

1-24-09

Form ACO-1  
September 1999  
Form Must Be Typed

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

CONFIDENTIAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 3882  
 Name: SAMUEL GARY JR. & ASSOCIATES, INC.  
 Address: 1670 BROADWAY, SUITE 3300  
 City/State/Zip: DENVER, CO 80202-4838  
 Purchaser: GARY-WILLIAMS ENERGY CORPORATION  
 Operator Contact Person: TOM FERTAL  
 Phone: (303) 831-4673  
 Contractor: Name: EXCELL SERVICES INC.  
 License: 8273  
 Wellsite Geologist: JUSTIN CARTER  
 Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Temp Abd.  
 Gas  ENHR  SIGW  
 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./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_  
 9/30/2006 10/7/2006 1/18/2007  
 Spud Date or Date Reached TD Completion Date or  
 Recompletion Date Recompletion Date

API No. 15 - 15-159-22496-0000  
 County: RICE  
 SW NW SE Sec. 33 Twp. 18 S. R. 10  East  West  
1680 feet from SOUTH Line of Section  
2400 feet from EAST Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE  SE NW SW  
 Lease Name: SITTNER ET AL-RINGWALD Well #: 1-33  
 Field Name: WILDCAT  
 Producing Formation: ARBUCKLE  
 Elevation: Ground: 1733' Kelly Bushing: 1739'  
 Total Depth: 3390' Plug Back Total Depth: 3353'  
 Amount of Surface Pipe Set and Cemented at 339 Feet  
 Multiple State Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from \_\_\_\_\_  
 feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

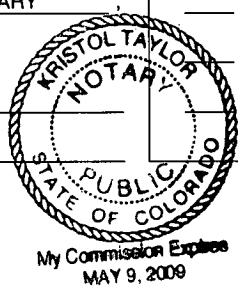
Drilling Fluid Management Plan ALT INH 9-12-08  
 (Data must be collected from the Reserve Pit)  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used \_\_\_\_\_  
 Location of fluid disposal if hauled off site: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: JAN 25 2007  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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 KANSAS CORPORATION COMMISSION  
 JAN 25 2007  
 CONSERVATION DIVISION  
 WICHITA, KS

**INSTRUCTIONS:** An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 South 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 on 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: Thomas Fertal  
 Title: SR. GEOLOGIST Date: 1/24/2007  
 Subscribed and sworn to before me this 24 TH day of JANUARY  
2007  
 Notary Public: Kristal Taylor  
 Date Commission Expires: \_\_\_\_\_



KCC Office Use ONLY  
 Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: SAMUEL GARY JR & ASSOCIATES, INC. Lease Name: SITTNER ET AL-RINGWALD Well #: 1-33  
 Sec. 33 Twp. 18 S. R. 10  East  West County: RICE

**INSTRUCTIONS:** Show important tops and base of formation penetrated. Detail all cores. Report all final copes of drill stem 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 geologist 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
Sample 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	TOPEKA	2534'	-795'
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HEEBNER	2800'	-1061'
List All E. Logs Run:	DUAL INDUCTION	DOUGLAS	2830'	-1091'
	DENSITY - NEUTRON	BRN LIME	2921'	-1182'
	SONIC LOG	LANSING	2947'	-1208'
	MICROLOG	ARBUCKLE	3298'	-1559'
		TD	3390'	

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CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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"	28	339'	CLASS A	175	2% GEL & 3% CC
PRODUCTION	7-7/8"	5-1/2"	15.5	3388'	60/40 POZ CLASS AA2	25 100	5#/SK GILSONITE, 1/4#/SK CELLFLAKE

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<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 JSPF	3303-05, 3307-09, 3312-15, 3318-20		300 GALS 28% DOUBLE FE	

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**WICHITA, KS**

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	3345'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr.	Producing Method				
1/18/07	<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	25	0	0		

Disposition of Gas:  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: 3303 - 20 OA

*If vented, submit ACO-18.)*

Quality Oilwell Cementing Inc.

845 E Wichita

P.O. Box 32

Russell, KS 67665

V58386

# Invoice

Date	Invoice #
10/2/2006	119

<b>Bill To</b>
Samuel Gary Jr & Associates Inc 1670 Broadway Suite 3300 Denver Co. 80202

## RECEIVED

OCT 04 2006

SAMUEL GARY JR.  
& ASSOCIATES, INC.

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
175	common		
3	GEL	10.60	1,855.00T
6	Calcium	16.50	49.50T
184	handling	45.00	270.00T
9,568	.08 * 184 sacks * 52 miles	1.90	349.60
1	8 5/8 wooden plug	0.08	765.44
1	surface pipes 0-500ft	69.00	69.00T
52	pump truck mileage charge	775.00	775.00
439	discount 10% if paid within 30 days	5.00	260.00
	LEASE: SITTNER ETAL WELL #RINGWALD 1-33	-1.00	-439.00
	Sales Tax Rice	6.30%	141.34

DPLG  COMP  W/O  LOE

AFE # 133

ACCT # 135/60

APPROVED BY GRA 10/4/06

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JAN 25 2007

CONSERVATION DIVISION  
WICHITA, KS

Thank you for your business. Dave

**Total**

\$4,095.88

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# [Redacted]

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

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

No. 1267

Date	9-30-06	Sec.	33	Twp.	18	Range	10	Called Out		On Location		Job Start		Finish	
Lease	Sittler ET AL		Well No.	Ringwald 1-33		Location	C10-11-7E 65 1/2 W 4 N			County	Rice	State	KS		
Contractor	Excel Service Ry 10							Owner	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	Excel Service Ry 10						
Hole Size	12 1/4		T.D.	349		Depth	339		Street						
Csg.	6 1/2		Depth	KCC		Street									
Tbg. Size			Depth	JAN 24 2007		City	State								
Drill Pipe			Depth	CONFIDENTIAL		The above was done to satisfaction and supervision of owner agent or contractor.									
Tool			Shoe Joint												
Cement Left in Csg.			Minimum												
Press Max.			Displace	28 & 20 1/2 BBH											
Meas Line			CEMENT												
Perf.			Amount Ordered 175 com 3% cc 2% gal												
EQUIPMENT			Consisting of												
Pumptrk	1	No. Cementer Helper	Dane		Common		175 @ 10 <sup>00</sup>	1855 <sup>00</sup>							
Bulktrk	2	No. Driver	Dan		Poz. Mix			49.50							
Bulktrk		No. Driver			Gel.		3 @ 16 <sup>00</sup>	<del>48</del>							
JOB SERVICES & REMARKS			Chloride		6 @ 45 <sup>00</sup>	270 <sup>00</sup>									
Pumptrk Charge			Surface 300 ft		775 <sup>00</sup>										
Mileage			52 @ 5 <sup>00</sup>		260 <sup>00</sup>										
Footage															
Total					1035 <sup>00</sup>										
Remarks:															
							Sales Tax								
							Handling		184 @ 19 <sup>00</sup>	349 <sup>00</sup>					
							Mileage		84 per sk per mile	765 <sup>00</sup>					
							Sub Total		4392 <sup>00</sup>						
							Total								
							Floating Equipment & Plugs		FR 00000000	69 <sup>00</sup>					
							Squeeze Manifold								
							Rotating Head								
							RECEIVED								
							KANSAS CORPORATION COMMISSION								
							JAN 25 2007								
							CONSERVATION DIVISION								
							WICHITA, KS								
X Signature							Tax		141.34						
							Discount		439.00						
							Total Charge		<del>580.34</del>						



