

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1350380
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1350380



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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	MOEDER 3 2
Doc ID	1350380

All Electric Logs Run

Composite
Den-Neutron-Micro
Induction
Micro
Sonic



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149
ATTN: Steve Harris/ Jim C.

Moeder 3 #2

Job Ticket: 63501

DST#: 1

Test Start: 2017.02.09 @ 01:43:00

GENERAL INFORMATION:

Formation: **LKC 'B-C'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:09:15

Time Test Ended: 08:41:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3494.00 ft (KB) To 3530.00 ft (KB) (TVD)

Reference Elevations: 2112.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

2104.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 137.48 psig @ 3495.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.09

End Date:

2017.02.09

Last Calib.:

2017.02.09

Start Time: 01:43:05

End Time:

08:40:59

Time On Btm:

2017.02.09 @ 04:07:30

Time Off Btm:

2017.02.09 @ 07:08:30

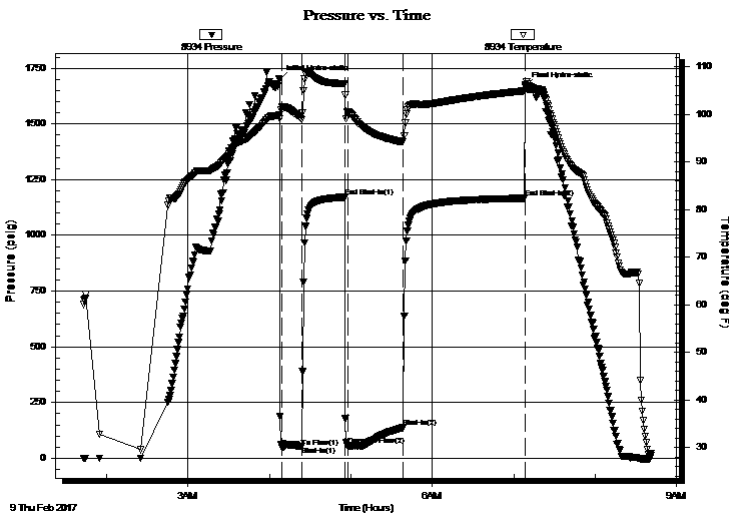
TEST COMMENT: 15-IF-BOB instantaneously; sw itched to Flow Line; Gas to surface in 2 minutes

30-ISI- No Blow Back

45-FF- Flow ed Gas

90-FSI-No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1699.79	99.95	Initial Hydro-static
2	48.91	101.50	Open To Flow (1)
17	54.77	98.89	Shut-In(1)
48	1171.24	106.50	End Shut-In(1)
50	56.61	100.62	Open To Flow (2)
91	137.48	94.28	Shut-In(2)
181	1166.70	104.96	End Shut-In(2)
181	1667.01	106.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100% M	0.49
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	17.00	49.81
Last Gas Rate	0.25	11.00	40.30
Max. Gas Rate	0.25	17.00	49.81



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brien Resources LLC
 PO BOX 6149
 Shreveport LA
 71136+6149
 ATTN: Steve Harris/ Jim C.

S3-19S-17W

Moeder 3 #2

Job Ticket: 63501

DST#: 1

Test Start: 2017.02.09 @ 01:43:00

GENERAL INFORMATION:

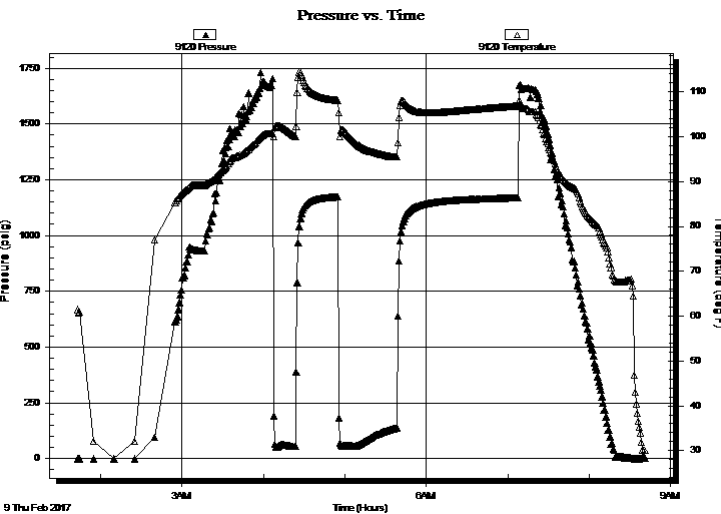
Formation: **LKC 'B-C'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:09:15
 Time Test Ended: 08:41:00
 Interval: **3494.00 ft (KB) To 3530.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2112.00 ft (KB)
 2104.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 9120

Inside

Press@RunDepth: psig @ 3495.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.02.09 End Date: 2017.02.09 Last Calib.: 2017.02.09
 Start Time: 01:43:15 End Time: 08:41:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IF-BOB instantaneously; sw itched to Flow Line; Gas to surface in 2 minutes
 30-ISI- No Blow Back
 45-FF- Flow ed Gas
 90-FSI-No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100% M	0.49
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	17.00	49.81
Last Gas Rate	0.25	11.00	40.30
Max. Gas Rate	0.25	17.00	49.81



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149

Moeder 3 #2

Job Ticket: 63501

DST#: 1

ATTN: Steve Harris/ Jim C.

Test Start: 2017.02.09 @ 01:43:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Mud 100% M	0.491
0.00	GTS	0.000

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149

Shreveport LA

71136+6149

ATTN: Steve Harris/ Jim C.

