15-009-25458 18-16s-11w 3610

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Abarta Oil&Gas Co.**

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

18-16s-11w Barton,KS

Hoffman #1

Start Date: 2010.08.03 @ 23:06:13
End Date: 2010.08.04 @ 04:55:07
Job Ticket #: 36818 DST #: 1

KCC
OCT 11 2010
CONFIDENTIAL

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
OCT 13 2010
KCC WICHITA

Abarta Oil&Gas Co. Hoffman #1 18-16s-11w Barton,KS DST # 1 Arbuckle 2010.08.03

DRILL STEM TEST REPORT

Abarta Oil&Gas Co.

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

Hoffman #1

18-16s-11w Barton,KS

Job Ticket: 36818 **DST#: 1**

Test Start: 2010.08.03 @ 23:06:13

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:46:08
Time Test Ended: 04:55:07

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47

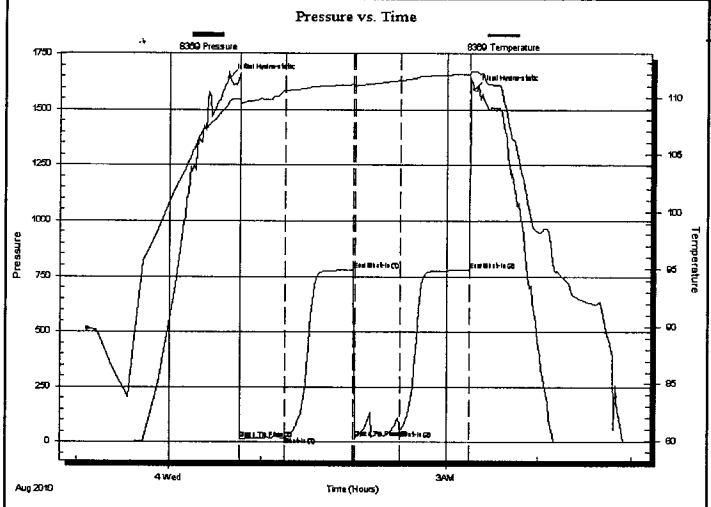
Interval: 3312.00 ft (KB) To 3344.00 ft (KB) (TVD)
Total Depth: 3344.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1904.00 ft (KB)
1899.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 52.68 psig @ 3316.00 ft (KB)
Start Date: 2010.08.03 End Date: 2010.08.04
Start Time: 23:06:13 End Time: 04:55:07

Capacity: 8000.00 psig
Last Calib.: 2010.08.04
Time On Btm: 2010.08.04 @ 00:39:08
Time Off Btm: 2010.08.04 @ 03:17:38

TEST COMMENT: IF-1.25in blow
ISI-No blow
FF-.25in blow died back to very weak surface blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.39	109.66	Initial Hydro-static
7	14.49	109.41	Open To Flow (1)
36	21.80	110.54	Shut-In(1)
81	777.69	111.11	End Shut-In(1)
82	20.93	110.96	Open To Flow (2)
111	52.68	111.45	Shut-In(2)
156	777.52	111.99	End Shut-In(2)
159	1593.05	112.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSOCM 5%O 95%M	0.63

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abarta Oil&Gas Co.

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

Hoffman #1

18-16s-11w Barton,KS

Job Ticket: 36818 **DST#: 1**

Test Start: 2010.08.03 @ 23:06:13

Tool Information

Drill Pipe:	Length:	3310.00 ft	Diameter:	3.80 inches	Volume:	46.43 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	40000.00 lb
					Total Volume:	46.43 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	33000.00 lb
Depth to Top Packer:		3312.00 ft					Final	33000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		32.00 ft						
Tool Length:		52.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3293.00		
Shut In Tool	5.00			3298.00		
Hydraulic tool	5.00			3303.00		
Packer	4.00			3307.00	20.00	Bottom Of Top Packer
Packer	5.00			3312.00		
Stubb	1.00			3313.00		
Perforations	3.00			3316.00		
Recorder	0.00	6719	Inside	3316.00		
Recorder	0.00	8369	Outside	3316.00		
Perforations	25.00			3341.00		
Bullnose	3.00			3344.00	32.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Abarta Oil&Gas Co.

