



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1196738  
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: \_\_\_\_\_

1196738

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> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	Sharp Seed 2 2
Doc ID	1196738

All Electric Logs Run

Caliper
Induction
Microlog
Porosity Micro
Composite

Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	Sharp Seed 2 2
Doc ID	1196738

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3,932-3,965	1,500 gals 15% Ne acid	
4	4,303-4,306		
4	4,374-4,377	500 gals 15 % Ne acid	
4	4,392-4,398		
4	4,422-4,428	500 gals 15% Ne acid	
4	4,476-4,782	350 gals 15% MCA	
4	4,503-4,514	350 gals 15 % MCA	



# ALLIED OIL & GAS SERVICES, LLC 055031

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell, KS

DATE <u>2.5.14</u>	SEC <u>2</u>	TWP <u>17</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START <u>11:50 AM</u>	JOB FINISH <u>8:00 AM</u>
LEASE <u>Sharp Creek</u>	WELL # <u>252</u>	LOCATION <u>Healey KS</u>			COUNTY <u>Lane</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>1 North 1/2 east South 1/4</u>					

CONTRACTOR Maverick Drilling #102 OWNER

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. CEMENT AMOUNT ORDERED 300 SK Com

CASING SIZE 8 3/8 DEPTH 244' + 2% gel + 3% cc

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 300 SK @ 11.9 \$5,310.00

MEAS. LINE SHOE JOINT 10' POZMIX @ ~~7.00~~

CEMENT LEFT IN CSG. 15' GEL 0.64 SK @ 23.4 \$131.97

PERFS. CHLORIDE 0.46 SK @ 64.0 \$541.44

DISPLACEMENT 14.93 / 020 ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER Jay P

# 417 HELPER Danny S

BULK TRUCK

# 473 DRIVER Jesse C.

BULK TRUCK

# DRIVER

HANDLING 300 ~~7.3~~ @ 2.48 \$ 744.00

MILEAGE 705 ~~7/m~~ @ 2.60 \$ 1,833.00

TOTAL \$ 2,577.00

**REMARKS:**

See Cementing Job Log

Cement to Surface

**SERVICE**

DEPTH OF JOB 244'

PUMP TRUCK CHARGE \$1,512.25

EXTRA FOOTAGE @

MILEAGE Heavy 50m @ 7.7 \$ 385.00

MANIFOLD Light 50m @ 4.4 \$ 220.00

TOTAL \$ 2,117.25

CHARGE TO: O'Brien Resources

STREET

CITY STATE ZIP

**PLUG & FLOAT EQUIPMENT**

@

@

@

@

@

TOTAL

To: Allied Oil & Gas 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.

SALES TAX (If Any)

TOTAL CHARGES \$10,737.66

DISCOUNT \$2,468.41 IF PAID IN 30 DAYS

Net 8053.25

PRINTED NAME

SIGNATURE [Signature]



266109

TICKET NUMBER 43085  
 LOCATION Oakley KS  
 FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-21-14	5950	Sharp Seed 2 #2	2	175	30w	Lea Co
CUSTOMER O'Brien Resources			Holly ks North to rd 240 1E S into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			4507118	Jordan L		
STATE			397	Michael R		
ZIP CODE			5307129	Cody R		

JOB TYPE 2 Stage HOLE SIZE 7 7/8 HOLE DEPTH 4642 CASING SIZE & WEIGHT 4 1/2" 10.5 #  
 CASING DEPTH 4637.06 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Dvtol @ 2237.20'  
 SLURRY WEIGHT 14.7/11.5 SLURRY VOL 1.42/1.9 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 21.15  
 DISPLACEMENT 74/36 DISPLACEMENT PSI 800/20 MIX PSI 1400/1500 RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on Maverick drilling Rig #107. Float equipment centralizers on Snts 1, 2, 4, 6, 8, 10, 13, 16, 20, 55 Baskets on Snts # 5, 21, 56. Dvtol on tool at 30ft. Snt @ 2237.20'. Run casing to bottom circulate casing 1 1/2 hrs. Pump mud flush 20 bbls HCL water mix 185 SWS OWC with 5" Kolsal shut down clear pump lines release plug displace 40 bbls water 34 bbls water with poz silt plug landed & held. Pumped casing start open tool @ 260 psi. Circulate casing 4 1/2 hrs. Pump mud flush mix 370 SWS down casing 60/40 88 gal 4" flo seal shut down. Cleared pump lines released plug displace 34 bbls water with 70 psi silt plug landed & held @ 1400 psi tool d. 2 shut. Cement did circulate 30 bbls to pit.  
Mix 30 3us BH Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
540/C	1	PUMP CHARGE	375.00	375.00
5406	35	MILEAGE	5.25	183.75
5407A	26.9 Tons	Ten Mitasee delivery	1.75	1586.55
1107	100 #	Flo seal	2.97	297.00
1110A	925 #	Kolsal	156	518.00
1118B	2752 #	Bentonite gel	1.27	748.04
1126	185 SWS	OWC cement	23.70	4384.50
1131	400 SWS	60/40 poz cement	15.86	6344.00
1142A	2 gal	HCL	41.10	82.20
1144G	1000 gal	Mud flush	1.00	1000.00
4103	3	4 1/2" Baskets	275.00	825.00
4129	10	4 1/2" Centralizers	48.50	485.00
4161	1	4 1/2" Float Shoe AFU	359.25	359.25
4270A	1	4 1/2" Dvtol	4200.00	4200.00
4314	40	4 1/2" Reciprocating scratchers	82.00	3280.00
4453	1	4 1/2" Latchdam plug	290.00	290.00
		Subtotal		27753.29
		loss 109 d is count 27753.29		24977.96
		SALES TAX		1417.72
		ESTIMATED TOTAL		26495.68

Revin 3737

AUTHORIZATION Hall Bullock TITLE Manager DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

Sharp Seed 2 #2

Job Ticket: 55697

DST#: 1

ATTN: Kurt Talbott

Test Start: 2014.02.12 @ 07:16:00

## GENERAL INFORMATION:

Formation: **LKC - A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:06:00

Time Test Ended: 15:53:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3925.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 2857.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: **8522** Outside

Press@RunDepth: 62.87 psig @ 3926.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.12

End Date:

2014.02.12

Last Calib.:

2014.02.12

Start Time: 07:16:05

End Time:

15:53:15

Time On Btm:

