

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

RECEIVED

ORIGINAL

SEP 09 2010

Form ACO-1  
October 2008  
Form Must Be Typed

KCC WICHITA

9/8/10

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33924  
Name: ABARTA Oil & Gas Co., Inc.  
Address 1: 1000 Gamma Drive, Ste. 400  
Address 2: \_\_\_\_\_  
City: Pittsburgh State: PA Zip: 15238 + \_\_\_\_\_  
Contact Person: Kenneth J. Fleeman  
Phone: ( 412 ) 963-6443  
CONTRACTOR: License # 33905  
Name: Royal Drilling, Inc.  
Wellsite Geologist: James C. Musgrove  
Purchaser: NCRA

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  
 Gas  ENHR  SIGW  
 CM (Coal Bed Methane)  Temp. Abd.  
 Dry  Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, 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: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Docket No.: \_\_\_\_\_  
 Dual Completion Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?)<sup>o</sup> Docket No.: \_\_\_\_\_  
6/16/10 6/22/10 6/22/10  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 167-23613-0000  
Spot Description: \_\_\_\_\_  
SE SW SW Sec. 33 Twp. 15 S. R. 13  East  West  
330 Feet from  North /  South Line of Section  
990 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Russell  
Lease Name: Sellens Well #: 2  
Field Name: Trapp  
Producing Formation: Arbuckle  
Elevation: Ground: 1895 Kelly Bushing: 1900  
Total Depth: 3441 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 876 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 ATINY 9-2710  
(Data must be collected from the Reserve Pit)  
Chloride content: 53,000 ppm Fluid volume: 1,000 bbls  
Dewatering method used: Allow to dry and backfill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]  
Title: Production Analyst Date: 9/8/10  
Commonwealth of Pennsylvania County of Allegheny  
Subscribed and sworn to before me this 8th day of September  
20 10  
Notary Public: [Signature]  
Date Commission Expires: 5/16/13

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Tracey G. Mulert, Notary Public  
O'Hara Twp., Allegheny County  
My Commission Expires May 16, 2013  
Member, Pennsylvania Association of Notaries

KCC Office Use ONLY  
 Letter of Confidentiality Received 9/8/10 - 9/8/10  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1  
October 2008  
Form Must Be Typed

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

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 Contact Person: Kenneth J. Fleeman  
 Phone: ( 412 ) 963-6443  
 CONTRACTOR: License # 33905  
 Name: Royal Drilling, Inc.  
 Wellsite Geologist: James C. Musgrove  
 Purchaser: NCRA

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 Oil    \_\_\_\_\_ SWD    \_\_\_\_\_ SLOW  
 \_\_\_\_\_ Gas    \_\_\_\_\_ ENHR    \_\_\_\_\_ SIGW  
 \_\_\_\_\_ CM (Coal Bed Methane)    \_\_\_\_\_ Temp. Abd.  
 \_\_\_\_\_ Dry    \_\_\_\_\_ Other \_\_\_\_\_  
 (Core, WSW, Expl., Cathodic, etc.)

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 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 \_\_\_\_\_ Deepening    \_\_\_\_\_ Re-perf.    \_\_\_\_\_ Conv. to Enhr.    \_\_\_\_\_ Conv. to SWD  
 \_\_\_\_\_ Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 \_\_\_\_\_ Commingled    Docket No.: \_\_\_\_\_  
 \_\_\_\_\_ Dual Completion    Docket No.: \_\_\_\_\_  
 \_\_\_\_\_ Other (SWD or Enhr.?)    Docket No.: \_\_\_\_\_  
6/16/10    6/22/10    6/22/10  
 Spud Date or    Date Reached TD    Completion Date or  
 Recompletion Date       Recompletion Date

API No. 15 - 167-23613  
 Spot Description: \_\_\_\_\_  
 \_\_\_\_\_ SE SW SW Sec. 33 Twp. 15 S. R. 13  East  West  
330 Feet from  North /  South Line of Section  
990 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Russell  
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 Field Name: Trapp  
 Producing Formation: Arbuckle  
 Elevation: Ground: 1895 Kelly Bushing: 1900  
 Total Depth: 3441 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at: 876 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: 53,000 ppm Fluid volume: 1,000 bbls  
 Dewatering method used: Allow to dry and backfill  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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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.