**SALES OFFICE:**  
 100 S. Main  
 Suite #607  
 Wichita, Ks. 67202  
 316-262-3699  
 316-262-5799 FAX

**SALES & SERVICE OFFICE:**  
 10244 NE. Hwy 61  
 P.O. Box 8613  
 Pratt, Ks. 67124-8613  
 620-672-1201  
 620-672-5383 FAX

**SALES & SERVICE OFFICE:**  
 1700 S. Country Estates Rd.  
 P.O. Box 129  
 Liberal, Ks. 67905-0129  
 620-624-2277  
 620-624-2280 FAX

**Invoice**

V58296

<b>Bill to:</b> Samuel Gary Jr. & Associates 1670 Broadway Suite 3300 Denver, CO 80202-4838	7740000	<b>Invoice</b>	<b>Invoice Date</b>	<b>Order</b>	<b>Station</b>
		610051	10/8/06	14186	Pratt
<b>Service Description</b>					
<b>Cement</b>					
		<b>Lease</b>	<b>Well</b>	<b>Well Type</b>	
		Sittner, Etal-Ringwald	1-33	New Well	
		<b>AFE</b>	<b>PO</b>	<b>Terms</b>	
				Net 30	
<b>CustomerRep</b>		<b>Treater</b>			
Chuck		Kevin Gordley			

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ID.	Description	UOM	Quantity	Unit Price	Price
D205	AA2 (COMMON)	SK	100	\$15.90	\$1,590.00 (T)
D203	60/40 POZ (COMMON)	SK	50	\$10.30	\$515.00 (T)
C194	CELLFLAKE	LB	26	\$3.70	\$96.20 (T)
C195	FLA-322	LB	76	\$7.50	\$570.00 (T)
C221	SALT (Fine)	GAL	470	\$0.25	\$117.50 (T)
C243	DEFOAMER	LB	24	\$3.45	\$82.80 (T)
C244	CEMENT FRICTION REDUCER	LB	29	\$6.00	\$174.00 (T)
C321	GILSONITE	LB	499	\$0.67	\$334.33 (T)
C141	CC-1, KCL SUBSTITUTE	GAL	7	\$44.00	\$308.00 (T)
C304	SUPER FLUSH II	GAL	1000	\$1.53	\$1,530.00 (T)
F101	TURBOLIZER, 5 1/2"	EA	6	\$74.20	\$445.20 (T)
F121	BASKET, 5 1/2"	EA	2	\$237.50	\$475.00 (T)
F171	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1	\$250.00	\$250.00 (T)
F211	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1	\$320.00	\$320.00 (T)
F131	STOP COLLAR, 5 1/2"	EA	3	\$25.00	\$75.00 (T)
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	130	\$5.00	\$650.00
E101	CAR, PICKUP OR VAN MILEAGE - 1 WAY	MI	65	\$3.00	\$195.00
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	445	\$1.60	\$712.00
E107	CEMENT SERVICE CHARGE	SK	150	\$1.50	\$225.00
R207	CASING CEMENT PUMPER, 3001-3500' 1ST 4 HRS ON LOC	EA	1	\$1,596.00	\$1,596.00
R701	CEMENT HEAD RENTAL	EA	1	\$250.00	\$250.00
S100	FUEL SURCHARGE		1	\$110.37	\$110.37

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 OCT 12 2006  
 SAMUEL GARY JR.  
 & ASSOCIATES, INC.

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 KANSAS CORPORATION COMMISSION

DRLG  COMP  W/O  LOE  
 AFE # 133  
 ACCT # 135/60  
 APPROVED BY BRD 10/17/06

JAN 25 2007  
 CONSERVATION DIVISION  
 WICHITA, KS

**Sub Total:** \$10,621.40  
**Discount:** \$1,681.43  
**Discount Sub Total:** \$8,939.97  
**Taxes:** \$364.98  
**Total:** \$9,304.95

Rice County & State Tax Rate: 6.30%  
 (T) Taxable Item

**PLEASE REMIT TO Acid Services, LLC, Dept No 1131, Tulsa, OK 74182**

Accounts are past due net 30 days following the date of invoice. Finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts. Customer agrees not to withhold payment of any invoice, or assert any right of offset, recoupment or any other defense to payment of any invoice, on account of any right that you may now or hereafter have to payment from us, except for claims arising out of such invoice because of defects in the specific services described in such invoice. Additionally, you hereby waive any right that you may have under any state, federal or other law to assert

ELLINWOOD - 8E TO RAYMOND RD. - 6N - 1/2W - N INTO



**FIELD ORDER** 14186

Subject to Correction

Date <b>10-8-06</b>	Customer ID	Lease <b>SITNER ET AL RINGWAD 135</b>	Well # <b>135</b>	Legal <b>33-18-20</b>
STANUEL GARY JR. & ASSOC.		County <b>RICE</b>	State <b>Ks.</b>	Station <b>PRATT, Ks</b>
Depth		Formation		Shoe Joint <b>31"</b>
Casing <b>5 1/2</b>		Casing Depth <b>3389'</b>	TD <b>3390'</b>	Job Type <b>LONGSTRONG-NU</b>
Customer Representative <b>Chuck</b>			Treater <b>K. GORDLEY</b>	

AFE Number	PO Number	Materials Received by <b>X</b>	
------------	-----------	--------------------------------	--

Station Code	Product Code	QUANTITY	MATERIALS, EQUIPMENT, and SERVICES USED	UNIT PRICE	AMOUNT
P	D205	100 SK.	AAZ CEMENT		
P	D203	50 SK.	60/40 P02		
P	C194	26 lb.	CELL FLAKE		
P	C195	76 lb.	FLA-322		
P	C221	470 lb.	SIAT		
P	C243	24 lb.	DEFORMER		
P	C244	29 lb.	CFR		
P	C321	499 lb.	GILSONITE		
P	C141	7 gal.	CC-1		
P	C304	1000 gal.	SUPERPLUSH II		
P	F101	6 EA.	5 1/2 TURBOLIZER		
P	F121	2 EA.	5 1/2 BASKET		
P	F171	1 EA.	5 1/2 LATCH DOWN PLUG		
P	F211	1 EA.	5 1/2 FLOAT SHOE		
P	F131	3 EA.	5 1/2 STOP COLLAR		
P	E100	130 mile	TRUCK MILEAGE		
P	E101	65 mile	PICKUP MILEAGE		
P	E104	445 TM	BULK DELIVERY		
P	E107	150 SK	CEMENT SERVICE CHARGE		
P	R207	1 EA.	PUMP CHARGE		
P	R701	1 EA.	CEMENT HEAD		

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Good Job!  
Thank You



**TREATMENT REPORT**

Customer: SAM BARD JR & ASSOC Lease No. \_\_\_\_\_ Date: 10-8-06  
 Lease: SITTNER ET AL KING WARD # 1-33 Well #: \_\_\_\_\_  
 Field Order #: 14786 Station: PRATT, KS Casing: 5 1/2 Depth: 3389' County: RICE State: KS  
 Type Job: LONG STRING - NW Formation: TD-3390' Legal Description: 33-18-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>5 1/2</u>	Tubing Size	Shots/Ft		Acid <u>25 SK. 60/40 P02</u>	RATE	PRESS	ISIP	
Depth <u>3389</u>	Depth	From	To	Pressure <u>100 SK. AAZ</u>			5 Min.	
Volume	Volume	From	To	Prod <u>15.4 PPG</u>	Min		10 Min.	
Max Press	Max Press	From	To	Frac <u>1.36 #37/SK</u>	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To	<u>5.6 H2O/SK</u>	HHF Used		Annulus Pressure	
Plug Depth <u>3358</u>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

