



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1185544
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: _____

1185544

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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	O'Brien Resources, LLC
Well Name	Colt 45 FBC 2 4
Doc ID	1185544

All Electric Logs Run

Composite
Density Neutron Micro
Microlog
Induction



CONSOLIDATED
Oil Well Services, LLC

265240

TICKET NUMBER 38127
LOCATION OAKLEY KS.
FOREMAN DAMON M. WALT DINKEL

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
1-4-14	5950	FBC 2-4	2	17	30 W	LANE
CUSTOMER OBRIEN RESOURCES			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. BOX 6149			399	TIM W.		
CITY SHREVEPORT			530 T-129	MIKE R.		
STATE LA.			460	STEVEN		
ZIP CODE 71136						
JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT			
2 STAGE	7 1/4	4635	4 1/2 #10.5			
CASING DEPTH	DRILL PIPE	TUBING	OTHER			
4637.55			D.V. 2232.28			
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT IN CASING			
14.7/11.2			SHOE 21.05			
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE			
73.40/35.49			6 BPM			

REMARKS: safety meeting rig up on MALARD DRILLING RIG RAN FLOAT EQUIP SCRATCHERS 4 PER #1, 2, 3, 4, 5, 6, 7, 8, 9, 10 CENT. ON #1, 2, 4, 6, 8, 10, 12, 14, 20, 55 BASKETS ON #3, 21, 56 HALFWAY ON JOINTS DV ON #56 @ 2232.28 RAN REST OF CASING LIRC ON BOTTOM FOR 1 HR MIXED 185 SKS #5 KOLSEAL SHUT DOWN WASHED PUMP AND LINES DROPPED PLUG PUMPED 40 BBL OF H2O AND 33 BBL OF MUD LIFT WAS #800 LANDED PLUG @ #1500 SHUT DOWN RELEASED PRESSURE PLUG HELD. RIGGED UP TO CIRCULATE 3 HRS. RIGGED UP MIXED 425 SKS 60/40 870 GEL 3/4 FLOSEAL SHUT DOWN WASHED PUMP LINES RELEASED PLUG WHEN PUMPED 35 3/4 BBL OF H2O LIFT WAS #600 LANDED @ #1800 RELEASED PRESSURE PLUG HELD WASHED UP RIGGED DOWN RH 30 SKS MH 20 SKS CEMENT DID CIRC.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00
5406	35	MILEAGE	5.25	183.75
5407A	29.13	TON MILEAGE DELIVERY	1.75	1784.30
1126	185 SKS	OWC	23.78	4384.50
1131	475 SKS	60/40 PDZ	15.86	7533.50
1118B	3268 #	BETANITE	.27	882.36
1110A	870 #	KOLSEAL	.56	487.20
1107	119 #	FLOSEAL	2.97	353.43
1144G	1000 GAL	MUD FLUSH	1.00	1000.00
1142A	2 GAL	KCL	41.10	82.20
4161	1	4 1/2 AFU FLOAT SHOE ASSY. (W)	359.25	359.25
4453	1	4 1/2 LATCH DOWN (W)	457.00	457.00
4283	1	4 1/2 DV TOOL (W) #49504234-10	4200.00	4200.00
4129	10	4 1/2 CENTRALIZERS (W)	48.50	485.00
4103	3	4 1/2 BASKETS (W)	275.00	825.00
4314	40	RECIPROCATING SCRATCHERS (W)	52.00	2080.00
1111	400 #	SALT	N/C	N/C
SUBTOTAL #28272.49 LESS 10% #2827.25				
SUBTOTAL #25445.24			7.15	SALES TAX
				ESTIMATED TOTAL
				26933.63

THANK YOU DAMON, WALT & CREW

AUTHORIZATION [Signature] TITLE completed DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on this 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.

ALLIED OIL & GAS SERVICES, LLC 061828

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Grosshandliff

DATE <u>12-19-13</u>	SEC. <u>2</u>	TWP. <u>17s</u>	RANGE <u>30w</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 am</u>	JOB FINISH <u>9:00 am</u>
LEASE <u>FAC2</u>	WELL # <u>4</u>	LOCATION <u>Hegley 1E 1N 12.1W 30.00S</u>			COUNTY <u>Love</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Mallory Drilling #1</u>	OWNER
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12.1/4</u> T.D.	CEMENT
CASING SIZE <u>5 5/8</u> DEPTH <u>245</u>	AMOUNT ORDERED <u>160 SKS Class A</u>
TUBING SIZE DEPTH	<u>3 hrs 2-1/2 hrs!</u>
DRILL PIPE <u>4 1/2</u> DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>160</u> @ <u>17.90</u> <u>2864.00</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>150+</u>	GEL @ <u>23.40</u> <u>70.20</u>
PERFS.	CHLORIDE <u>9.45</u> @ <u>30.00</u> <u>360.50</u>
DISPLACEMENT <u>14,99 bbls Freshwater</u>	ASC @
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Dustin Chambers</u>	
# <u>395</u> HELPER <u>Mike Seathorn</u>	
BULK TRUCK	
# <u>57112</u> DRIVER <u>Kevin Worsham</u>	
BULK TRUCK	
# DRIVER	
	HANDLING <u>175.99 x 2.45</u> @ <u>443.89</u>
	MILEAGE <u>7.59 x 55 x 2.00</u> @ <u>1128.27</u>
	TOTAL <u>4367.16</u>

REMARKS:

Break circulation with Pig, mud
Run 5 bbls Freshwater ahead
bulk 160 SKS cement
Displace 14,99 bbls Freshwater
4 bbls in
center production
plug down
Andy Robinson

CHARGE TO: O'Brien Resources
STREET _____
CITY _____ STATE _____ ZIP _____

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.

PRINTED NAME X L A V O D U R B A N
SIGNATURE X L A V O D U R B A N

SERVICE

DEPTH OF JOB <u>245</u>	
PUMP TRUCK CHARGE <u>1512.25</u>	
EXTRA FOOTAGE @	
MILEAGE @	
MANIFOLD @	
HVM -55 @ <u>7.70</u> <u>473.90</u>	
LVM -55 @ <u>4.40</u> <u>242.00</u>	
	TOTAL <u>2177.75</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
		TOTAL _____

SALES TAX (If Any) _____
TOTAL CHARGES 7044.91
DISCOUNT 20% 21409.98 IF PAID IN 30 DAYS
\$ 5635.93

ALLIED OIL & GAS SERVICES, LLC 061829

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Green Bay, MS

DATE <u>12-20-13</u>	SEC <u>2</u>	TWP <u>17S</u>	RANGE <u>30W</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00 AM</u>	JOB FINISH <u>12:00 AM</u>
LEASE # <u>ABC 2</u>		WELL # <u>4</u>		LOCATION <u>Healy 1E 1N 12W S100</u>		COUNTY <u>Lane</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>Mallard Drilling</u>	OWNER
TYPE OF JOB <u>lin. 5 7/8 surface</u>	
HOLE SIZE <u>12 1/4</u> T.D.	CEMENT
CASING SIZE <u>4 7/8</u> DEPTH	AMOUNT ORDERED <u>130 SKS Class A</u>
TUBING SIZE DEPTH	<u>37cc 27921</u>
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>130</u> @ <u>17.90</u> <u>2327.00</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG.	GEL <u>3</u> @ <u>23.40</u> <u>70.20</u>
PERFS.	CHLORIDE <u>360</u> @ <u>80.6</u> <u>292.20</u>
DISPLACEMENT	ASC @