Signature: \_\_\_\_\_  
 Title: Production Analyst Date: 9/8/10  
 Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
 20\_\_\_\_\_.  
 Notary Public: \_\_\_\_\_  
 Date Commission Expires: \_\_\_\_\_

KCC Office Use ONLY	
_____ Letter of Confidentiality Received	
_____ If Denied, Yes <input type="checkbox"/> Date: _____	
_____ Wireline Log Received	
_____ Geologist Report Received	
_____ UIC Distribution	

Side Two

KCC

SEP 06 2010

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Operator Name: ABARTA Oil & Gas Co., Inc. Lease Name: Sellens Well #: 2  
 Sec. 33 Twp. 15 S. R. 13  East  West County: Russell

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	869	+1031
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Base Anhydrite	900	+1000
List All E. Logs Run:		Topeka	2771	-871
<b>Dual Induction, Compensated Density, Compensated Neutron, Porosity, Microresistivity, and Sonic</b>		Heebner	3001	-1101
		Toronto	3017	-1117
		Douglas	3032	-1132
		Continued - See Attached		

CASING RECORD <input checked="" 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
Surface	12 1/4	8 5/8	23#	876	Class A	320	2% CC 3% Gel
Production	7 7/8	5 1/2	15#	3440	Class A	100	2% CC 3% Gel
						100	60/40 Poz Mix

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3335-3339	8 32GR Expendable Shots	3335-3339

TUBING RECORD:	Size: <u>2 7/8</u>	Set At: <u>3322</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>7</u>	Gas Mcf <u>0</u>	Water Bbls. <u>100</u>	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 ACC-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3334-3441</u>
---	---	--

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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<u>Name</u>	<u>Top</u>	<u>Datum</u>
Lansing	3075	-1175
Base Kansas City	3315	-1415
Arbuckle	3334	-1434

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SEP 08 2010  
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KCC WICHITA

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

Home Office P.O. Box 32 Russell, KS 67865

No. 4048

Date	6-22-10	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	5000	Well No.	2	Location	Russell	14S 34E		9:45 PM
Contractor	Capital Drilling Rig 2	Owner	To Quality Oilwell Cementing, Inc.					
Type Job	Production	We hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Hole Size	7	T.D.	3440	Charge To	Abarka Oil Gas			
Csg.	15.500	Depth	3409	Street				
Tbg. Size		Depth		City	State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.	13.68	Shoe Joint	13.68	Cement Amount Ordered	100 Com	100 60lb		
Meas. Line		Displace	80 3/4 Bbl	500 Gal Mud (Loss - 48)				
EQUIPMENT				Common 160				
Pumptrk	5	No.	Cementer	Poz. Mix 40				
			Helper	Gel. KCC				
Bulktrk	2	No.	Driver	Calcium SEP 10 2010				
			Driver	Hulls CONFIDENTIAL				
Bulktrk	8	No.	Driver	Salt				
			Driver	Flowseal				
JOB SERVICES & REMARKS				Koi-Seal				
Remarks:	RECEIVED							
Rat. Hole	30 in	SEP 09 2010						
Mouse Hole	15 in	KCC WICHITA						
Centralizers								
Baskets	Mud CLR 48 500 Gal							
D/V. or. Pert. Collar	CFL-117 or CD110 CAF 38							
	Sand							
	Handling							
	Mileage							
	FLOAT EQUIPMENT							
	Guide Shoe 1							
	Centralizer 2							
	Baskets 2							
	AFU Inserts 1							
	Float Shoe							
	Latch Down							
	Pumptrk Charge							
	Mileage							
	Tax							
	Discount							
	Total Charge							
X Signature	Dennis Borden							

*Handwritten signature*

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# QUALITY OILWELL CEMENTING, INC.

