

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1246894
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
-----------------------------------	-----------------	---

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: _____

1246894

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
--	---

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
----------------	-------	---------	------------	---

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: _____ _____
--	--	---

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	BAALMAN 1-6
Doc ID	1246894

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC



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

RECEIVED
DEC 08 2014
HAYS, KANSAS

Date: 12/2/2014
 Invoice # 986
 P.O.#:
 Due Date: 1/1/2015
 Division: Russell

RECEIVED

DEC 10 2014

**SAMUEL GARY JR.
 & ASSOCIATES, INC.**

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

Reference:
 BAALMAN 1-6

Description of Work:
 SURFACE

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	250	\$ 4,610.29	Yes				
Calcium Chloride	14	\$ 870.92	Yes				
Bulk Truck Matl-Material Service Charge	250	\$ 558.82	No				
8 5/8" Regular Guide Shoes	1	\$ 404.59	Yes				
Pump Truck Mileage-Job to Nearest Camp	23	\$ 256.54	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$ 150.12	No				
Premium Gel (Bentonite)	5	\$ 90.98	Yes				
8 5/8" Centralizer	1	\$ 71.53	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 8,034.34
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,205.15)

SubTotal for Taxable Items:	\$ 5,141.06
SubTotal for Non-Taxable Items:	\$ 1,688.13

8.15% Sheridan County Sales Tax

Total:	\$ 6,829.19
Tax:	\$ 419.00

Thank You For Your Business!

Amount Due: \$ 7,248.19
Applied Payments:
Balance Due: \$ 7,248.19

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 980

Date	12-2-14	Sec.	6	Twp.	10	Range	29	County	Sheridan	State	KS	On Location		Finish	1100AM
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Location Central + 270 N on Trunk Route 4 1/2 W to 120 N

Lease	Baalman	Well No.	1-6	Owner	IE + 9000 1 1/2 W E into
Contractor	Discovery #4	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 <u>Sam (can)</u>			
Hole Size	12 1/4	T.D.	412	Street	
Csg.	8 5/8	Depth	411	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	250 com 3/4 2 1/2 CFL
Cement Left in Csg.	20'	Shoe Joint			1/4 # FLO
Meas Line		Displace	24 1/2 BCL		

EQUIPMENT

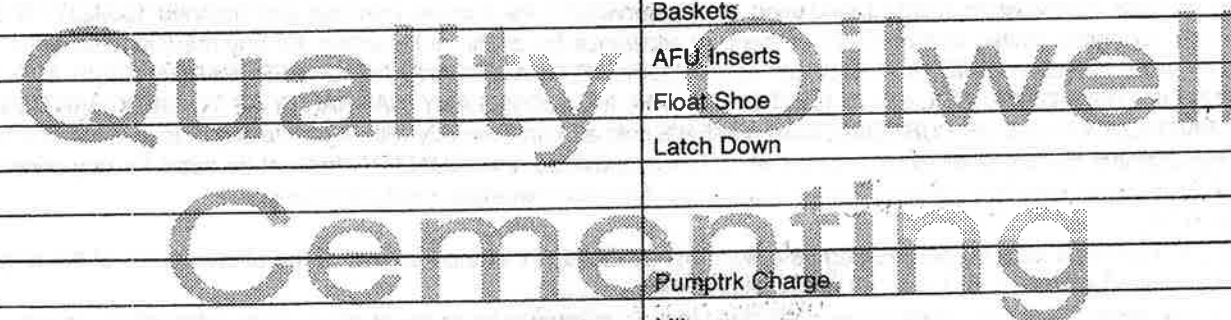
Pumptrk	20	No.	Cementer	Coalg	Common
			Helper		Poz. Mix
Bulktrk		No.	Driver	WIC	Gel.
			Driver		Calcium
Bulktrk	14	No.	Driver	Chad	Hulls
			Driver		Salt

JOB SERVICES & REMARKS

Remarks:		Flowseal
Rat Hole		Kol-Seal
Mouse Hole		Mud CLR 48
Centralizers		CFL-117 or CD110 CAF 38
Baskets		Sand
D/V or Port Collar		Handling
	8 5/8 on bottom. Est. Circulation.	Mileage
	Mix 250 com + Displace	

FLOAT EQUIPMENT

	Cement + Cementer	Guide Shoe	8 5/8
		Centralizer	1
		Baskets	
		AFU Inserts	
		Float Shoe	
		Latch Down	



Pumptrk Charge		Tax	
Mileage		Discount	
Signature	<u>Mike Sashle</u>	Total Charge	



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: 12/11/2014
 Invoice # 986
 P.O.#:
 Due Date: 1/10/2015
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

Reference:
 BAALMAN 1-6

Description of Work:
 PROD STRING

DRLG COMP W/O LOE GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	See field ticket
Description	

RECEIVED
 DEC 17 2014
 HAYS, KANSAS

RECEIVED
 DEC 19 2014
 SAMUEL GARY JR.
 & ASSOCIATES, INC.

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,239.73	No	Defoamer A or CAF-38	50	\$369.44	Yes
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	450	\$ 9,357.50	Yes	Auto Fill Float Shoe, 5 1/2"	1	\$323.00	Yes
Common-Class A	150	\$ 2,612.50	Yes	Latch Down Plug & Baffle, 5 1/2"	1	\$236.44	Yes
Bulk Truck Matl-Material Service Charge	620	\$ 1,308.89	No	Pump Truck Mileage-Job to Nearest Camp	23	\$242.29	No
Gilsonite	750	\$ 1,187.50	Yes	Salt (Fine)	13	\$191.56	Yes
5 1/2" Basket	3	\$ 1,089.33	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	23	\$141.78	No
CFL 117	154	\$ 1,001.34	Yes	KCL	2	\$63.04	Yes
Flo Seal	265	\$ 559.44	Yes	Rotating Head (4 1/2", 5 1/2", or 2 7/8")	1	\$38.00	No
5 1/2" Turbolizer	7	\$ 428.56	Yes				
CD-110	94	\$ 396.89	Yes				
Mud Clear	500	\$ 390.56	Yes				

Invoice Terms:

Net 30	SubTotal: \$ 21,177.80
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice: \$ (3,176.67)
	SubTotal for Taxable Items: \$ 15,476.04
	SubTotal for Non-Taxable Items: \$ 2,525.09
	Total: \$ 18,001.13
	Tax: \$ 1,261.30
	8.15% Sheridan County Sales Tax
Thank You For Your Business!	Amount Due: \$ 19,262.43
	Applied Payments:
	Balance Due: \$ 19,262.43

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 986

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-11-14	6	10	29	Shawnee	KS		10:45pm
Location				Cameo 4 1/2 N RD 120 15 9002 1 1/2 E Finto			

Lease	Well No.	Owner	
Braalman	1.6	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.	
Contractor	Type Job	Charge To	
D. Scovell #4	Production String	Sam Camp J. & Associates	
Hole Size	T.D.	Street	
7 7/8	4595		
Csg.	Depth	City	
5 1/2	4591	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered	450 Quid C 1/2 # Flt
Cement Left in Csg.	Shoe Joint	Meas Line	Displace
42.60	42.60	108 1/4 B/L	150 Q Pro-C 1/2 # Flt 10 1/2 Salt 5/6 Wilsonite

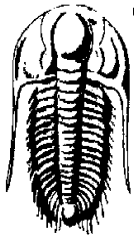
EQUIPMENT			
Pumptrk	No.	Cement Helper	
20		Smig	
Bulktrk	No.	Driver	
9		Wick	
Bulktrk	No.	Driver	
19		Tyson	
		Deag	

JOB SERVICES & REMARKS	
Remarks:	Salt 13
Rat Hole 30SK	Flowseal 265#
Mouse Hole 15SK	Kol-Seal 750#
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38 50#
D/V or Port Collar	Sand 154#
5 1/2 on bottom Est Circulation	Handling 620
Pump spacer mud Clear 410BL Spacer	Mileage
Plug Ratchet manshole. Mix 555SK	
4 Displace Plug. Displace 20BLKCL	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	7 Turbo's
Baskets	3 Blue
AFU Inserts	
Float Shoe	1
Latch Down	1

Maintained - low returns no cement noticed!	Pumptrk Charge	prod string
	Mileage	23

X Signature	Tax	
	Discount	
	Total Charge	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman #1

Job Ticket: 61017

DST#: 1

ATTN: Chris Micheal

Test Start: 2014.12.05 @ 21:19:00

GENERAL INFORMATION:

Formation: **Toronto & Lans. - 'A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:07:30

Time Test Ended: 05:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: **3945.00 ft (KB) To 3993.00 ft (KB) (TVD)**

Reference Elevations: 2903.00 ft (KB)

Total Depth: 3993.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 600.89 psig @ 3946.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.05 End Date: 2014.12.06

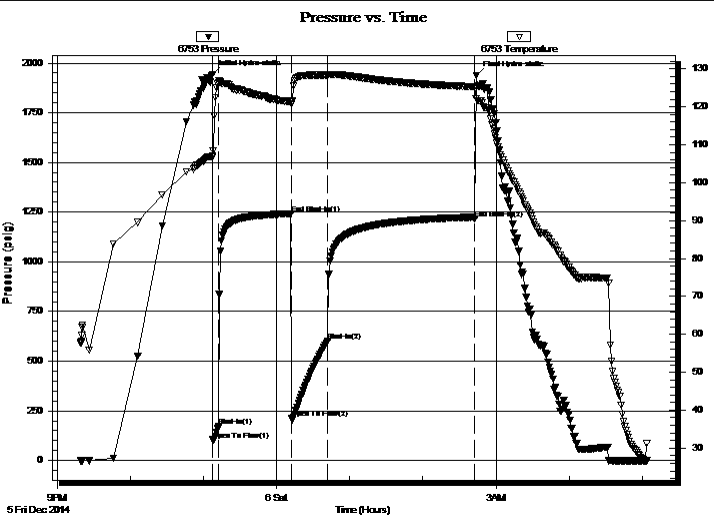
Last Calib.: 2014.12.06

Start Time: 21:19:05 End Time: 05:04:29

Time On Btm: 2014.12.05 @ 23:07:15

Time Off Btm: 2014.12.06 @ 02:43:45

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 2 1/2 mins.
60 - ISI - No Return
30 - FF - Surface blow built to bottom of bucket in 2 1/2 mins.
120 - FSI - No Return



PRESSURE SUMMARY

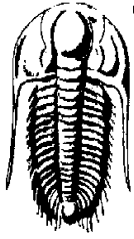
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.96	107.12	Initial Hydro-static
1	103.75	106.74	Open To Flow (1)
6	174.22	126.34	Shut-In(1)
65	1241.98	121.36	End Shut-In(1)
65	213.07	120.71	Open To Flow (2)
95	600.89	128.38	Shut-In(2)
216	1217.39	125.26	End Shut-In(2)
217	1937.06	122.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
935.00	MW - 5M - 95W	12.83
310.00	OSMW - 40M - 60W - Oil Spots	4.35

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman #1

Job Ticket: 61017

DST#: 1

ATTN: Chris Micheal

Test Start: 2014.12.05 @ 21:19:00

GENERAL INFORMATION:

Formation: **Toronto & Lans. - 'A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:07:30