EQUIPMENT

PUMP TRUCK # <u>394</u>	CEMENTER <u>Dustin Chambers</u>
BULK TRUCK # <u>871-112</u>	HELPER <u>MIKE Seaborn</u>
BULK TRUCK #	DRIVER <u>Kevin Woodhouse</u>
BULK TRUCK #	DRIVER

HANDLING <u>162.2</u> @ <u>2.43</u>		<u>402.25</u>
MILEAGE <u>6.44</u> @ <u>55</u> @ <u>2.60</u>		<u>921.34</u>
TOTAL		<u>4013.59</u>

REMARKS:

Cement Did not circulate on surface went to oakley and loaded 130gals class A 37cc 27921 and 57gals of 1in pipe
placed mixed 130gals cement to circulate cement to surface
plug down 12:30 AM
plug down

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		
EXTRA FOOTAGE @		
MILEAGE @		
MANIFOLD @		
<u>HVM ~ 55</u> @	<u>7.70</u>	<u>423.50</u>
TOTAL		<u>423.50</u>

CHARGE TO: D'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 4437.09
 DISCOUNT 207.55 = 857.41 IF PAID IN 30 DAYS

PRINTED NAME Kent Urban
 SIGNATURE [Signature]

\$3549.68



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

Job Ticket: 55619

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.12.28 @ 04:20:00

GENERAL INFORMATION:

Formation: **LKC- A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:21:00

Time Test Ended: 11:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3928.00 ft (KB) To 3976.00 ft (KB) (TVD)**

Reference Elevations: 2853.00 ft (KB)

Total Depth: 3976.00 ft (KB) (TVD)

2848.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8522** Outside

Press @ Run Depth: 28.96 psig @ 3929.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.28

End Date:

2013.12.28

Last Calib.:

2013.12.28

Start Time: 04:20:05

End Time:

11:58:59

Time On Btm:

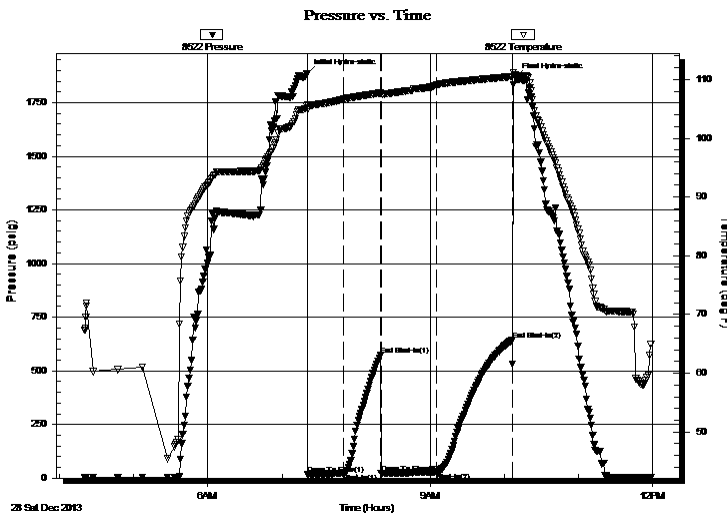
2013.12.28 @ 07:20:45

Time Off Btm:

2013.12.28 @ 10:08:45

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: No blow. Flushed tool, surface blow died.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.39	105.75	Initial Hydro-static
1	18.19	104.94	Open To Flow (1)
30	21.60	106.70	Shut-In(1)
59	571.99	107.70	End Shut-In(1)
60	22.86	107.57	Open To Flow (2)
105	28.96	109.01	Shut-In(2)
166	644.60	110.50	End Shut-In(2)
168	1868.51	110.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	socm 2o 98m	0.15

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

O'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

Job Ticket: 55619

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.12.28 @ 04:20:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	socm 2o 98m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

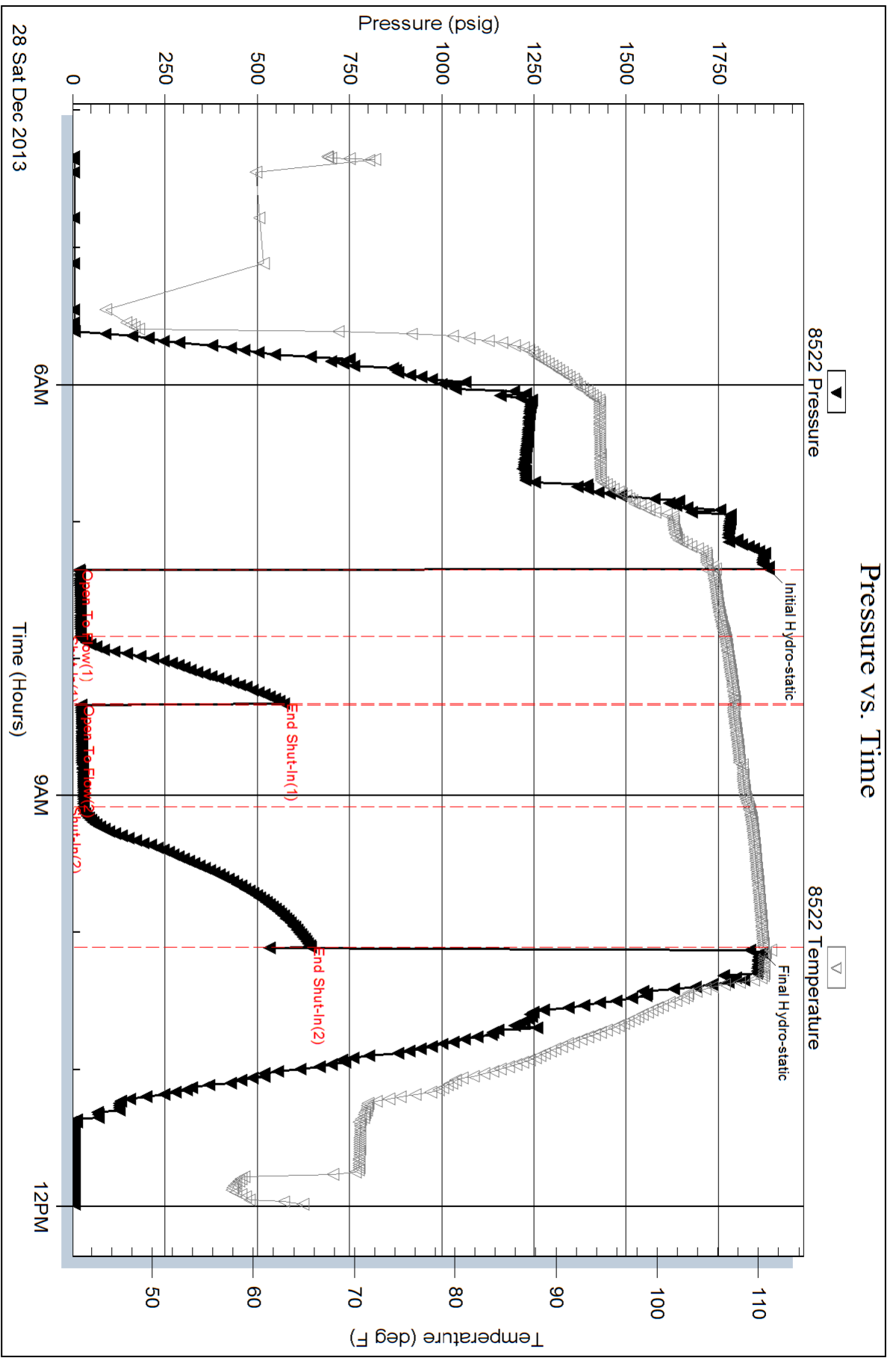
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