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

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

No. 4126

Russell

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-17-10	33	15	13	Russell	KS		11:15 AM
Lease	Well No.		Location				
Sevens	2		Russell 370 CL 3rd 4 E. and N FUTO				
Contractor				Owner			
Royal Drilling #2				To Quality Oilwell Cementing, Inc.			
Type Job				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Long surface							
Hole Size		T.D.		Charge To			
12 1/4		876		Abama oil & Gas Co			
Csg.		Depth		Street			
8 5/8 (2316)		876					
Tbg. Size		Depth		City			
				State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
22C							
Cement Left In Csg.		Shoe Joint		Cement Amount Ordered			
<del>2266</del>				320.00m 35cc 23gel			
Meas Line		Displace					
		54 1/4 bbls					

**EQUIPMENT**

Pumptrk	No.	Cement Helper	Common
5		Brandon	
Bulktrk	No.	Driver	Poz: Mix
10		DAVE	
Bulktrk	No.	Driver	Gel.
A1		CISCO	

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage
	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage

Cement Did Cfg. 00

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FLOAT EQUIPMENT KCC WICHITA

Quality Oilwell Cementing

Cementing

X Signature *[Signature]*

Tax  
Discount  
Total Charge

**JAMES C. MUSGROVE**

Petroleum Geologist  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Abarta Oil & Gas Company Inc.  
Sellens #2  
330' FSL & 990' FWL (SE-SW-SW); Section 33-15s-13w  
Russell County, Kansas  
Page 1

**5 1/2" Production Casing**

<b>Contractor:</b>	Royal Drilling Company (Rig #1)	KCC
<b>Commenced:</b>	June 16, 2010	SEP 08 2010
<b>Completed:</b>	June 22, 2010	CONFIDENTIAL
<b>Elevation:</b>	1900' K.B.; 1898' G.L.; 1895' G.L.	RECEIVED
<b>Casing program:</b>	Surface; 8/58" @ 876' Production; 5 1/2" @ 3440'	SEP 09 2010
<b>Sample:</b>	Samples saved and examined 2700' to the Rotary Total Depth.	KCC WICHITA
<b>Drilling time:</b>	One (1) foot drilling time recorded and kept 2700 ft to the Rotary Total Depth.	
<b>Measurements:</b>	All depths measured from the Kelly Bushing.	
<b>Formation Testing:</b>	There were three (3) Drill Stem Tests ran by Trilobite Testing Co.	
<b>Electric Log:</b>	By Superior Well Services; Dual Induction Log, Compensated Density Log, Compensated Neutron Log, Porosity Log, Microresistivity Log and Sonic Log.	

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	869	+1031
Base Anhydrite	900	+1000
Topeka	2771	-871
Heebner	3001	-1101
Toronto	3017	-1117
Douglas	3032	-1132
Lansing	3075	-1175
Base Kansas City	3315	-1415
Arbuckle	3334	-1434
Rotary Total Depth	3440	-1540
Log Total Depth	3441	-1541

(All tops and zones corrected to Electric Log measurements).

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TOPEKA SECTION**

2899-2910'	Limestone; gray, white, slightly fossiliferous, few oolitic, chalky, no shows.
2928-2936'	Limestone; tan, finely crystalline, chalky, fossiliferous in part, trace tan and gray chert (few dolomitic).

2945-2960' Limestone; gray, white, sub oomoldic, chalky, trace brown stain, no show of free oil and no odor in fresh samples.

2960-2977' Limestone; as above, chalky, poor edge staining, no show of free oil and no odor in fresh samples.

**TORONTO SECTION**

3017-3030' Limestone; tan, gray, chalky, scattered pinpoint porosity, light brown stain, weak show of free oil and questionable odor samples broken.

**LANSING SECTION**

3075-3082' Limestone; tan, white, finely crystalline, slightly fossiliferous, chalky, questionable stain.

3085-3091' Limestone; white and brown, finely crystalline, slightly fossiliferous, chalky, questionable stain, no show of free oil and no odor in fresh samples.

3098-3111' Limestone; cream, white, oomoldic, good oomoldic porosity, light brown and golden brown stain, show of free oil and fair to good odor in fresh samples.

**Drill Stem Test #1 3080-3110'**

Misrun – plugged tool, slid 18' to bottom.

**Drill Stem Test #2 3080-3110'**

Times: 30-45-60-60

Blow: Weak

Recovery: 55' mud

Pressures: ISIP 696 psi  
 FSIP 690 psi  
 IFP 12-22 psi  
 FFP 25-36 psi  
 HSH 1482-1467 psi

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3111-3127' Limestone; as above.

3127-3137' Limestone; white and gray, chalky, no shows.

3148-3154' Limestone; white/gray, finely crystalline, scattered pinpoint and fine vuggy porosity, spotty stain, weak show of free oil and questionable odor in fresh samples.

3170-3190' Limestone; cream, white, oomoldic, good oomoldic porosity, trace stain, no show of free oil and no odor in fresh samples.