Time Test Ended: 05:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 3945.00 ft (KB) To 3993.00 ft (KB) (TVD)

Reference Elevations: 2903.00 ft (KB)

Total Depth: 3993.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8368

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.05 End Date: 2014.12.06

Last Calib.: 2014.12.06

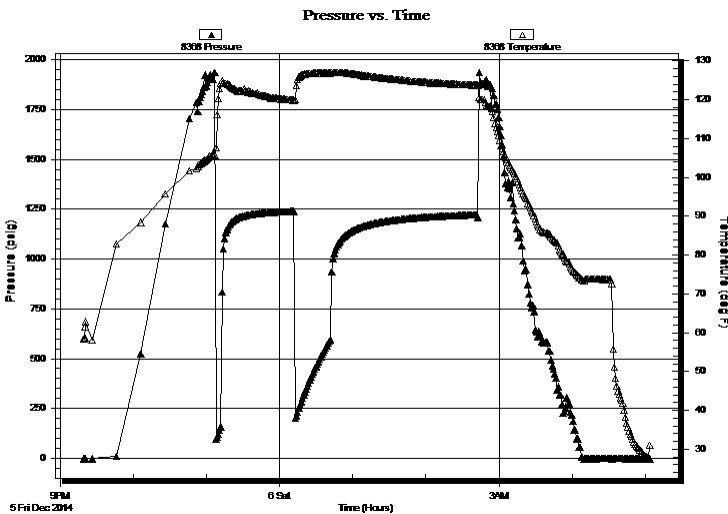
Start Time: 21:19:05 End Time: 05:04:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 2 1/2 mins.
60 - ISI - No Return
30 - FF - Surface blow built to bottom of bucket in 2 1/2 mins.
120 - FSI - No Return

PRESSURE SUMMARY



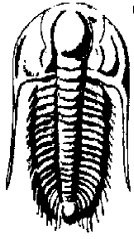
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
935.00	MW - 5M - 95W	12.83
310.00	OSMW - 40M - 60W - Oil Spots	4.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman #1

Job Ticket: 61017

DST#: 1

ATTN: Chris Micheal

Test Start: 2014.12.05 @ 21:19:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 750.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
935.00	MW - 5M - 95W	12.828
310.00	OSMW - 40M - 60W - Oil Spots	4.348

Total Length: 1245.00 ft Total Volume: 17.176 bbl

Num Fluid Samples: 0

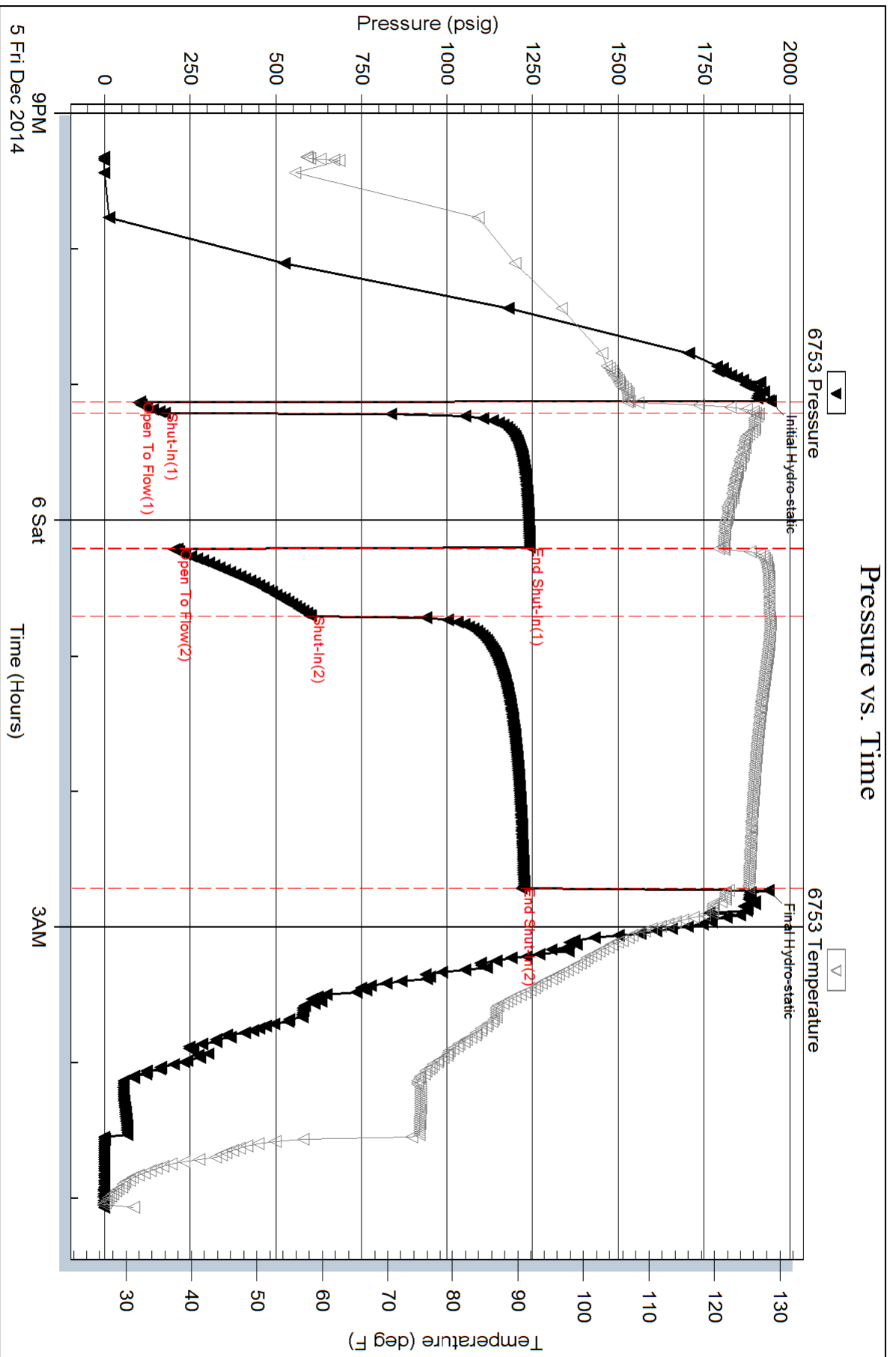
Num Gas Bombs: 0

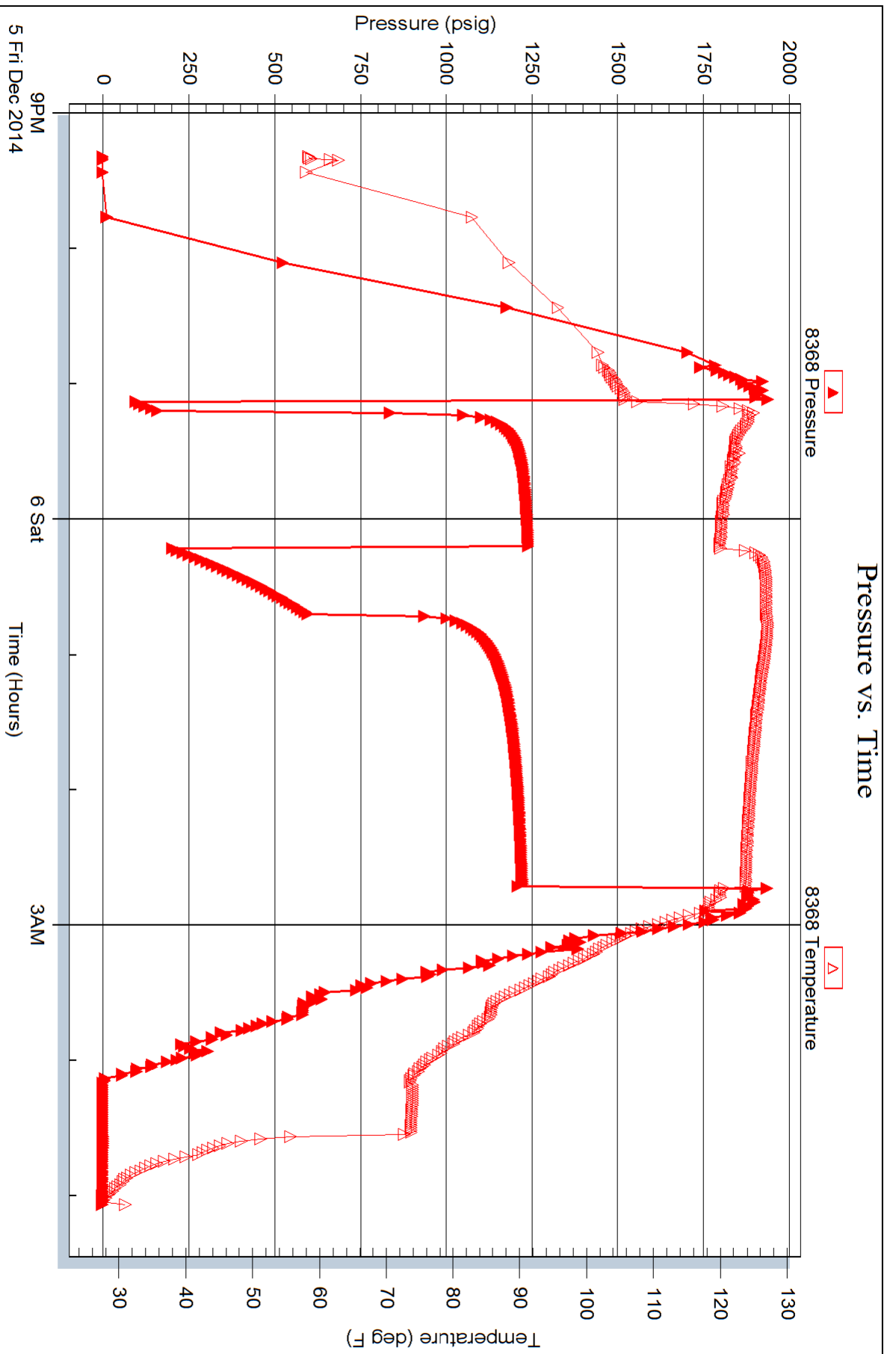
Serial #:

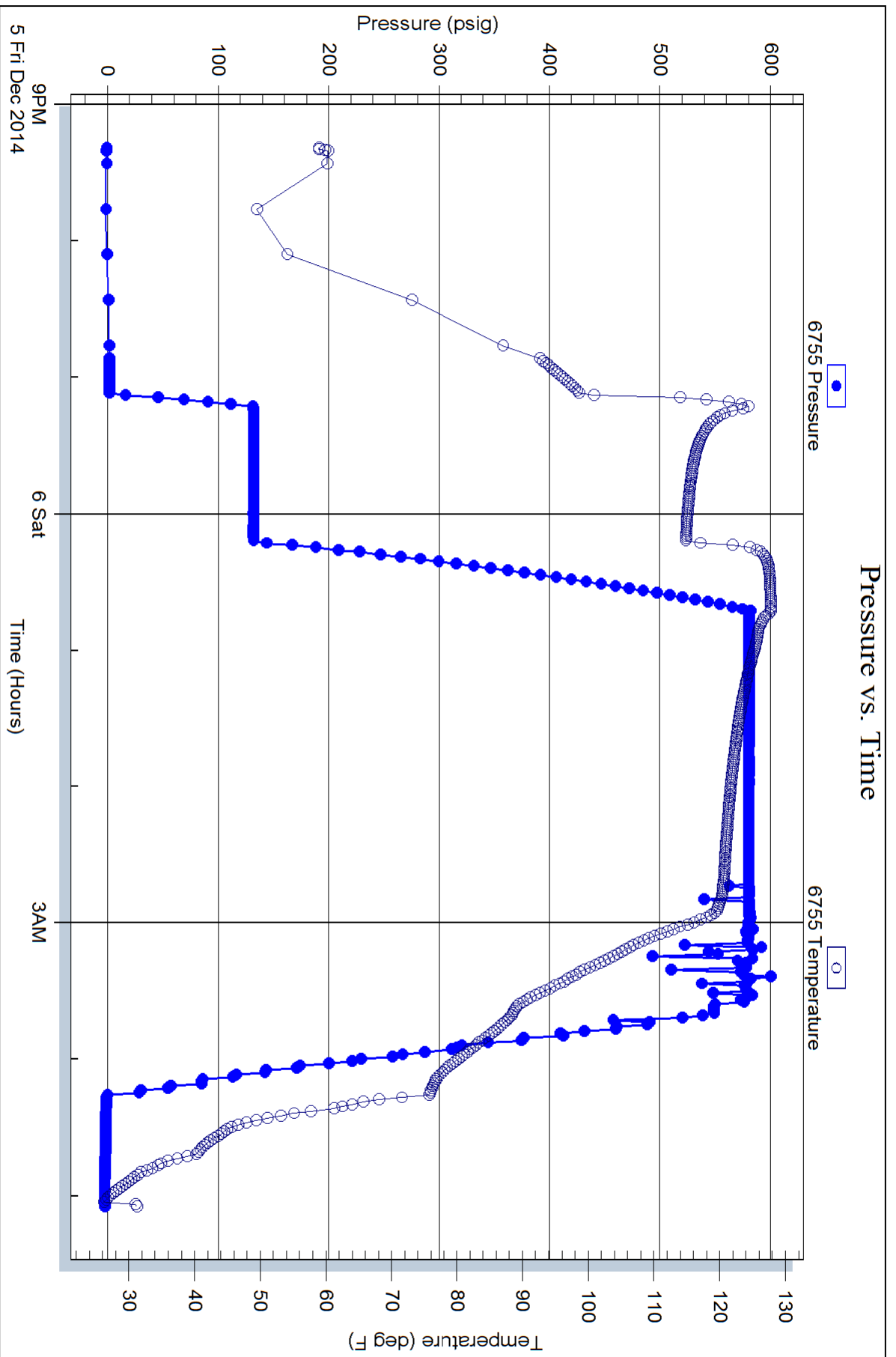
Laboratory Name:

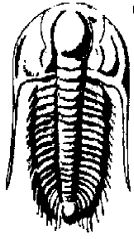
Laboratory Location:

Recovery Comments:









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman 1-6

Job Ticket: 61018

DST#: 2

ATTN: Chris Micheal

Test Start: 2014.12.06 @ 12:57:00

GENERAL INFORMATION:

Formation: **Lans. - 'B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:15:00

Time Test Ended: 20:42:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 3987.00 ft (KB) To 4017.00 ft (KB) (TVD)

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4017.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 49.68 psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.06

End Date:

2014.12.06

Last Calib.:

2014.12.06

Start Time: 12:57:05

End Time:

20:42:44

Time On Btm:

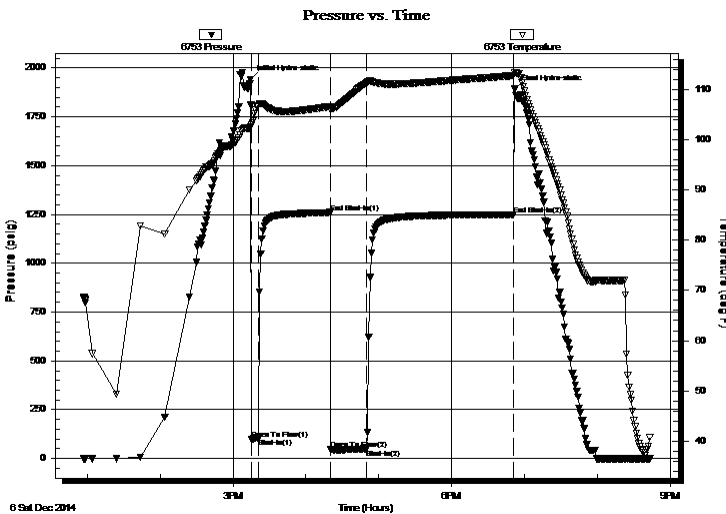
2014.12.06 @ 15:14:30

Time Off Btm:

2014.12.06 @ 18:51:45

TEST COMMENT: 5 - IF - Surface blow built to 3 1/2"
60 - ISI - No Return
30 - FF - Surface blow built to 1 1/2"
120 - FSI - No Return

PRESSURE SUMMARY



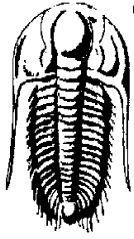
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.55	102.57	Initial Hydro-static
1	97.46	102.93	Open To Flow (1)
6	105.62	106.73	Shut-In(1)
66	1259.85	106.63	End Shut-In(1)
66	47.38	106.01	Open To Flow (2)
96	49.68	111.40	Shut-In(2)
217	1249.49	112.77	End Shut-In(2)
218	1891.09	113.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
72.00	OCM - 85M - 15o	0.72

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman 1-6

Job Ticket: 61018

DST#: 2

ATTN: Chris Micheal

Test Start: 2014.12.06 @ 12:57:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
72.00	OCM - 85M - 15o	0.723