Moeder 3 #2

Job Ticket: 63501

DST#: 1

Test Start: 2017.02.09 @ 01:43:00

Gas Rates Information

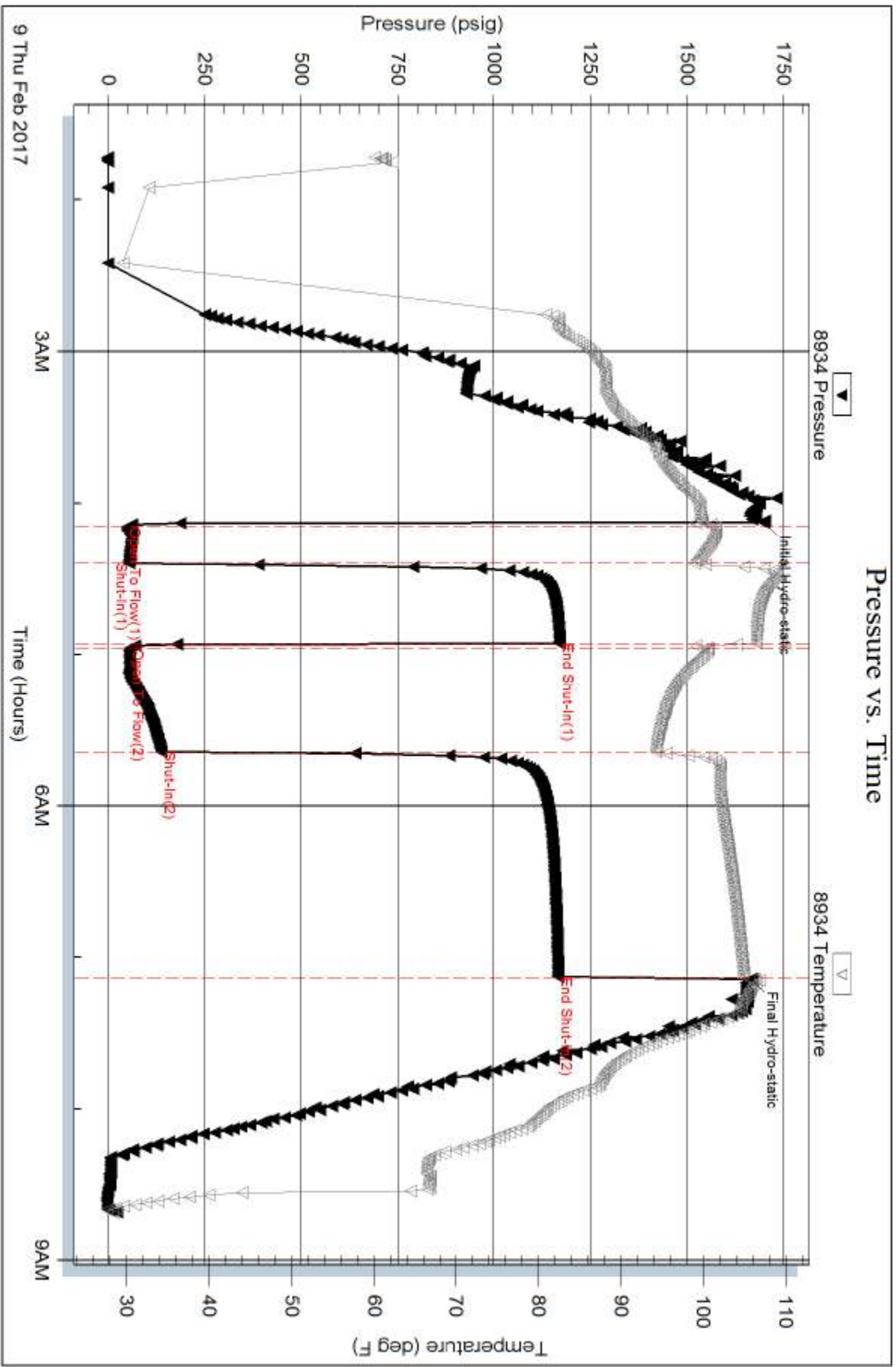
Temperature: 59 (deg F)

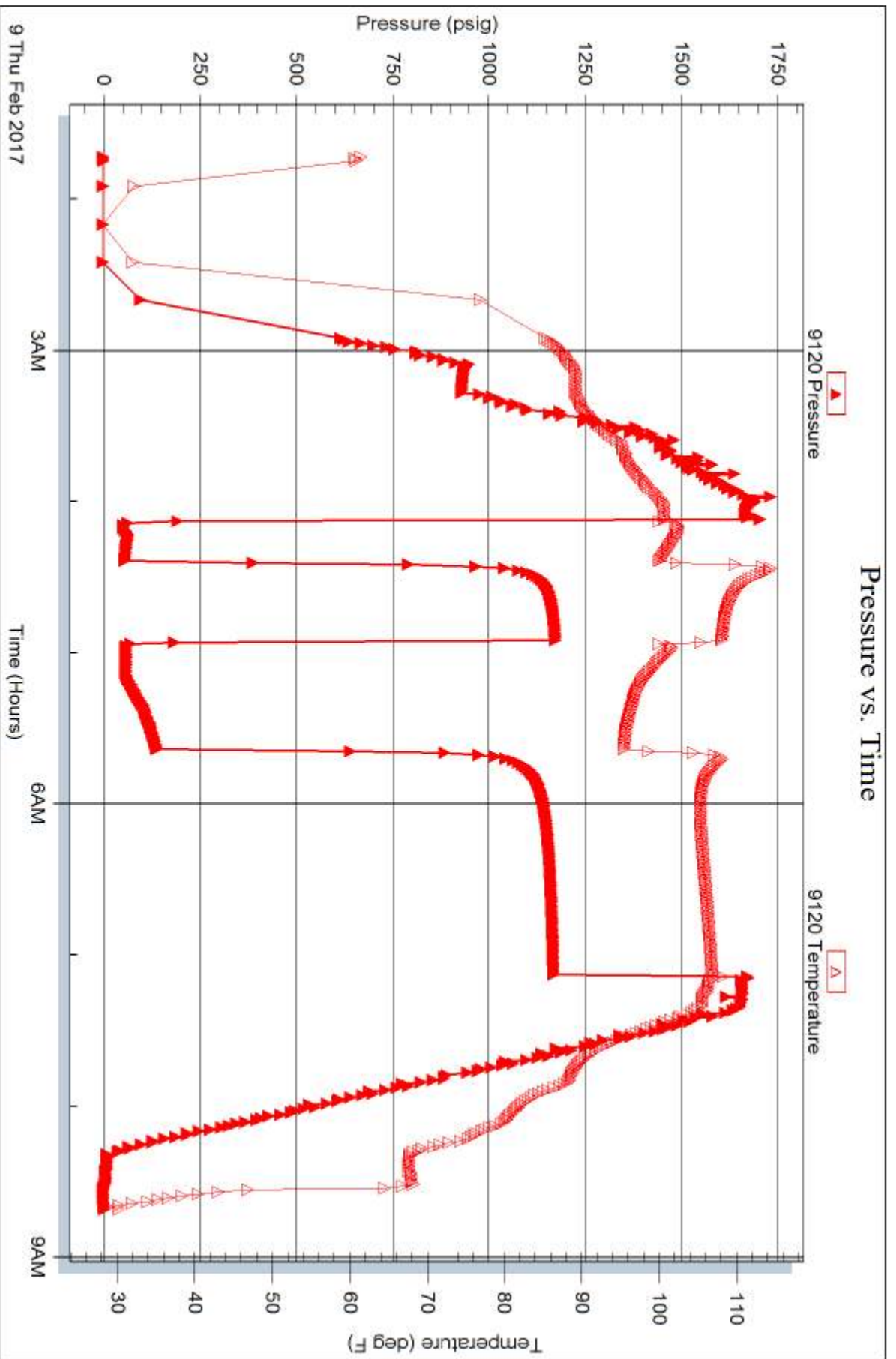
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	17.00	49.81
2	20	0.25	14.00	45.05
2	30	0.25	12.00	41.88
2	40	0.25	11.00	40.30







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149
ATTN: Steve Harris/ Jim C.