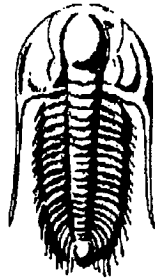
Customer Representative: CHUCK Station Manager: SCOTTY Treater: GORDIEY

Service Units	<u>120</u>	<u>226</u>	<u>303</u>	<u>571</u>				
Driver Names	<u>KG</u>	<u>ROBERT</u>	<u>KEVIN</u>	<u>MCGRAW</u>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>0630</u>					<u>ON LOCATION 82</u>
					<u>RUN 3389' 5 1/2' CSG. 88 JTS.</u>
					<u>FLOW SHOE, LATCH BAFFLE 1ST COLLAR</u>
					<u>CENT. - MID 1 - 1 - 2 - 3 - 4 - 5</u>
					<u>BRISLET - TOP #2 - TOP #5</u>
<u>1010</u>					<u>TAG BOTTOM - DROP BALL - BREAK CORE</u>
					<u>RECIPROCATING CASING</u>
<u>1115</u>	<u>200</u>		<u>24</u>	<u>5</u>	<u>PUMP 24 bbl SUPERFLUSH</u>
	<u>200</u>		<u>3</u>	<u>5</u>	<u>PUMP 3 bbl H2O</u>
	<u>200</u>		<u>9</u>	<u>5</u>	<u>MIX 25 SK. SCAVENGER CEMENT</u>
	<u>200</u>		<u>24</u>	<u>5</u>	<u>MIX 100 SK. AAZ - 3% CFR, .25% DEFAMER, .8% FLA-322, 10% SALT, 1/4" SK CELLFIBRE, 5" SK BILSONITE</u>
					<u>STOP - WASH LINE - RELEASE PLUG</u>
	<u>0</u>		<u>0</u>	<u>7</u>	<u>START DISP. W/ 2% KCL H2O</u>
	<u>100</u>		<u>65</u>	<u>7</u>	<u>LIFT CEMENT</u>
	<u>400</u>		<u>75</u>	<u>4 1/2</u>	<u>SLOW RATE</u>
<u>1145</u>	<u>1300</u>		<u>80</u>	<u>4 1/2</u>	<u>PLUG DOWN - HOLD</u>
					<u>PLUG RT &amp; MH - 25 SK. 60/40 P02</u>
<u>1230</u>					<u>JOB COMPLETE - THANKS - KEVIN</u>

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**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Associates Inc**

1670 Broadway Ste 3300  
Denver CO 80202

ATTN: Tom Fertal

**33 18 10 Rice KS**

**Sittner et al-Ringwald 1-33**

Start Date: 2006.10.04 @ 07:15:43

End Date: 2006.10.04 @ 14:24:43

Job Ticket #: 26261                      DST #: 1

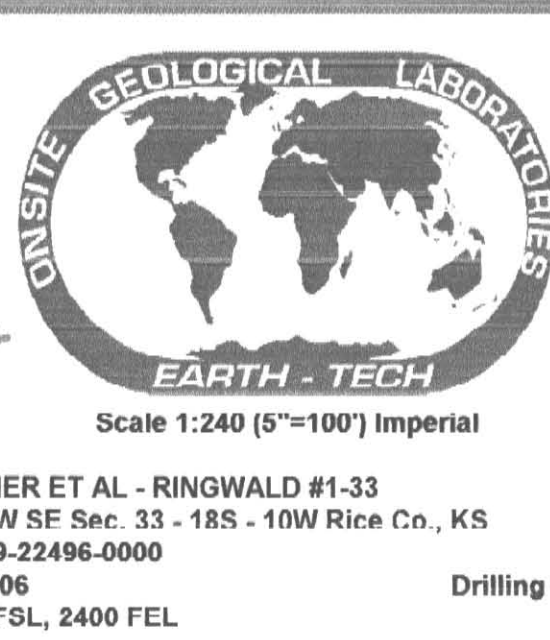
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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





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JAN 25 2007

Scale 1:240 (5"=100') Imperial

Well Name: SITTNER ET AL - RINGWALD #1-33  
Location: SW NW SE Sec. 33 - 18S - 10W Rice Co., KS  
Licence Number: 15-159-22496-0000  
Spud Date: 09/30/06  
Surface Coordinates: 1680 FSL, 2400 FEL

CONSERVATION DIVISION  
WICOMTA, KS  
Region: Wildcat  
Drilling Completed: 10/07/06

Bottom Hole Coordinates:  
Ground Elevation (ft): 1733' K.B. Elevation (ft): 1739'  
Logged Interval (ft): 2400' To: 3390' Total Depth (ft): 3390'  
Formation: ARBUCKLE  
Type of Drilling Fluid: Chemical Mud

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Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR  
Company: SAMUEL GARY JR. & ASSOCIATES, INC.  
Address: 1670 Broadway Blvd. Suite 3300  
Denver, CO 80202  
Co. Geos.: Mr. Tom Fertal, Mr. Jason Brand, &

GEOLOGIST  
Name: Justin Carter  
Company: Earth Tech OGL, Inc.  
Address: P. O. Box 683  
Hooker, OK 73945  
office: 580-652-3924 mobile: 620-655-1187

DST #1  
3082' - 3103' 30-90-30-60  
IF- 16-15, ISI- 78, FF- 13-17, FSI- 48, IH- 1519, FH- 1496  
IF: WK BUILT TO 1 1/2", DECREASE TO 1 1/4" IN 30 MIN., ISI: NO BB, FF: 1 1/2", NO BLOW IN 20 MIN., FSI: NO BB  
RECOV: 20' TOTAL, 20' MUD W/ OIL SPOTS, 124' GIP  
BHT- 111 DEG

DST #2  
3254' - 3285' 15-45-15-45  
IF- 11-27, ISI- 1071, FF- 31-47, FSI- 1052, IH- 1612, FH- 1566  
IF: WK, BUILT TO 1 1/2", FSI: NO BB, FF: WK, BUILT TO 1/2", FSI: NO BB  
RECOV: 70' TOTAL, 10' CO, 60' DM  
BHT- 114 DEG, GRAV- 36 DEG

DST #3 & #4  
3291' - 3313' 15-45-45-135  
IF- 13-47, ISI- 1007, FF- 49-99, FSI- 950, IH- 1648, FH- 1607  
IF: WK BUILT TO 4", ISI: NO BB, FF: WK BUILT TO 2", FSI: NO BB  
RECOV: 250' TOTAL, 185' CO, 65' OCM, 60' GIP  
BHT- 116 DEG, GRAV- 36 DEG

3313' - 3323' 15-45-45-180  
IF- 14-51, ISI- 1060, FF- 55-129, FSI- 988, IH- 1627, FH- 1592  
IF: WK BUILT TO 5", ISI: NO BB, FF: WK TO STRNG BOB IN 25 MIN., FSI: NO BB  
RECOV: 340' TOTAL, 281' CO, 59' GOCM  
BHT- 117 DEG, GRAV- 43 GRAV

