

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	O'Brien Resources, LLC
Well Name	BESPERAT 33 1
Doc ID	1326677

All Electric Logs Run

Composite
Den-Neu-Mic
Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	BESPERAT 33 1
Doc ID	1326677

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
	3810-3836		



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources L.L.C

S33-18S-17W

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61870

DST#: 1

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.20 @ 01:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:00

Time Test Ended: 08:30:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3811.00 ft (KB) To 3819.00 ft (KB) (TVD)

Reference Elevations: 2068.00 ft (KB)

Total Depth: 3819.00 ft (KB) (TVD)

2060.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 43.14 psig @ 3819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.20

End Date:

2016.12.20

Last Calib.:

2016.12.20

Start Time: 01:28:15

End Time:

08:30:45

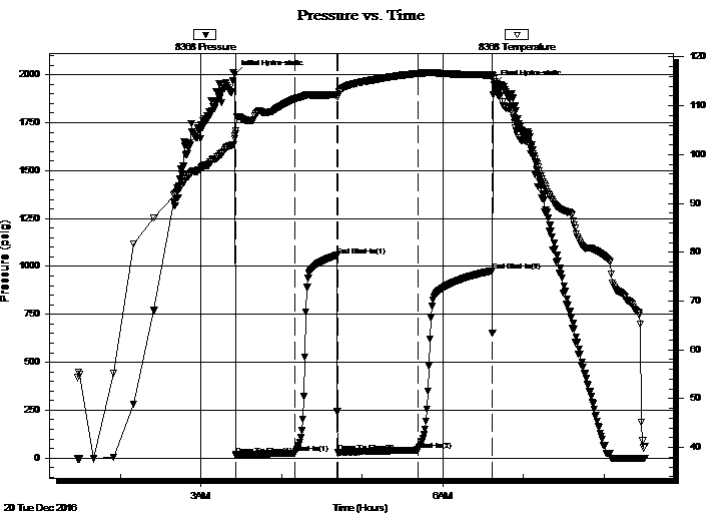
Time On Btm:

2016.12.20 @ 03:25:15

Time Off Btm:

2016.12.20 @ 06:38:15

TEST COMMENT: 45-IF-Fair Blow ; Built slow ly to 7 inches
30-ISI-No Blow Back
60-FF-Fair Blow ; Built very slow ly to 8 inches
60-FSI-No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.17	103.91	Initial Hydro-static
1	15.33	104.92	Open To Flow (1)
45	25.38	111.42	Shut-In(1)
76	1057.80	112.26	End Shut-In(1)
77	30.47	111.99	Open To Flow (2)
136	43.14	116.60	Shut-In(2)
192	976.97	116.29	End Shut-In(2)
193	1948.38	114.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM45% O 55% M	0.42
60.00	Clean Oil 100% O	0.84

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brien Resources L.L.C
 PO Box 6149
 Shreveport LA, 71136+6149
 ATTN: Jim Musgrove/ Steve

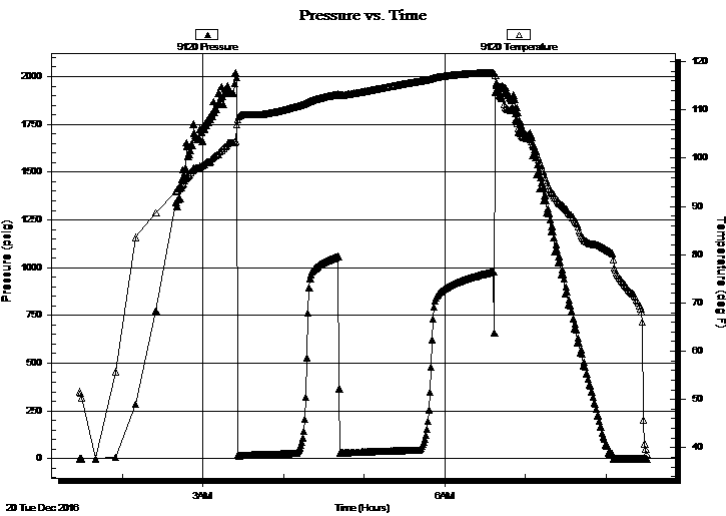
S33-18S-17W
Besperat #33-1
 Job Ticket: 61870 **DST#: 1**
 Test Start: 2016.12.20 @ 01:28:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:26:00
 Time Test Ended: 08:30:45
Interval: 3811.00 ft (KB) To 3819.00 ft (KB) (TVD)
 Total Depth: 3819.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2068.00 ft (KB)
 2060.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9120 **Inside**
 Press@RunDepth: psig @ 3819.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.20 End Date: 2016.12.20 Last Calib.: 2016.12.20
 Start Time: 01:28:15 End Time: 08:30:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45-IF-Fair Blow ; Built slow ly to 7 inches
 30-ISI-No Blow Back
 60-FF-Fair Blow ; Built very slow ly to 8 inches
 60-FSI-No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM45% O 55% M	0.42
60.00	Clean Oil 100% O	0.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brien Resources L.L.C

S33-18S-17W

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61870

DST#: 1

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.20 @ 01:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	OCM 45% O 55% M	0.421
60.00	Clean Oil 100% O	0.842