Moeder 3 #2

Job Ticket: 63502

DST#: 2

Test Start: 2017.02.10 @ 13:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:39:30

Time Test Ended: 20:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3778.00 ft (KB) To 3841.00 ft (KB) (TVD)

Reference Elevations: 2109.00 ft (KB)

Total Depth: 3841.00 ft (KB) (TVD)

2101.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 109.63 psig @ 3779.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.10 End Date: 2017.02.10

Last Calib.: 2017.02.10

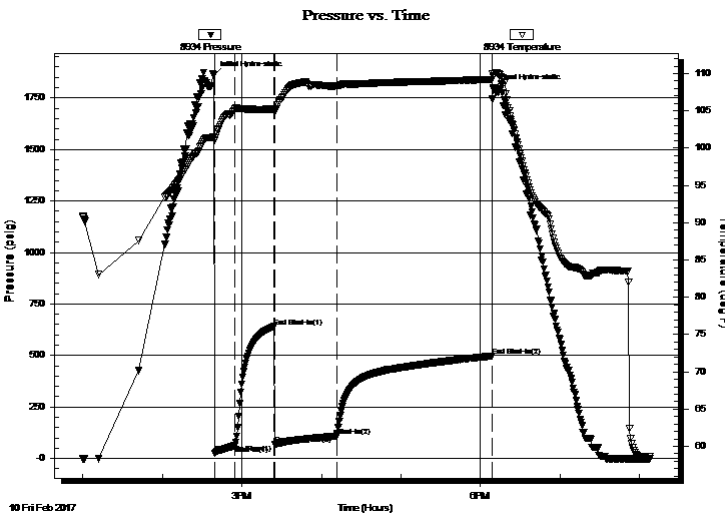
Start Time: 13:00:05 End Time: 20:07:59

Time On Btm: 2017.02.10 @ 14:39:00

Time Off Btm: 2017.02.10 @ 18:09:30

TEST COMMENT: 15-IF-BOB in 10 minutes
30-ISI-No Blow Back
45-FF-BOB in 9 minutes
120-FSI-No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1860.60	101.57	Initial Hydro-static
1	24.41	100.98	Open To Flow (1)
16	62.77	105.28	Shut-In(1)
46	639.22	105.25	End Shut-In(1)
46	69.21	105.07	Open To Flow (2)
93	109.63	108.37	Shut-In(2)
210	497.42	109.24	End Shut-In(2)
211	1796.96	109.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 5% G 40% O 55% M	0.86
63.00	GOCM 10% G 20% O 70% M	0.88
63.00	GMCO 15% G 55% O 30% M	0.88
63.00	GMCO 25% G 45% O 30% M	0.88

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brien Resources LLC
 PO BOX 6149
 Shreveport LA
 71136+6149
 ATTN: Steve Harris/ Jim C.

S3-19S-17W

Moeder 3 #2

Job Ticket: 63502

DST#: 2

Test Start: 2017.02.10 @ 13:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:39:30

Time Test Ended: 20:08:00

Interval: 3778.00 ft (KB) To 3841.00 ft (KB) (TVD)

Total Depth: 3841.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Reference Elevations: 2109.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 9120 Inside

Press@RunDepth: psig @ 3779.00 ft (KB)

Start Date: 2017.02.10 End Date: 2017.02.10

Start Time: 13:00:15 End Time: 20:08:00

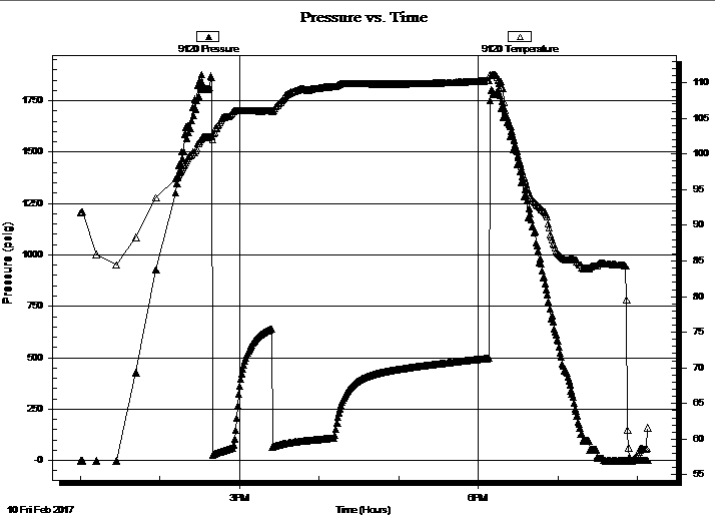
Capacity: 8000.00 psig

Last Calib.: 2017.02.10

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-BOB in 10 minutes
 30-ISI-No Blow Back
 45-FF-BOB in 9 minutes
 120-FSI-No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
61.00	GOCM 5% G 40% O 55% M	0.86
63.00	GOCM 10% G 20% O 70% M	0.88
63.00	GMCO 15% G 55% O 30% M	0.88
63.00	GMCO 25% G 45% O 30% M	0.88

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149

Moeder 3 #2

Job Ticket: 63502

DST#: 2

ATTN: Steve Harris/ Jim C.