O'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

ATTN: Jim Musgrove

Job Ticket: 55625

DST#: 7

Test Start: 2014.01.02 @ 19:31:00

GENERAL INFORMATION:

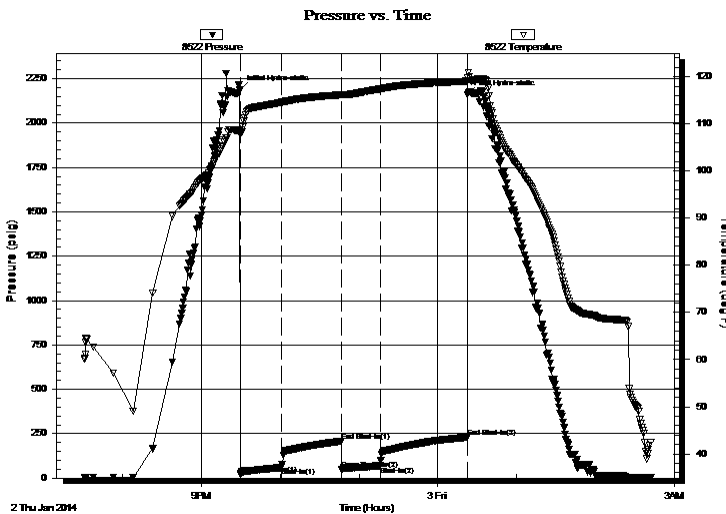
Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:29:45
 Tester: Bradley Walter
 Time Test Ended: 02:42:00
 Unit No: 69
 Interval: **4484.00 ft (KB) To 4530.00 ft (KB) (TVD)**
 Reference Elevations: 2853.00 ft (KB)
 Total Depth: 4530.00 ft (KB) (TVD)
 2848.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 69.17 psig @ 4485.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.02 End Date: 2014.01.03 Last Calib.: 2014.01.03
 Start Time: 19:31:05 End Time: 02:41:59 Time On Btm: 2014.01.02 @ 21:29:30
 Time Off Btm: 2014.01.03 @ 00:22:30

TEST COMMENT: IF: BOB @ 1 min.
 IS: Surface return. Gas to surface.
 FF: BOB 30 sec
 FS: Surface return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.77	108.77	Initial Hydro-static
1	21.83	107.63	Open To Flow (1)
32	59.98	114.55	Shut-In(1)
77	207.95	116.16	End Shut-In(1)
78	50.97	116.08	Open To Flow (2)
107	69.17	117.40	Shut-In(2)
173	229.41	119.04	End Shut-In(2)
173	2159.65	119.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	socm 3o 97m	0.66
0.00	Gas to surface, not gaugable	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'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

Job Ticket: 55625

DST#: 7

ATTN: Jim Musgrove

Test Start: 2014.01.02 @ 19:31:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.30 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	socm 3o 97m	0.664
0.00	Gas to surface, not gaugable	0.000

Total Length: 135.00 ft

Total Volume: 0.664 bbl

Num Fluid Samples: 0

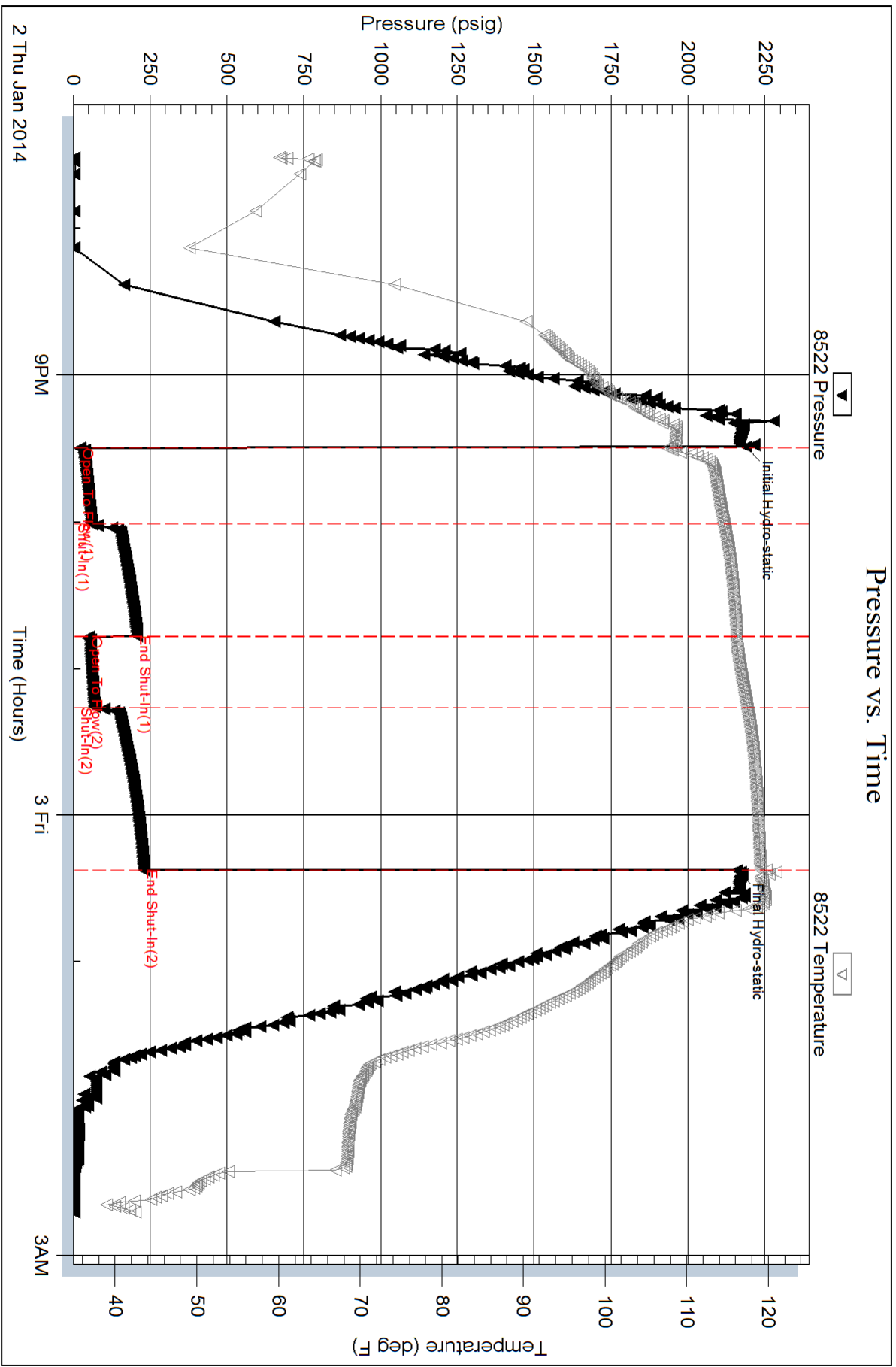
Num Gas Bombs: 0

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

Colt45 FBC2 #4

Job Ticket: 55624

DST#: 6

ATTN: Jim Musgrove

Test Start: 2014.01.01 @ 22:07:00

GENERAL INFORMATION:

Formation: **Pawnee - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:03:45

Time Test Ended: 08:42:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4383.00 ft (KB) To 4488.00 ft (KB) (TVD)

Total Depth: 4488.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2853.00 ft (KB)

2848.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: 707.04 psig @ 4384.00 ft (KB)

Start Date: 2014.01.01

End Date:

2014.01.02

Start Time: 22:07:05

End Time:

08:42:15

Capacity: 8000.00 psig

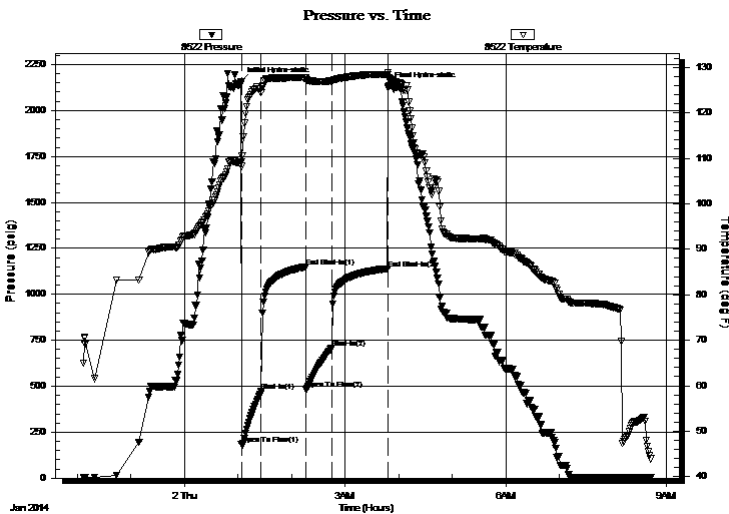
Last Calib.: 2014.01.02

Time On Btm: 2014.01.02 @ 01:03:30

Time Off Btm: 2014.01.02 @ 03:47:45

TEST COMMENT: IF: BOB @ 50 sec.
IS: 1" return.
FF: BOB @ 45 sec.
FS: BOB return @ 10 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.55	109.16	Initial Hydro-static
1	185.71	108.27	Open To Flow (1)
23	470.68	124.50	Shut-In(1)
72	1148.94	127.66	End Shut-In(1)
73	483.08	127.37	Open To Flow (2)
102	707.04	126.99	Shut-In(2)
164	1137.75	128.47	End Shut-In(2)
165	2131.76	128.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mcw 20m 80w	2.02
940.00	gmco 30g 5m 65o	13.19
360.00	gmco 40g 30o 30m	5.05
0.00	950' 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

Colt45 FBC2 #4

Job Ticket: 55624

DST#: 6

ATTN: Jim Musgrove

Test Start: 2014.01.01 @ 22:07:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 5.20 in³
Resistivity: ohm.m
Salinity: 1600.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 36 deg API
Water Salinity: 40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	mcw 20m 80w	2.022
940.00	gmco 30g 5m 65o	13.186
360.00	gmco 40g 30o 30m	5.050
0.00	950' GIP	0.000

Total Length: 1600.00 ft Total Volume: 20.258 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

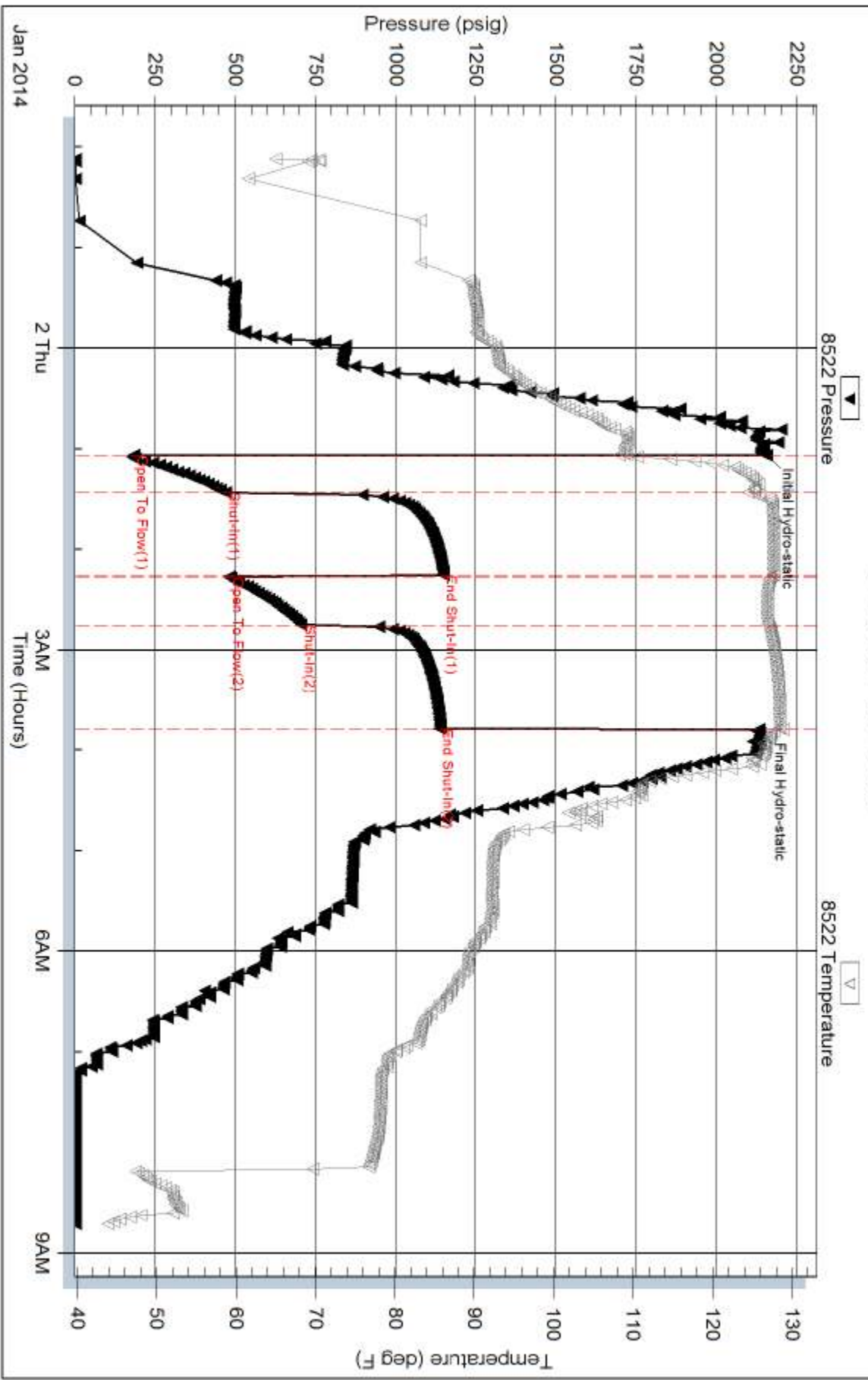
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .320 @ 40f = 40,000

