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:28:30
 Time Test Ended: 21:42:30
 Interval: **3286.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: 3330.00 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: 1732.00 ft (KB)
 1727.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6772 Inside
 Press@RunDepth: 1075.41 psig @ 3295.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.11.06 End Date: 2018.11.06 Last Calib.: 2018.11.06
 Start Time: 16:15:01 End Time: 21:42:30 Time On Btm: 2018.11.06 @ 18:28:10
 Time Off Btm: 2018.11.06 @ 19:29:50

TEST COMMENT: I.F.-30- BOB in 15 seconds built to 601 "
 F.S.I-30- no blow back



PRESSURE SUMMARY

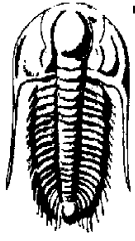
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.74	101.81	Initial Hydro-static
1	518.85	101.67	Open To Flow (1)
30	1075.41	115.65	Shut-In(1)
62	1110.97	116.06	End Shut-In(1)
62	1570.74	116.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1656.00	water 100% W	22.15
496.00	M.W. 20%M 80%W	6.96
248.00	W.M. 60%M 40%W	3.48

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah oil company
po box 2786 w ichita ks 67201+2786
ATTN: Seth Evenson

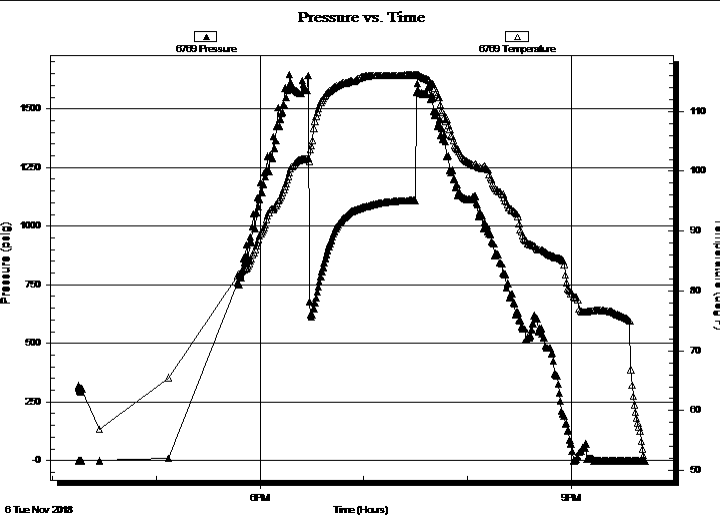
22-18s-9w rice county
Bronleewe 2-22
Job Ticket: 53763 **DST#: 3**
Test Start: 2018.11.06 @ 16:15:00

GENERAL INFORMATION:

Formation:	Arbuckle	Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock: ft (KB)	Tester:	Benny Mulligan
Time Tool Opened:	18:28:30	Unit No:	66
Time Test Ended:	21:42:30	Reference Elevations:	1732.00 ft (KB) 1727.00 ft (CF)
Interval:	3286.00 ft (KB) To 3330.00 ft (KB) (TVD)	KB to GR/CF:	5.00 ft
Total Depth:	3330.00 ft (KB) (TVD)		
Hole Diameter:	7.88 inches	Hole Condition:	Fair

Serial #: 6769	Outside	Capacity:	8000.00 psig
Press@RunDepth:	psig @ 3295.00 ft (KB)	Last Calib.:	1899.12.30
Start Date:	2018.11.06	End Date:	2018.11.06
Start Time:	16:15:01	End Time:	21:42:30
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: I.F.-30- BOB in 15 seconds built to 601 "
F.S.I.-30- no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
1656.00	water 100% W	22.15
496.00	M.W. 20%M 80%W	6.96
248.00	W.M. 60%M 40%W	3.48

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah oil company
 po box 2786 w ichita ks 67201+2786
 ATTN: Seth Evenson

22-18s-9w rice county
Bronleewe 2-22
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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:	20000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1656.00	water 100% W	22.145
496.00	M.W. 20%M 80%W	6.958
248.00	W.M. 60%M 40%W	3.479

Total Length: 2400.00 ft Total Volume: 32.582 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 0.55@42 degrees