Total Length: 90.00 ft Total Volume: 1.263 bbl

Num Fluid Samples: 0

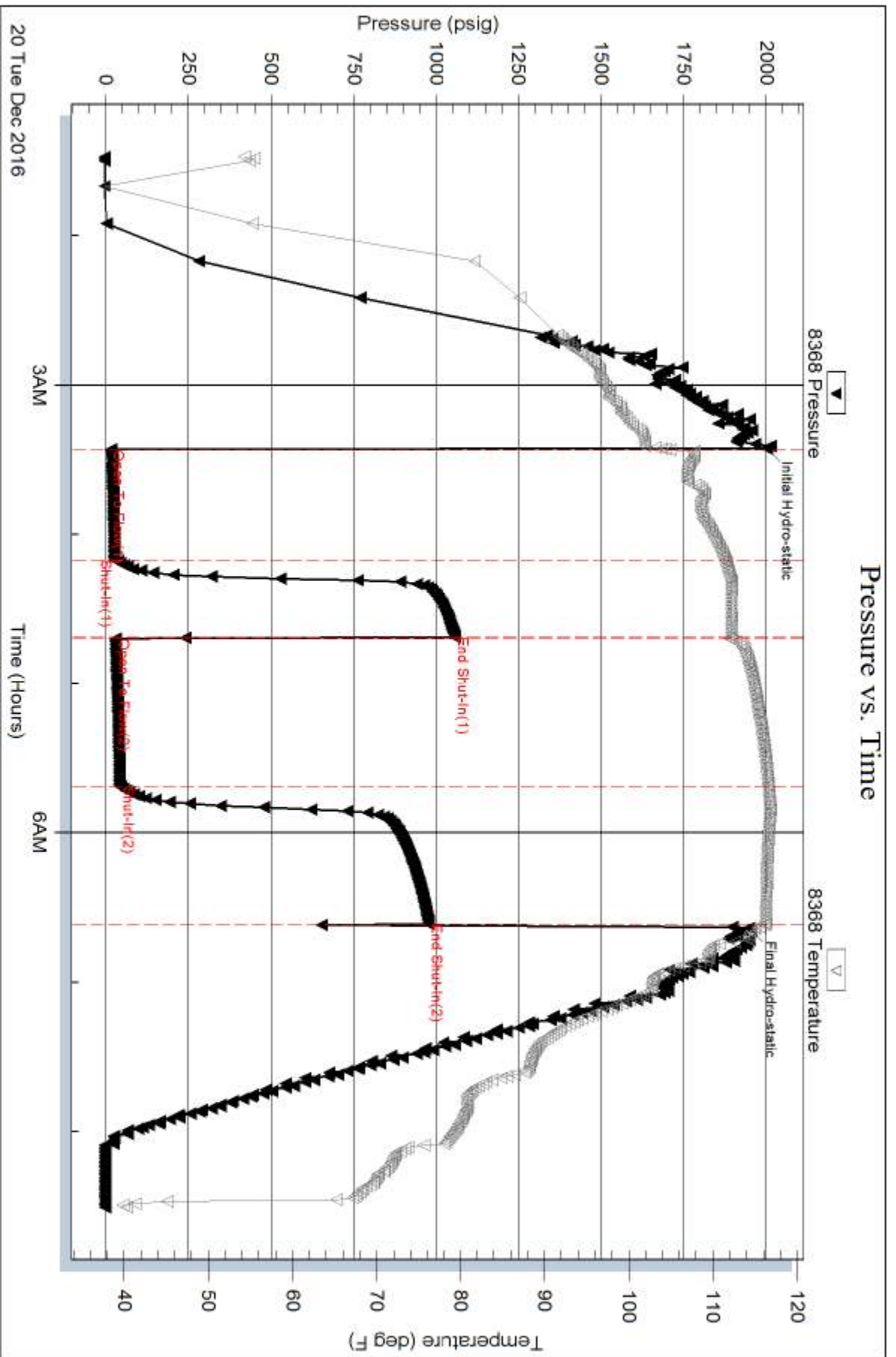
Num Gas Bombs: 0

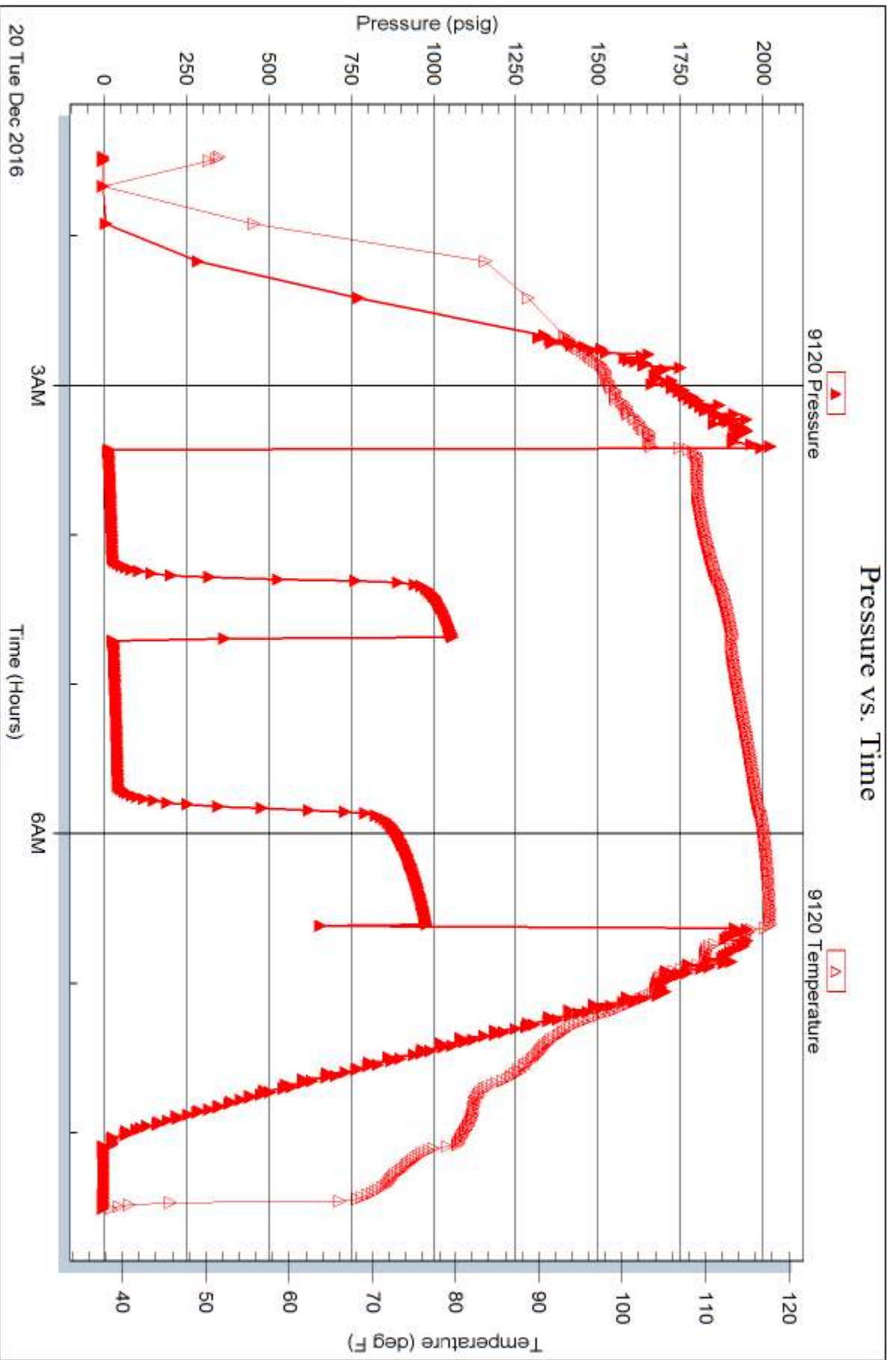
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources L.L.C

S33-18S-17W Rush, KS

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61871

DST#: 2

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.21 @ 01:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:00

Time Test Ended: 08:53:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3811.00 ft (KB) To 3824.00 ft (KB) (TVD)

Reference Elevations: 2068.00 ft (KB)

Total Depth: 3819.00 ft (KB) (TVD)

2060.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 129.23 psig @ 3816.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.21

End Date:

2016.12.21

Last Calib.:

2016.12.21

Start Time: 01:09:15

End Time:

08:53:30

Time On Btm:

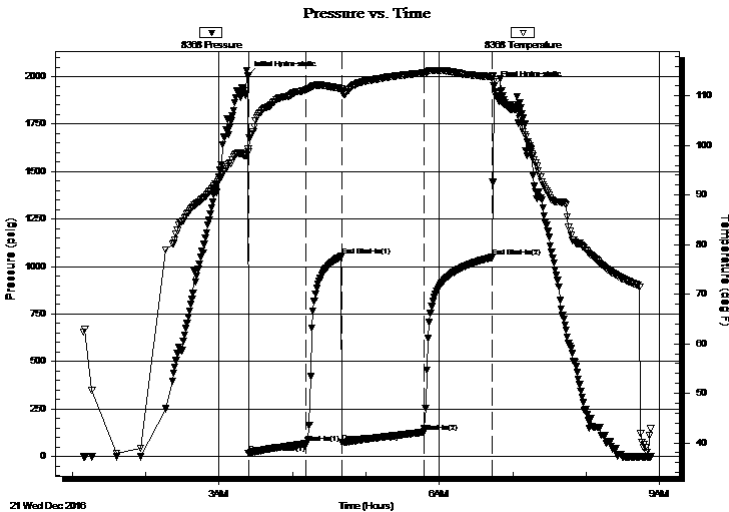
2016.12.21 @ 03:23:45

Time Off Btm:

2016.12.21 @ 06:44:30

TEST COMMENT: 45-IF-BOB in 20 minutes
30-ISI-No Blow Back
60-FF-BOB in 16 minutes
60-FSI-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.80	99.34	Initial Hydro-static
1	15.14	98.80	Open To Flow (1)
48	66.62	111.27	Shut-In(1)
77	1054.05	111.41	End Shut-In(1)
77	72.40	110.95	Open To Flow (2)
144	129.23	114.64	Shut-In(2)
200	1048.09	113.86	End Shut-In(2)
201	1951.79	112.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 50% O	0.84
260.00	Clean Gassy Oil 35% G 65% O	3.65

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources L.L.C

S33-18S-17W Rush, KS

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61871

DST#: 2

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.21 @ 01:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:00

Time Test Ended: 08:53:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3811.00 ft (KB) To 3824.00 ft (KB) (TVD)

Reference Elevations: 2068.00 ft (KB)

Total Depth: 3819.00 ft (KB) (TVD)

2060.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 9120 Outside

Press@RunDepth: psig @ 3816.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.21 End Date: 2016.12.21