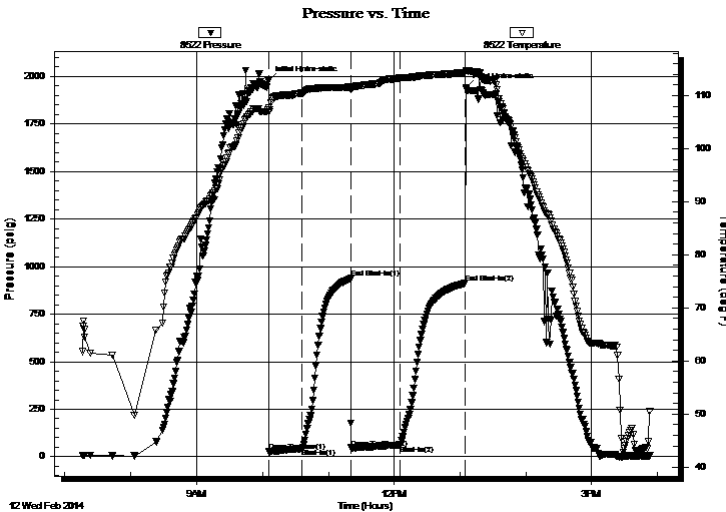
2014.02.12 @ 10:05:45

Time Off Btm:

2014.02.12 @ 13:05:30

TEST COMMENT: IF: 7" blow.  
IS: No return.  
FF: 8" blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.73	107.72	Initial Hydro-static
1	27.28	106.97	Open To Flow (1)
31	43.84	110.44	Shut-In(1)
75	937.91	111.59	End Shut-In(1)
76	46.72	111.34	Open To Flow (2)
120	62.87	113.32	Shut-In(2)
179	912.64	114.36	End Shut-In(2)
180	1941.78	114.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	ocm 40o 60m	0.63
45.00	oil 100o	0.63

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

O'Brien Resources, LLC

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seed 2 #2**

Job Ticket: 55697

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2014.02.12 @ 07:16:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	ocm 40o 60m	0.631
45.00	oil 100o	0.631

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

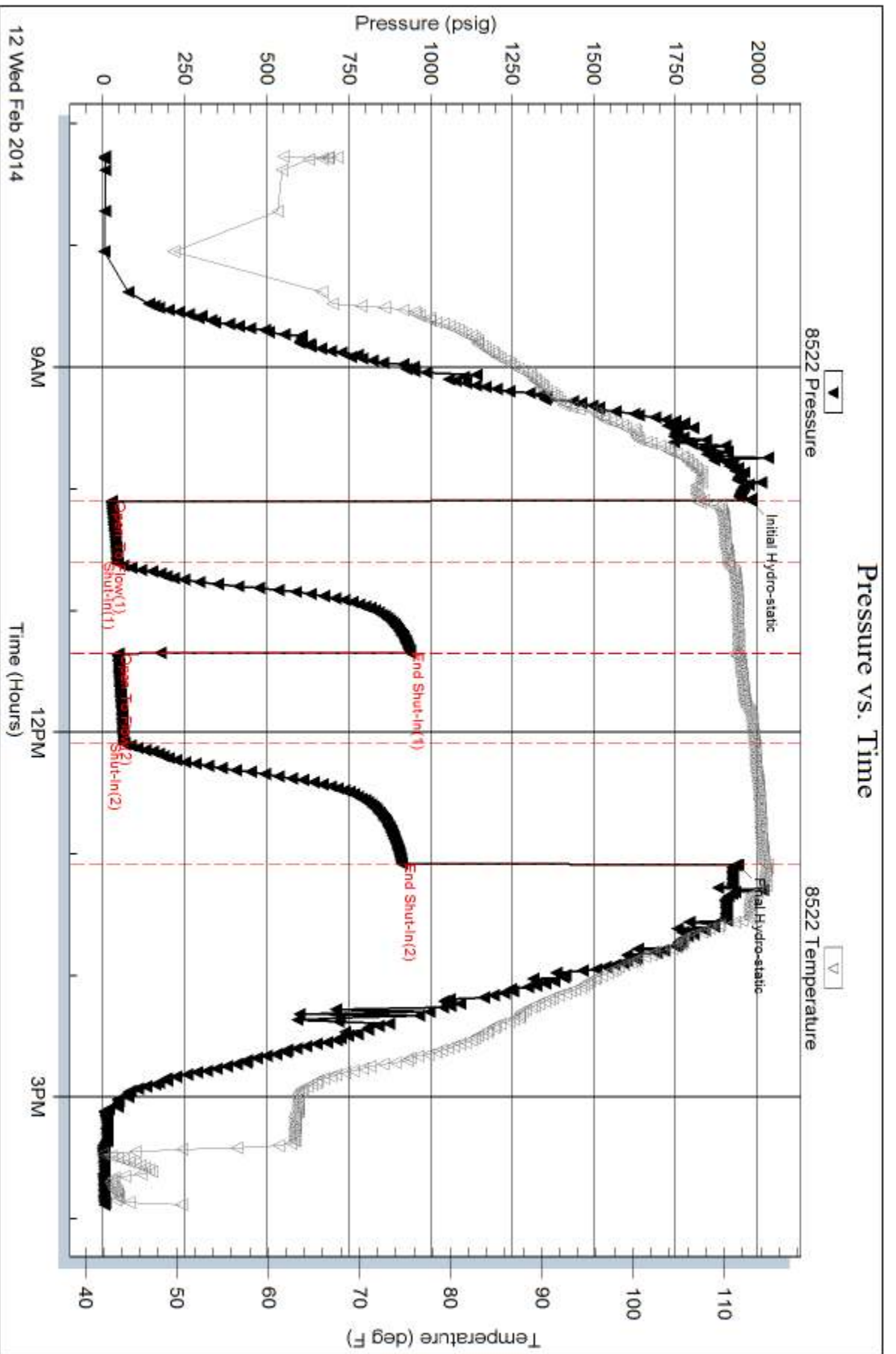
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 55698

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2014.02.13 @ 14:48:00

## GENERAL INFORMATION:

Formation: **140 - 160**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:46:15  
 Time Test Ended: 22:16:15  
 Interval: **4092.00 ft (KB) To 4175.00 ft (KB) (TVD)**  
 Total Depth: 4175.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2857.00 ft (KB)  
 2850.00 ft (CF)  
 KB to GR/CF: 7.00 ft