Test Start: 2017.02.10 @ 13:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

47 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
61.00	GOCM 5% G 40% O 55% M	0.856
63.00	GOCM 10% G 20%O 70%M	0.884
63.00	GMCO 15%G 55% O 30%M	0.884
63.00	GMCO 25%G 45% O 30%M	0.884

Total Length: 250.00 ft

Total Volume: 3.508 bbl

Num Fluid Samples: 0

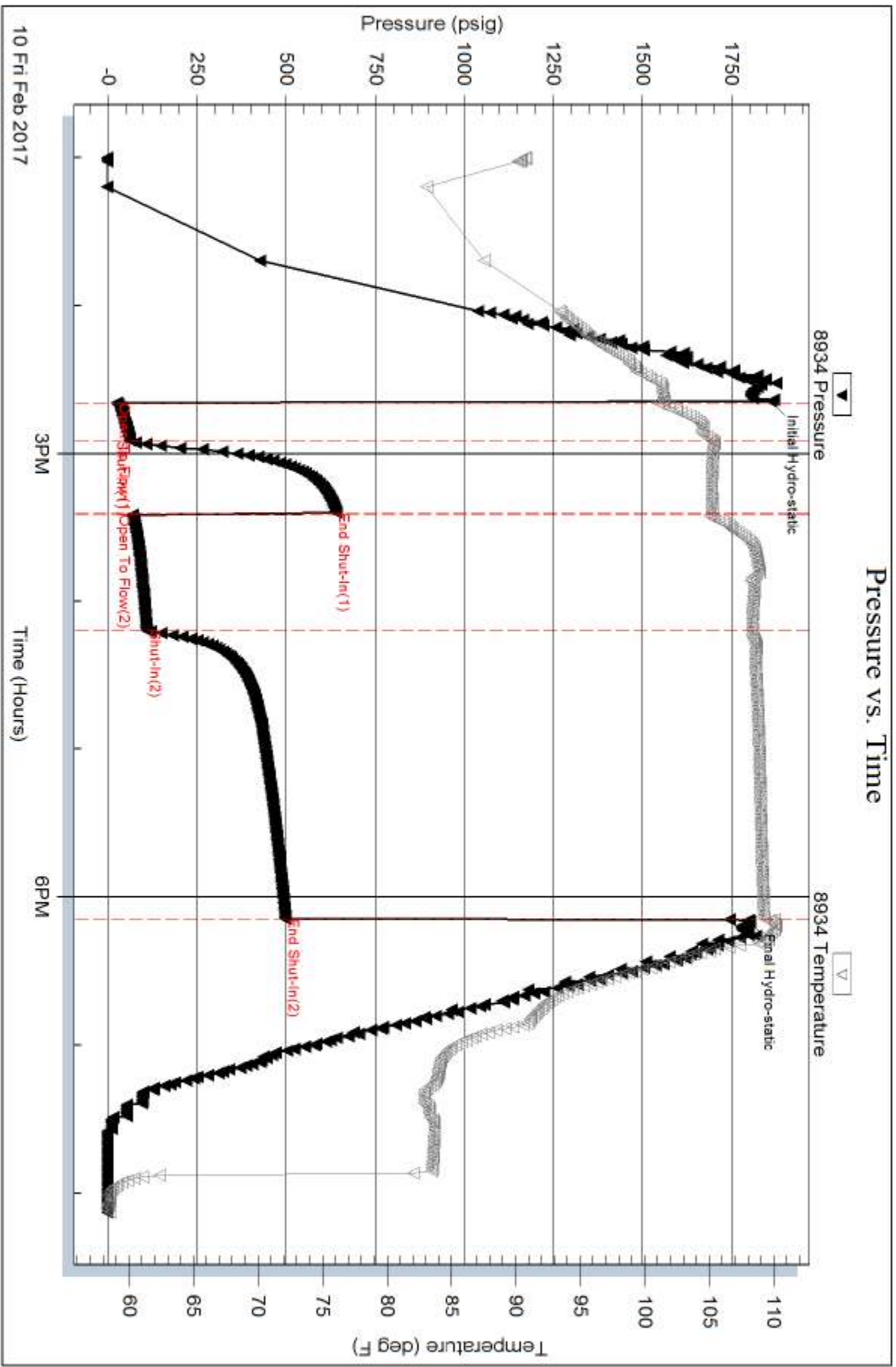
Num Gas Bombs: 0

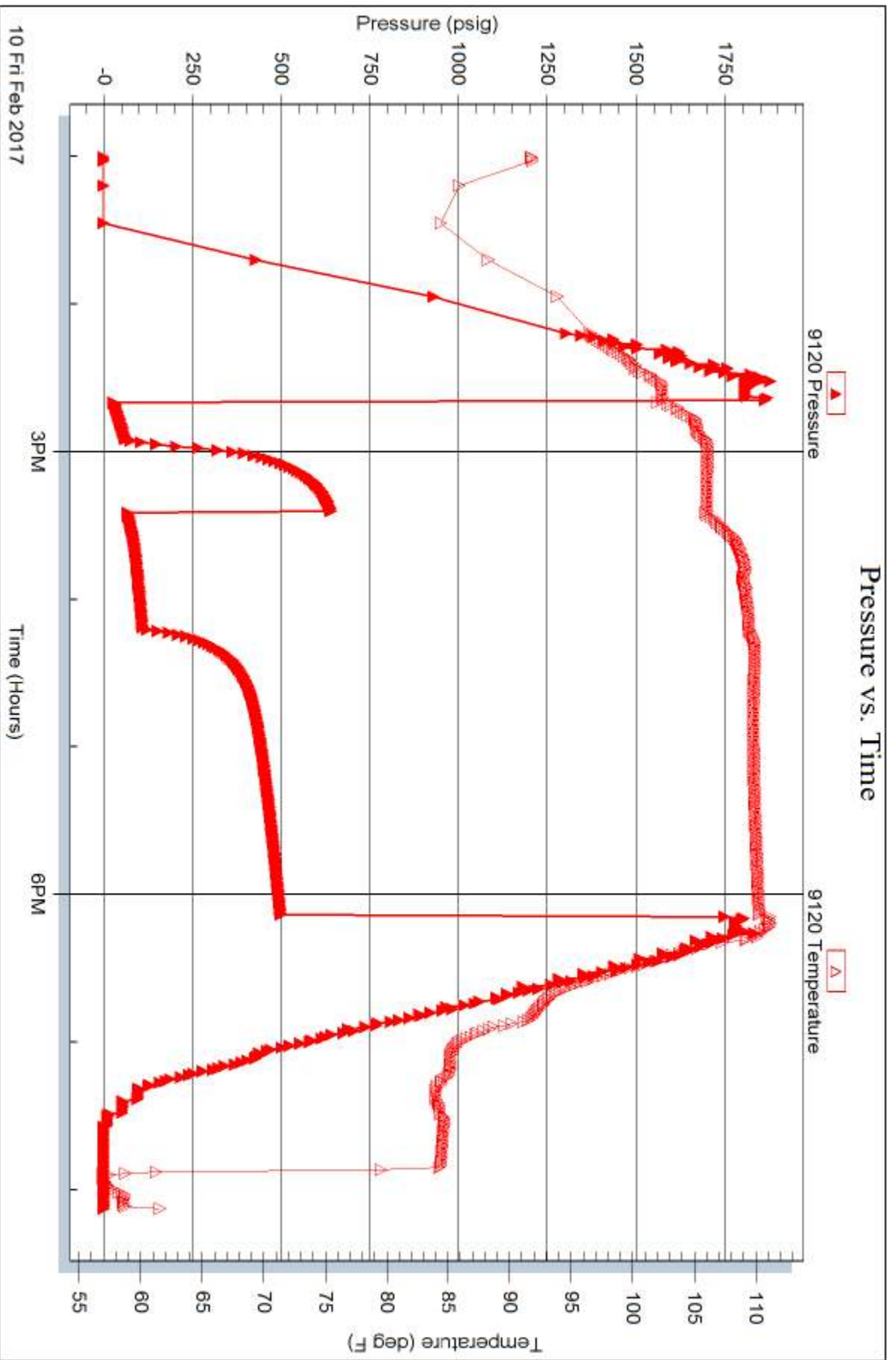
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149
ATTN: Steve Harris/ Jim C.