3230-3240' Limestone; white and cream, oolitic, sub oomoldic, chalky, trace light brown stain, no show of free oil and questionable odor in fresh samples.



- 3250-3255' Limestone; white and gray, oolitic, chalky, poor visible porosity, no shows and questionable odor in fresh samples.
- 3264-3274' Limestone; as above, questionable brown stain, no show of free oil and no odor in fresh samples, plus trace white chert.
- 3300-3310' Limestone; white and cream/gray, chalky, few fossiliferous, no shows.

**ARBUCKLE SECTION**

- 3335-3340' Dolomite; cream, white, medium and coarse crystalline, scattered porosity, light brown and golden brown stain, show of free oil and faint to fair odor in fresh samples.
- 3340-3342' Dolomite; as above, fair stain and saturation, show of free oil and faint to good odor in fresh samples.

**Drill Stem Test #3 3314-3342'**

**Times: 30-30-30-45**

**Blow: Strong**

**Recovery: 140' gassy mud and water cut oil  
 (20% gas, 50% oil, 25% water, 5% mud)  
 1120' heavy oil and gas cut muddy water  
 (35% gas, 35% oil, 25% water, 5% mud)  
 300' muddy water**

**Pressures: ISIP 1104 psi  
 FSIP 1105 psi  
 IFP 104-434 psi  
 FFP 422-684 psi  
 HSH 1630-1604 psi**

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- 3342-3360' Dolomite; white, coarse crystalline, good intercrystalline porosity, brown and light brown stain, show of free oil and good odor in fresh samples.
- 3360-3370' Dolomite; as above, few sandy, trace glauconite.
- 3370-3385' Dolomite; as above, good porosity, spotty stain, weak show of free oil and faint odor in fresh samples.
- 3385-3400' Dolomite; white/cream, sandy, trace iron pyrite, scattered porosity (barren).
- 3400-3420' Dolomite; gray and white, medium and coarse crystalline, fair to good intercrystalline and vuggy porosity, trace glauconitic (barren).
- 3420-3441' Dolomite; white, fine and medium crystalline, highly sandy, trace pink sandy, dolomite, no shows.

**Rotary Total Depth 3440 (-1540)  
 Log Total Depth 3441 (-1541)**

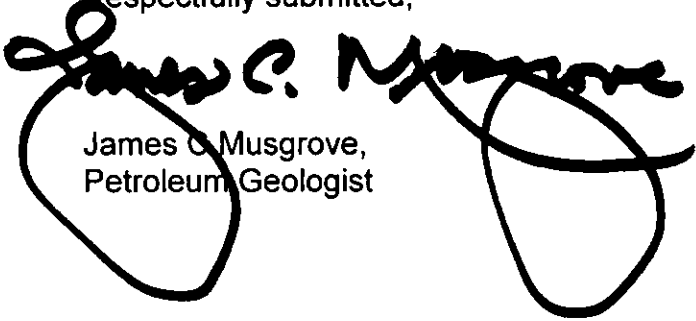
Abarta Oil & Gas Company Inc.  
Sellens #2  
330' FSL & 990' FWL (SE-SW-SW); Section 33-15s-13w  
Russell County, Kansas  
Page 4

**Recommendations:**

5 1/2" production casing was set and cemented at 3440' (one foot off bottom), and the following zones should be tested in the Sellens #2.

- 1) Arbuckle 3335-3339 perforate
- 2) Lansing 3098-3108 perforate

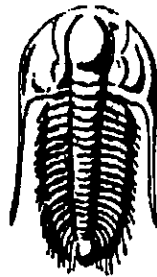
Respectfully submitted;



James C. Musgrove,  
Petroleum Geologist



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**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

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

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238

ATTN: Jim Musgrove

**13-15s13w Russell KS**

**Sellens #2**

Start Date: 2010.06.20 @ 09:30:57

End Date: 2010.06.20 @ 13:11:57

Job Ticket #: 38648                      DST #: 1

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

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Abarta Oil & Gas Co., Inc.

Sellens #2

13-15s13w Russell KS

DST # 1

Lansing "A-B"

2010.06.20





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abarta Oil & Gas Co., Inc.