Total Length: 72.00 ft Total Volume: 0.723 bbl

Num Fluid Samples: 0

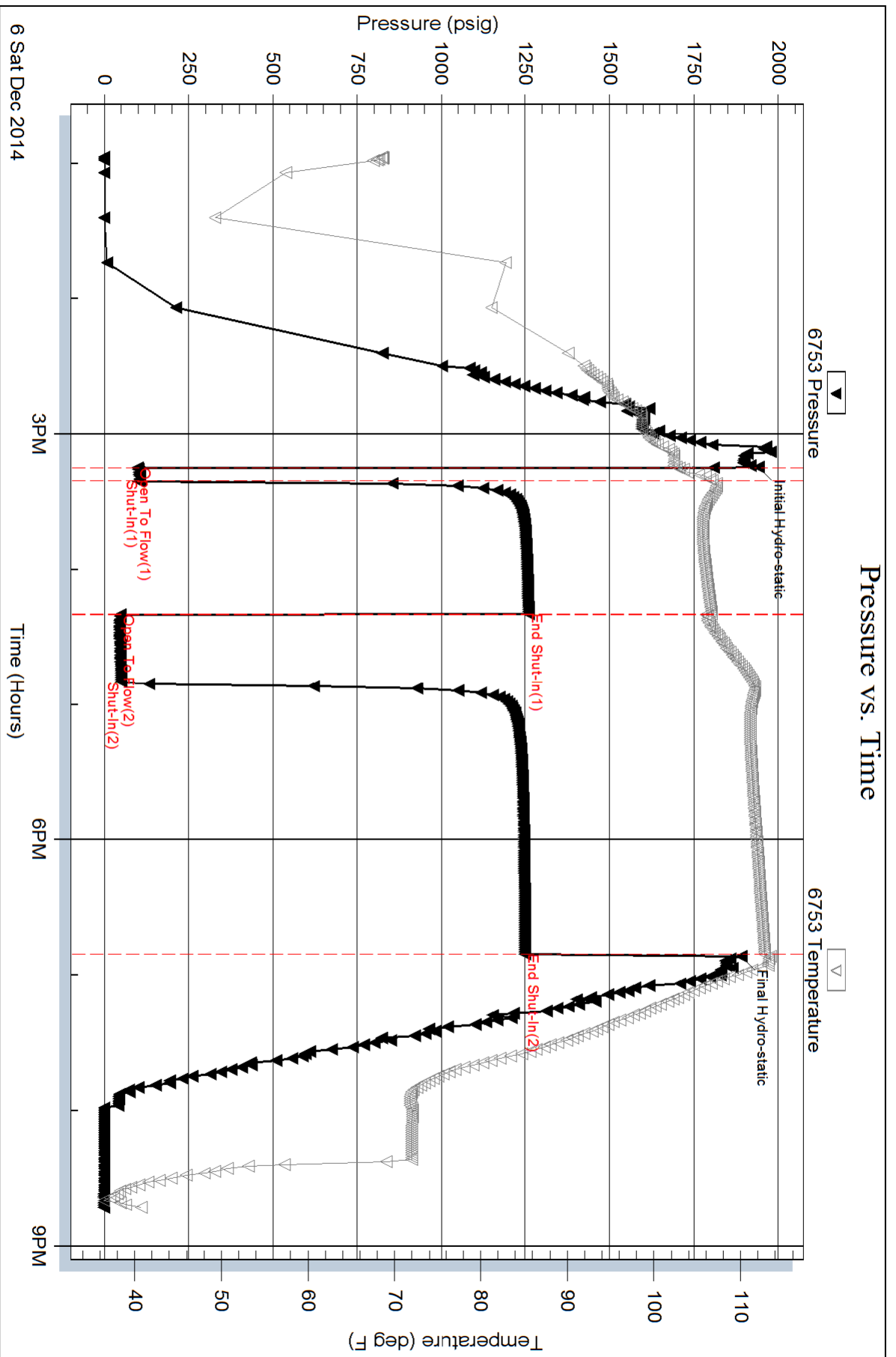
Num Gas Bombs: 0

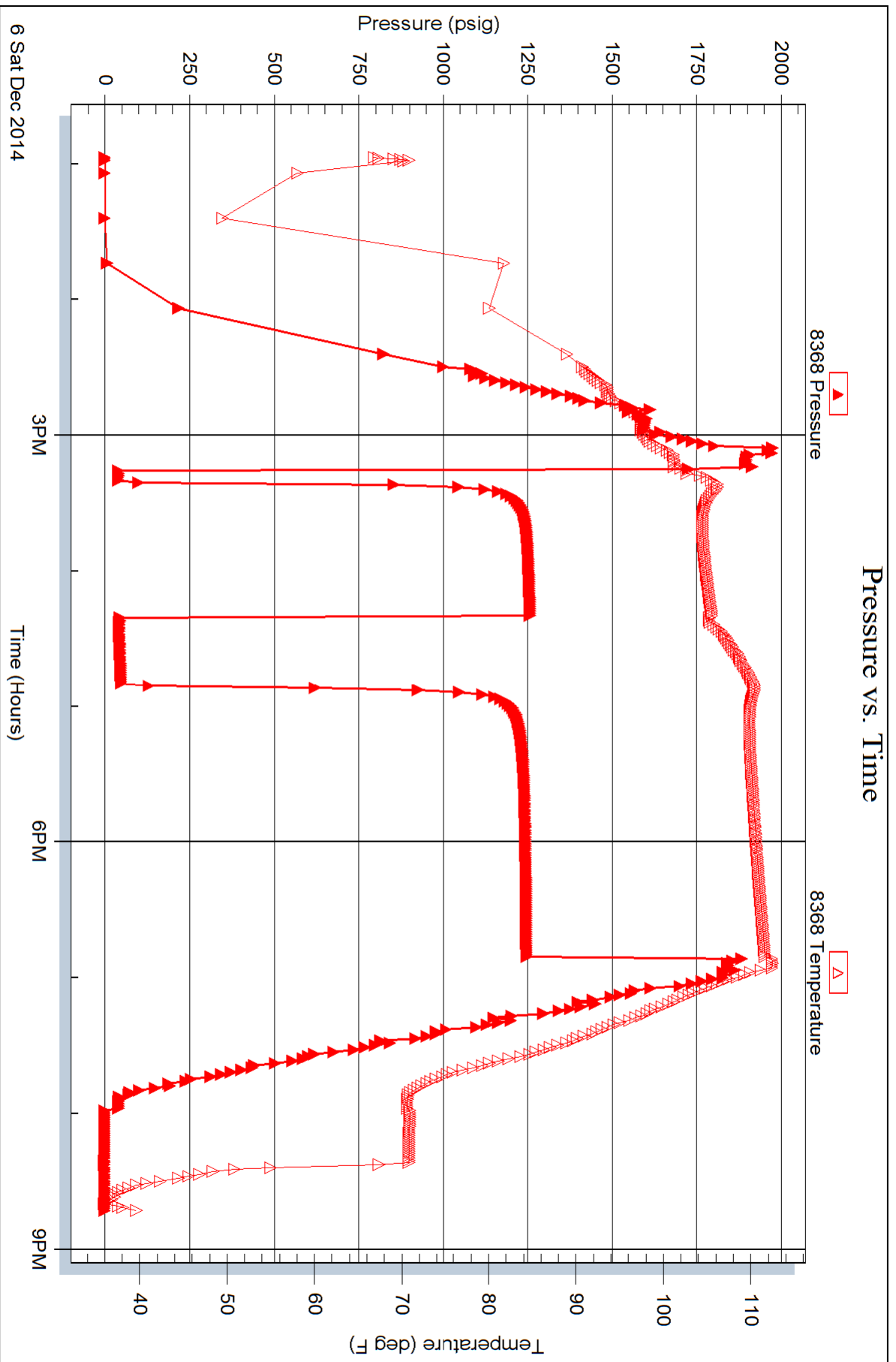
Serial #:

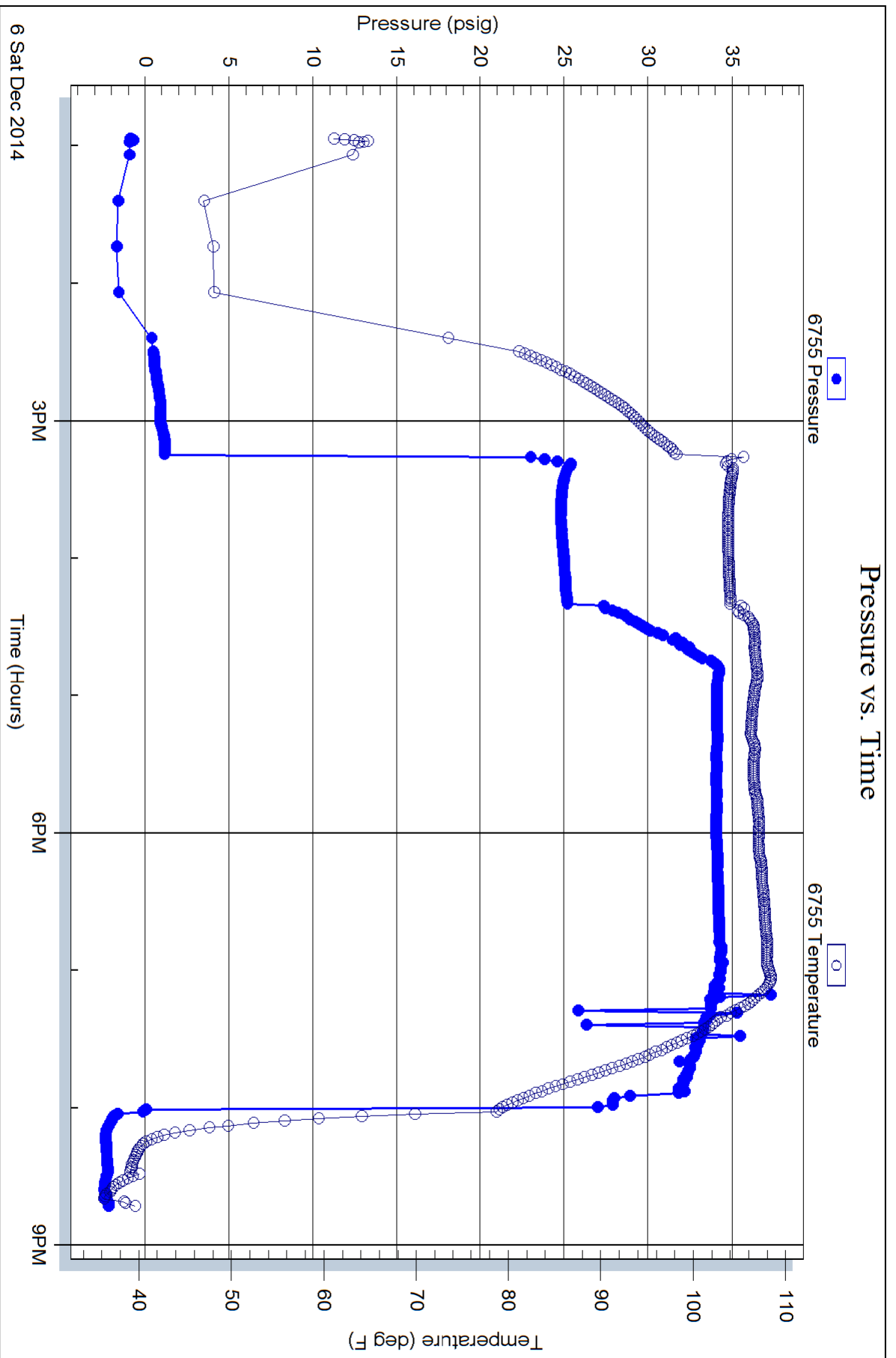
Laboratory Name:

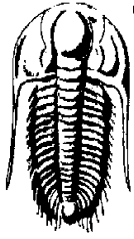
Laboratory Location:

Recovery Comments:









TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61020

DST#: 3

ATTN: Chris Micheal

Test Start: 2014.12.07 @ 07:25:00

GENERAL INFORMATION:

Formation: **Lans. - 'D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:19:15

Time Test Ended: 15:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: **4034.00 ft (KB) To 4060.00 ft (KB) (TVD)**

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 63.72 psig @ 4035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.07 End Date: 2014.12.07

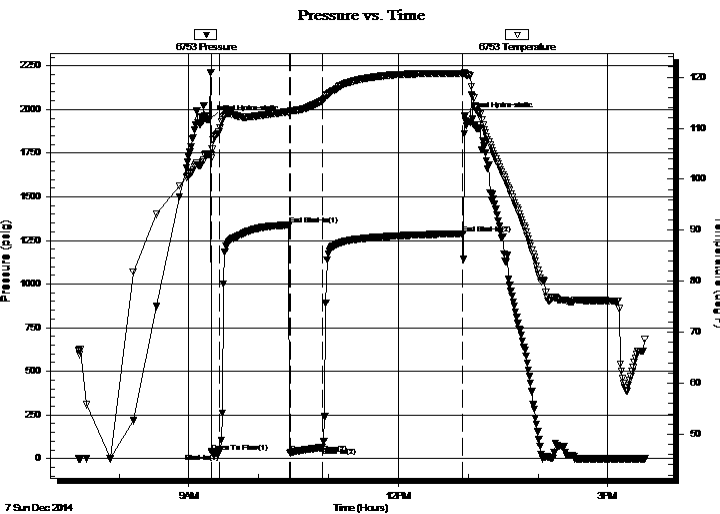
Last Calib.: 2014.12.07

Start Time: 07:25:05 End Time: 15:32:29

Time On Btm: 2014.12.07 @ 09:18:00

Time Off Btm: 2014.12.07 @ 12:57:15

TEST COMMENT: 5 - IF - Surface blow built to 5"
60 - ISI - No Return
30 - FF - Surface blow built to bottom of bucket in 13 min.
120 - FSI - Weak Return started in 50 mins. and built to 3/4"



PRESSURE SUMMARY

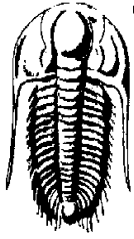
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.14	104.74	Initial Hydro-static
2	38.38	104.12	Open To Flow (1)
8	33.13	109.26	Shut-In(1)
68	1338.47	113.26	End Shut-In(1)
69	29.66	112.91	Open To Flow (2)
97	63.72	115.48	Shut-In(2)
218	1288.64	120.75	End Shut-In(2)
220	1961.48	120.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
114.00	MCO - 45M - 55o	1.31
15.00	Free Oil	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61020

DST#: 3

ATTN: Chris Micheal

Test Start: 2014.12.07 @ 07:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
114.00	MCO - 45M - 55o	1.312
15.00	Free Oil	0.210