Moeder 3 #2

Job Ticket: 63503

DST#: 3

Test Start: 2017.02.11 @ 02:13:00

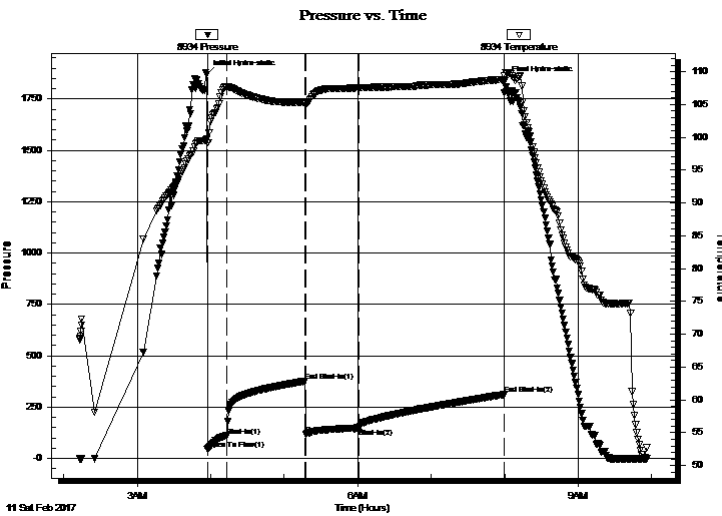
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:57:15
 Tester: Spencer J. Staab
 Time Test Ended: 09:56:30
 Unit No: 84
 Interval: **3778.00 ft (KB) To 3849.00 ft (KB) (TVD)**
 Reference Elevations: 2109.00 ft (KB)
 Total Depth: 3849.00 ft (KB) (TVD)
 2101.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 148.53 psig @ 3783.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.02.11 End Date: 2017.02.11 Last Calib.: 2017.02.11
 Start Time: 02:13:05 End Time: 09:56:29 Time On Btm: 2017.02.11 @ 03:56:45
 Time Off Btm: 2017.02.11 @ 08:00:00

TEST COMMENT: 15-IF-BOB in 3 minutes
 30-ISI-Very Weak Blow Back; built from a surface blow to 1/4 inch
 45-FF-BOB in 9 minutes
 120-FSI-No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1867.94	99.70	Initial Hydro-static
1	43.52	99.22	Open To Flow (1)
16	109.74	107.66	Shut-In(1)
81	376.62	105.29	End Shut-In(1)
81	119.04	105.19	Open To Flow (2)
125	148.53	107.57	Shut-In(2)
243	310.84	108.85	End Shut-In(2)
244	1839.85	109.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Clean Oil 100% O	0.42
160.00	GMCO 15% G 40%M 45%O	2.24
110.00	GMCO 20%G 40%M 40%O	1.54
140.00	Muddy Gassy Oil 20%M 40%G 40%O	1.96

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

O'Brien Resources LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149
ATTN: Steve Harris/ Jim C.

Moeder 3 #2

Job Ticket: 63503

DST#: 3

Test Start: 2017.02.11 @ 02:13:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:15

Time Test Ended: 09:56:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3778.00 ft (KB) To 3849.00 ft (KB) (TVD)

Reference Elevations: 2109.00 ft (KB)

Total Depth: 3849.00 ft (KB) (TVD)

2101.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9120 Inside

Press@RunDepth: psig @ 3783.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.11 End Date: 2017.02.11

Last Calib.: 2017.02.11

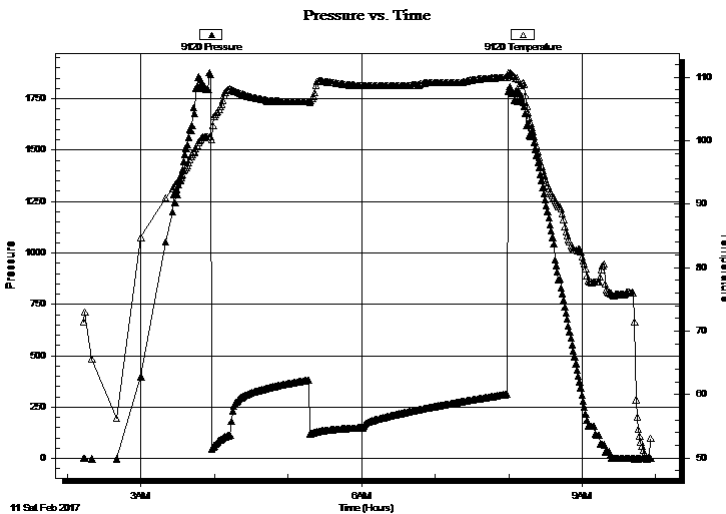
Start Time: 02:13:15 End Time: 09:56:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-BOB in 3 minutes
30-ISI-Very Weak Blow Back; built from a surface blow to 1/4 inch
45-FF-BOB in 9 minutes
120-FSI-No Blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Clean Oil 100% O	0.42
160.00	GMCO 15% G 40%M 45%O	2.24
110.00	GMCO 20%G 40%M 40%O	1.54
140.00	Muddy Gassy Oil 20%M 40%G 40%O	1.96

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 LLC

S3-19S-17W

PO BOX 6149
Shreveport LA
71136+6149

Moeder 3 #2

Job Ticket: 63503

DST#: 3

ATTN: Steve Harris/ Jim C.