**Sellens #2**

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**13-15s13w Russell KS**  
Job Ticket: 38648      DST#: 1  
Test Start: 2010.06.20 @ 09:30:57

### Tool Information

Drill Pipe:	Length: 3062.00 ft	Diameter: 3.80 inches	Volume: 42.95 bbl	Tool Weight: 2000.00 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: 60000.00 lb
			<u>Total Volume: 42.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3080.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	53.00 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			3058.00	
Shut In Tool	5.00			3063.00	
Hydraulic tool	5.00			3068.00	
Safety Joint	2.00			3070.00	
Packer	5.00			3075.00	23.00      Bottom Of Top Packer
Packer	5.00			3080.00	
Stubb	1.00			3081.00	
Perforations	1.00			3082.00	
Recorder	0.00	6755	Inside	3082.00	
Recorder	0.00	8360	Outside	3082.00	
Perforations	25.00			3107.00	
Bullnose	3.00			3110.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Abarta Oil & Gas Co., Inc.

**Sellens #2**

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**13-15s13w Russell KS**  
Job Ticket: 38648      **DST#: 1**  
Test Start: 2010.06.20 @ 09:30:57

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 44.00 sec/qt  
Water Loss: 8.28 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: ppm

**Recovery Information**

Recovery Table

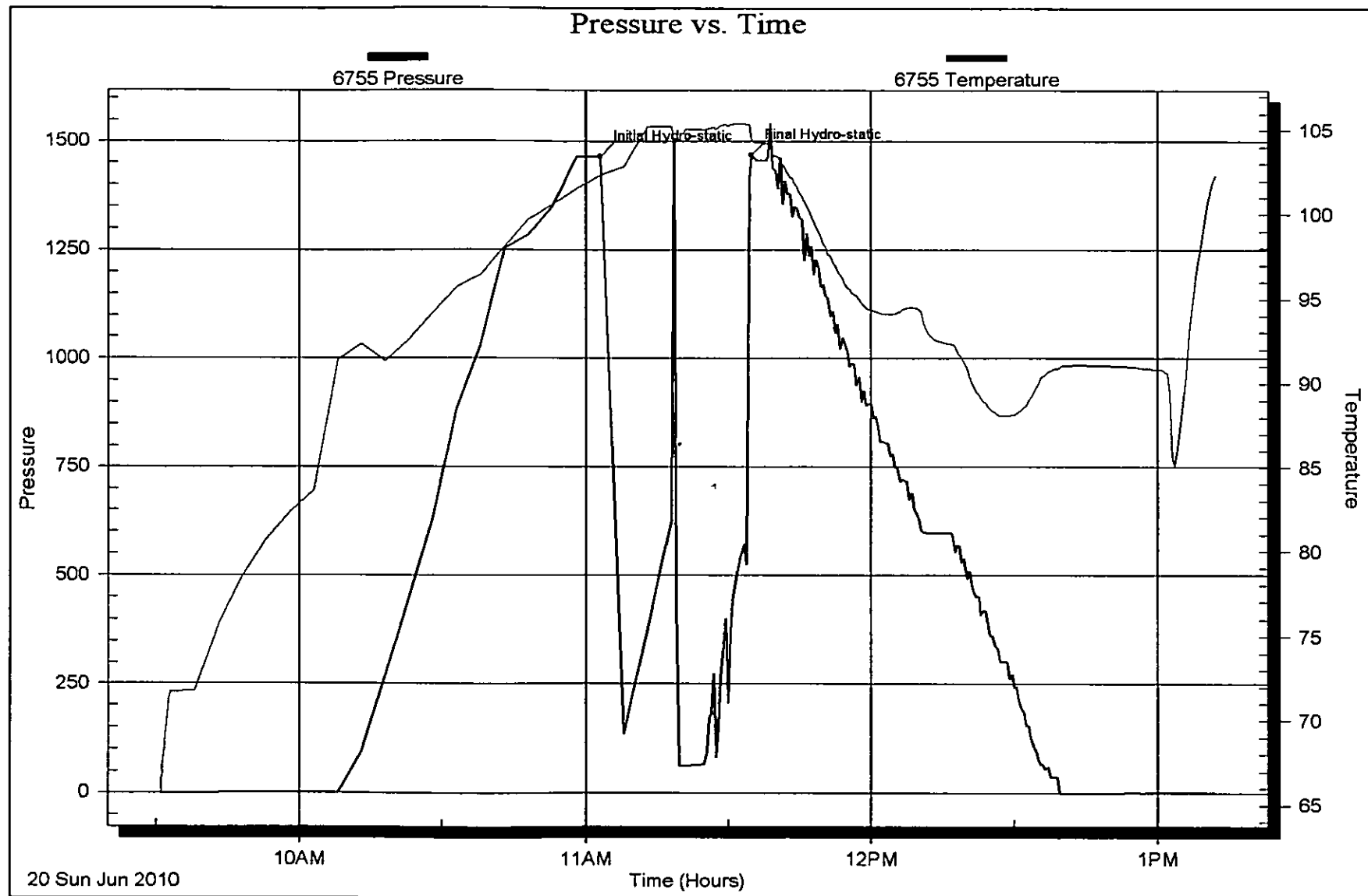
Length ft	Description	Volume bbl
105.00	Drilling Mud	1.473