ROCK TYPES

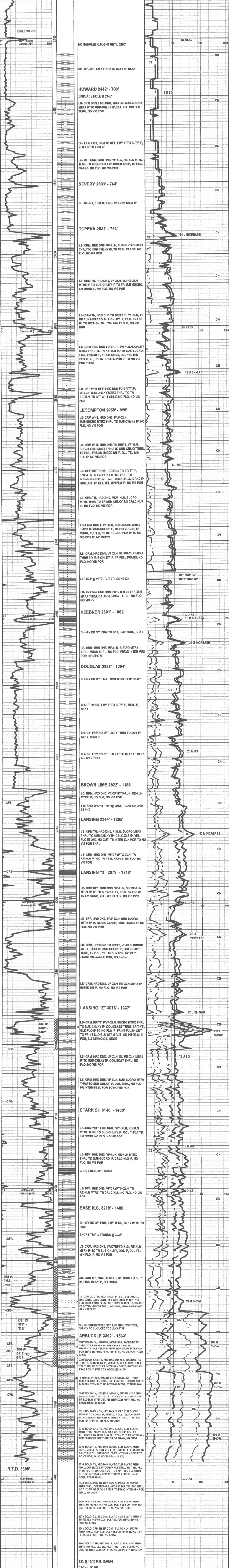
Anhy	Congl	Mrlst	Ss	Sandy/lms
Bent	Dol	Salt	Till	Shale
Brec	Gyp	Shale	Carb sh	Siltstn
Chst	Ignne	Shcol	Dol	Shlyshs
Cht	Lmst	Shgy	Dol	Stlysh
Cyst	Meta	Silst	Gry sh	Lms
Coal				

ACCESSORIES

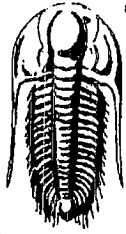
MINERAL	Marl	Belm	Fuss	Lms
Anhy	Minxl	Blocist	Omolnd	Sandy/lms
Arggrn	Nodule	Brach		Sh
Arg	Phos	Bryozoa		Siltstn
Bent	Pyr	Cephal		
Bit	Salt	Coral		
Brecfrag	Sand	Crin		
Calc	Silt	Echin		
Carb	Sil	Fish		
Chtdk	Sulphur	Foram		
Chlft	Tuff	Fossil		
Dol	Chlorite	Gastro		
Feldspar	Dol	Oolite		
Glaup	Sand	Ostra		
Ferr	Sity	Pelac		
Gyp		Pellet		
Hvymn		Pisolite		
Kaol		Plant		
		Strom		

OTHER SYMBOLS

POROSITY TYPE	Vuggy	ROUNDING	Spotted	Dst
Earthy	Well	Roundd	Quas	
Fracture	Moderate	Subrnd	Dead	
Inter	Poor	Subang	Gas show	
Moldic		Angular		
Organic				
Pinpoint				



T.D. @ 12:30 P.M. 1007006  
CTCH 1 1/2 HR.  
T.O.F.L.  
LOG TECH HAYS



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 26261

DST#: 1

ATTN: Tom Fertal

Test Start: 2006.10.04 @ 07:15:43

## GENERAL INFORMATION:

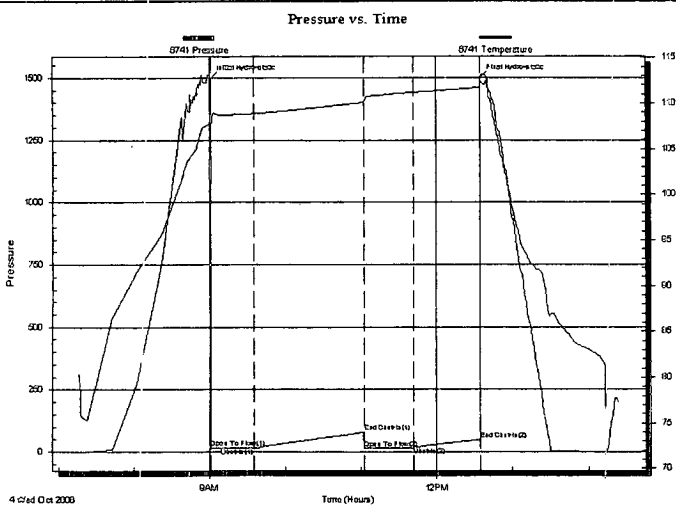
Formation: **H**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 09:01:03  
 Time Test Ended: 14:24:43  
 Interval: **3082.00 ft (KB) To 3103.00 ft (KB) (TVD)**  
 Total Depth: **3103.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Dan Bangle**  
 Unit No: **38**  
 Reference Elevations: **1739.00 ft (KB)**  
**1733.00 ft (CF)**  
 KB to GR/CF: **6.00 ft**

## Serial #: 6741

Inside

Press@RunDepth: **17.99 psig @ 3083.00 ft (KB)** Capacity: **7000.00 psig**  
 Start Date: **2006.10.04** End Date: **2006.10.04** Last Calib.: **2006.10.04**  
 Start Time: **07:15:45** End Time: **14:24:43** Time On Btm: **2006.10.04 @ 09:00:43**  
 Time Off Btm: **2006.10.04 @ 12:34:58**

TEST COMMENT: IF Weak building to 1 1/2" - decreasing to 1/4" in 30 min  
 FF 1 1/2" blow decreasing to no blow in 20 min  
 Times 30 90 30 60



## PRESSURE SUMMARY

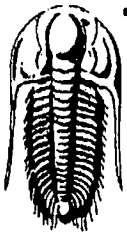
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1497.11	107.80	Initial Hydro-static
1	16.36	107.64	Open To Flow (1)
35	15.94	108.89	Shut-In (1)
122	78.13	110.10	End Shut-In (1)
122	13.10	110.27	Open To Flow (2)
161	17.99	111.19	Shut-In (2)
214	48.66	111.72	End Shut-In (2)
215	1496.66	112.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/few Oil spots	0.10
0.00	124 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 26261

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2006.10.04 @ 07:15:43

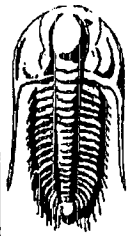
**Tool Information**

Drill Pipe:	Length: 2841.00 ft	Diameter: 3.34 inches	Volume: 30.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 60000.00 lb
		<b>Total Volume:</b>	<b>31.99 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3082.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	50.00 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			3054.00	
Shut In Tool	5.00			3059.00	
Hydraulic tool	5.00			3064.00	
Jars	5.00			3069.00	
Safety Joint	3.00			3072.00	
Packer	5.00			3077.00	29.00 Bottom Of Top Packer
Packer	5.00			3082.00	
Stubb	1.00			3083.00	
Recorder	0.00	6741	Inside	3083.00	
Perforations	17.00			3100.00	
Recorder	0.00	13254	Outside	3100.00	
Bullnose	3.00			3103.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 26261

**DST#: 1**

ATTN: Tom Fertal

Test Start: 2006.10.04 @ 07:15:43

### 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:

bbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/few Oil spots	0.098
0.00	124 GIP	0.000