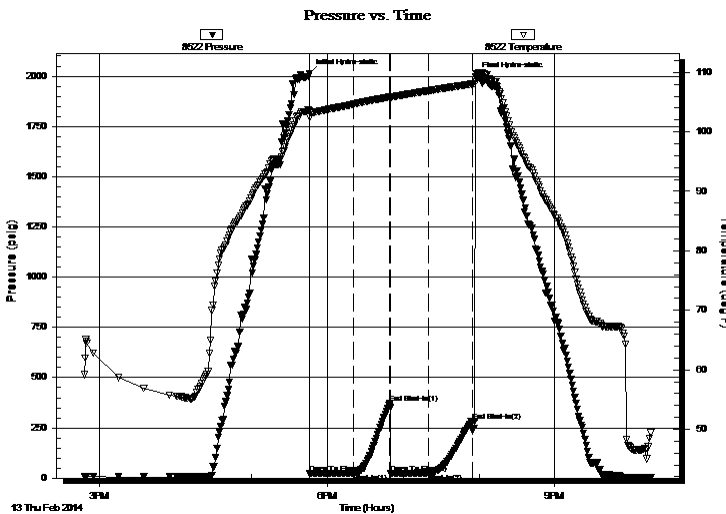
## Serial #: 8522

Outside

Press @ RunDepth: 25.63 psig @ 4093.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.13 End Date: 2014.02.13 Last Calib.: 2014.02.13  
 Start Time: 14:48:05 End Time: 22:16:14 Time On Btm: 2014.02.13 @ 17:46:00  
 Time Off Btm: 2014.02.13 @ 19:57:15

TEST COMMENT: IF: Surface blow .  
 IS: No return.  
 FF: No blow .  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2013.82	103.56	Initial Hydro-static
1	23.77	102.44	Open To Flow (1)
35	25.01	104.66	Shut-In(1)
64	371.49	105.86	End Shut-In(1)
64	24.40	105.79	Open To Flow (2)
95	25.63	106.92	Shut-In(2)
129	281.73	108.02	End Shut-In(2)
132	1995.27	108.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100m (oil spots)	0.14

## 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

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 55698

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2014.02.13 @ 14:48:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	mud 100m (oil spots)	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

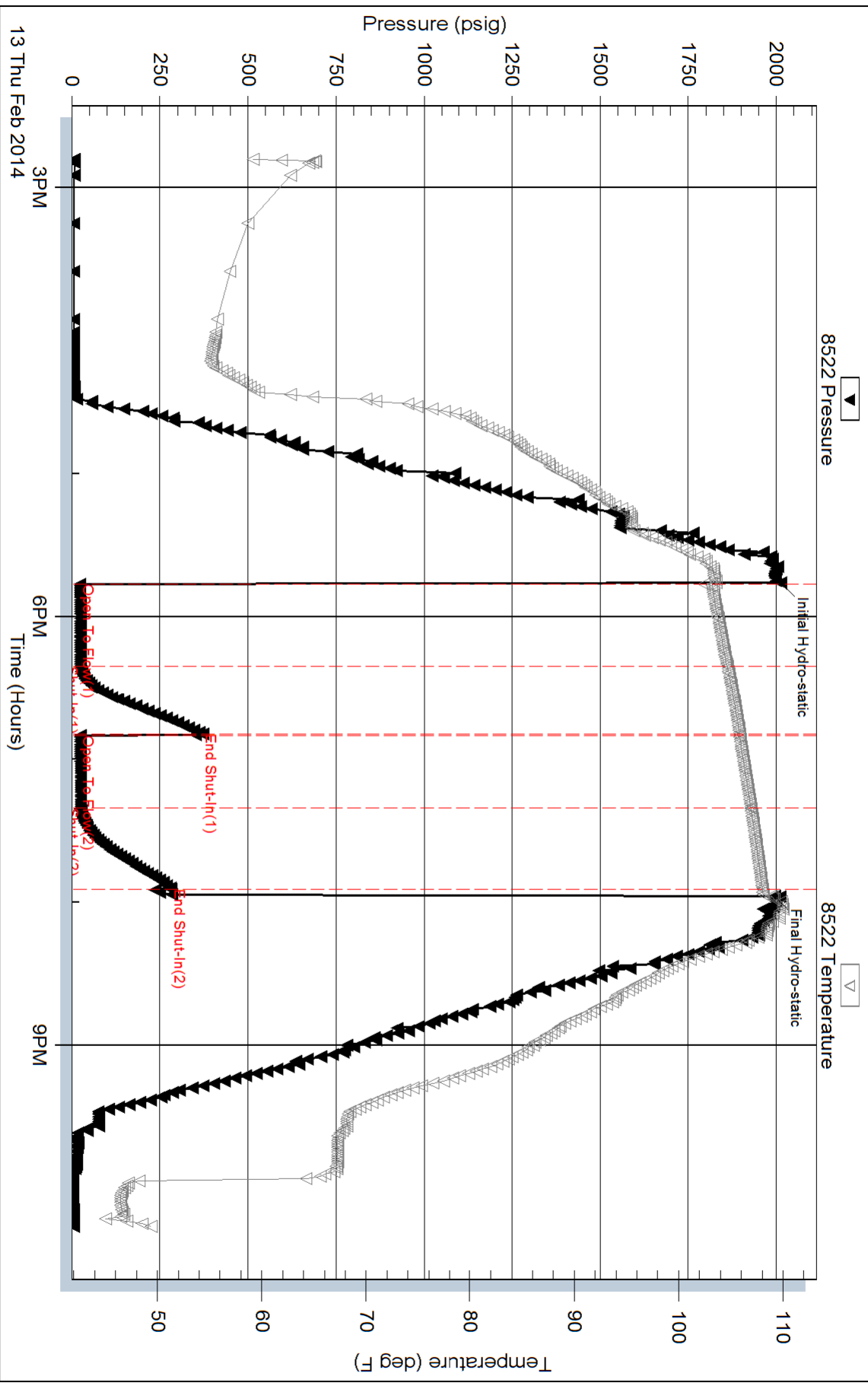
Serial #: 8522

Outside O'Brien Resources, LLC

Sharp Seep 2 #2

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC  
 PO Box 6149  
 Shreveport, LA 71136  
 ATTN: Kurt Talbott