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

ATTN: Jim Musgrove

Job Ticket: 55623

DST#: 5

Test Start: 2013.12.31 @ 22:28:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:18:00

Time Test Ended: 08:01:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4262.00 ft (KB) To 4386.00 ft (KB) (TVD)**

Reference Elevations: 2853.00 ft (KB)

Total Depth: 3976.00 ft (KB) (TVD)

2848.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press @ Run Depth: 505.16 psig @ 4263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2014.01.01

Last Calib.: 2014.01.01

Start Time: 22:28:05

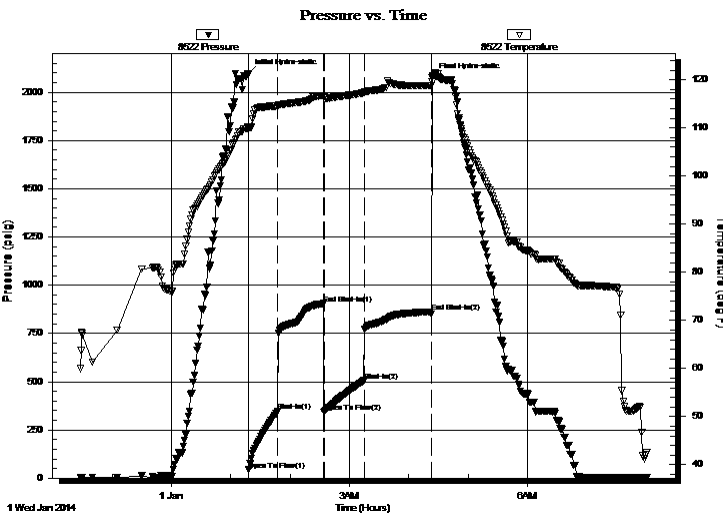
End Time:

08:01:00

Time On Btm: 2014.01.01 @ 01:17:45

Time Off Btm: 2014.01.01 @ 04:23:30

TEST COMMENT: IF: BOB @ 3.5 min.
IS: No return.
FF: BOB @ 9 min.
FS: Surface return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.63	110.24	Initial Hydro-static
1	42.55	109.61	Open To Flow (1)
30	345.07	114.54	Shut-In(1)
77	904.49	116.71	End Shut-In(1)
77	342.99	116.39	Open To Flow (2)
117	505.16	117.27	Shut-In(2)
185	862.41	118.83	End Shut-In(2)
186	2074.92	119.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	mcw 20m 80w	4.83
600.00	mocw 10m 20o 70w	8.42
0.00	30' Gassy Oder	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

O'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

Job Ticket: 55623

DST#: 5

ATTN: Jim Musgrove

Test Start: 2013.12.31 @ 22:28:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:18:00

Time Test Ended: 08:01:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4262.00 ft (KB) To 4386.00 ft (KB) (TVD)

Reference Elevations: 2853.00 ft (KB)

Total Depth: 3976.00 ft (KB) (TVD)

2848.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8678

Inside

Press @ Run Depth: psig @ 4263.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.31

End Date:

2014.01.01

Last Calib.:

2014.01.01

Start Time: 22:28:05

End Time:

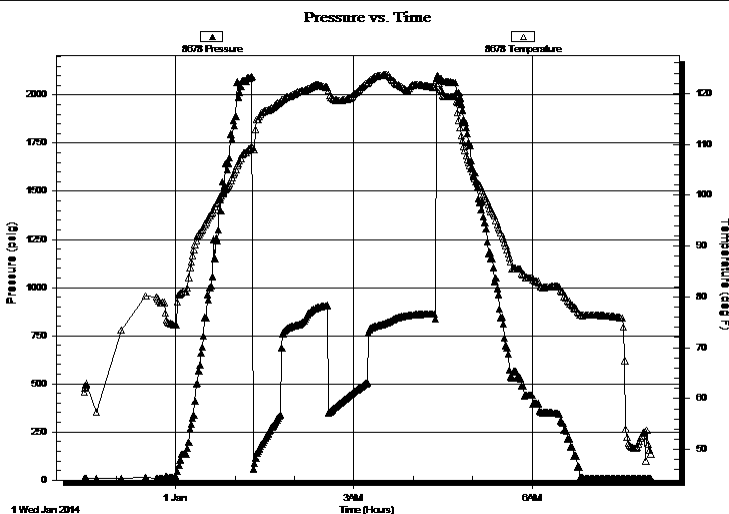
07:59:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 3.5 min.
IS: No return.
FF: BOB @ 9 min.
FS: Surface return.

PRESSURE SUMMARY



Time
(Min.)

Pressure
(psig)

Temp
(deg F)

Annotation

Recovery

Length (ft)	Description	Volume (bbl)
500.00	mcw 20m 80w	4.83
600.00	mocw 10m 20o 70w	8.42
0.00	30' Gassy Oder	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'Brian Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

Job Ticket: 55623

DST#: 5

ATTN: Jim Musgrove

Test Start: 2013.12.31 @ 22:28:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
500.00	mcw 20m 80w	4.827
600.00	mocw 10m 20o 70w	8.416
0.00	30' Gassy Oder	0.000

Total Length: 1100.00 ft Total Volume: 13.243 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

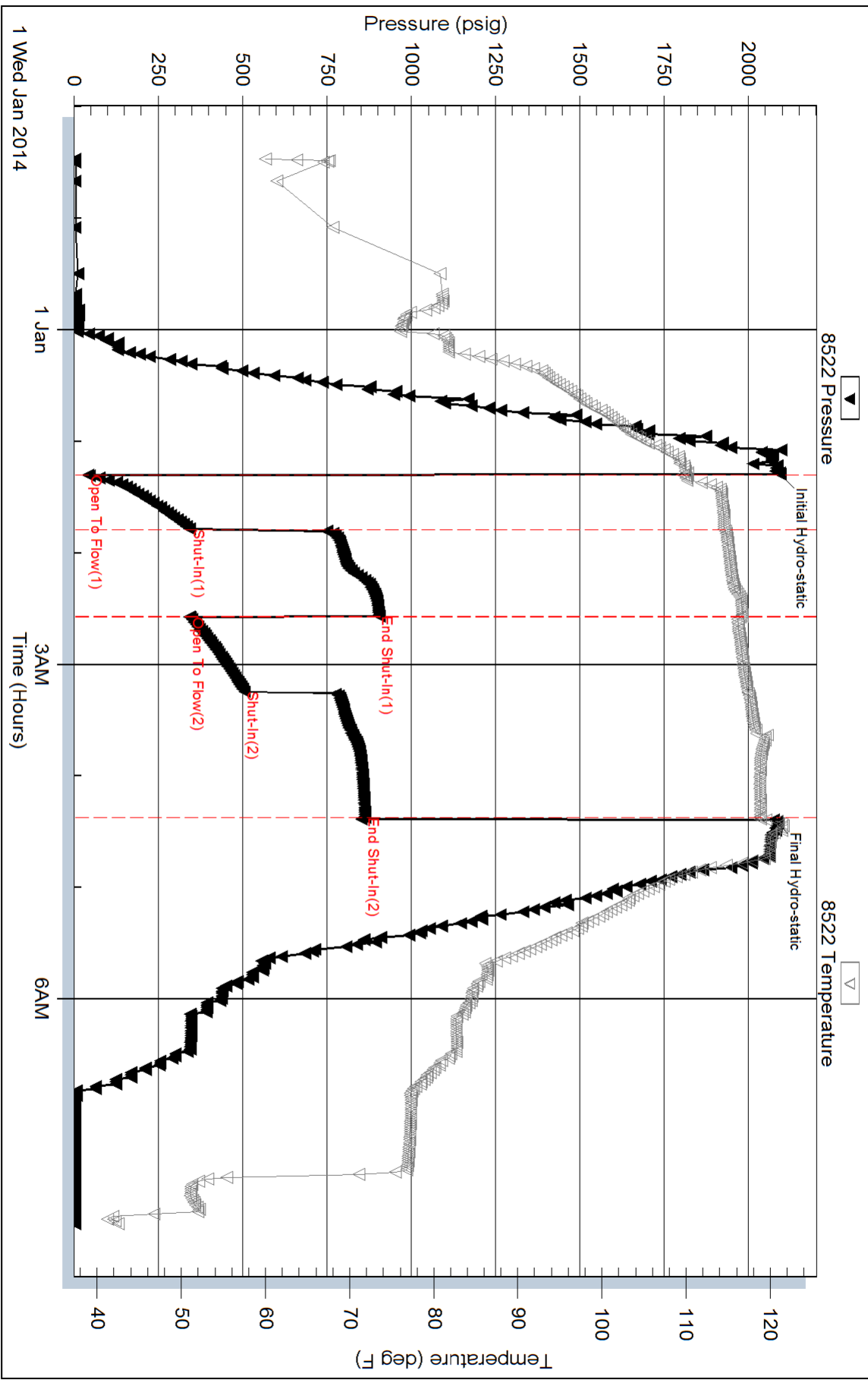
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .340 @ 40f = 38000ppm