Total Length: 129.00 ft

Total Volume: 1.522 bbl

Num Fluid Samples: 0

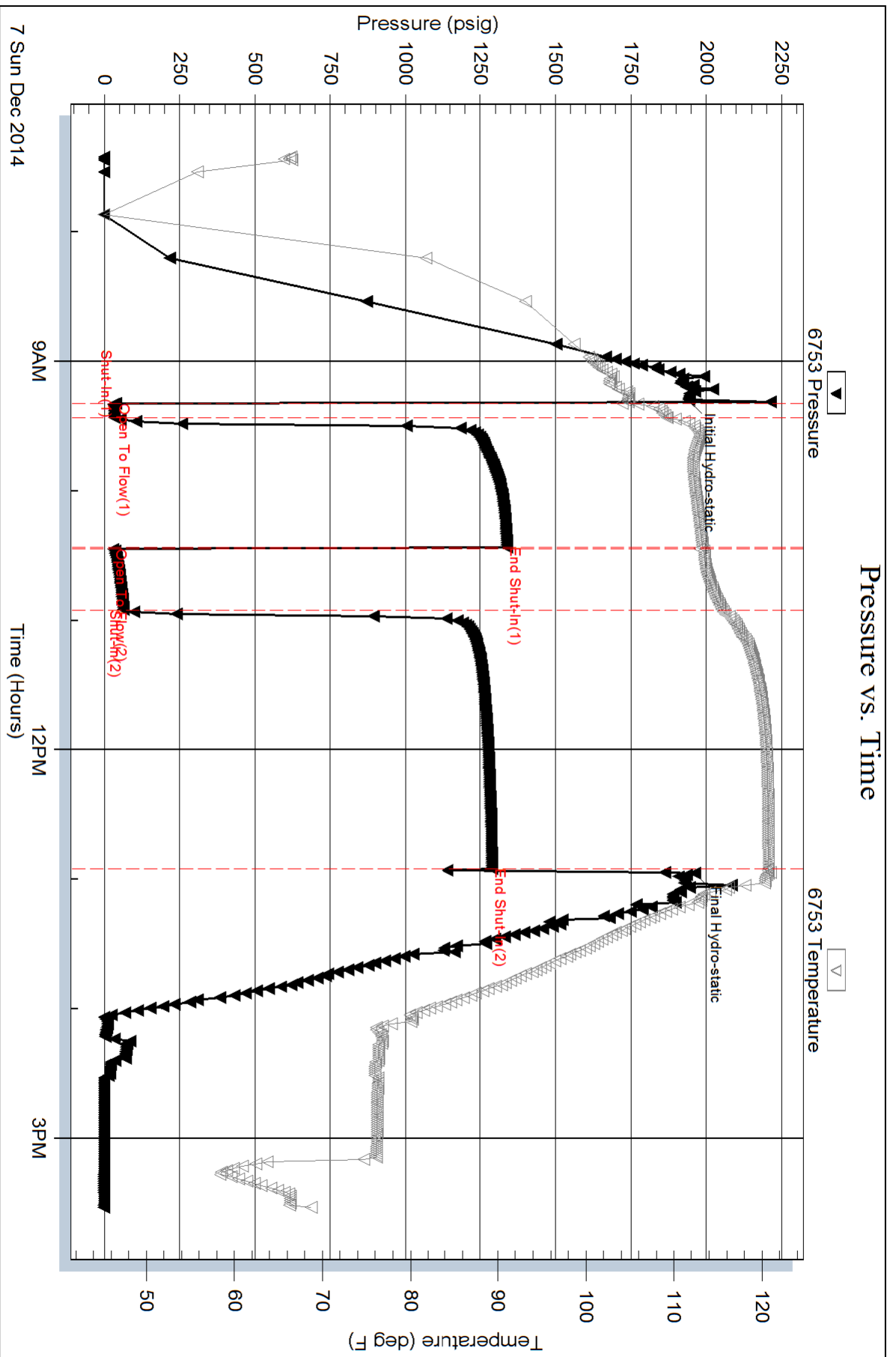
Num Gas Bombs: 0

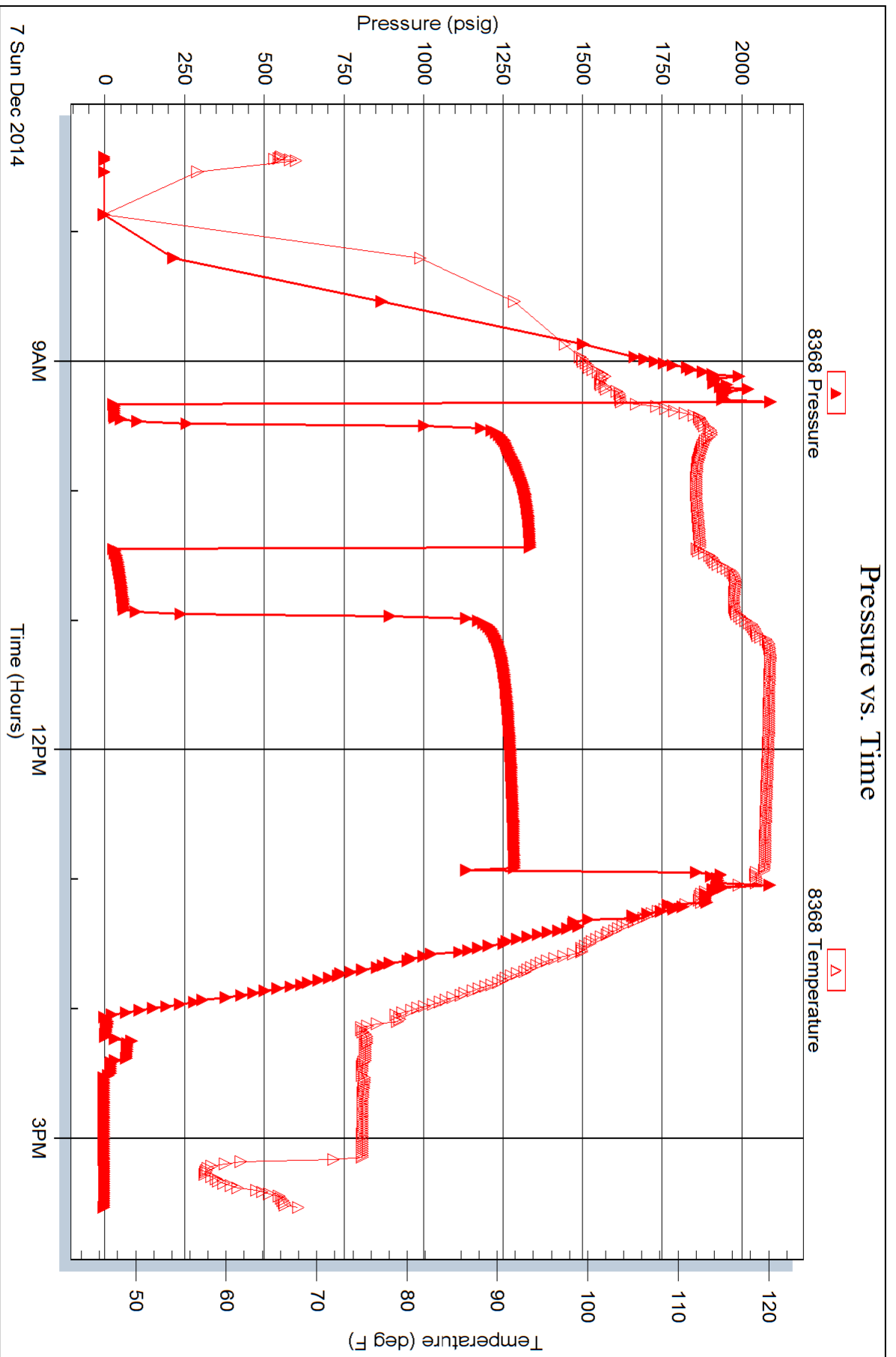
Serial #:

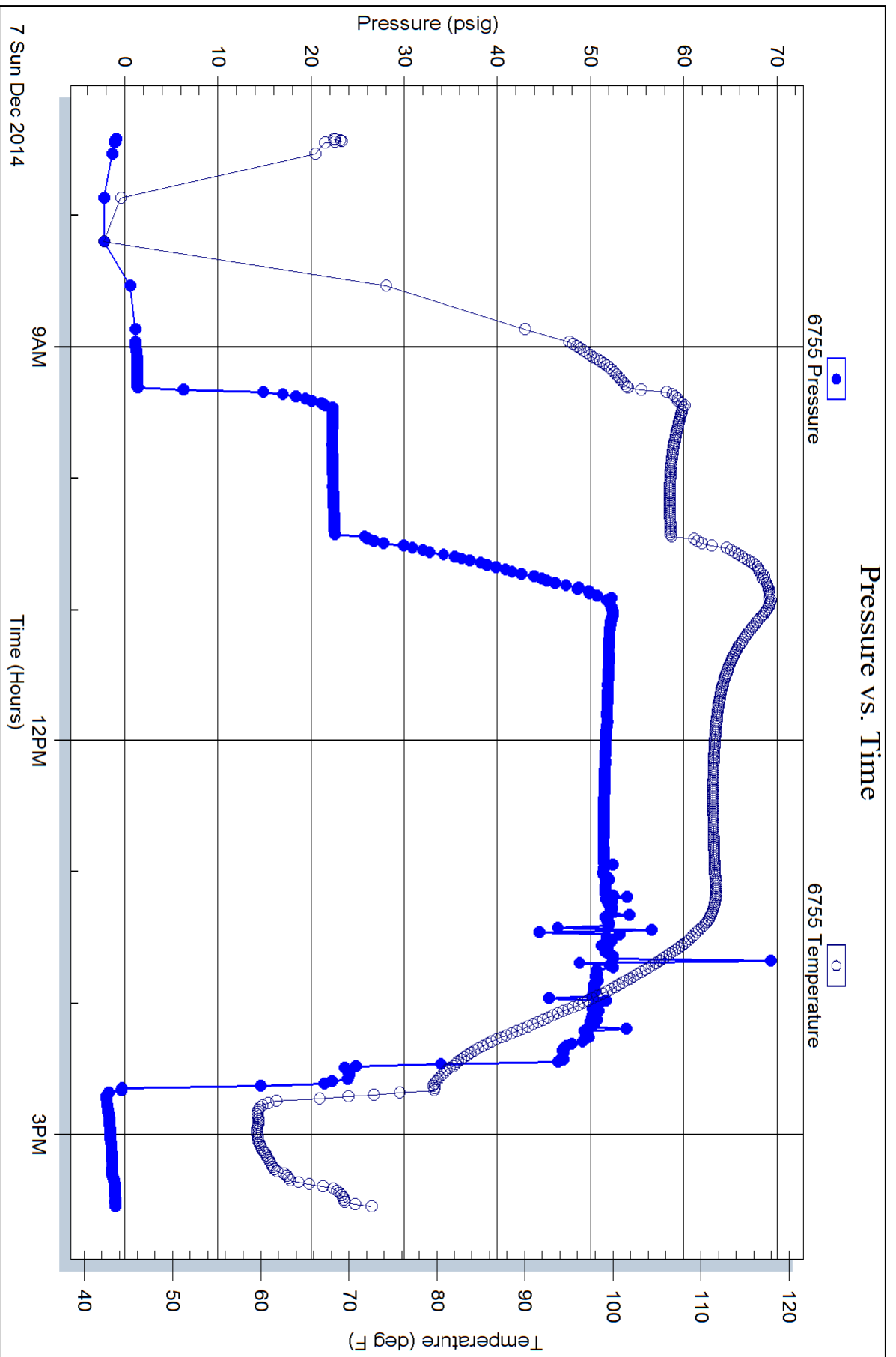
Laboratory Name:

Laboratory Location:

Recovery Comments:









TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61020

DST#: 4

ATTN: Chris Micheal

Test Start: 2014.12.08 @ 07:37:00

GENERAL INFORMATION:

Formation: **Lans. - 'I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:14:45

Time Test Ended: 16:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4150.00 ft (KB) To 4176.00 ft (KB) (TVD)

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4176.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press@RunDepth: 46.80 psig @ 4151.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.08