**2 17s 30w Lane, Ks**  
**Sharp Seep 2 #2**  
 Job Ticket: 55699 **DST#: 3**  
 Test Start: 2014.02.14 @ 16:54:00

## GENERAL INFORMATION:

Formation: **220**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:00:45  
 Time Test Ended: 01:53:00  
 Interval: **4248.00 ft (KB) To 4270.00 ft (KB) (TVD)**  
 Total Depth: 4270.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2857.00 ft (KB)  
 2850.00 ft (CF)  
 KB to GR/CF: 7.00 ft

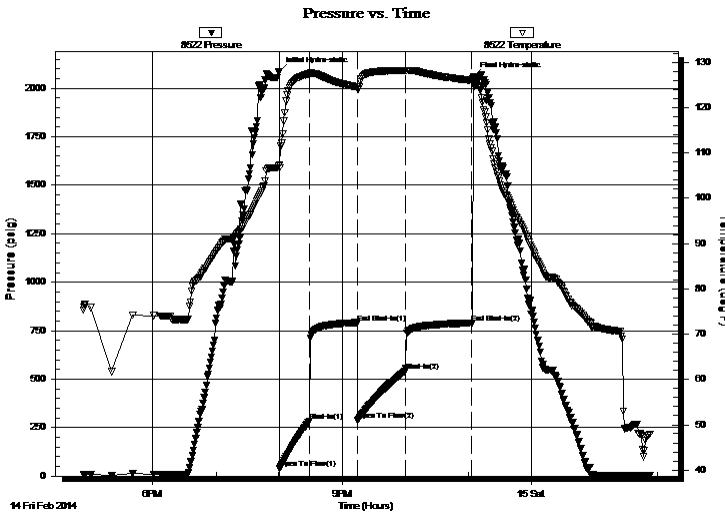
## Serial #: 8522

Outside

Press @ Run Depth: 541.82 psig @ 4249.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.14 End Date: 2014.02.15 Last Calib.: 2014.02.15  
 Start Time: 16:54:05 End Time: 01:53:00 Time On Btm: 2014.02.14 @ 20:00:30  
 Time Off Btm: 2014.02.14 @ 23:05:00

TEST COMMENT: IF: BOB @ 5 min.  
 IS: No return.  
 FF: BOB @ 7 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.22	107.38	Initial Hydro-static
1	39.52	106.69	Open To Flow (1)
29	282.19	127.47	Shut-In(1)
75	789.25	124.54	End Shut-In(1)
75	287.48	124.29	Open To Flow (2)
120	541.82	128.19	Shut-In(2)
183	789.69	126.10	End Shut-In(2)
185	2059.78	125.91	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
1070.00	Smcw 3m97w (oil spots in tool)	15.01

	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

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 55699

**DST#: 3**

ATTN: Kurt Talbott

Test Start: 2014.02.14 @ 16:54:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

65000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1070.00	Smcw 3m 97w (oil spots in tool)	15.009

Total Length: 1070.00 ft      Total Volume: 15.009 bbl

Num Fluid Samples: 0

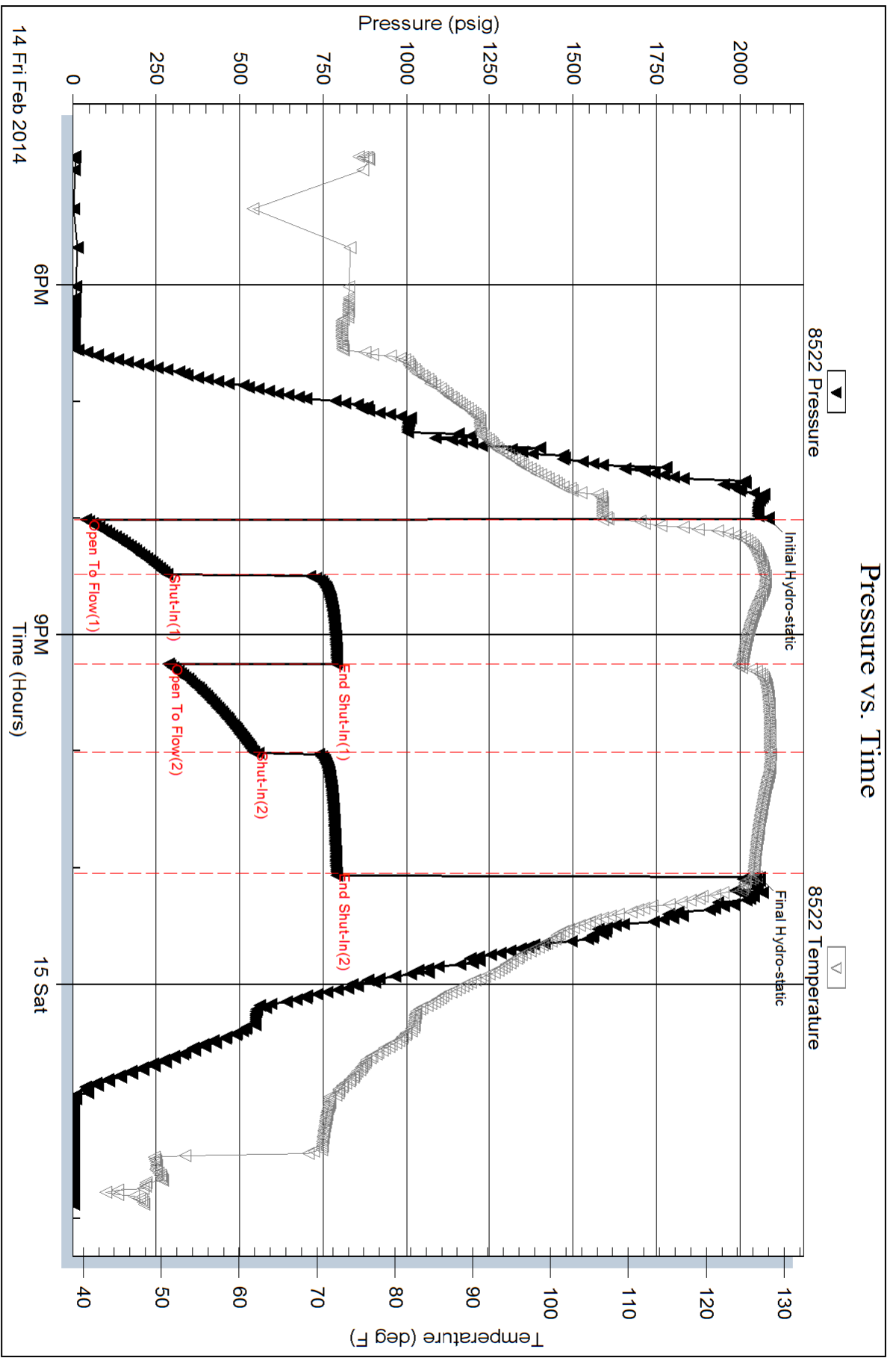
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .189 @ 43f = 65000ppm