Pressure vs. Time



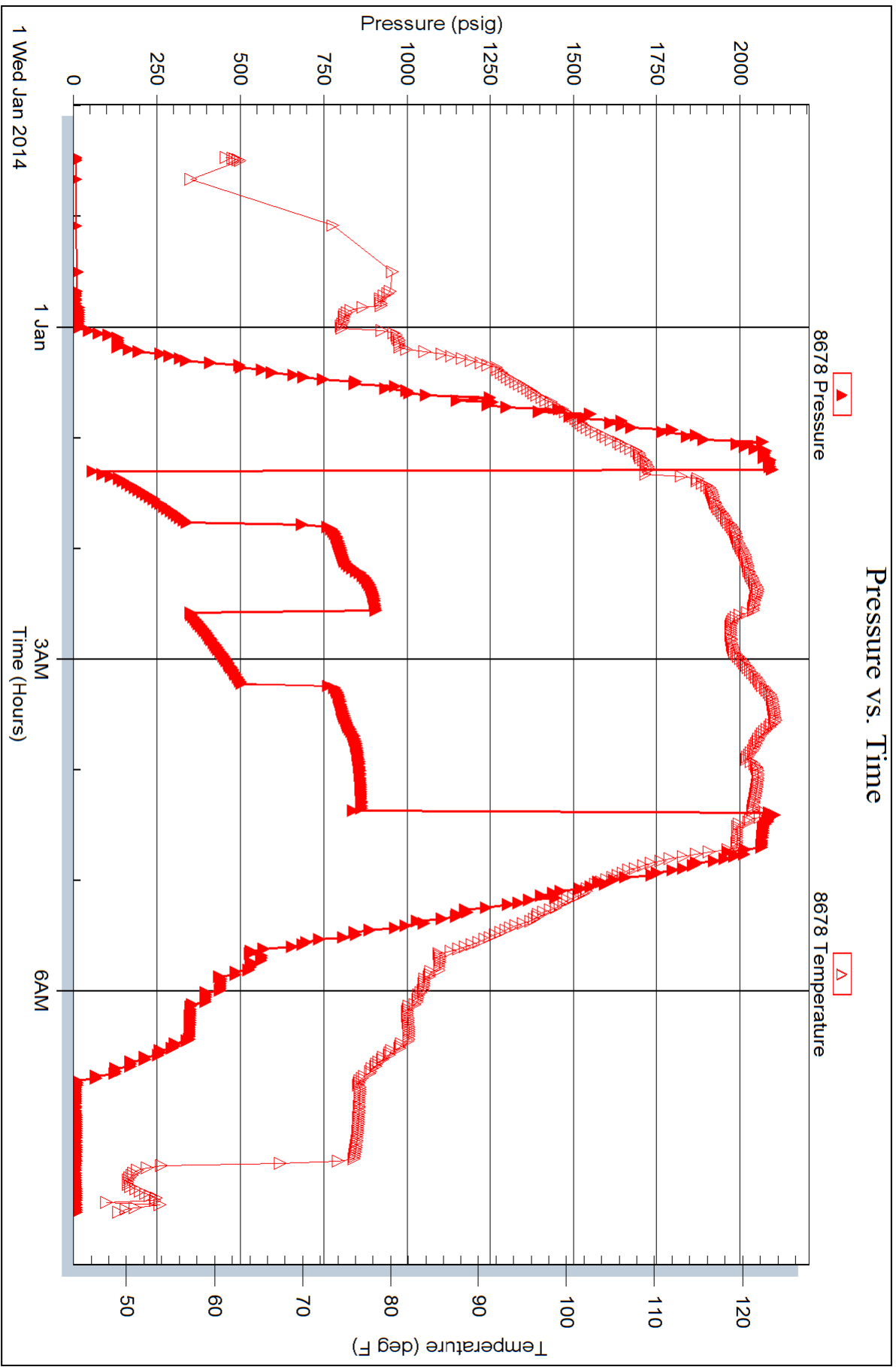
Serial #: 8678

Inside

OBrian Resources, LLC

Colt45 FBC2 #4

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 55623

Printed: 2014.01.01 @ 09:45:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

ATTN: Jim Musgrove

Job Ticket: 55622

DST#: 4

Test Start: 2013.12.30 @ 22:37:00

GENERAL INFORMATION:

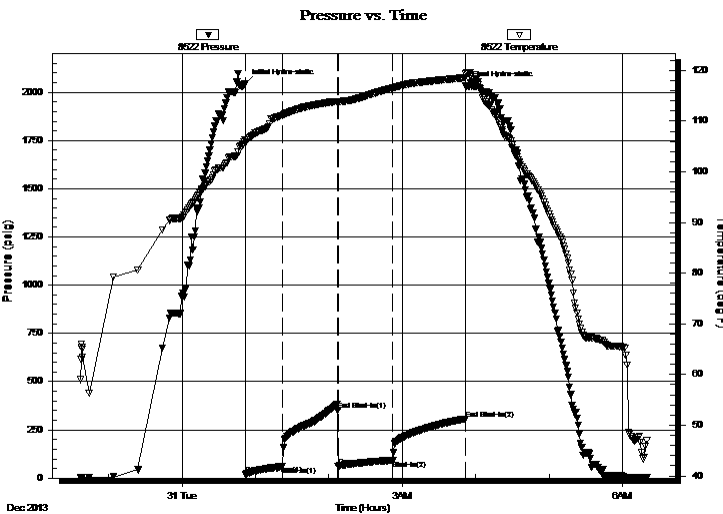
Formation: **LKC- L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:51:45
 Time Test Ended: 06:20:15
 Interval: **4232.00 ft (KB) To 4258.00 ft (KB) (TVD)**
 Total Depth: 4258.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2853.00 ft (KB)
 2848.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press @ Run Depth: 94.02 psig @ 4233.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.30 End Date: 2013.12.31 Last Calib.: 2013.12.31
 Start Time: 22:37:05 End Time: 06:20:14 Time On Btm: 2013.12.31 @ 00:51:30
 Time Off Btm: 2013.12.31 @ 03:51:45