Test Start: 2017.02.11 @ 02:13:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 9.19 in³
Resistivity: ohm.m
Salinity: 5100.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 47 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Clean Oil 100% O	0.421
160.00	GMCO 15% G 40%M 45%O	2.244
110.00	GMCO 20%G 40%M 40%O	1.543
140.00	Muddy Gassy Oil 20%M 40%G 40%O	1.964

Total Length: 440.00 ft Total Volume: 6.172 bbl

Num Fluid Samples: 0

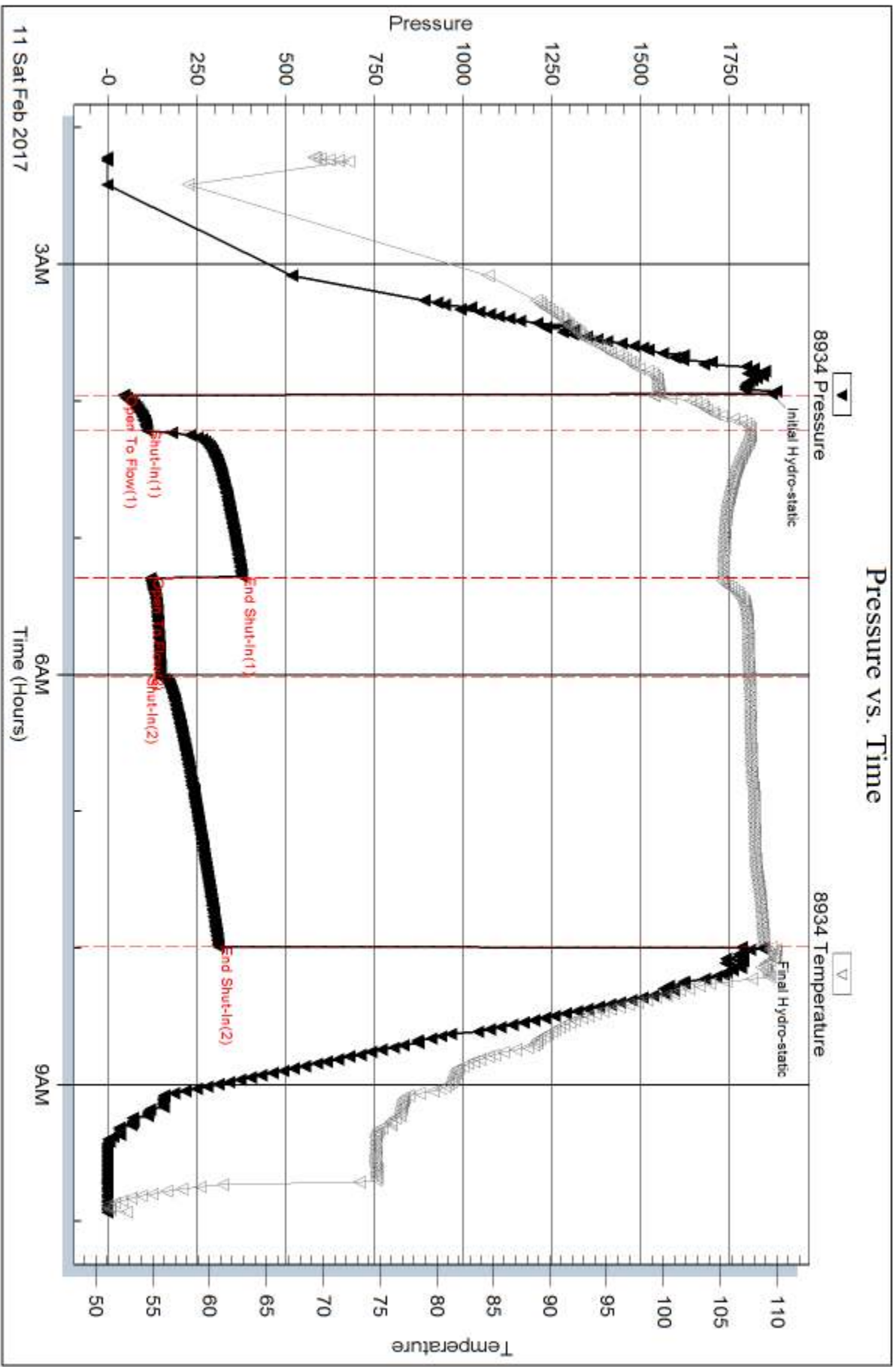
Num Gas Bombs: 0

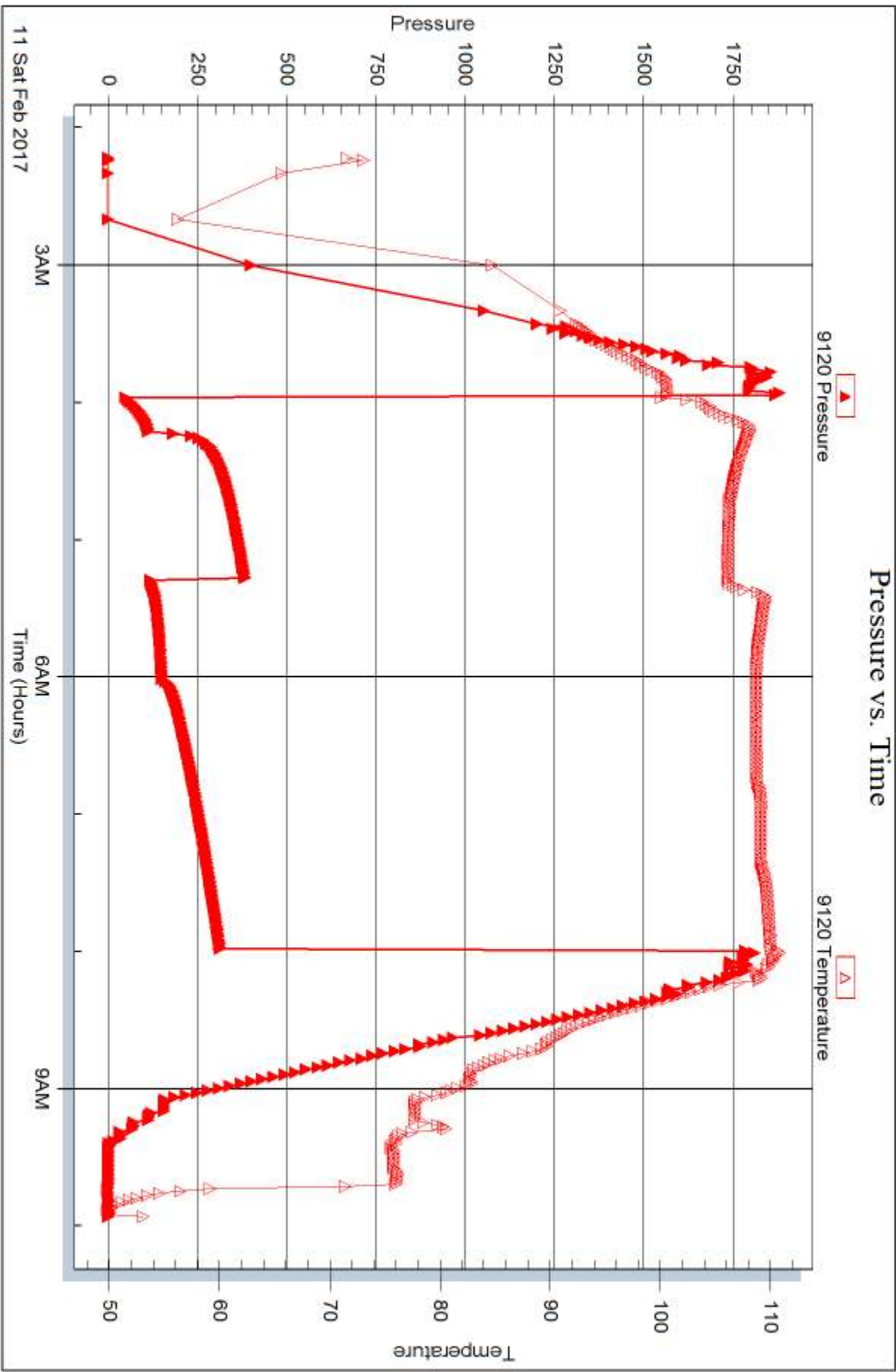
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 2/5/2017
 Invoice # 3136