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 55700

**DST#: 4**

ATTN: Kurt Talbott

Test Start: 2014.02.15 @ 17:28:00

## GENERAL INFORMATION:

Formation: **Altamont - Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:45

Time Test Ended: 03:55:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4295.00 ft (KB) To 4390.00 ft (KB) (TVD)**

Total Depth: 4390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2857.00 ft (KB)

2850.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8522 Outside**

Press @ Run Depth: 185.57 psig @ 4296.00 ft (KB)

Start Date: 2014.02.15

End Date:

2014.02.16

Start Time: 17:28:05

End Time:

03:55:30

Capacity: 8000.00 psig

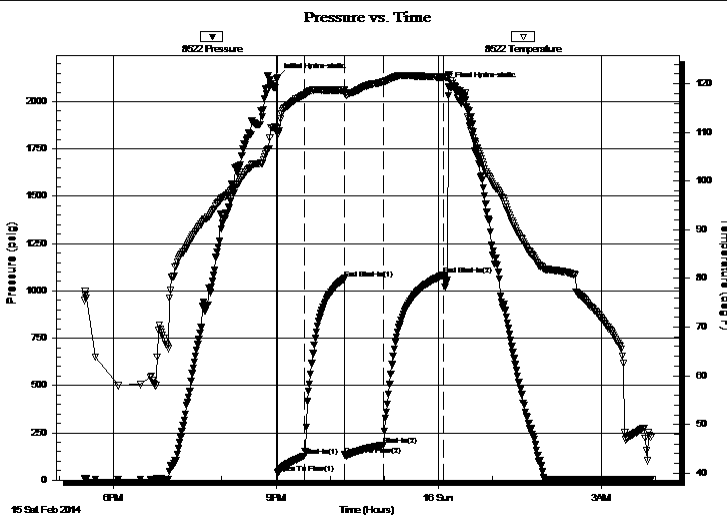
Last Calib.: 2014.02.16

Time On Btm: 2014.02.15 @ 21:01:30

Time Off Btm: 2014.02.16 @ 00:11:00

TEST COMMENT: IF: BOB @ 4 min.  
IS: 2" return.  
FF: BOB @ 7 min.  
FS: 4" return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.05	110.83	Initial Hydro-static
1	38.67	109.63	Open To Flow (1)
30	127.21	117.69	Shut-In(1)
75	1065.32	118.71	End Shut-In(1)
75	133.70	118.24	Open To Flow (2)
117	185.57	120.31	Shut-In(2)
184	1084.84	121.35	End Shut-In(2)
190	2080.53	121.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 20g 30o 50m	0.84
340.00	gmco 40g 20m 40o	4.77
0.00	720' GIP	0.00

## 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

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 55700

**DST#: 4**

ATTN: Kurt Talbott

Test Start: 2014.02.15 @ 17:28:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gocm 20g 30o 50m	0.842
340.00	gmco 40g 20m 40o	4.769
0.00	720' GIP	0.000

Total Length: 400.00 ft      Total Volume: 5.611 bbl

Num Fluid Samples: 0

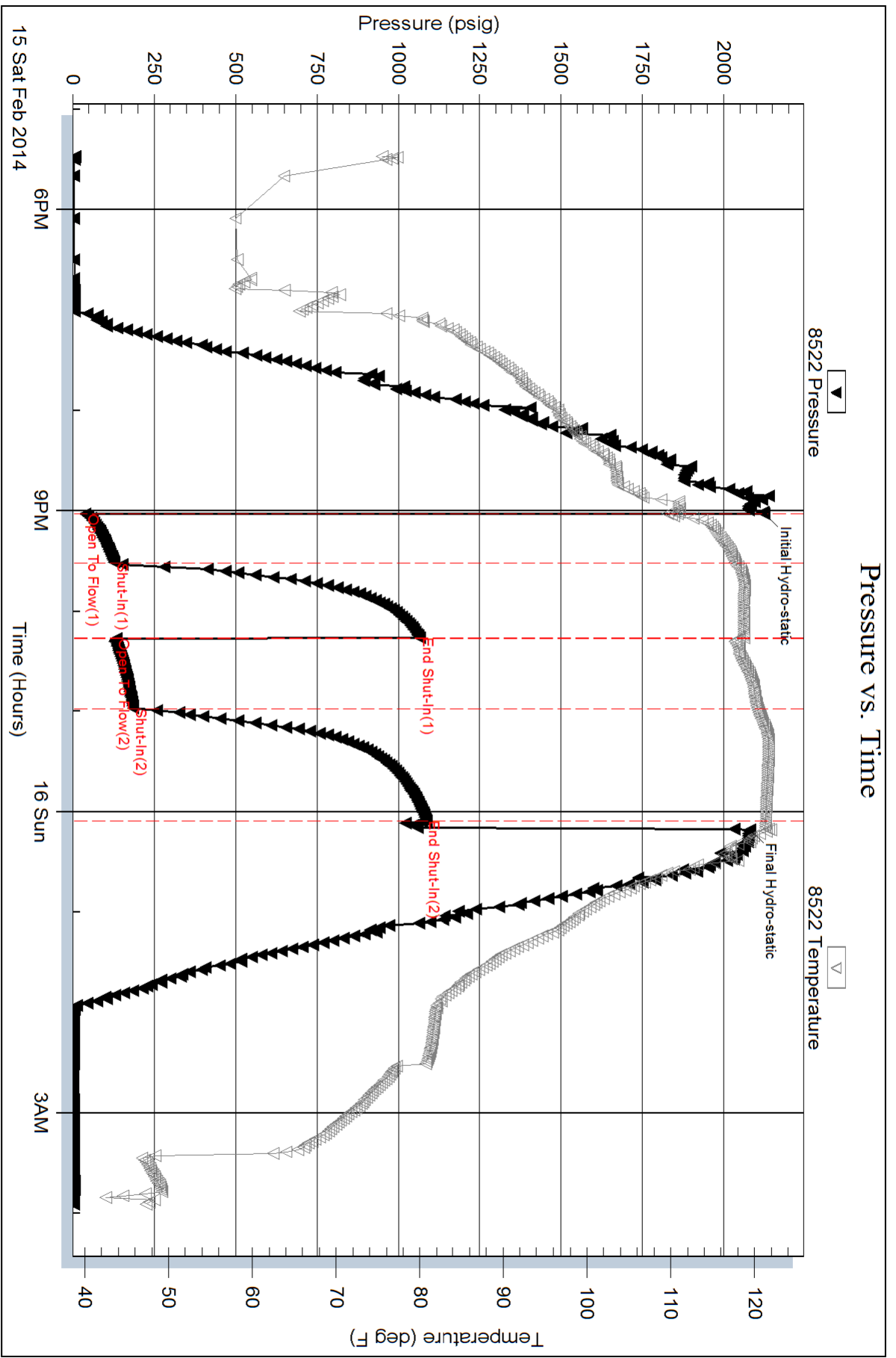
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 56376