TEST COMMENT: IF: 5" blow.
 IS: No return.
 FF: 3" blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.05	106.26	Initial Hydro-static
1	18.55	105.58	Open To Flow (1)
31	60.49	111.12	Shut-In(1)
76	352.53	113.89	End Shut-In(1)
76	62.90	113.78	Open To Flow (2)
121	94.02	116.55	Shut-In(2)
180	306.91	118.55	End Shut-In(2)
181	2031.88	119.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	w cm 50w 50m (oil spots)	0.79
0.00	recovery had a gassy odor	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

Colt45 FBC2 #4

Job Ticket: 55622

DST#: 4

ATTN: Jim Musgrove

Test Start: 2013.12.30 @ 22:37:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
160.00	w cm 50w 50m (oil spots)	0.787
0.00	recovery had a gassy odor	0.000

Total Length: 160.00 ft Total Volume: 0.787 bbl

Num Fluid Samples: 0

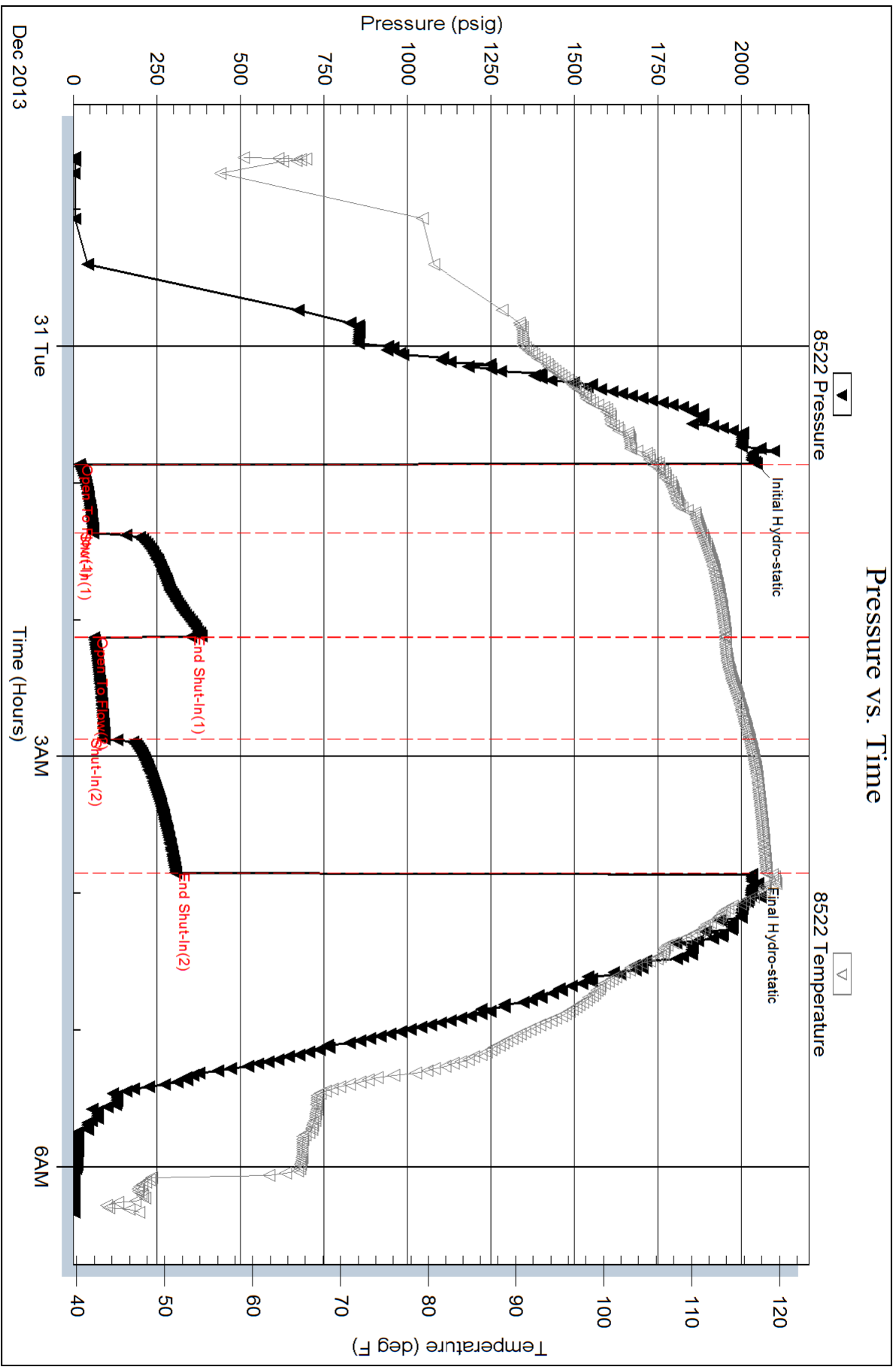
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .315 @ 49f = 32,000ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

ATTN: Jim Musgrove

Job Ticket: 55621

DST#: 3

Test Start: 2013.12.30 @ 06:15:00

GENERAL INFORMATION:

Formation: **Lansing - K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:57:15

Time Test Ended: 14:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4191.00 ft (KB) To 4224.00 ft (KB) (TVD)**

Reference Elevations: 2853.00 ft (KB)

Total Depth: 4224.00 ft (KB) (TVD)

2848.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8522** Outside

Press @ Run Depth: 115.53 psig @ 4192.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.30

End Date: 2013.12.30

Last Calib.: 2013.12.30

Start Time: 06:15:05

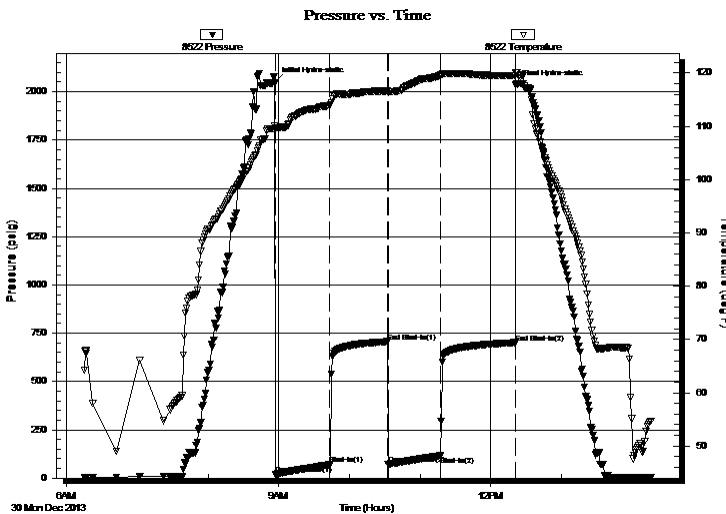
End Time: 14:15:59

Time On Btm: 2013.12.30 @ 08:57:00

Time Off Btm: 2013.12.30 @ 12:21:15

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 2 1/2" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.53	110.09	Initial Hydro-static
1	20.04	109.43	Open To Flow (1)
47	69.51	113.87	Shut-In(1)
96	706.70	116.62	End Shut-In(1)
96	72.92	116.42	Open To Flow (2)
141	115.53	119.55	Shut-In(2)
204	701.49	119.52	End Shut-In(2)
205	2036.98	120.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Mud 100m (thin w oil specs)	1.03