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

Hoffman #1

18-16s-11w Barton,KS

Job Ticket: 36818 **DST#: 1**

Test Start: 2010.08.03 @ 23:06:13

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

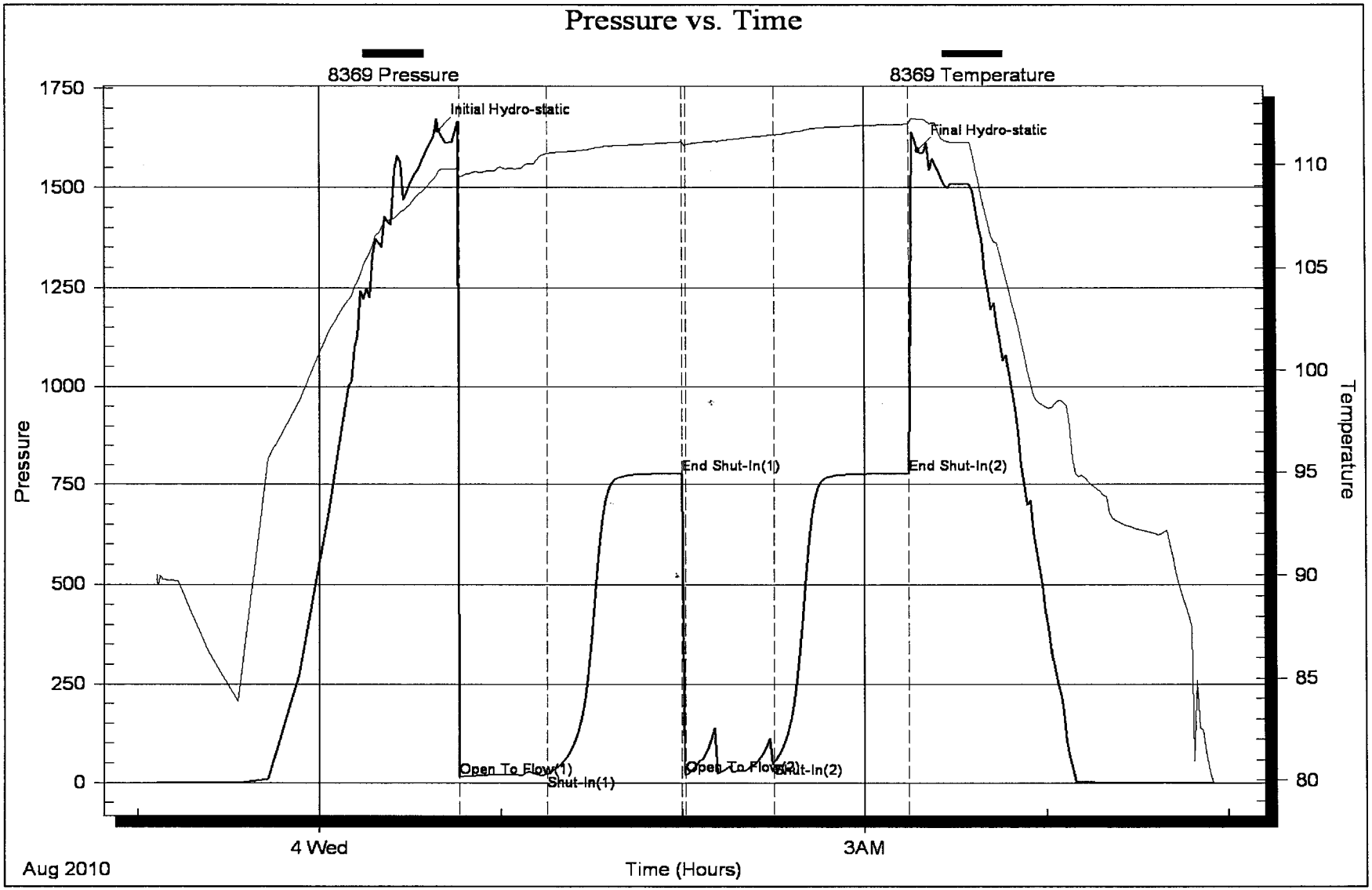
Length ft	Description	Volume bbl
45.00	VSOCM 5%O 95%M	0.631

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:


Pressure vs. Time
8369 Pressure
8369 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
80
Pressure
Temperature
4 Wed
3AM
Aug 2010
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Abarta Oil&Gas Co.**

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

18-16s-11w Barton,KS

Hoffman #1

Start Date: 2010.08.04 @ 09:19:50
End Date: 2010.08.04 @ 14:54:44
Job Ticket #: 36819 DST #: 2

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2010.08.12 @ 09:02:50 Page 1

DRILL STEM TEST REPORT

Abarta Oil&Gas Co.