End Date: 2014.12.08

Last Calib.: 2014.12.08

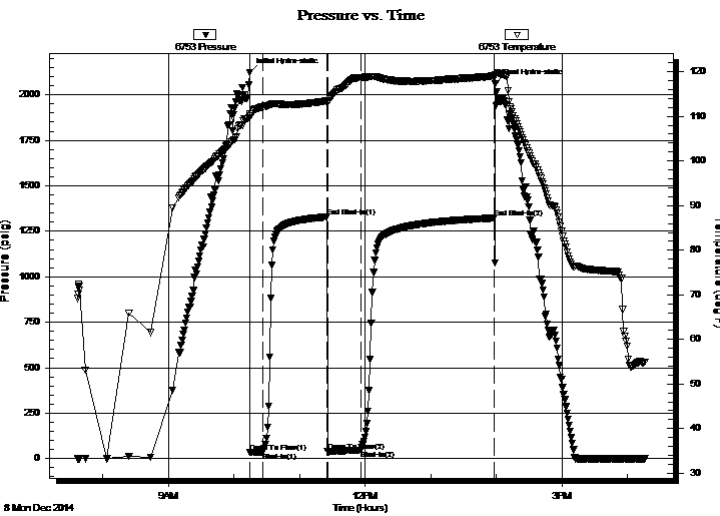
Start Time: 07:37:05

End Time: 16:16:30

Time On Btm: 2014.12.08 @ 10:14:30

Time Off Btm: 2014.12.08 @ 13:59:15

TEST COMMENT: 10 - IF - Surface blow built to 3 1/2"
60 - ISI - No Return
30 - FF - Surface blow built to 9 3/4"
120 - FSI - Weak Return started in 30 mins and stayed at a weak blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.43	110.49	Initial Hydro-static
1	36.27	110.08	Open To Flow (1)
12	37.22	112.13	Shut-In(1)
71	1328.75	113.45	End Shut-In(1)
72	40.70	113.03	Open To Flow (2)
102	46.80	118.73	Shut-In(2)
224	1322.42	118.99	End Shut-In(2)
225	2063.15	119.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
69.00	OCM - 65M - 35o	0.68
8.00	Free Oil - 100o	0.11

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61020

DST#: 4

ATTN: Chris Micheal

Test Start: 2014.12.08 @ 07:37:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

44 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
69.00	OCM - 65M - 35o	0.681
8.00	Free Oil - 100o	0.112

Total Length: 77.00 ft Total Volume: 0.793 bbl

Num Fluid Samples: 0

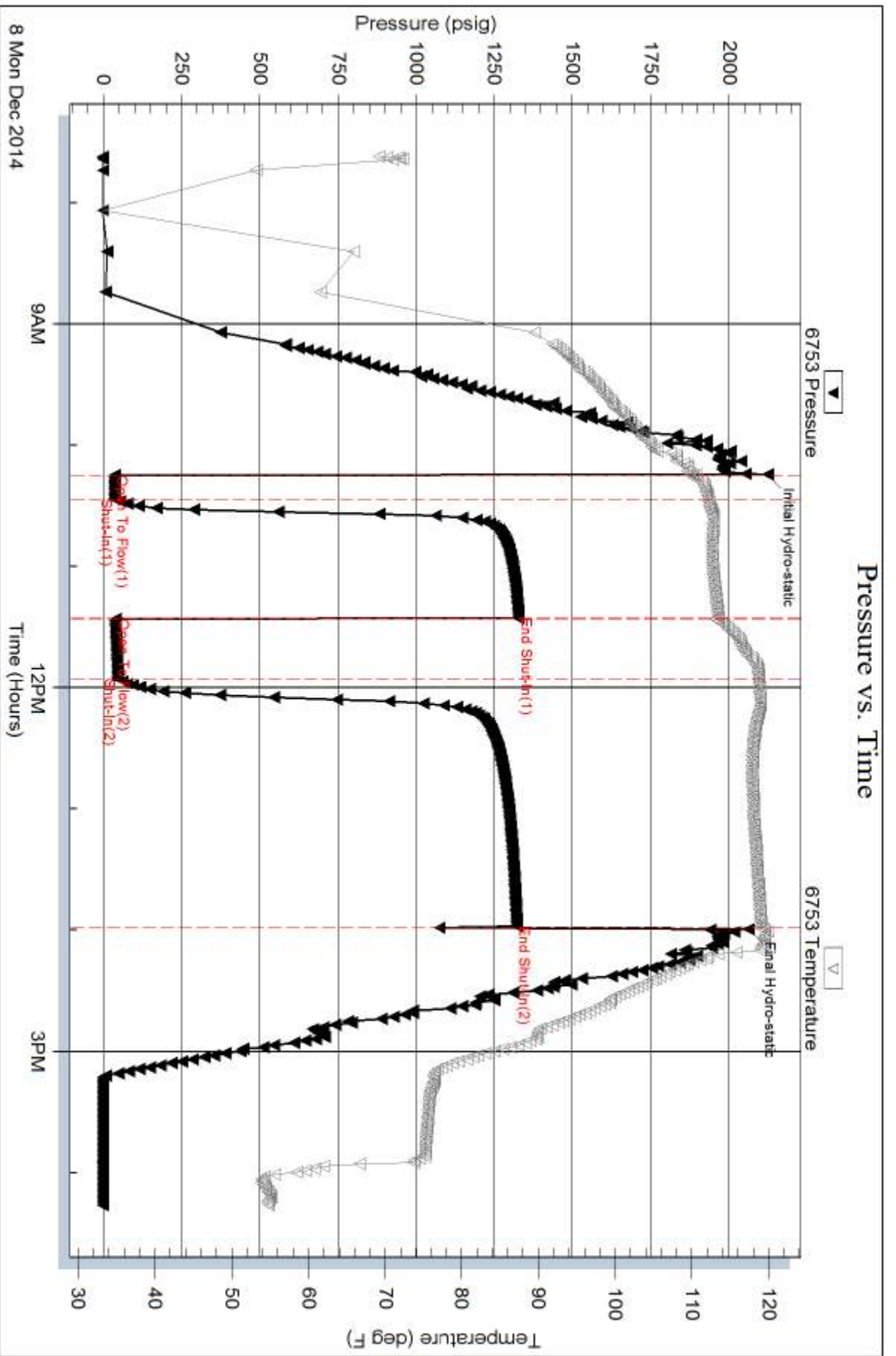
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



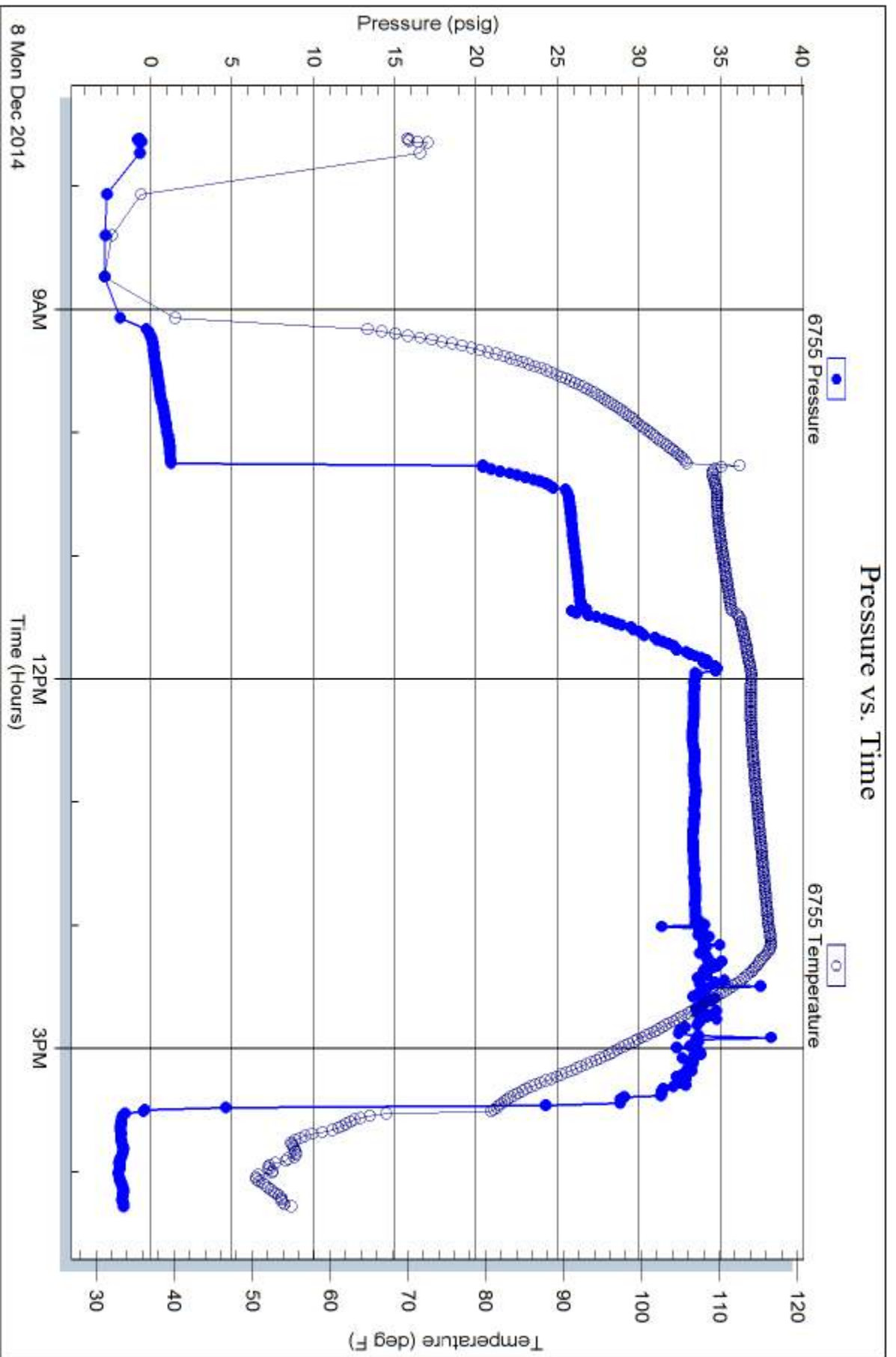
Serial #: 6755

Fluid

Sam Gary, Jr. and Associates, Inc.

Bauman

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61020

Printed: 2014, 12, 08 @ 17:14:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61021

DST#: 5

ATTN: Chris Micheal

Test Start: 2014.12.11 @ 01:15:00

GENERAL INFORMATION:

Formation: **Lans. - 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:16:30

Time Test Ended: 10:52:45

Test Type: Conventional Straddle (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4087.00 ft (KB) To 4171.00 ft (KB) (TVD)

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6755

Inside

Press@RunDepth: 193.74 psig @ 4088.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.11

End Date: 2014.12.11

Last Calib.: 2014.12.11

Start Time: 01:15:05

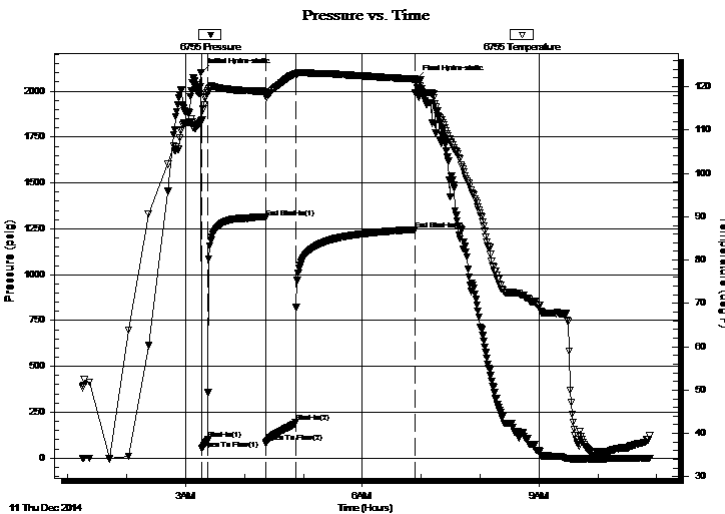
End Time: 10:52:45

Time On Btm: 2014.12.11 @ 03:16:00

Time Off Btm: 2014.12.11 @ 06:54:45

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 4 mins.
60 - ISI - A faint Return started in 30 mins. and stayed
30 - FF - Surface blow built to bottom of the bucket in 3 mins.
120 - FSI - Return started in a min and built to 6 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.73	112.04	Initial Hydro-static
1	50.12	112.23	Open To Flow (1)
7	100.50	118.58	Shut-In(1)
66	1312.23	118.93	End Shut-In(1)
66	87.01	118.24	Open To Flow (2)
96	193.74	122.98	Shut-In(2)
218	1246.13	121.78	End Shut-In(2)
219	2062.14	121.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
342.00	GOCM - 30M - 40o - 30G	4.51
93.00	Free Oil - 100 Oil	1.30