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

Colt45 FBC2 #4

Job Ticket: 55621

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.12.30 @ 06:15:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
210.00	Mud 100m (thin w oil specs)	1.033

Total Length: 210.00 ft Total Volume: 1.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

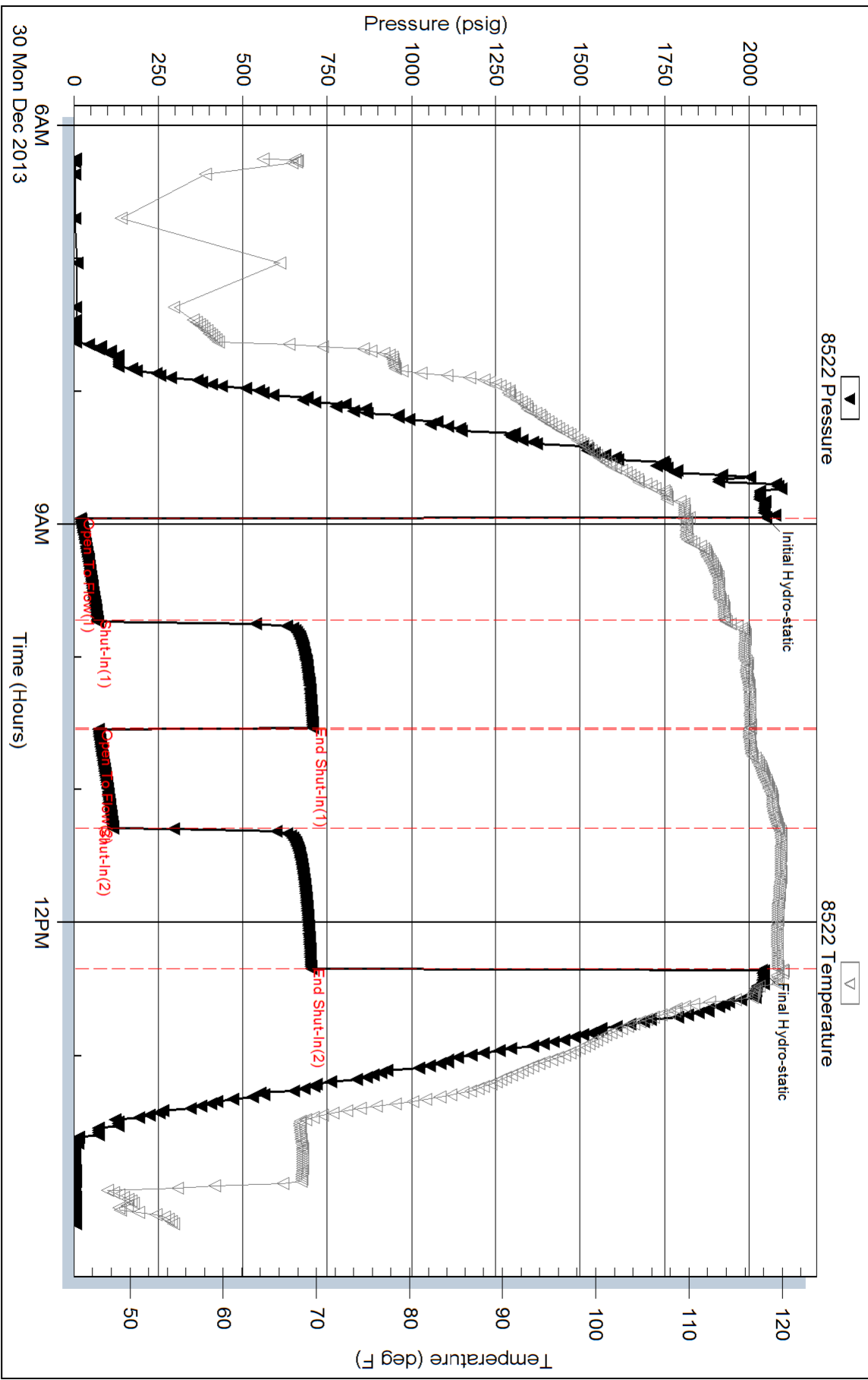
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

O'Brien Resources, LLC

2 17s 30w Lane, Ks

PO Box 6149
Shreveport, LA 71136

Colt45 FBC2 #4

ATTN: Jim Musgrove

Job Ticket: 55620

DST#: 2

Test Start: 2013.12.29 @ 06:26:00

GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:20:15

Time Test Ended: 13:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4091.00 ft (KB) To 4130.00 ft (KB) (TVD)**

Reference Elevations: 2853.00 ft (KB)

Total Depth: 4091.00 ft (KB) (TVD)

2848.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press @ RunDepth: 26.02 psig @ 4092.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.29 End Date: 2013.12.29

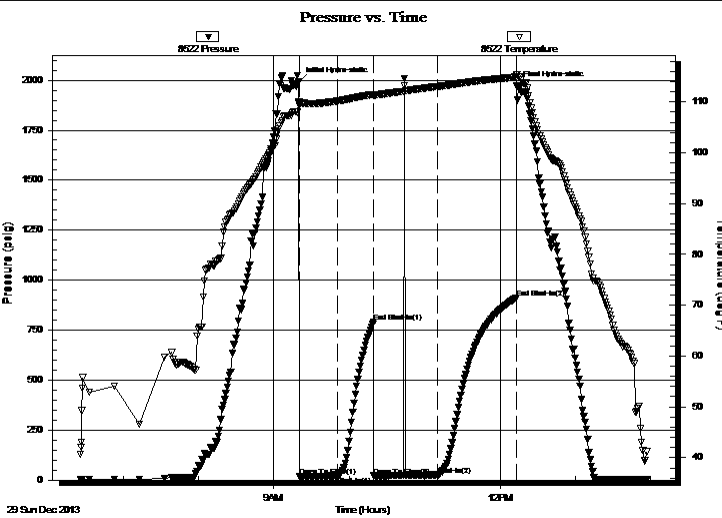
Last Calib.: 2013.12.29

Start Time: 06:26:05 End Time: 13:57:29

Time On Btm: 2013.12.29 @ 09:20:00

Time Off Btm: 2013.12.29 @ 12:13:00

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: No blow. Flushed tool, blow died.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.45	109.96	Initial Hydro-static
1	18.28	109.33	Open To Flow (1)
31	21.24	110.15	Shut-In(1)
60	789.46	111.48	End Shut-In(1)
60	21.21	111.18	Open To Flow (2)
110	26.02	113.01	Shut-In(2)
173	910.44	114.86	End Shut-In(2)
173	1972.42	115.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m (oil specs)	0.15

* 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

Colt45 FBC2 #4

Job Ticket: 55620

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.12.29 @ 06:26:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m (oil specs)	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

Outside O'Brien Resources, LLC

Colt45 FBC2 #4

DST Test Number: 2