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

Hoffman #1

18-16s-11w Barton,KS

Job Ticket: 36819 **DST#: 2**

Test Start: 2010.08.04 @ 09:19:50

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:49:45
Time Test Ended: 14:54:44

Test Type: Conventional Bottom Hole
Tester: Brett Dickinson
Unit No: 47

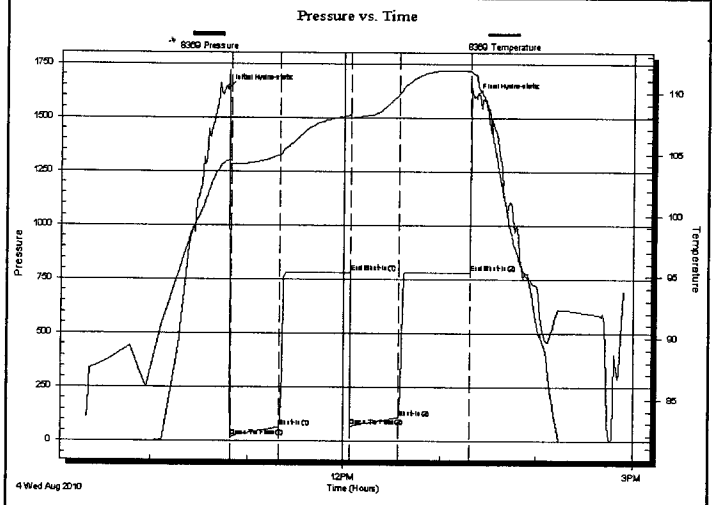
Interval: 3311.00 ft (KB) To 3350.00 ft (KB) (TVD)
Total Depth: 3350.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1904.00 ft (KB)
1899.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 64.89 psig @ 3322.00 ft (KB)
Start Date: 2010.08.04 End Date: 2010.08.04
Start Time: 09:19:50 End Time: 14:54:44

Capacity: 8000.00 psig
Last Calib.: 2010.08.04
Time On Btm: 2010.08.04 @ 10:47:15
Time Off Btm: 2010.08.04 @ 13:21:15

TEST COMMENT: IF-7in blow
ISI-No blow
FF-5.5in blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.51	104.43	Initial Hydro-static
3	21.43	104.20	Open To Flow (1)
33	64.89	104.96	Shut-In(1)
77	783.04	108.17	End Shut-In(1)
77	68.77	107.89	Open To Flow (2)
107	109.69	109.89	Shut-In(2)
151	782.48	111.76	End Shut-In(2)
154	1595.93	111.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Free Oil	0.01
129.00	WCM 30%W 70%M	1.81
60.00	MCW 30%M 70%W	0.84

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Abarta Oil&Gas Co.

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

Hoffman #1

18-16s-11w Barton,KS

Job Ticket: 36819 **DST#: 2**

Test Start: 2010.08.04 @ 09:19:50

Tool Information

Drill Pipe:	Length:	3310.00 ft	Diameter:	3.80 inches	Volume:	46.43 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	35000.00 lb
					Total Volume:	46.43 bbl	Tool Chased	ft
Drill Pipe Above KB:		19.00 ft					String Weight: Initial	34000.00 lb
Depth to Top Packer:		3311.00 ft					Final	35000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		39.00 ft						
Tool Length:		59.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3292.00		
Shut In Tool	5.00			3297.00		
Hydraulic tool	5.00			3302.00		
Packer	4.00			3306.00	20.00	Bottom Of Top Packer
Packer	5.00			3311.00		
Stubb	1.00			3312.00		
Perforations	10.00			3322.00		
Recorder	0.00	6719	Inside	3322.00		
Recorder	0.00	8369	Outside	3322.00		
Perforations	25.00			3347.00		
Bullnose	3.00			3350.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Abarta Oil&Gas Co.