Last Calib.: 2016.12.21

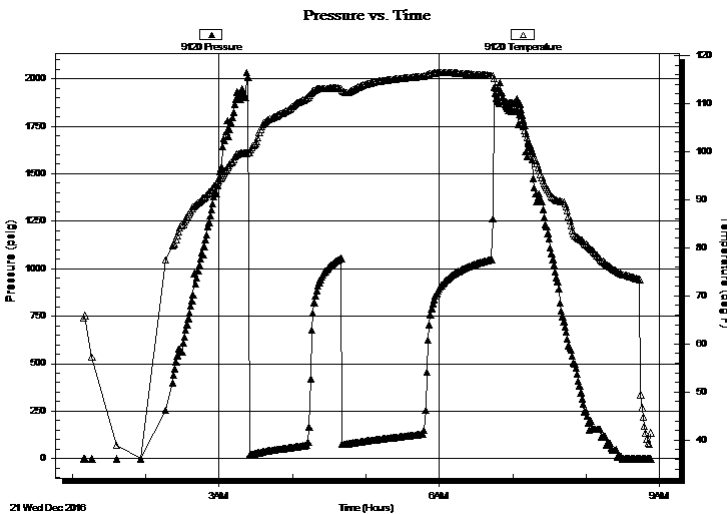
Start Time: 01:09:15 End Time: 08:53:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IF-BOB in 20 minutes
30-ISI-No Blow Back
60-FF-BOB in 16 minutes
60-FSI-No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 50% O	0.84
260.00	Clean Gassy Oil 35% G 65% O	3.65

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brien Resources L.L.C

S33-18S-17W Rush,KS

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61871

DST#: 2

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.21 @ 01:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCM 50% O	0.842
260.00	Clean Gassy Oil 35% G 65% O	3.647