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61021

DST#: 5

ATTN: Chris Micheal

Test Start: 2014.12.11 @ 01:15:00

GENERAL INFORMATION:

Formation: **Lans. - 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:16:30

Time Test Ended: 10:52:45

Test Type: Conventional Straddle (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: **4087.00 ft (KB) To 4171.00 ft (KB) (TVD)**

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6753 Fluid

Press@RunDepth: psig @ 4063.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.11

End Date: 2014.12.11

Last Calib.: 2014.12.11

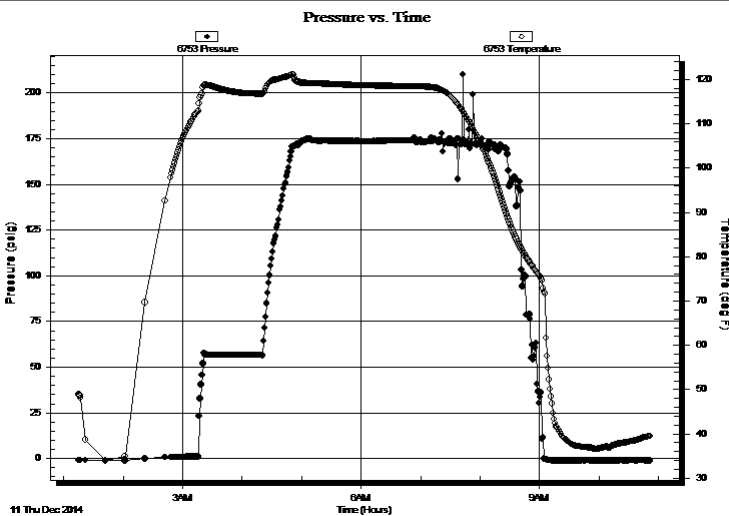
Start Time: 01:15:05

End Time: 10:52:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 4 mins.
60 - ISI - A faint Return started in 30 mins. and stayed
30 - FF - Surface blow built to bottom of the bucket in 3 mins.
120 - FSI - Return started in a min and built to 6 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
342.00	GOCM - 30M - 40o - 30G	4.51
93.00	Free Oil - 100 Oil	1.30

Gas Rates

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



DRILL STEM TEST REPORT

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61021

DST#: 5

ATTN: Chris Micheal

Test Start: 2014.12.11 @ 01:15:00

GENERAL INFORMATION:

Formation: **Lans. - 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:16:30

Time Test Ended: 10:52:45

Test Type: Conventional Straddle (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: **4087.00 ft (KB) To 4171.00 ft (KB) (TVD)**

Reference Elevations: 2903.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8960 Below (Straddle)

Press@RunDepth: psig @ 4192.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.11 End Date: 2014.12.11

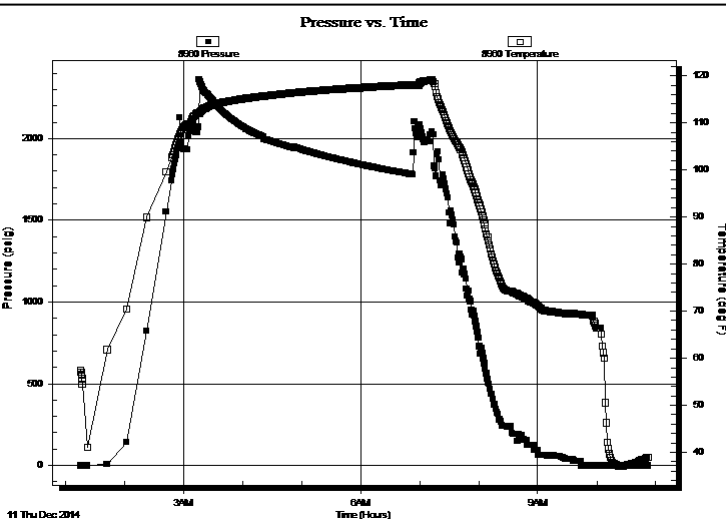
Last Calib.: 2014.12.11

Start Time: 01:15:05 End Time: 10:52:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF - Surface blow built to bottom of the bucket in 4 mins.
60 - ISI - A faint Return started in 30 mins. and stayed
30 - FF - Surface blow built to bottom of the bucket in 3 mins.
120 - FSI - Return started in a min and built to 6 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
342.00	GOCM - 30M - 40o - 30G	4.51
93.00	Free Oil - 100 Oil	1.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. and Associates, Inc.

6-10S-29W

1515 Wynkoop, Ste 700
Denver Co. 80202

Baalman

Job Ticket: 61021

DST#: 5

ATTN: Chris Micheal

Test Start: 2014.12.11 @ 01:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
342.00	GOCM - 30M - 40o - 30G	4.510
93.00	Free Oil - 100 Oil	1.305

Total Length: 435.00 ft

Total Volume: 5.815 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

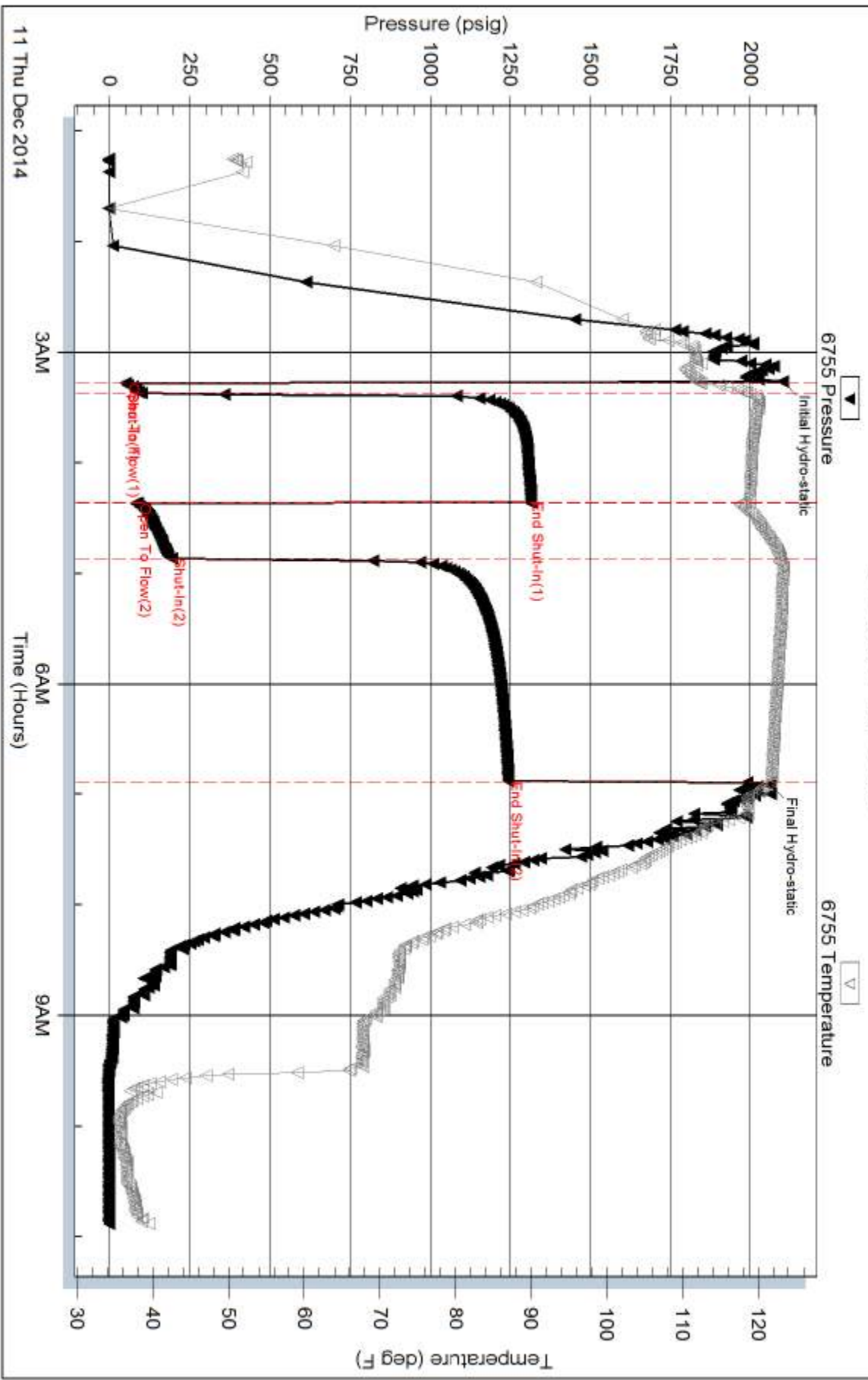
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