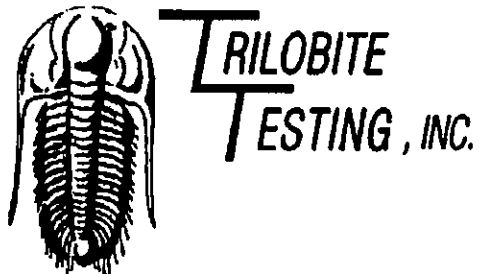
Total Length: 105.00 ft      Total Volume: 1.473 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

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

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238

ATTN: Jim Musgrove

**13-15s13w Russell KS**

**Sellens #2**

Start Date: 2010.06.20 @ 17:00:06

End Date: 2010.06.20 @ 22:48:06

Job Ticket #: 38649                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Abarta Oil & Gas Co.,Inc.

Sellens #2

13-15s13w Russell KS

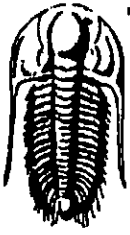
DST # 2

Lansing "A-B"

2010.06.20







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abarta Oil & Gas Co., Inc.

**Sellens #2**

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**13-15s13w Russell KS**

Job Ticket: 38649

DST#: 2

Test Start: 2010.06.20 @ 17:00:06

### Tool Information

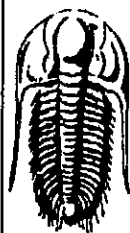
Drill Pipe:	Length: 3062.00 ft	Diameter: 3.80 inches	Volume: 42.95 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 35000.00 lb
		Total Volume: 42.95 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	3080.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3058.00	
Shut In Tool	5.00			3063.00	
Hydraulic tool	5.00			3068.00	
Safety Joint	2.00			3070.00	
Packer	5.00			3075.00	23.00 Bottom Of Top Packer
Packer	5.00			3080.00	
Stubb	1.00			3081.00	
Perforations	1.00			3082.00	
Recorder	0.00	6755	Inside	3082.00	
Recorder	0.00	8360	Outside	3082.00	
Perforations	25.00			3107.00	
Bullnose	3.00			3110.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Abarta Oil & Gas Co., Inc.

**Sellens #2**

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**13-15s13w Russell KS**  
Job Ticket: 38649      **DST#: 2**  
Test Start: 2010.06.20 @ 17:00:06

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 8.58 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