Total Length: 320.00 ft Total Volume: 4.489 bbl

Num Fluid Samples: 0

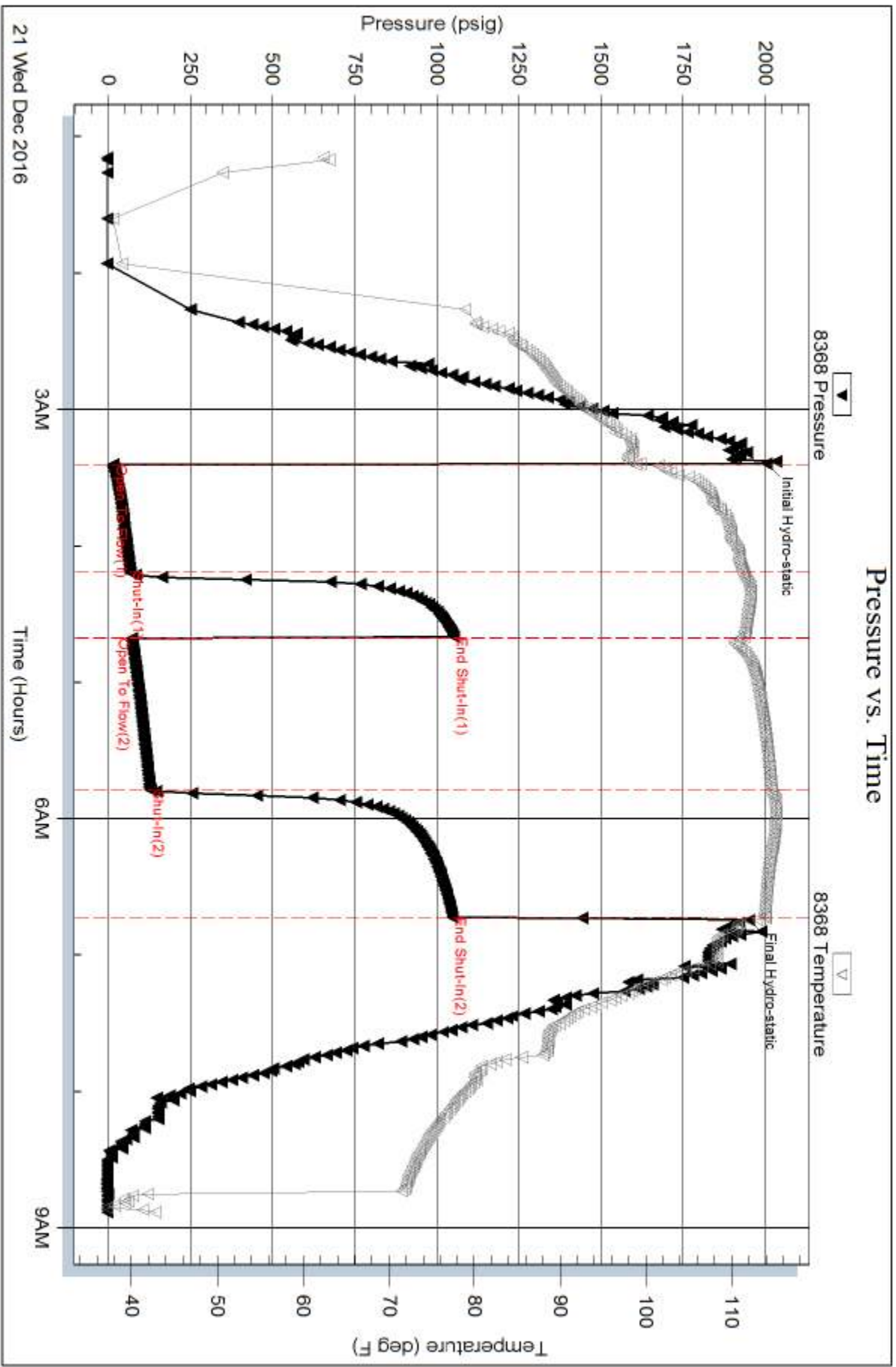
Num Gas Bombs: 0

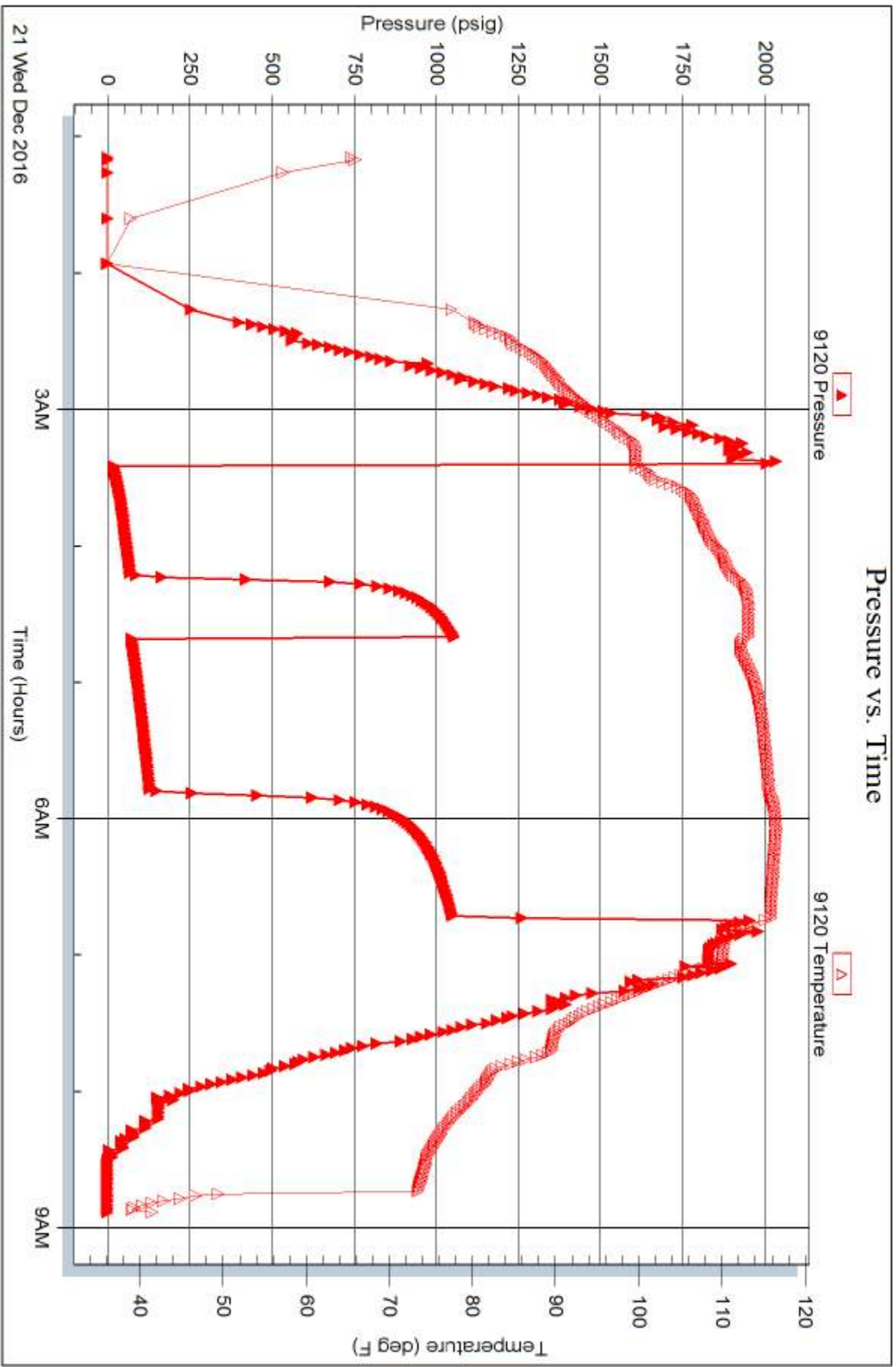
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources L.L.C

S33-18S-17W

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61872

DST#: 3

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.21 @ 18:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:45:15

Time Test Ended: 02:21:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3811.00 ft (KB) To 3836.00 ft (KB) (TVD)

Reference Elevations: 2068.00 ft (KB)

Total Depth: 3836.00 ft (KB) (TVD)

2060.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 200.98 psig @ 3816.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.21

End Date:

2016.12.22

Last Calib.:

2016.12.22

Start Time:

18:50:15

End Time:

02:21:30

Time On Btm:

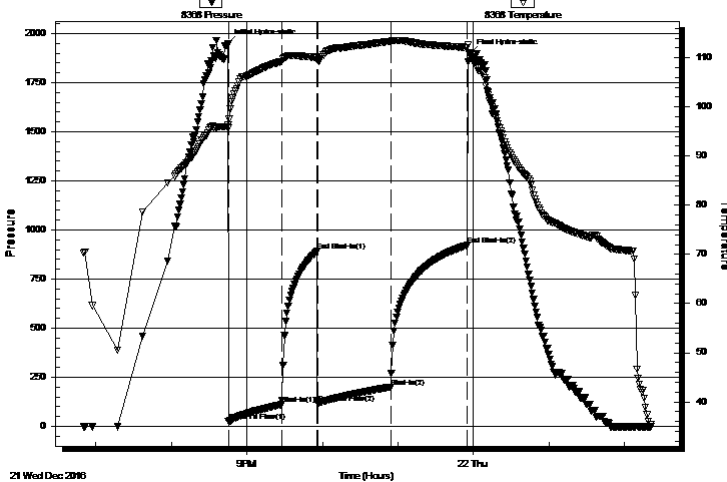
2016.12.21 @ 20:45:00

Time Off Btm:

2016.12.21 @ 23:57:15

TEST COMMENT: 45-IF-BOB in 7 minutes
30-ISI-Fair Blow ; built to 3 inches
60-FF-BOB in 6 minutes
60-FSI-Weak Blow ; built to 3/4 inch

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.26	96.39	Initial Hydro-static
1	24.98	95.79	Open To Flow (1)
43	111.56	109.23	Shut-In(1)
71	890.80	110.05	End Shut-In(1)
71	117.72	109.70	Open To Flow (2)
130	200.98	113.33	Shut-In(2)
190	922.09	112.09	End Shut-In(2)
193	1895.99	110.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCO 30% M 70%O	1.68
404.00	Clean Gassy Oil 25% G 75% O	5.67

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brien Resources L.L.C

S33-18S-17W

PO Box 6149
Shreveport LA, 71136+6149

Besperat #33-1

Job Ticket: 61872

DST#: 3

ATTN: Jim Musgrove/ Steve

Test Start: 2016.12.21 @ 18:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCO 30% M 70%O	1.683
404.00	Clean Gassy Oil 25% G 75% O	5.667