**DST#: 5**

ATTN: Kurt Talbott

Test Start: 2014.02.16 @ 20:33:00

## GENERAL INFORMATION:

Formation: **Pawnee - Myric Stati**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:45

Time Test Ended: 06:12:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4390.00 ft (KB) To 4435.00 ft (KB) (TVD)**

Total Depth: 4435.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2857.00 ft (KB)

2850.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8522 Outside**

Press @ Run Depth: 130.32 psig @ 4391.00 ft (KB)

Start Date: 2014.02.16

End Date: 2014.02.17

Start Time: 20:33:05

End Time: 06:12:00

Capacity: 8000.00 psig

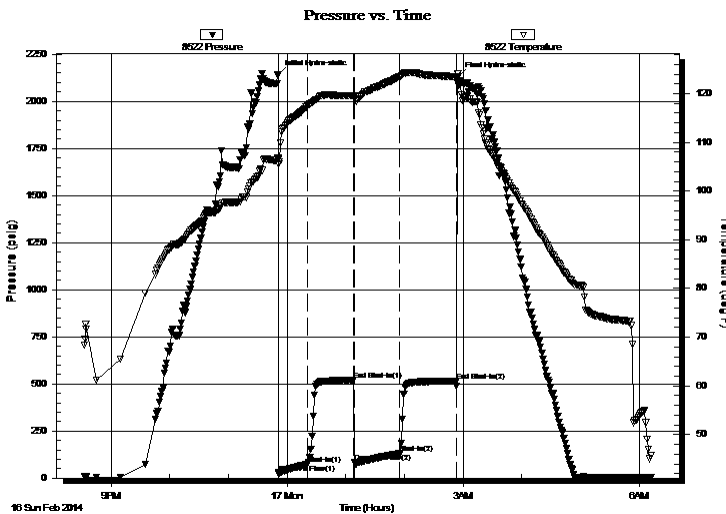
Last Calib.: 2014.02.17

Time On Btm: 2014.02.16 @ 23:51:30

Time Off Btm: 2014.02.17 @ 02:55:00

**TEST COMMENT:** IF: BOB @ 4 min.  
IS: No return.  
FF: BOB @ 2 min.  
FS: 2" return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.50	106.55	Initial Hydro-static
1	24.28	105.56	Open To Flow (1)
30	73.51	117.57	Shut-In(1)
77	519.21	119.60	End Shut-In(1)
78	82.15	119.37	Open To Flow (2)
124	130.32	123.48	Shut-In(2)
182	515.60	123.42	End Shut-In(2)
184	2130.02	124.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	gmco 70g 20o 10m	2.67
90.00	gmco 40g 50o 10m	1.26
0.00	1920' GIP	0.00

## 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

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 56376

**DST#: 5**

ATTN: Kurt Talbott

Test Start: 2014.02.16 @ 20:33:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
190.00	gmco 70g 20o 10m	2.665
90.00	gmco 40g 50o 10m	1.262
0.00	1920' GIP	0.000

Total Length: 280.00 ft      Total Volume: 3.927 bbl

Num Fluid Samples: 0

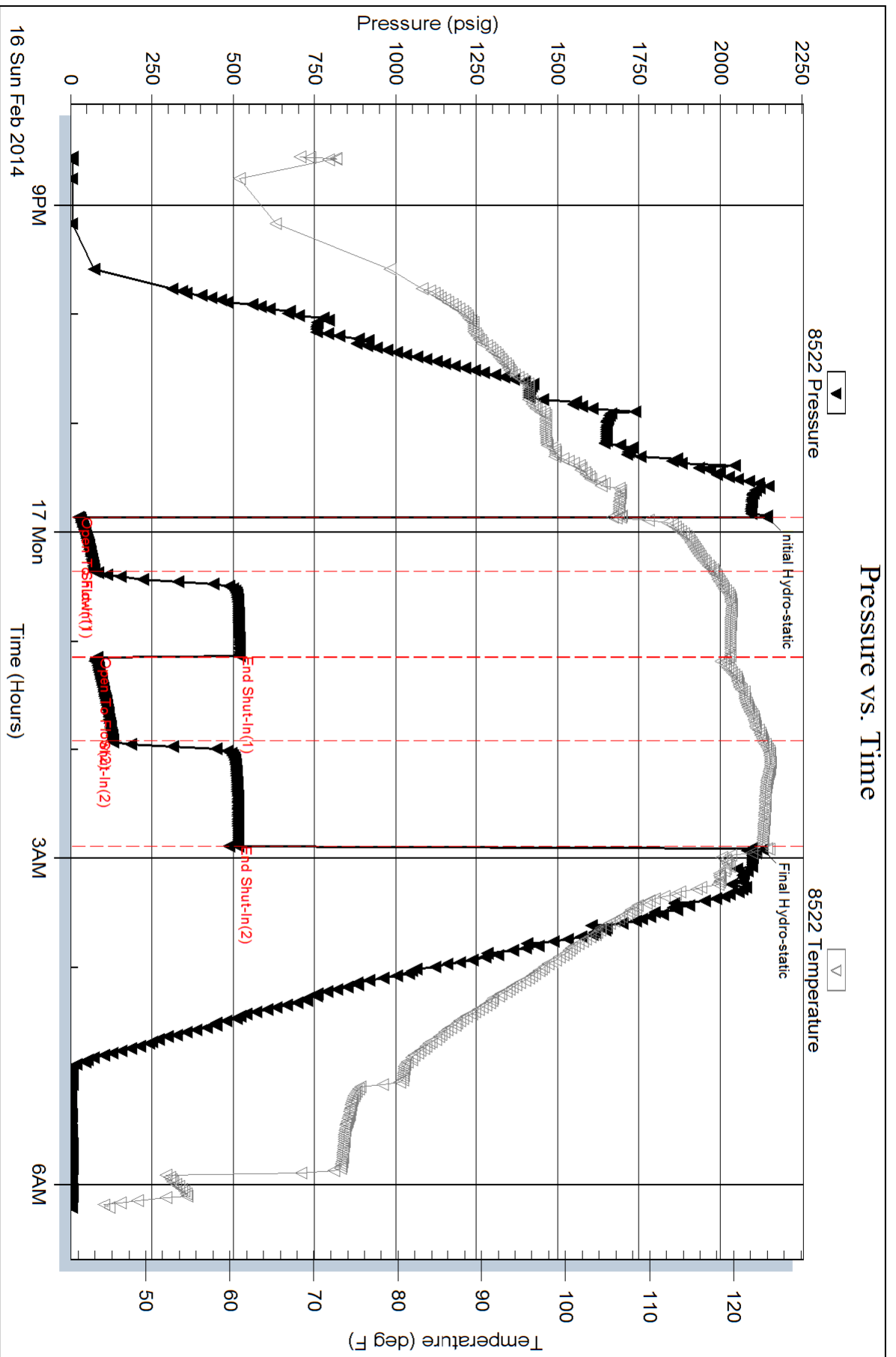
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