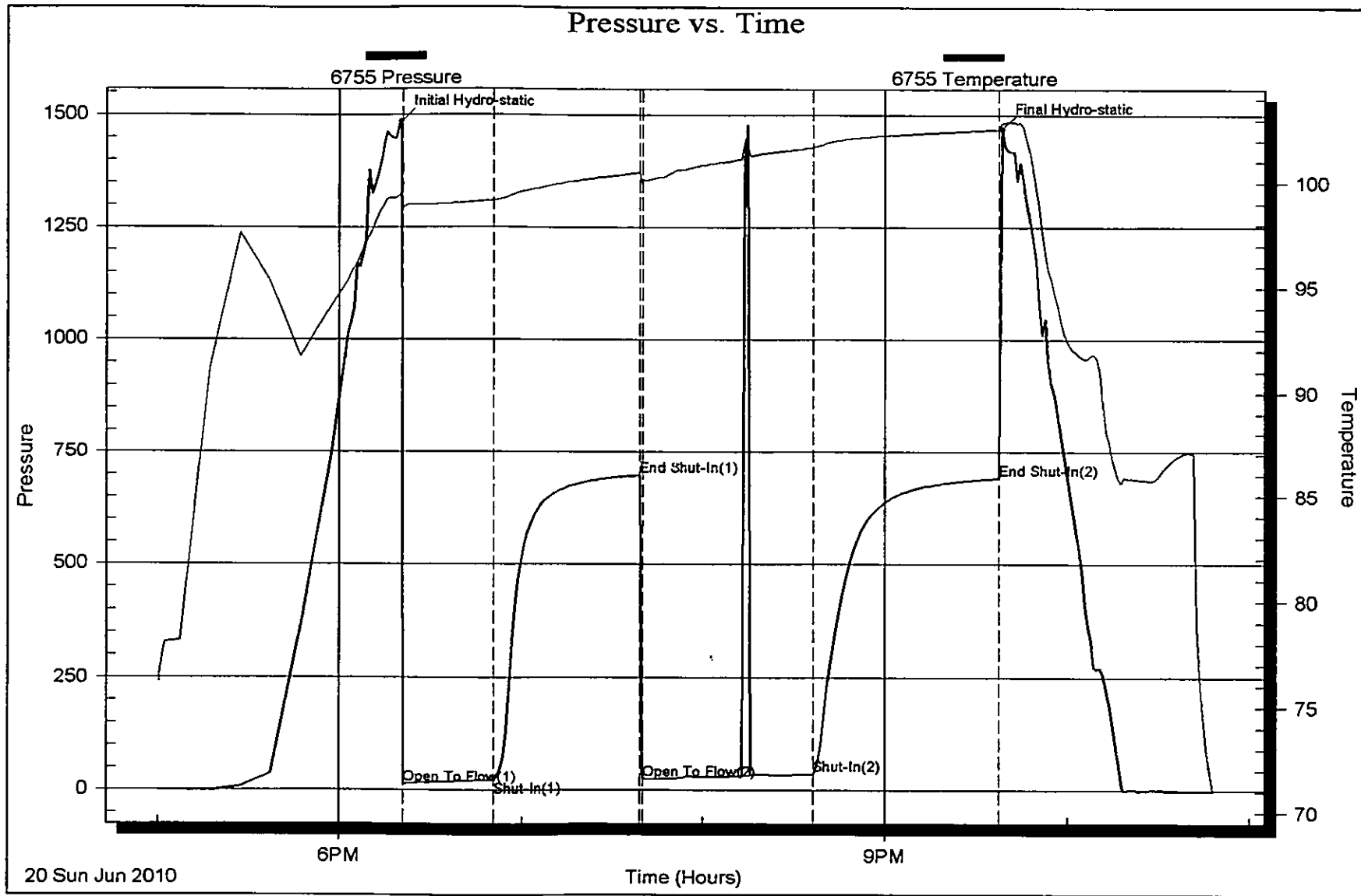
Length ft	Description	Volume bbl
55.00	Drilling Mud	0.772

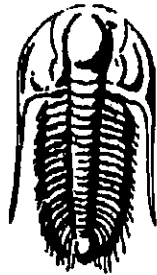
Total Length: 55.00 ft      Total Volume: 0.772 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238

ATTN: Jim Musgrove

**13-15s13w Russell KS**

**Sellens #2**

Start Date: 2010.06.21 @ 17:56:57

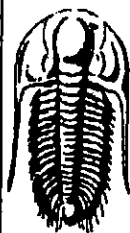
End Date: 2010.06.22 @ 00:19:27

Job Ticket #: 38650                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Abarta Oil & Gas Co., Inc.

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**Sellens #2**

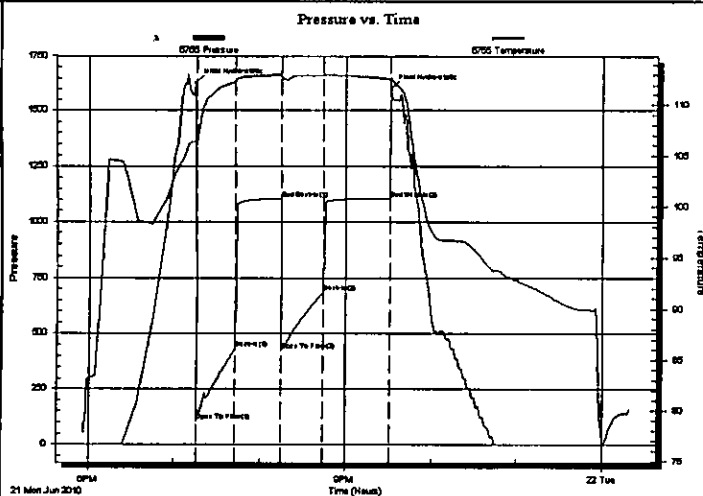
**13-15s13w Russell KS**  
Job Ticket: 38650      DST#: 3  
Test Start: 2010.06.21 @ 17:56:57