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

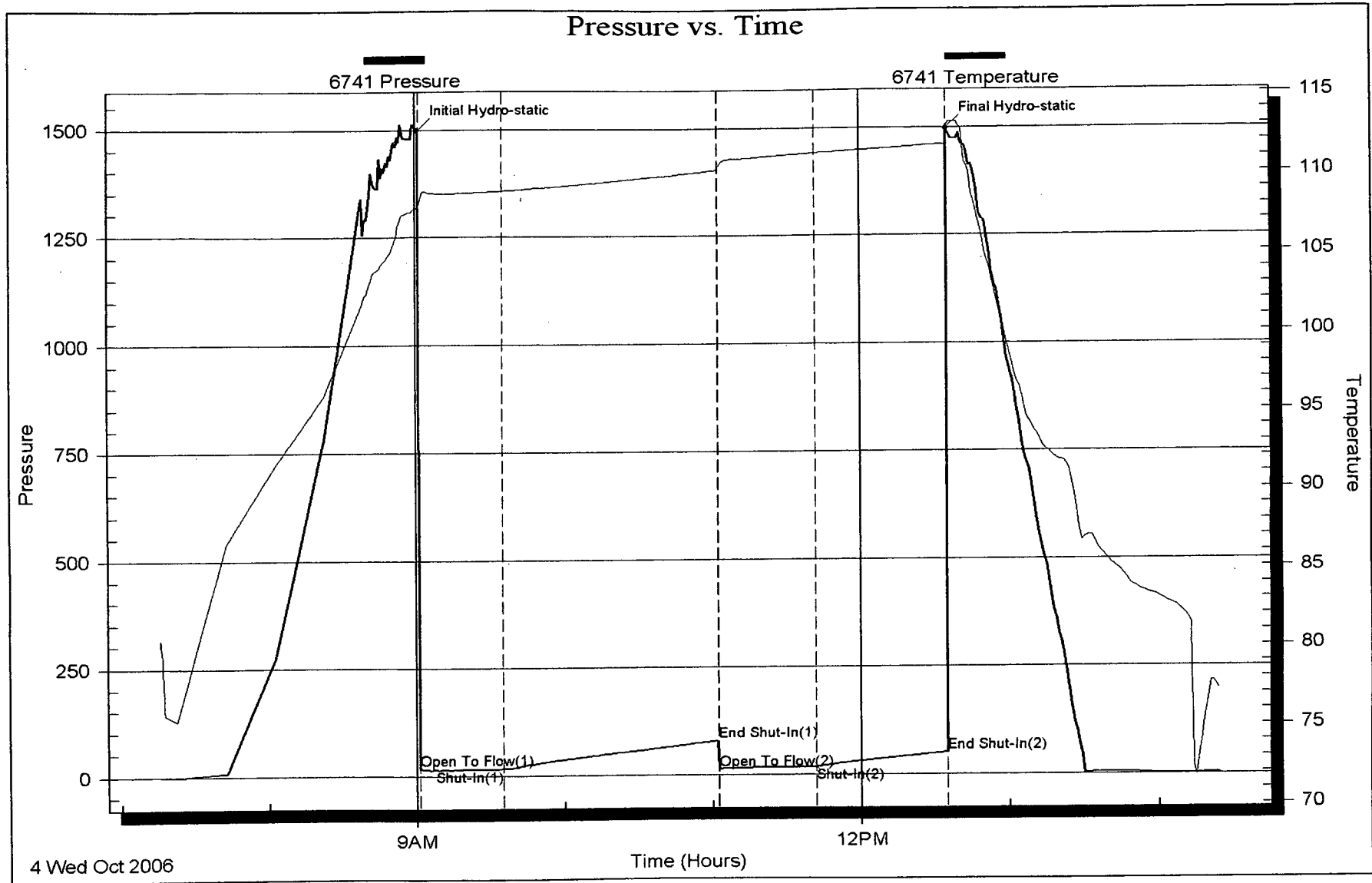
Num Gas Bombs: 0

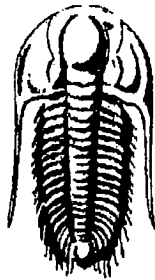
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Associates Inc**

1670 Broadway Ste 3300  
Denver CO 80202

ATTN: Tom Fertal

**33 18 10 Rice KS**

**Sittner et al-Ringwald 1-33**

Start Date: 2006.10.05 @ 11:27:26

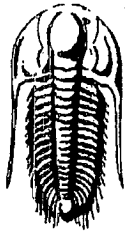
End Date: 2006.10.05 @ 17:29:11

Job Ticket #: 26262                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Sam Gary & Associates Inc

1670 Broadway Ste 3300  
Denver CO 80202

ATTN: Tom Fertal

**Sittner et al-Ringwald 1-33**

**33 18 10 Rice KS**

Job Ticket: 26262

**DST#: 2**

Test Start: 2006.10.05 @ 11:27:26

## GENERAL INFORMATION:

Formation: **Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:34:16  
 Time Test Ended: 17:29:11

Test Type: Conventional Bottom Hole  
 Tester: Dan Bangle  
 Unit No: 38

Interval: **3254.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1739.00 ft (KB)  
 1733.00 ft (CF)  
 KB to GR/CF: 6.00 ft

**Serial #: 6741**

**Inside**

Press@RunDepth: 47.00 psig @ 3255.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.05

End Date:

2006.10.05

Last Calib.: 2006.10.05

Start Time: 11:27:28

End Time:

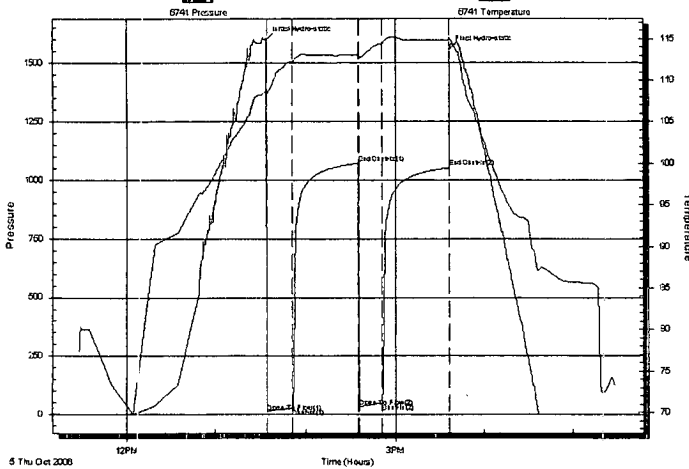
17:29:11

Time On Btm: 2006.10.05 @ 13:34:06

Time Off Btm: 2006.10.05 @ 15:36:41

TEST COMMENT: IF Weak building to 1/2 "  
 FF Weak building to 1/2 "  
 Times 15 45 15 45

Pressure vs. Time



## PRESSURE SUMMARY

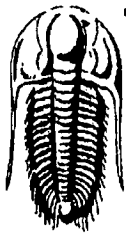
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1597.83	108.64	Initial Hydro-static
1	11.30	107.73	Open To Flow (1)
18	27.45	112.25	Shut-In (1)
62	1071.52	113.04	End Shut-In (1)
63	31.89	112.80	Open To Flow (2)
77	47.00	114.45	Shut-In (2)
123	1052.37	114.86	End Shut-In (2)
123	1556.54	115.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	DM	0.30
10.00	CO	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 26262

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2006.10.05 @ 11:27:26

### Tool Information

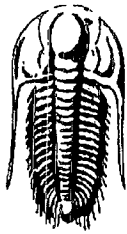
Drill Pipe:	Length: 2994.00 ft	Diameter: 3.34 inches	Volume: 32.45 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>33.65 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3254.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 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			3226.00	
Shut In Tool	5.00			3231.00	
Hydraulic tool	5.00			3236.00	
Jars	5.00			3241.00	
Safety Joint	3.00			3244.00	
Packer	5.00			3249.00	29.00 Bottom Of Top Packer
Packer	5.00			3254.00	
Stubb	1.00			3255.00	
Recorder	0.00	6741	Inside	3255.00	
Perforations	27.00			3282.00	
Recorder	0.00	13254	Outside	3282.00	
Bullnose	3.00			3285.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 26262