1000 GammaDr Ste 400
Pittsburgh PA 15238

ATTN: Scott Alberg

Hoffman #1

18-16s-11w Barton,KS

Job Ticket: 36819 **DST#: 2**

Test Start: 2010.08.04 @ 09:19:50

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

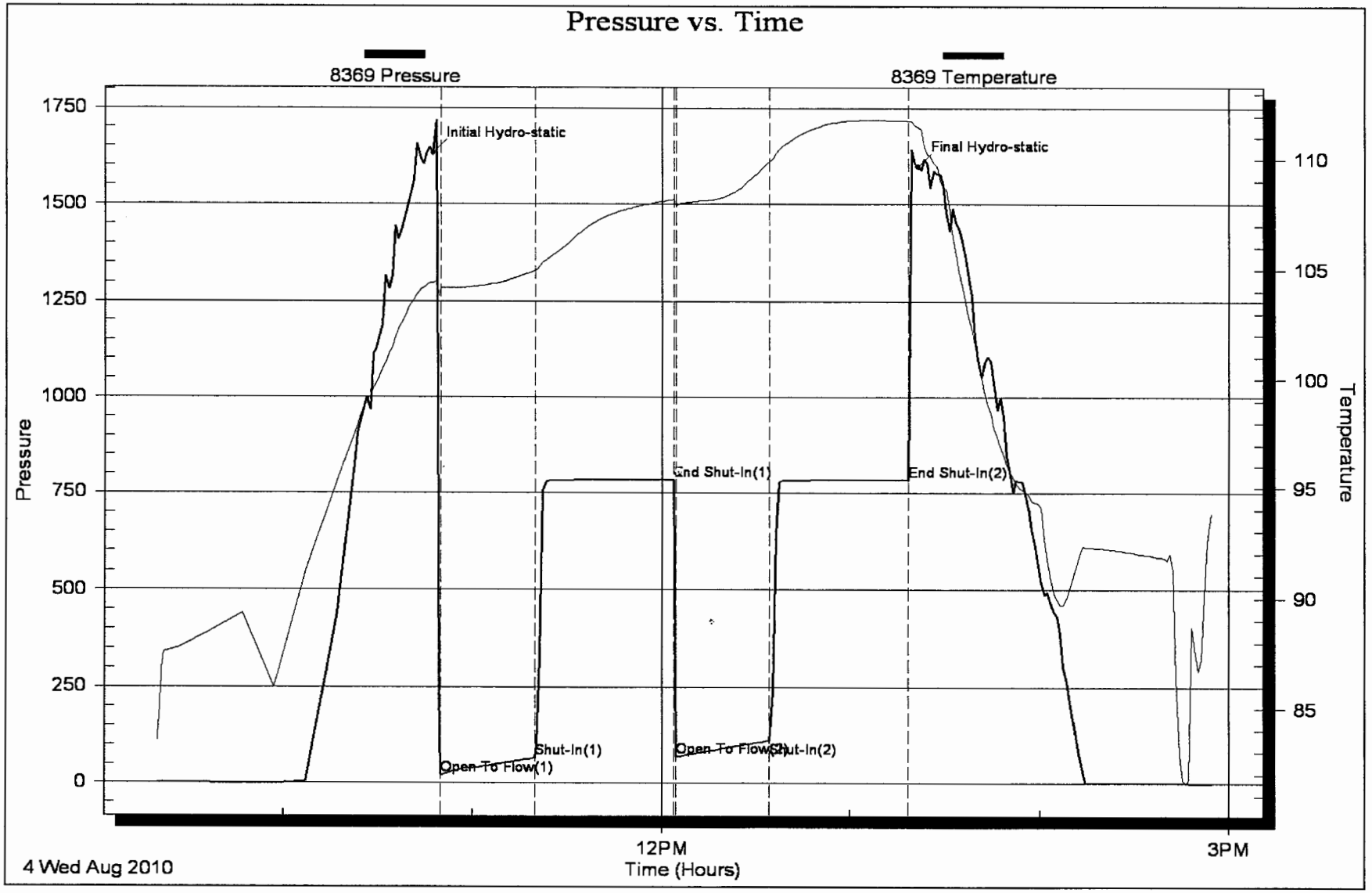
Length ft	Description	Volume bbl
1.00	Free Oil	0.014
129.00	WCM 30%W 70%M	1.810
60.00	MCW 30%M 70%W	0.842

Total Length: 190.00 ft Total Volume: 2.666 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8369 Pressure
8369 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
105
100
95
90
85
12PM
3PM
Time (Hours)
4 Wed Aug 2010

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

JAN 31 2011

Test Ticket

NO. 041830 5348

4/10

Well Name & No. Hoffman #2 Test No. 1 Date 1-26-11

Company Abarta Oil & Gas Co., Inc. Elevation 1885 KB 1878 GL

Address 1000 Gamma Dr. Ste. #400 Pittsburgh, PA 15238

Co. Rep / Geo. Josh Austin Rig Royal Rig #2

Location: Sec. 18 Twp. 16S Rge. 11W Co. Barton State KS

Interval Tested 3172-3242 Zone Tested LKC "H, I, & J"