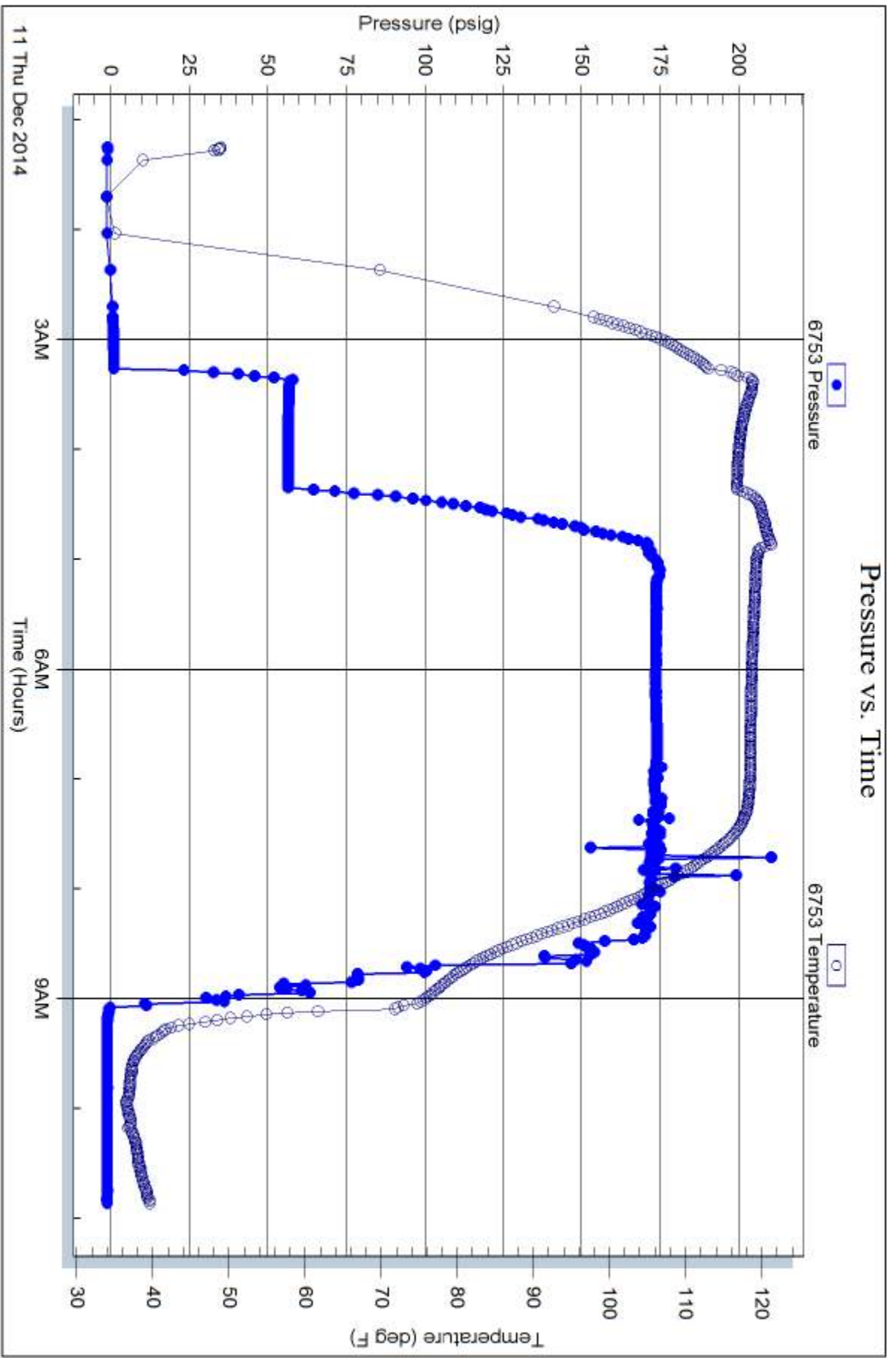
Serial #: 6753

Fluid

Sam Gary, Jr. and Associates, Inc.

Baahnan

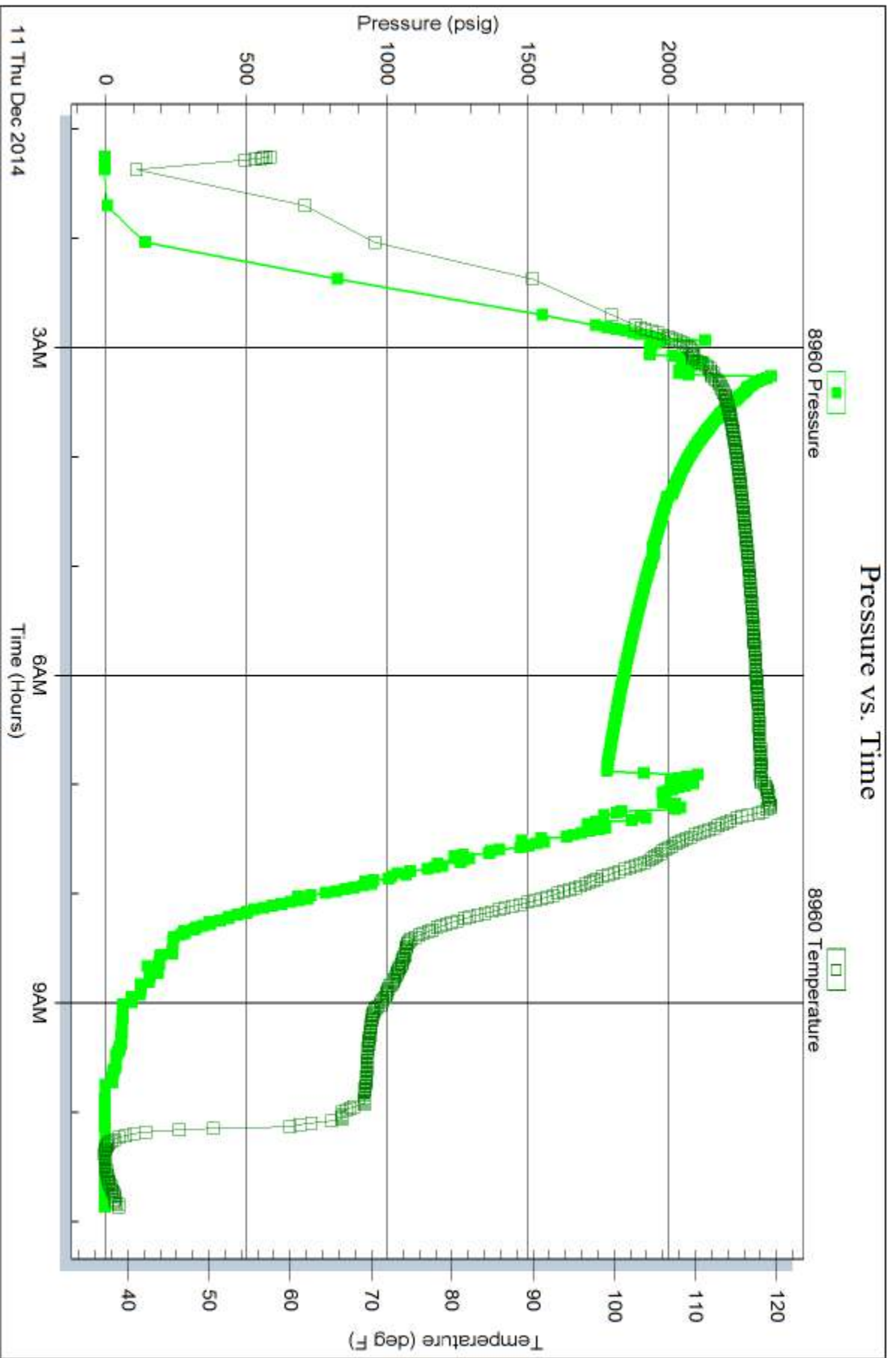
DST Test Number: 5

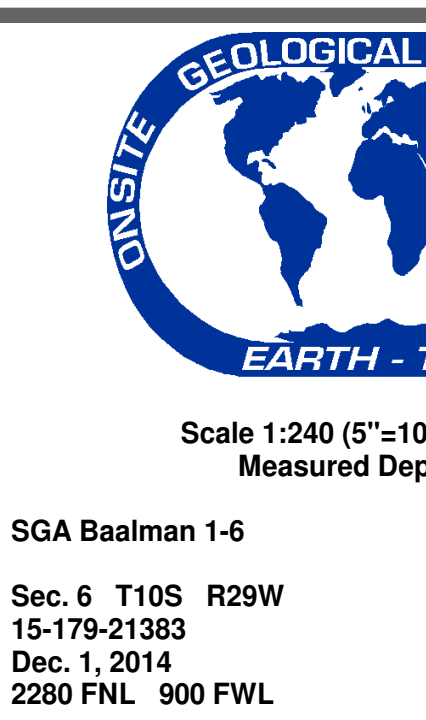


Trilobite Testing, Inc

Ref. No: 61021

Printed: 2014, 12, 11 @ 12:03:16





Scale 1:240 (5"-100') Imperial Measured Depth Log

Well Name: SGA Balman 1-6
Location: Sec. 6 T10S R29W
License Number: 15-179-21383
Spud Date: Dec. 1, 2014
Surface Coordinates: 2290 FHL 963 FWL
Bottom Hole Coordinates: 2985' 3685' K.B. Elevation (ft): 2903'
Ground Elevation (ft): 2985' To: 4595' Total Depth (ft): 4595'
Logged Interval (ft): 2985' To: 4595'
Formation: Lansing / Kansas City
Type of Drilling Fluid: Natural / Chemical
Completed: Wildcat Dec. 10, 2014

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Winkop Street, Suite 700
Denver CO, 80202
Geo: Chris Mitchell

GEOLOGIST

Name: Jeff Kamps
Company: EARTH TECH OGL, Inc.
Address: PO Box 683, 8918 5th St, Great Bend, KS, 67530
Phone: 1-580-652-3944, 1-888-543-8378

DRILL STEM TEST REPORT
GENERAL INFORMATION: Formation: Toronto & Lams - A, Deviated: No, Time Test Started: 09:15:30, Interval: 3945.00 ft (963) To 3950.00 ft (963) (TV), Hole Diameter: 7.88 inches (200 mm) Condition: Good. TEST COMMENT: 5 - F - Surface Blow built to bottom of bucket in 2.12 min.

DRILL STEM TEST REPORT
GENERAL INFORMATION: Formation: Lams - W, Deviated: No, Time Test Started: 09:15:30, Interval: 4020.00 ft (963) To 4025.00 ft (963) (TV), Hole Diameter: 7.88 inches (200 mm) Condition: Good. TEST COMMENT: 5 - F - Surface Blow built to bottom of bucket in 3.12 min.

DRILL STEM TEST REPORT
GENERAL INFORMATION: Formation: Lams - W, Deviated: No, Time Test Started: 09:15:30, Interval: 4025.00 ft (963) To 4030.00 ft (963) (TV), Hole Diameter: 7.88 inches (200 mm) Condition: Good. TEST COMMENT: 5 - F - Surface Blow built to 5'.

DRILL STEM TEST REPORT
GENERAL INFORMATION: Formation: Lams - W, Deviated: No, Time Test Started: 10:14:45, Interval: 4175.00 ft (963) To 4180.00 ft (963) (TV), Hole Diameter: 7.88 inches (200 mm) Condition: Good. TEST COMMENT: 5 - F - Surface Blow built to 13'.

DRILL STEM TEST REPORT
GENERAL INFORMATION: Formation: Lams - W, Deviated: No, Time Test Started: 10:14:45, Interval: 4175.00 ft (963) To 4180.00 ft (963) (TV), Hole Diameter: 7.88 inches (200 mm) Condition: Good. TEST COMMENT: 5 - F - Surface Blow built to 9'.

DRILL STEM TEST REPORT
GENERAL INFORMATION: Formation: Lams - W, Deviated: No, Time Test Started: 10:14:45, Interval: 4175.00 ft (963) To 4180.00 ft (963) (TV), Hole Diameter: 7.88 inches (200 mm) Condition: Good. TEST COMMENT: 5 - F - Surface Blow built to 13'.

ROCK TYPES, ACCESSORIES, MINERAL, POROSITY TYPE, OTHER SYMBOLS, INTERVALS, EVENTS. Includes legends for rock types (Anhy, Bent, Brec, etc.), accessories (Salt, Amph, Clay, etc.), mineral (Anhy, Arggrn, etc.), porosity type (Earthy, Fenest, etc.), other symbols (Angular, Oil Shows, etc.), intervals (Core, Dest, etc.), and events (Rt, Sidewall).



LOGGING TO: 4595'
ELECTRONIC LOGGING COMPLETED BY: WEAVERFORD
LOG COMPLETED BY: JEFF KAMPS
SAMPLES WILL BE DELIVERED TO KOS
THANK YOU FOR CHOOSING EARTH TECH