**DST#: 2**

ATTN: Tom Fertal

Test Start: 2006.10.05 @ 11:27:26

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	DM	0.295
10.00	CO	0.049

Total Length: 70.00 ft

Total Volume: 0.344 bbf

Num Fluid Samples: 0

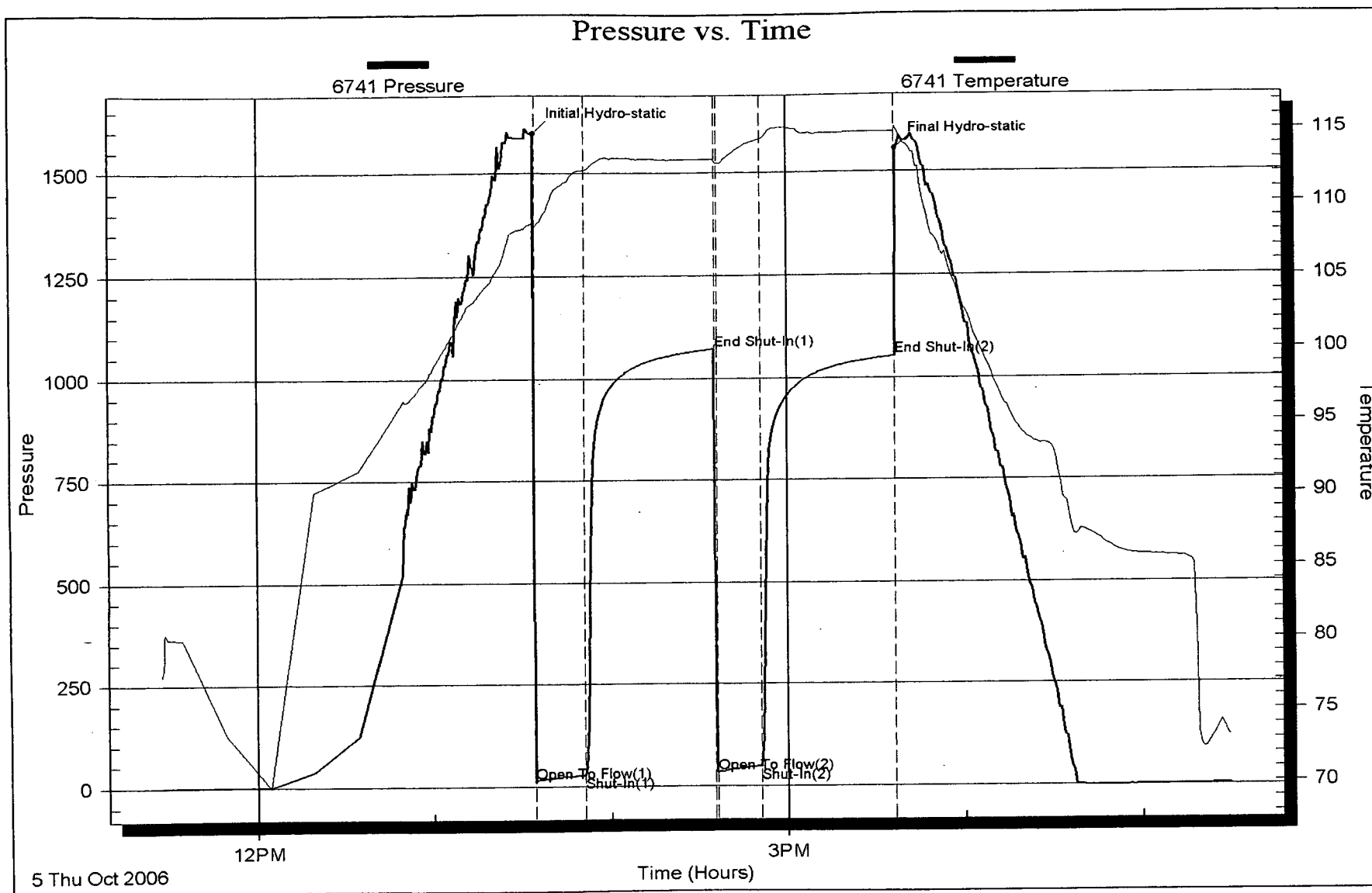
Num Gas Bombs: 0

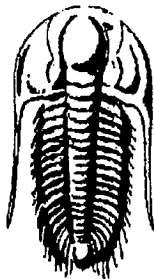
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Associates Inc**

1670 Broadway Ste 3300  
Denver CO 80202

ATTN: Tom Fertal

**33 18 10 Rice KS**

**Sittner et al-Ringwald 1-33**

Start Date: 2006.10.06 @ 02:25:09

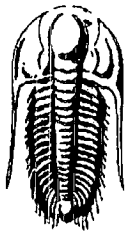
End Date: 2006.10.06 @ 10:38:24

Job Ticket #: 26263                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary & Associates Inc

1670 Broadway Ste 3300  
Denver CO 80202

ATTN: Tom Fertal

**Sittner et al-Ringwald 1-33**

**33 18 10 Rice KS**

Job Ticket: 26263

**DST#: 3**

Test Start: 2006.10.06 @ 02:25:09

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:19

Time Test Ended: 10:38:24

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3291.00 ft (KB) To 3313.00 ft (KB) (TVD)**

Total Depth: 3313.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1739.00 ft (KB)

1733.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 6741 Inside**

Press@RunDepth: 99.56 psig @ 3292.00 ft (KB)

Start Date: 2006.10.06

End Date:

2006.10.06

Capacity: 7000.00 psig

Last Calib.: 2006.10.06

Start Time: 02:25:11

End Time:

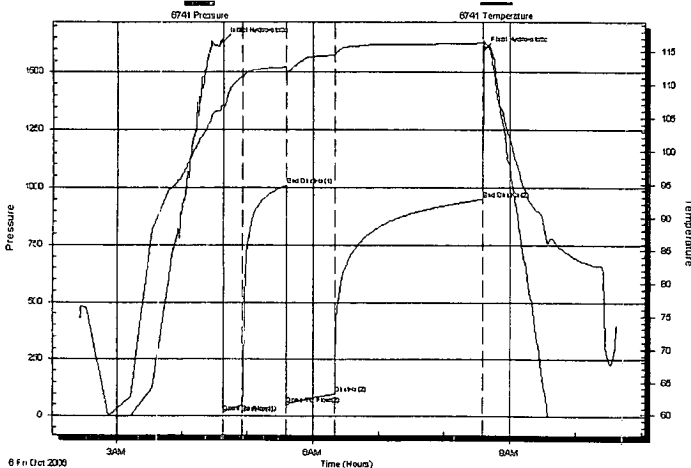
10:38:24

Time On Btm: 2006.10.06 @ 04:38:09

Time Off Btm: 2006.10.06 @ 08:36:09

TEST COMMENT: IF Weak building to 4 "  
FF Weak building to 2 "  
Times 15 45 45 135

Pressure vs. Time



## PRESSURE SUMMARY

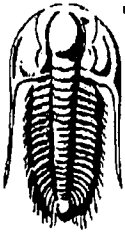
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1633.02	106.95	Initial Hydro-static
1	13.75	106.38	Open To Flow (1)
18	47.63	111.17	Shut-In(1)
58	1007.80	112.63	End Shut-In(1)
58	49.71	112.13	Open To Flow (2)
102	99.56	114.53	Shut-In(2)
238	950.44	116.35	End Shut-In(2)
239	1594.32	116.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 30%O 70%M	0.30
185.00	CO	0.92
0.00	60 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 26263