Anchor Length 70' Drill Pipe Run 3173 Mud Wt. 9.1

Top Packer Depth 3167 Drill Collars Run 0 Vis 48

Bottom Packer Depth 3172 Wt. Pipe Run 0 WL 12.0

Total Depth 3242 Chlorides 4000 ppm System LCM 1.5#

Blow Description IF- Strong building blow, BOB in 3 minutes.
ISI- No Return.
FF- Strong building blow, BOB in 1 minute. GTS@51
FSI- Return @ 10 seconds. Built to 2 inches. Died to 1¼.

Rec 124	Feet of Gassy Muddy Oil	40 %gas	30 %oil	%water	30 %mud
Rec 201	Feet of Gassy Muddy Oil	30 %gas	50 %oil	%water	20 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of 3150' G.I.P.	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 325 BHT 101 Gravity ✓ API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1557	☑ Test 1125	T-On Location 1715
(B) First Initial Flow 16	☐ Jars	T-Started 1800
(C) First Final Flow 83	☐ Safety Joint	T-Open 1938
(D) Initial Shut-In 688	☐ Circ Sub	T-Pulled 2010
(E) Second Initial Flow 110	☐ Hourly Standby	T-Out 0015
(F) Second Final Flow 141	☑ Mileage 60X2 150	Comments
(G) Final Shut-In 670	☐ Sampler	
(H) Final Hydrostatic 1522	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 125
Final Shut-In 45	☐ Accessibility	MP/DST Disc't
	Sub Total 1275	

Approved By Our Representative D. Rose

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601 JAN 31 2011

4/10

Test Ticket

NO. 041831

Well Name & No. Hoffman #2 Test No. 2 Date 1-27-11

Company ABarta Oil & Gas Co. Inc. Elevation 1885 KB 1878 GL

Address 1000 Gamma Dr. Ste. #400 Pittsburgh, PA 15238

Co. Rep / Geo. Josh Austin Rig Royal Rig #2

Location: Sec. 18 Twp. 16S Rge. 11W Co. Barton State KS

Interval Tested 3290-3318 Zone Tested Arbuckle

Anchor Length 28 Drill Pipe Run 3297 Mud Wt. 9.2

Top Packer Depth 3285 Drill Collars Run 0 Vis 56

Bottom Packer Depth 3290 Wt. Pipe Run 0 WL 8.8

Total Depth 3318 Chlorides 3800 ppm System LCM 1.5#

Blow Description IF-Strong building blow. BOB in 45 seconds,
ISI-Return @ 10 seconds. Built to BOB in 2 minutes. GTS,
FF-Strong building blow. BOB in 1 minute 15 seconds. GTS, ISI
FSI-Return @ 10 seconds. Built to BOB in 2 minutes,

Rec	1508	Feet of	Gassy O.C.	65	%gas	35	%oil	%water	%mud
Rec	156	Feet of	O/G/W/M	20	%gas	70	%oil	5 %water	5 %mud
Rec	30	Feet of	W/O/G/M	20	%gas	20	%oil	50 %water	10 %mud
Rec		Feet of			%gas		%oil	%water	%mud
Rec		Feet of	1603' G.I.P.		%gas		%oil	%water	%mud

Rec Total 1694 BHT 113 Gravity 39 API RW .188 @ 59 °F Chlorides 45,000 ppm

(A) Initial Hydrostatic 1635
(B) First Initial Flow 107
(C) First Final Flow 440
(D) Initial Shut-In 787
(E) Second Initial Flow 428
(F) Second Final Flow 622
(G) Final Shut-In 786
(H) Final Hydrostatic 1596

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 30

- ☑ Test 1125
- ☐ Jars
- ☐ Safety Joint
- ☐ Circ Sub
- ☐ Hourly Standby
- ☑ Mileage 60x2 150
- ☐ Sampler
- ☐ Straddle
- ☐ Shale Packer
- ☐ Extra Packer
- ☐ Extra Recorder
- ☐ Day Standby
- ☐ Accessibility

Sub Total 1275

T-On Location 0945
T-Started 1020
T-Open 1154
T-Pulled 1355
T-Out 1645

Comments

- ☐ Ruined Shale Packer
- ☐ Ruined Packer
- ☐ Extra Copies

Sub Total 0
Total 1275
MP/DST Disc't

Approved By Our Representative D. Rush

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.