ATTN: Kurt Talbott

Job Ticket: 56377

**DST#: 6**

Test Start: 2014.02.17 @ 16:58:00

## GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:11:30

Time Test Ended: 01:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4444.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Reference Elevations: 2857.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

2850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8522 Outside**

Press @ Run Depth: 56.93 psig @ 4445.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.17

End Date:

2014.02.18

Last Calib.: 2014.02.18

Start Time: 16:58:05

End Time:

01:19:59

Time On Btm: 2014.02.17 @ 19:11:00

Time Off Btm: 2014.02.17 @ 22:13:15

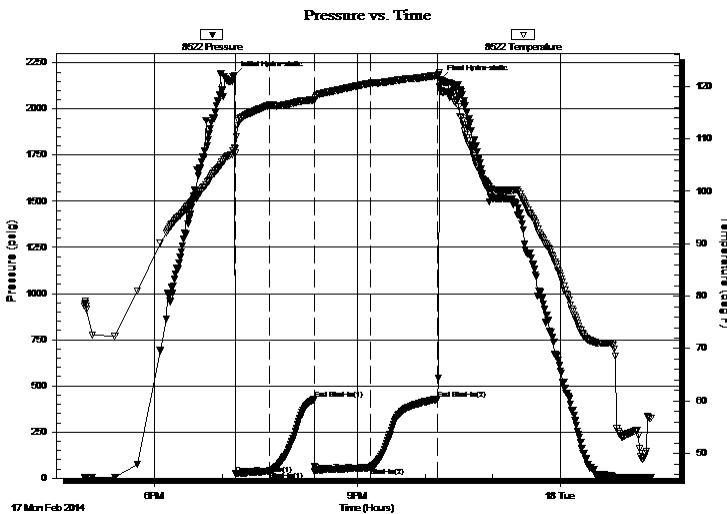
TEST COMMENT: IF: BOB @ 14 min.

IS: No return.

FF: BOB @ 4 min.

FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2181.19	108.34	Initial Hydro-static
1	22.89	107.28	Open To Flow (1)
32	37.33	116.45	Shut-In(1)
71	427.90	117.47	End Shut-In(1)
71	38.45	117.50	Open To Flow (2)
121	56.93	120.58	Shut-In(2)
180	427.04	122.04	End Shut-In(2)
183	2157.90	120.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	gocm 20g 25o 45m	1.26
0.00	630' GIP	0.00

\* 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

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 56377

**DST#: 6**

ATTN: Kurt Talbott

Test Start: 2014.02.17 @ 16:58:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	gocm 20g 25o 45m	1.262
0.00	630' GIP	0.000

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

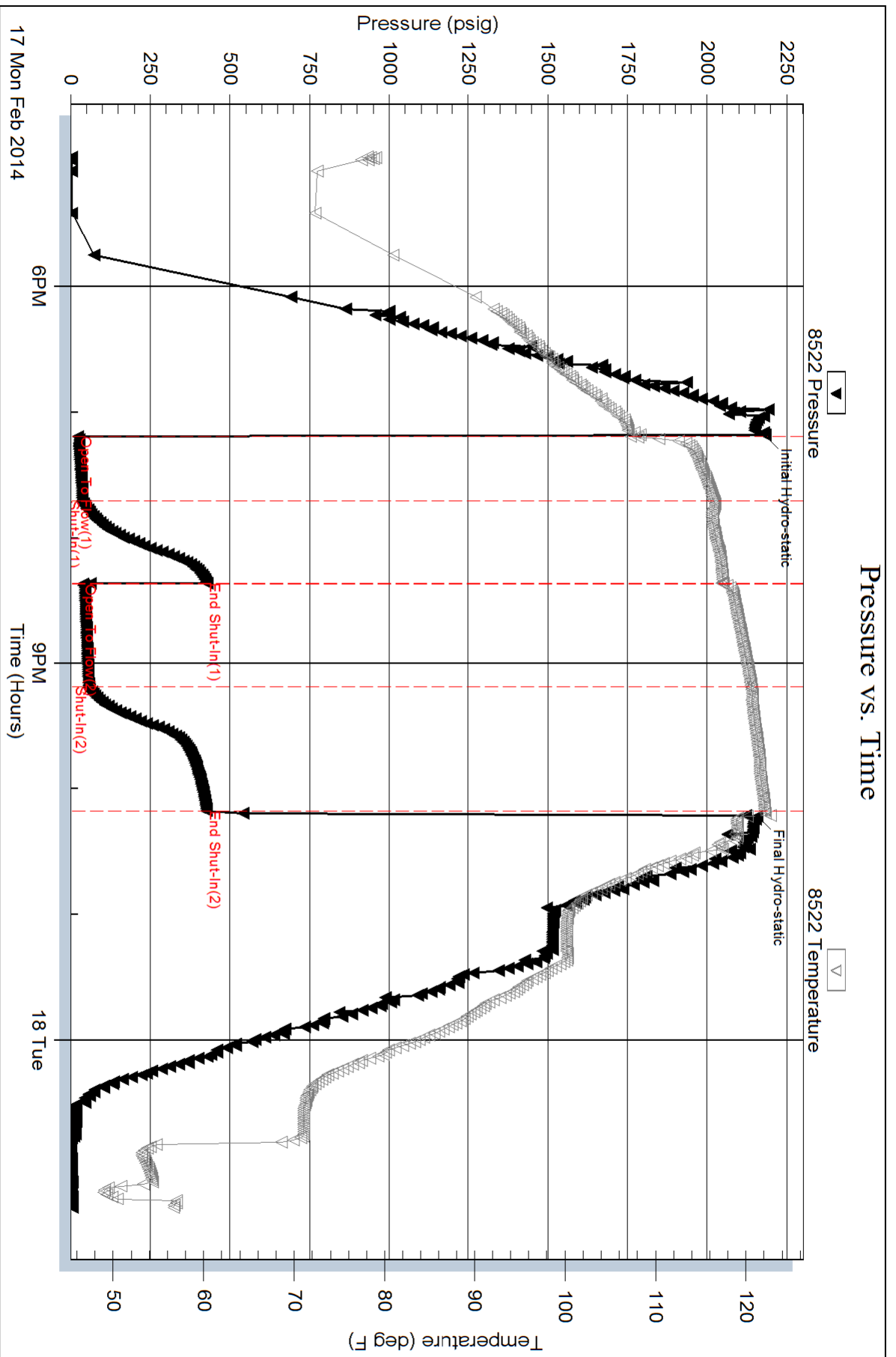
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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TESTING, INC.**

# DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 56378

**DST#: 7**

ATTN: Kurt Talbott

Test Start: 2014.02.18 @ 12:22:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:00

Time Test Ended: 21:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4496.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Reference Elevations: 2857.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

2850.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8522 Outside**

Press @ Run Depth: 34.02 psig @ 4497.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.18

End Date: 2014.02.18

Last Calib.: 2014.02.18

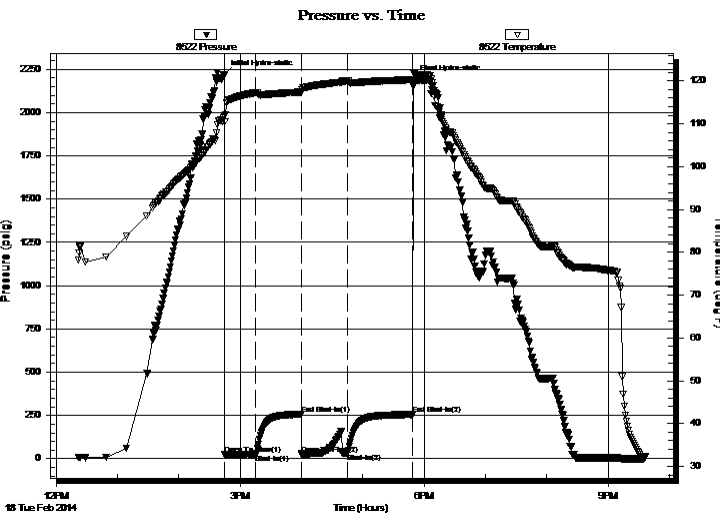
Start Time: 12:22:05

End Time: 21:36:30

Time On Btm: 2014.02.18 @ 14:44:45

Time Off Btm: 2014.02.18 @ 17:50:00

**TEST COMMENT:** IF: BOB @ 7 min.  
IS: No return.  
FF: BOB @ 10 sec.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.24	111.70	Initial Hydro-static
1	26.05	110.53	Open To Flow (1)
31	26.98	117.27	Shut-In(1)
75	257.61	117.39	End Shut-In(1)
76	24.50	117.28	Open To Flow (2)
120	34.02	120.06	Shut-In(2)
185	254.73	120.28	End Shut-In(2)
186	2192.31	122.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	ocm 30o 70m	0.63
0.00	3200' GIP	0.00

\* 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

2 17s 30w Lane, Ks

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 56378

**DST#: 7**

ATTN: Kurt Talbott

Test Start: 2014.02.18 @ 12:22:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:45:00

Time Test Ended: 21:36:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4496.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Total Depth: 4530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2857.00 ft (KB)

2850.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 8678**

**Inside**

Press @ Run Depth: psig @ 4497.00 ft (KB)

Start Date: 2014.02.18

End Date:

2014.02.18

Capacity: 8000.00 psig

Last Calib.:

2014.02.18

Start Time: 12:22:05

End Time:

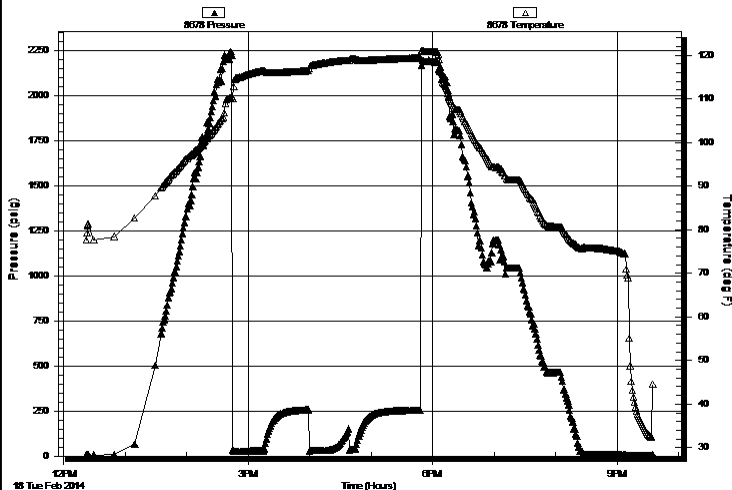
21:35:00

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB @ 7 min.  
IS: No return.  
FF: BOB @ 10 sec.  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	ocm 30o 70m	0.63
0.00	3200' GIP	0.00

## 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

**2 17s 30w Lane, Ks**

PO Box 6149  
Shreveport, LA 71136

**Sharp Seep 2 #2**

Job Ticket: 56378

**DST#: 7**

ATTN: Kurt Talbott

Test Start: 2014.02.18 @ 12:22:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl
45.00	ocm 30o 70m	0.631
0.00	3200' GIP	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