**DST#: 3**

ATTN: Tom Fertal

Test Start: 2006.10.06 @ 02:25:09

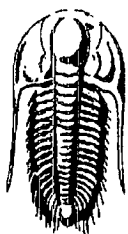
### Tool Information

Drill Pipe:	Length: 3053.00 ft	Diameter: 3.34 inches	Volume: 33.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 34.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3291.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 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			3263.00	
Shut In Tool	5.00			3268.00	
Hydraulic tool	5.00			3273.00	
Jars	5.00			3278.00	
Safety Joint	3.00			3281.00	
Packer	5.00			3286.00	29.00 Bottom Of Top Packer
Packer	5.00			3291.00	
Stubb	1.00			3292.00	
Recorder	0.00	6741	Inside	3292.00	
Perforations	18.00			3310.00	
Recorder	0.00	13254	Outside	3310.00	
Bullnose	3.00			3313.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary & Associates Inc

Sittner et al-Ringwald 1-33

1670 Broadway Ste 3300  
Denver CO 80202

33 18 10 Rice KS

Job Ticket: 26263

DST#: 3

ATTN: Tom Fertal

Test Start: 2006.10.06 @ 02:25:09

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 30%O 70%M	0.295
185.00	CO	0.916
0.00	60 GIP	0.000

Total Length: 245.00 ft      Total Volume: 1.211 bbl

Num Fluid Samples: 0

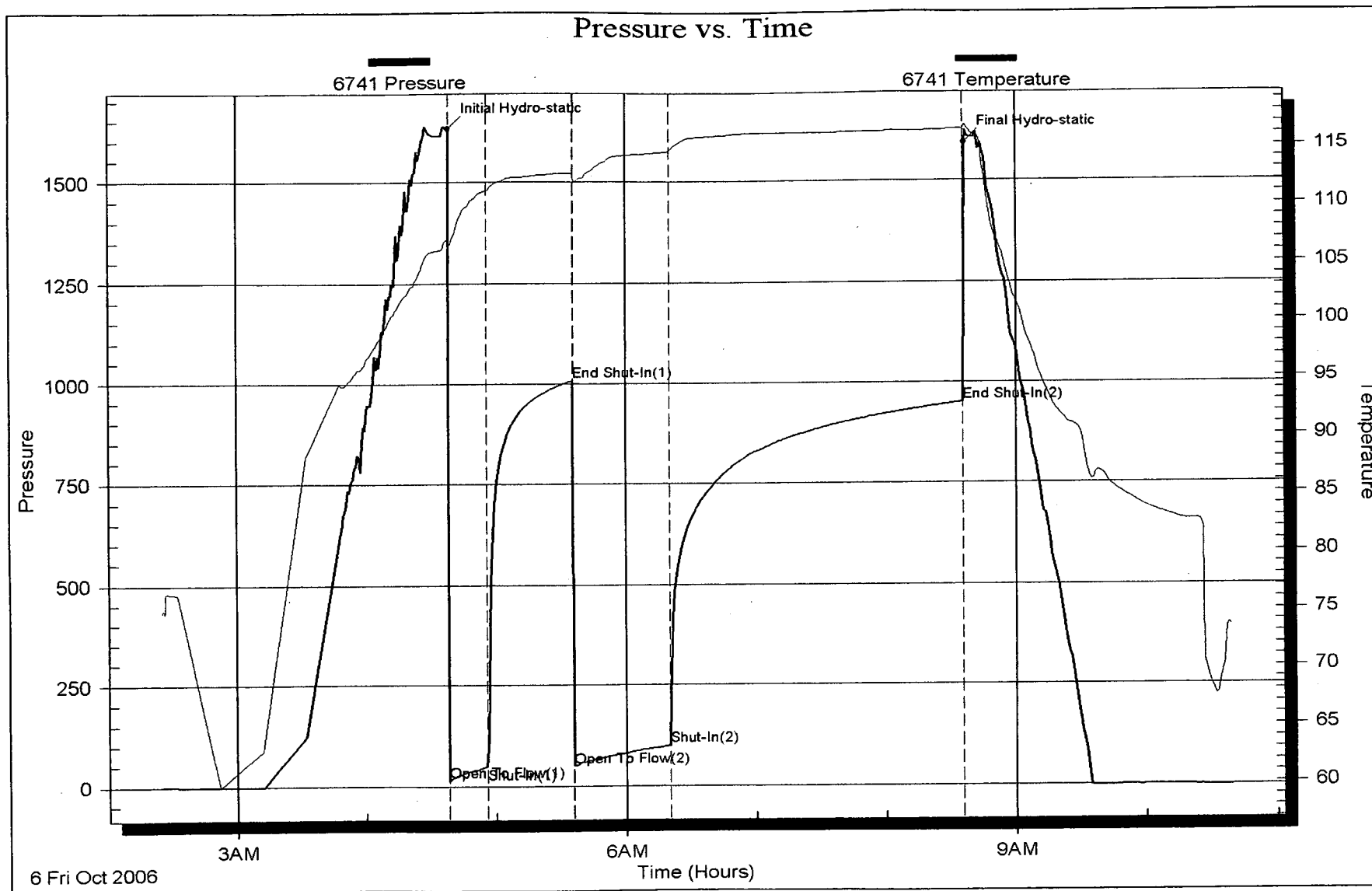
Num Gas Bombs: 0

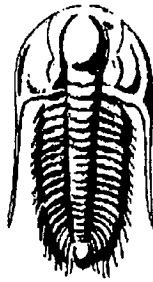
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Associates Inc**

1670 Broadway Ste 3300  
Denver CO 80202

ATTN: Tom Fertal

**33 18 10 Rice KS**

**Sittner et al-Ringwald 1-33**

Start Date: 2006.10.06 @ 19:14:48

End Date: 2006.10.07 @ 04:24:33

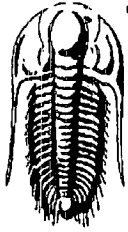
Job Ticket #: 25174                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 25174

**DST#: 4**

ATTN: Tom Fertal

Test Start: 2006.10.06 @ 19:14:48

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:14:33

Time Test Ended: 04:24:33

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3313.00 ft (KB) To 3323.00 ft (KB) (TVD)**

Reference Elevations: 1739.00 ft (KB)

Total Depth: 3323.00 ft (KB) (TVD)

1733.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8018** Inside

Press@RunDepth: 129.98 psig @ 3314.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2006.10.06

End Date: 2006.10.07

Last Calib.: 2006.10.07

Start Time: 19:14:53

End Time: 04:24:33

Time On Btm: 2006.10.06 @ 21:14:03

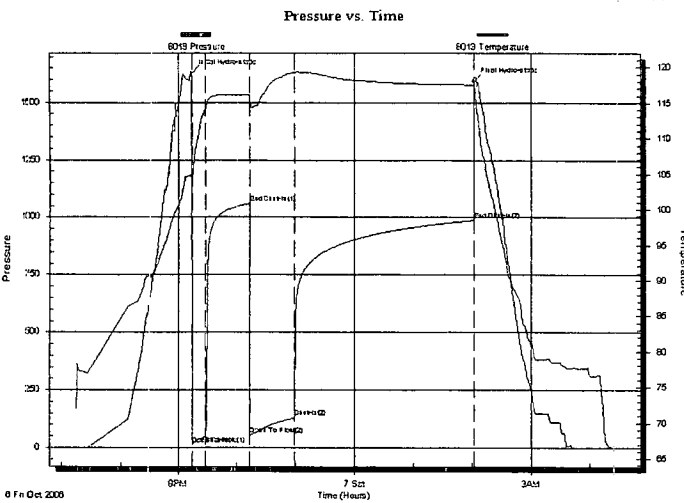
Time Off Btm: 2006.10.07 @ 02:01:33

TEST COMMENT: IF Weak built to 5 "

ISI Dead

FF Weak to Strong BOB 25 min.