Total Length: 524.00 ft Total Volume: 7.350 bbl

Num Fluid Samples: 0

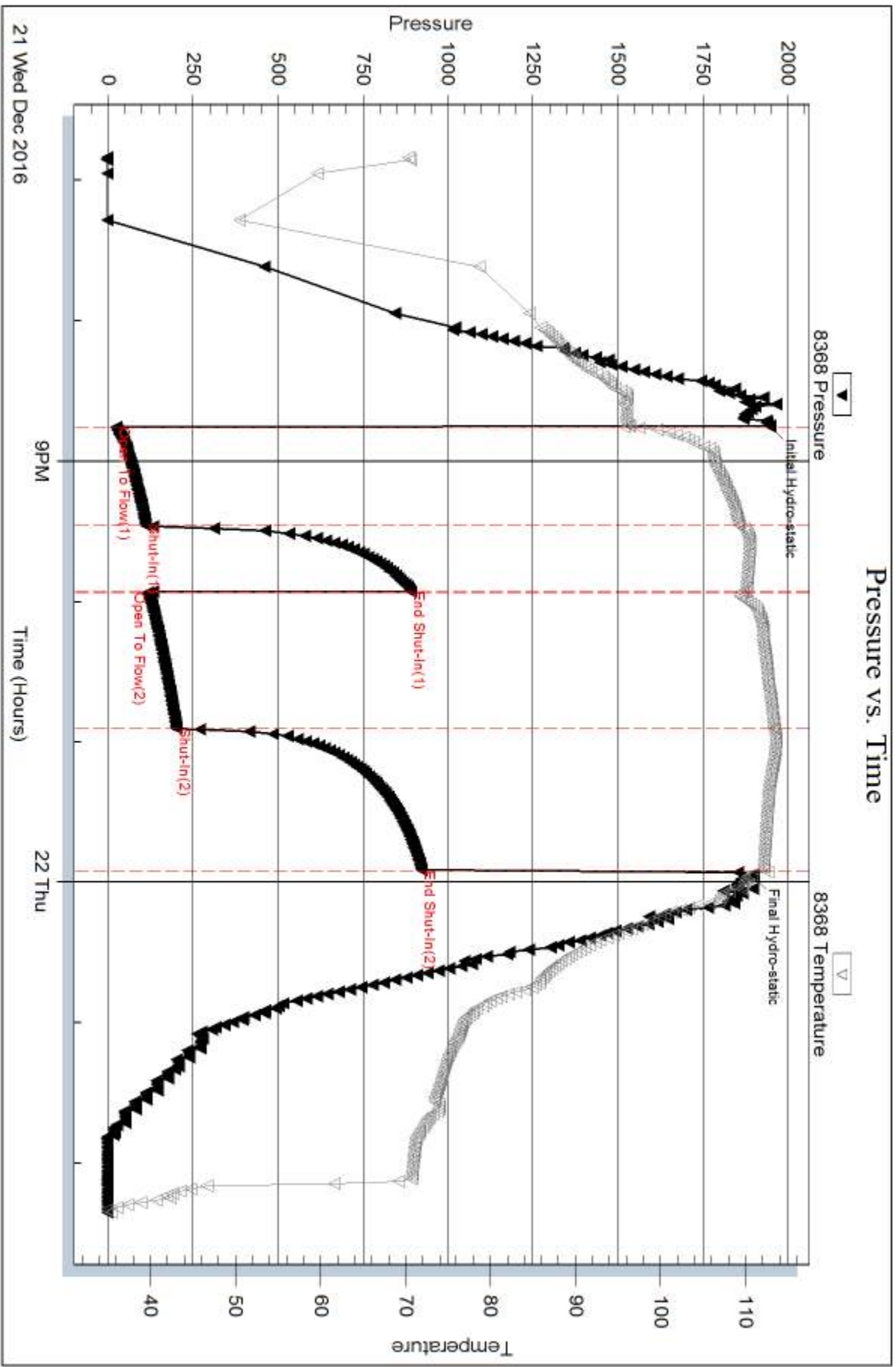
Num Gas Bombs: 0

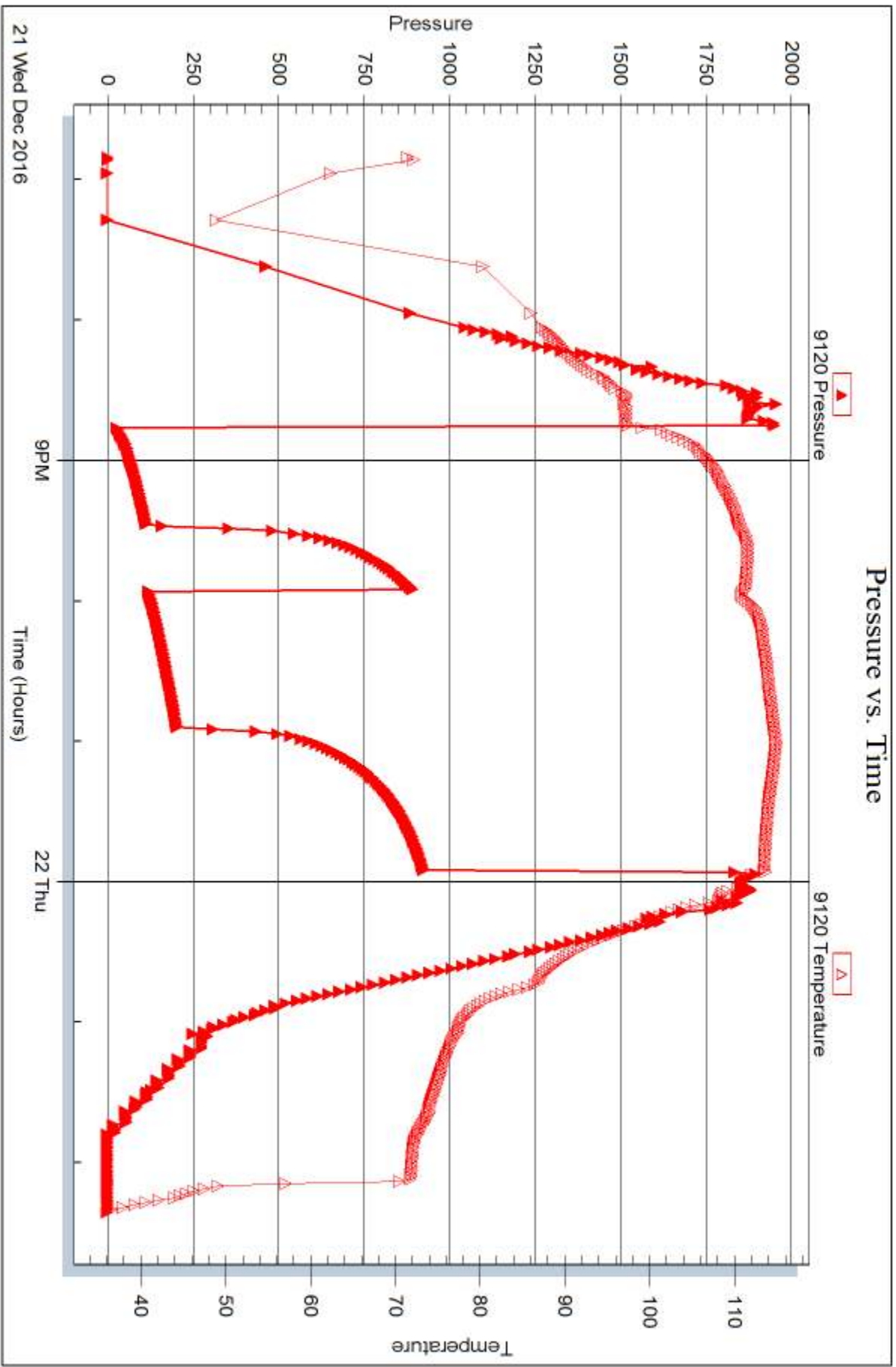
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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. 3048

Date ¹⁴ 12-13-16	Sec. 33	Twp. 18	Range 17	County Rush	State Ks	On Location	Finish 6:30 AM
				Location Timken, Ks - 1W, 2 1/2 S, W15			

Lease Besperat	Well No. 33-1	Owner
Contractor Duke #2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
Type Job Surface		
Hole Size 12 1/4"	T.D. 264'	Charge To O'Brien Resources
Csg. 8 5/8"	Depth 264'	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 15'	Shoe Joint 15'	Cement Amount Ordered 180 Com 3% CC 2% Gel
Meas Line	Displace 15 3/4 BCS	

EQUIPMENT

Pumptrk 18 No. Cementer Dave	Common 180
Bulktrk 9 No. Driver Rick	Poz. Mix
Bulktrk No. Driver	Gel. 3
Bulktrk No. Driver	Calcium 7