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No Whipstock**      ft (KB)  
Test Type: **Conventional Bottom Hole**  
Time Tool Opened: 19:15:27  
Tester: **Jason McLemore**  
Time Test Ended: 00:19:27  
Unit No: **32**  
Interval: **3314.00 ft (KB) To 3342.00 ft (KB) (TVD)**  
Reference Elevations: **1900.00 ft (KB)**  
Total Depth: **3342.00 ft (KB) (TVD)**  
**1895.00 ft (CF)**  
Hole Diameter: **7.80 inches** Hole Condition: **Good**  
KB to GR/CF: **5.00 ft**

**Serial #: 6755**      Inside  
Press@RunDepth: **684.36 psig @ 3318.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2010.06.21**      End Date: **2010.06.22**      Last Calib.: **2010.06.21**  
Start Time: **17:56:59**      End Time: **00:19:27**      Time On Btm: **2010.06.21 @ 19:14:27**  
Time Off Btm: **2010.06.21 @ 21:31:57**

**TEST COMMENT:** IFF-Strong, BOB in 2 Mn.  
ISI-Dead  
FFP-Strong, BOB in 2 Mn.  
FSI-Surface Blow back



### PRESSURE SUMMARY

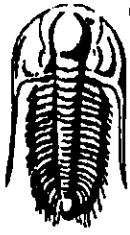
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.19	106.47	Initial Hydro-static
1	104.06	106.07	Open To Flow (1)
28	433.95	112.31	Shut-In (1)
60	1104.21	113.00	End Shut-In (1)
61	422.34	112.72	Open To Flow (2)
90	684.36	112.89	Shut-In (2)
137	1104.82	112.57	End Shut-In (2)
138	1604.07	112.61	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
140.00	GMWCO-20%G-50%O-25%W-5%M	1.96
1120.00	GHOCMW-35%G-35%O-25%W-5%M	15.71
300.00	Muddy Water-95%W-5%M	4.21

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Abarta Oil & Gas Co., Inc.

**Sellens #2**

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**13-15s13w Russell KS**  
Job Ticket: 38650      DST#: 3  
Test Start: 2010.06.21 @ 17:56:57

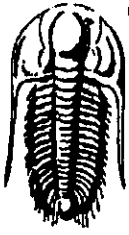
**Tool Information**

Drill Pipe:	Length: 3311.00 ft	Diameter: 3.80 inches	Volume: 46.44 bbl	Tool Weight: 2000.00 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: 50000.00 lb
			<u>Total Volume: 46.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3314.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 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			3294.00	
Shut In Tool	5.00			3299.00	
Hydraulic tool	5.00			3304.00	
Packer	5.00			3309.00	" 21.00 Bottom Of Top Packer
Packer	5.00			3314.00	"
Stubb	3.00			3317.00	
Perforations	1.00			3318.00	
Recorder	0.00	6755	Inside	3318.00	
Recorder	0.00	8360	Outside	3318.00	
Perforations	23.00			3341.00	
Bullnose	3.00			3344.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Abarta Oil & Gas Co., Inc.

**Sellens #2**

1000 Gamma Drive  
Suite 400  
Pittsburg, PA 15238  
ATTN: Jim Musgrove

**13-15s13w Russell KS**  
Job Ticket: 38650      **DST#: 3**  
Test Start: 2010.06.21 @ 17:56:57

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 48.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 ppm  
Filter Cake: inches

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

Oil API: deg API  
Water Salinity: 29000 ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
140.00	GM/WCO-20%G-50%O-25%W-5%M	1.964
1120.00	GHOC/MW-35%G-35%O-25%W-5%M	15.711
300.00	Muddy Water-95%W-5%M	4.208

Total Length: 1560.00 ft      Total Volume: 21.883 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .195 @ 82F = 29000 chlorides