FSI Dead



## PRESSURE SUMMARY

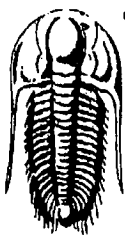
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.51	104.65	Initial Hydro-static
1	14.60	104.31	Open To Flow (1)
14	51.35	114.18	Shut-In(1)
60	1060.45	116.04	End Shut-In(1)
60	55.53	115.54	Open To Flow (2)
105	129.98	119.22	Shut-In(2)
287	988.01	117.51	End Shut-In(2)
288	1592.00	117.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
59.00	GOCM 10%G 20%O 70%M	0.42
281.00	Clean Oil	2.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 25174

**DST#: 4**

ATTN: Tom Fertal

Test Start: 2006.10.06 @ 19:14:48

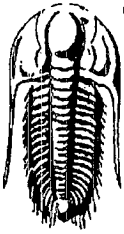
### Tool Information

Drill Pipe:	Length: 3046.00 ft	Diameter: 3.00 inches	Volume: 26.63 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 185.00 ft	Diameter: 2.70 inches	Volume: 1.31 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 59.00 ft	Diameter: 2.25 inches	Volume: 0.29 bbl	Weight to Pull Loose: 45000.00 lb
		<u>Total Volume:</u>	<u>28.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3313.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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			3286.00	
Shut In Tool	5.00			3291.00	
Hydraulic tool	5.00			3296.00	
Jars	5.00			3301.00	
Safety Joint	3.00			3304.00	
Packer	4.00			3308.00	28.00 Bottom Of Top Packer
Packer	5.00			3313.00	
Stubb	1.00			3314.00	
Recorder	0.00	8018	Inside	3314.00	
Perforations	6.00			3320.00	
Bullnose	3.00			3323.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Sam Gary & Associates Inc

**Sittner et al-Ringwald 1-33**

1670 Broadway Ste 3300  
Denver CO 80202

**33 18 10 Rice KS**

Job Ticket: 25174

**DST#: 4**

ATTN: Tom Fertal

Test Start: 2006.10.06 @ 19:14:48

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.98 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 10500.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

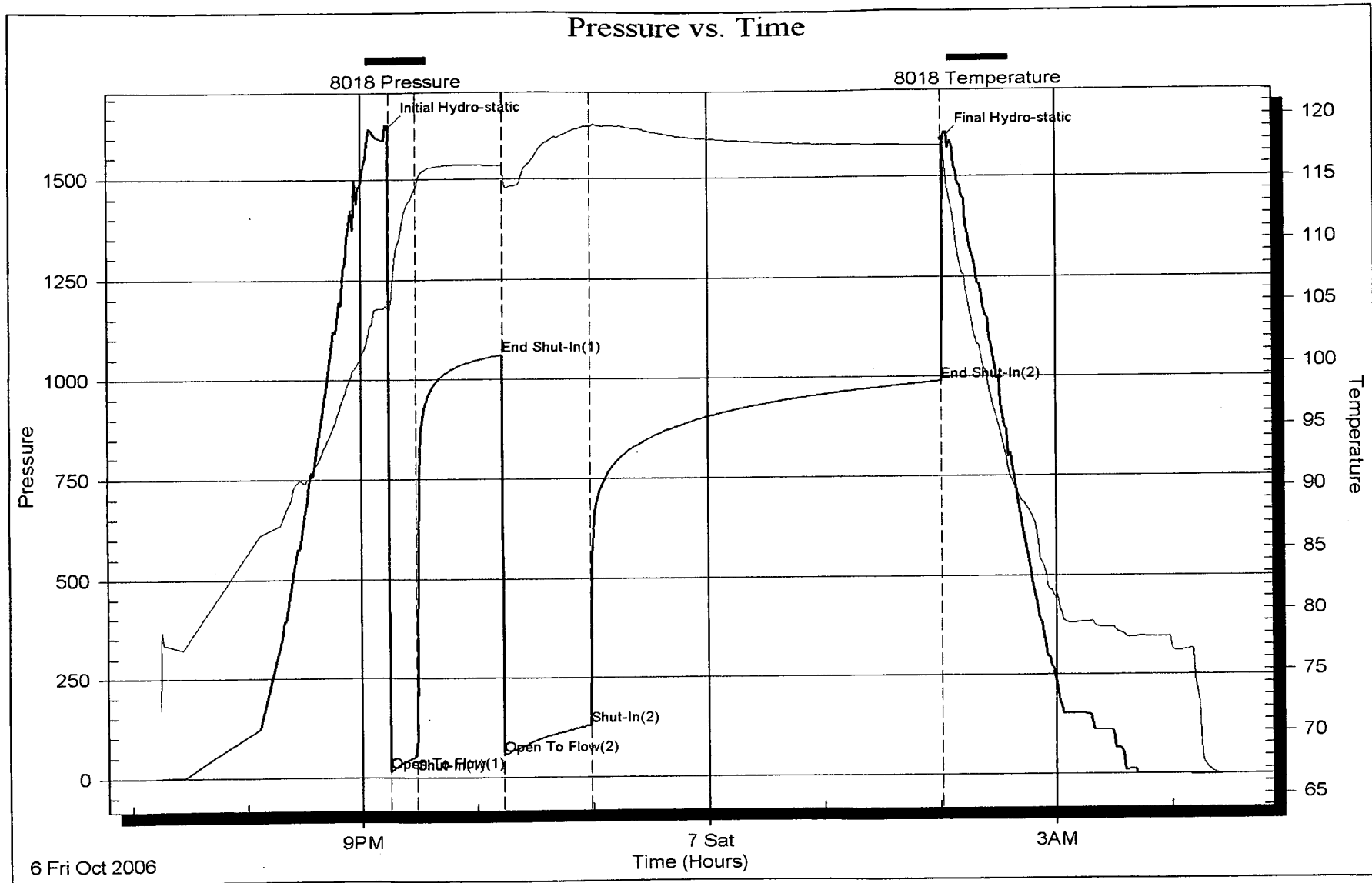
Length ft	Description	Volume bbl
59.00	GOCM 10%G 20%O 70%M	0.418
281.00	Clean Oil	2.022

Total Length: 340.00 ft      Total Volume: 2.440 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



1-24-09

Samuel Gary Jr. & Associates, Inc.

1670 Broadway, Suite 3300, Denver, CO 80202 (303) 831-4673

January 24, 2007

Mr. Dave Williams  
Kansas Corporation Commission  
130 South Market, Room - 2078  
Wichita, KS 67202

KCC

JAN 24 2007

CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 25 2007

CONSERVATION DIVISION  
WICHITA, KS

Re: Sittner Et Al-Ringwald 1-33  
Rice County, Kansas  
API# 15-159-22496-0000

Dear Dave,

Attached please find the ACO-1, Well History Description of Well and Lease, along with Geologist Report, DST's, Electric Logs, and all cementing tickets for the subject Well.

We hereby request that this ACO-1, and all data included, along with the drill cuttings sent to the Kansas Geological Survey, be held **CONFIDENTIAL FOR 2 YEARS**.

If there are any questions, or if you need any additional information, please contact me at Samuel Gary Jr. & Associates, Inc. at the telephone number shown on the letterhead.

Sincerely,

SAMUEL GARY JR. & ASSOCIATES, INC.



Thomas G. Fertal  
Sr. Geologist

Enclosures