P.O.#:
 Due Date: 3/7/2017
 Division: Russell

Invoice

Contact:
 O'BRIEN RESOURCES
 Address/Job Location:

P.O. BOX 6149
 SHREVEPORT LA 71136

Reference:
 MOEDER 3 SEC 3-19-17

Description of Work:
 SURFACE JOB

FEB 13 2017

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 467.97	No				
Common-Class A	220	\$ 2,298.61	Yes				
Calcium Chloride	8	\$ 281.98	Yes				
Bulk Truck Matl-Material Service Charge	232	\$ 146.02	No				
Pump Truck Mileage-Job to Nearest Camp	30	\$ 84.97	No				
Premium Gel (Bentonite)	4	\$ 73.01	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	30	\$ 66.09	No				

EXPEDITE

Invoice Terms:

Net 30

SubTotal: \$ 3,418.65
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (85.47)

SubTotal for Taxable Items: \$ 2,587.26
 SubTotal for Non-Taxable Items: \$ 745.92
 Total: \$ 3,333.18
 Tax: \$ 168.17

6.50% Rush County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,501.35
 Applied Payments:
 Balance Due: \$ 3,501.35

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed
 ©2008-2013 Straker Investments, LLC. All rights reserved.

Vendor # QUAD
 GL # 9165
 Desc: Cmt surf csg 2/5
 Date: 02-05-2017
 Unit: 18709 Status 161012-1
 Approved By: CSH



QUALITY OILWELL CEMENTING, INC.

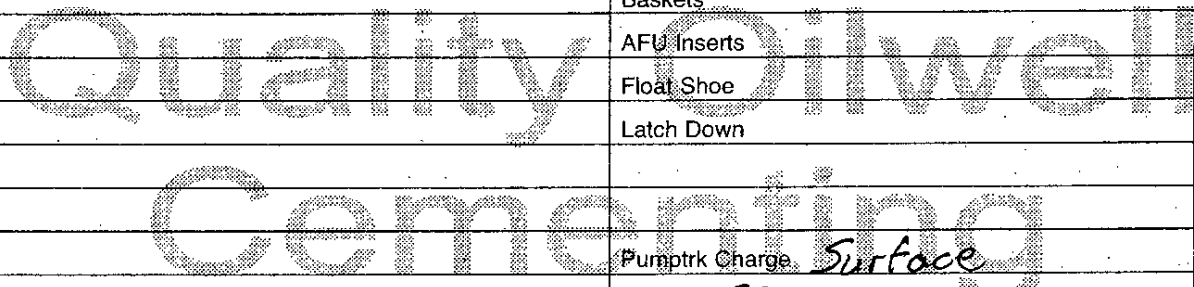
Federal Tax I.D.# 20-2886107

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

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

No. 3136

Date	2-5-17	Sec.	3	Twp.	19	Range	17	County	Rush	State	KS	On Location		Finish	12:30 AM		
Lease								Location		Timken + 96 Hwy - 1W 2 1/2 S							
Moeder				Well No.		3		Owner								Els	
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				Surface		Charge To										O'Brien Resources	
Hole Size				12 1/4"		T.D.		253'		Street							
Csg.				8 5/8"		Depth		253'		City						State	
Tbg. Size						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						220 Com 3% CC 2% Gel	
Meas' Line				Displace		15		BUS									
EQUIPMENT										Common						220	
Pumptrk 18				No.		Cementer		Nick		Helper						Poz. Mix	
Bulktrk 15				No.		Driver		Doug		Driver						Gel. 4	
Bulktrk p.u.				No.		Driver		Rick		Driver						Calcium 8	
JOB SERVICES & REMARKS										Hulls							
Remarks:				Cement did		Circulate		Salt									
Rat Hole						Flowseal											
Mouse Hole						Kol-Seal											
Centralizers						Mud CLR 48											
Baskets						CFL-117 or CD110 CAF 38											
D/V or Port Collar						Sand											
						Handling						232					
						Mileage											
FLOAT EQUIPMENT																	
						Guide Shoe											
						Centralizer											
						Baskets											
						AFU Inserts											
						Float Shoe											
						Latch Down											
						Pumptrk Charge						Surface					
						Mileage						30					
												Tax					
												Discount					
												Total Charge					
Signature																	



GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

O'BRIEN RESOURCES, LLC
P.O. BOX 6149
SHREVEPORT, LA 71136-6149

CAPITAL ONE, N.A.
SHREVEPORT, LOUISIANA

84-487/1111

44065

Six thousand nine hundred thirty-seven dollars and 45 cents

DATE	AMOUNT
02/22/2017	**6,937.45*

Pay to the Order of: QUALITY OILWELL CEMENTING, INC.
PO BOX 32
740 WEST WICHITA AVE.
RUSSELL, KS 67665

Steve R. Tarcks
Michael

SECURE FEATURES INCLUDE INVISIBLE FIBERS • MICROPRINTING • VOID FEATURE PANTOGRAPH • ENDORSEMENT BACKER • BROWNSTAIN CHEMICAL REACTANT • THERMOCHROMATIC THUMBPRINT