JOB SERVICES & REMARKS

Remarks: Cement did Circulate	Hulls
Rat Hole	Salt
Mouse Hole 10:30 am.	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 190
	Mileage

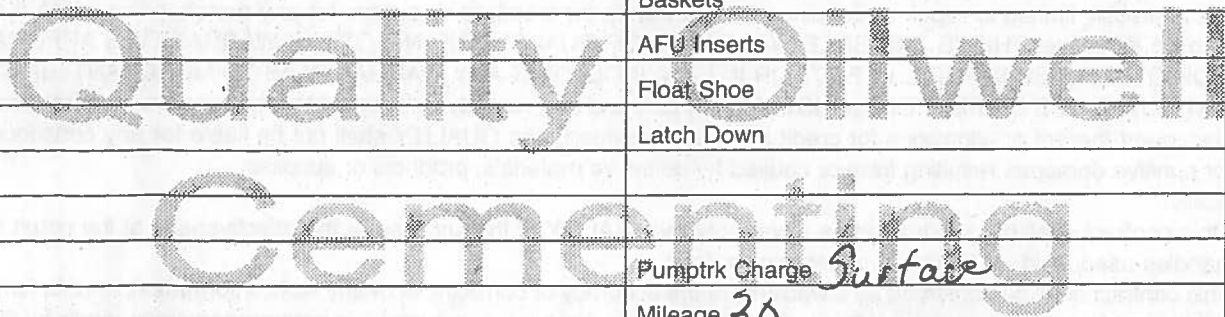
FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Surface
Mileage 30

X Signature *[Signature]*

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. 3112

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-23-16	33	18	17	Rush	Ks		11:30 AM

Location *Timken + 96 Hwy - 1W, 1 1/2 S, w/ IATO*

Lease *Besperat* Well No. *33-1* Owner

Contractor *Duke #2* To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job *Top Stage* Charge To *O'Brian Resources*

Hole Size *7 7/8"* T.D. *3836'* Street

Csg. *4 1/2" 10.50# New* Depth *1158'* City State

Tbg. Size Depth City State

Tool *DV Tool* Depth *1158'* The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered *380# QMDC 1/4# Flo-seal*

Meas Line Displace *18.41 BUS* *500 gal Mud Clear 48 used 325*

EQUIPMENT

Pumptrk *20* No. Cementer *Nick* Common *325 Q mdc*

Bulktrk *19* No. Driver *Doug* Poz. Mix

Bulktrk *pu.* No. Driver *Rick* Gel.

JOB SERVICES & REMARKS

Remarks: Hulls

Rat Hole *30 SX* Salt

Mouse Hole Flowseal *95#*

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar *63 - 1158'* CFL-117 or CD110 CAF 38

Pipe on bottom break Circulation Handling *380*

pump *500 gal mud Clear 48* Mileage

pump *5 BUS water spacer*

plug Rathole w/ *30 SX Hook to* **FLOAT EQUIPMENT**

Casing + mix *300 SX QMDC* Guide Shoe

shut down Released plug + Displaced Centralizer

w/ *18.41 BUS H2O, Released + held* Baskets

closed tel w/ *2000 #* AFU Inserts

Float Shoe

Latch Down

Mixed 325 SX

down 4 1/2" *Top stage*

Pumptrk Charge *prod string*

Mileage *18*

Tax

Discount

Total Charge

X Signature *[Signature]*

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. 3111

Date	12-23-16	Sec.	33	Twp.	18	Range	17	County	Rush	State	Ks	On Location		Finish	8:00 AM
Lease								Location		Timken + 96 Hwy - 1W, 1 1/2 S					
Besperat								Well No.		33-1					
Contractor								Owner		w/ Into					
Duke #2								To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job								Bottom stage							
Hole Size				T.D.				Charge To				O'Brian Resources			
7 7/8"				3836'											
Csg. 4 1/2" 10.50 New				Depth				Street							
3814'															
Tbg. Size				Depth				City				State			
Tool DU Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
1158'															
Cement Left in Csg. 42.10'				Shoe Joint				Cement Amount Ordered 225 Com 10% Salt 5% Gilsrite							
42.10'				42.10'											
Meas Line				Displace				500 gal mud clear 48							
				60 BLS											
EQUIPMENT								Common 225							
Pumptrk 20				No. Cementer Helper				Nick				Poz. Mix			
Bulktrk 9				No. Driver				Tim				Gel.			
Bulktrk p.u.				No. Driver				Rick				Calcium			
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt 19							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal 1125#							
Centralizers 2, 4, 6, 8, 10, 13, 62								Mud CLR 48 500 gal + 500 <i>on Invoice 1112</i>							
Baskets 3, 14, 63								CFL-117 or CD110 CAF 38							
D/V or Port Collar 63 1158'								Sand							
Pipe on bottom break Circulation								Handling 255							
pump 500 gal mud clear 48 pump								Mileage							
5 BLS water spacer mix 225								FLOAT EQUIPMENT							
so Cement shut down wash pump								Guide Shoe DU Tool w/ plug							
+ lines + Displaced plug w/ BLS								Centralizer 7							
45 water 15 mud								Baskets 3							
Released + held								AFU inserts Packer shoe							
Lift pressure 650 #								Float Shoe 4 1/2" x 5 1/2" Reducer							
								Latch Down Baker - Lock							
Land plug to 1800 #															
Open tool w/ 500 #								Pumptrk Charge prod string <i>Bottom stage</i>							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature <i>[Signature]</i>															