⑈00044065⑈ ⑆111104879⑆ ⑆5720254346⑈

From: O'BRIEN RESOURCES, LLC
To: QUALITY OILWELL CEMENTING, INC.
PO BOX 32
740 WEST WICHITA AVE.
RUSSELL, KS 67665

Vendor Code: QUA07
Check Date: 02/22/2017
Check Amount: \$6,937.45
Check Number: G-44065

Invoice #	Invoice Amt
3134 (Ref: 134390)	3,436.10
3136 (Ref: 134391)	3,501.35

From: O'BRIEN RESOURCES, LLC
To: QUALITY OILWELL CEMENTING, INC.
PO BOX 32
740 WEST WICHITA AVE.
RUSSELL, KS 67665

Vendor Code: QUA07
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Check Amount: \$6,937.45
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Invoice #	Invoice Amt
3134 (Ref: 134390)	3,436.10
3136 (Ref: 134391)	3,501.35

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. 7340

Date	2-12-17	Sec.	9	Twp.	19	Range	17	County	Rush	State	KS	On Location		Finish	5:30 pm		
Location								Timken 1w 3 1/2 S									
Lease	Morder		Well No.		A		Owner										
Contractor	DUKE #2		To Quality Oilwell Cementing, Inc.														
Type Job	DU JOB		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	7 7/8		T.D.		3848		Charge To		OBrien Resources								
Csg.	4 1/2		Depth		3838		Street										
Tbg. Size			Depth				City			State							
Tool	DU Tool		Depth		1220		The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.			Shoe Joint				Cement Amount Ordered		380 com QMDC 1/4 #F10								
Meas Line			Displace		20 BL		500 gal mud clear										
EQUIPMENT												Common				380 QMDC	
Pumptrk	5		No.		Cement		Helper		Craig						Poz. Mix		
Bulktrk			No.		Driver		BRETT						Gel.				
Bulktrk	19		No.		Driver		Doug						Calcium				
JOB SERVICES & REMARKS												Hulls					
Remarks:												Salt					
Rat Hole 30SK												Flowseal				95#	
Mouse Hole 15SK												Kol-Seal					
Centralizers												Mud CLR 48				500 gal	
Baskets												CFL-117 or CD110 CAF 38					
D/V or Port Collar												Sand					
Plug Ratholes mouse hole												Handling				380	
Pump 500 gal mud clear												Mileage					
Cement 4 1/2 with 335SK												FLOAT EQUIPMENT					
Displace Plug												Guide Shoe					
Plug land @ 1500ft												Centralizer					
Cement Created												Baskets					
												AFU Inserts					
												Float Shoe					
												Latch Down					
												Pumptrk Charge				prod string Top stage	
												Mileage				30	
												Tax					
												Discount					
												Total Charge					
X 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. 7339

Date	2-12-17	Sec.	9	Twp.	19	Range	17	County	Rush	State	Ks	On Location		Finish	1:30pm
------	---------	------	---	------	----	-------	----	--------	------	-------	----	-------------	--	--------	--------

Location Timken /w 3 1/2 S E into

Lease	<u>Moeder</u>	Well No.	<u>3</u>	Owner	
Contractor	<u>Duke #2</u>	To Quality Oilwell Cementing, Inc.			
Type Job	<u>DV Job</u>	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	<u>7 7/8</u>	T.D.	<u>3848</u>	Charge To	<u>O'Brien Resources</u>
Csg.	<u>4 1/2 10.5</u>	Depth	<u>3838</u>	Street	
Tbg. Size		Depth		City	State
Tool	<u>DV Tool</u>	Depth	<u>1220</u>	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	<u>42.10</u>	Shoe Joint	<u>42.10</u>	Cement Amount Ordered	<u>22.5com 10/salt 5/Gilsonite</u>
Meas Line		Displace	<u>60 BL</u>		<u>50gal mudcl</u>

EQUIPMENT

Pumptrk	<u>5</u>	No.		Cementer	<u>Craig</u>	Common	<u>22.5</u>
				Helper	<u>Brett</u>	Poz. Mix	
Bulktrk		No.		Driver		Gel.	
Bulktrk	<u>9</u>	No.		Driver	<u>Doug</u>	Calcium	

JOB SERVICES & REMARKS

Remarks:		Hulls	
Rat Hole		Salt	<u>19</u>
Mouse Hole		Flowseal	
Centralizers		Kol-Seal	<u>1125 #</u>
Baskets		Mud CLR 48	<u>500 gal</u>
D/V or Port Collar		CFL-117 or CD110 CAF 38	
<u>4 1/2 size 3838. Insert @ 3796</u>		Sand	
<u>Est Circulation - Set Packer shoe.</u>		Handling	<u>255</u>
<u>Pump 500 gal mud clear @ 10 BL spacer</u>		Mileage	
<u>Cement 4 1/2 with 22.5 sk. Clear</u>		FLOAT EQUIPMENT <u>4 1/2</u>	
<u>lines & Displace Plug. Displace</u>		Guide Shoe	<u>5 1/2 Packer shoe</u>
<u>with 36 BL water 18 BL mud &</u>		Centralizer	<u>7</u>
<u>6 BL water to land plug.</u>		Baskets	<u>3 Cage Baskets</u>
<u>Plug land @ 1500# Lift pressure</u>		AFU Inserts	<u>DV Tool</u>
<u>800#</u>		Float Shoe	<u>1</u>
<u>Drop Dart & open DV Tool.</u>		Latch Down	<u>1</u>
<u>Circulate 3 HRS.</u>			<u>1 Baker lock</u>
			<u>1 1/2 - 5/8 Reducer</u>
		Pumptrk Charge	<u>prod string Bottom stage</u>
		Mileage	<u>30</u>

X Signature <u>[Signature]</u>	Tax	
	Discount	
	Total Charge	

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

July 10, 2017

Steve Harris
O'Brien Resources, LLC
PO BOX 6149
SHREVEPORT, LA 71136-6149

Re: ACO-1
API 15-165-22143-00-00
MOEDER 3 2
NW/4 Sec.03-19S-17W
Rush County, Kansas

Dear Steve Harris:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 02/04/2017 and the ACO-1 was received on July 10, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department