

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

2/15/13

OPERATOR: License # 30606
Name: Murfin Drilling Company, Inc.
Address 1: 250 N. Water, Suite 300
Address 2:
City: Wichita State: KS Zip: 67202 +
Contact Person: Leon Rodak
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Paul Gunzelman
Purchaser: MV Purchasing

API No. 15 - 141-20420-0000
Spot Description:
E2 SE SW NW Sec. 08 Twp. 10 S. R. 14 East West
2310 Feet from North / South Line of Section
1100 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Osborne

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.):

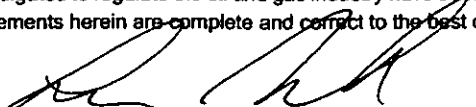
Lease Name: Tim Well #: 1-8
Field Name: Wildcat
Producing Formation: Lansing
Elevation: Ground: 1948 Kelly Bushing: 1953
Total Depth: 3750 Plug Back Total Depth: 3718
Amount of Surface Pipe Set and Cemented at: 240 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 1183
feet depth to: surface w/ 240 sx cmt.

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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

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 #:

10/25/10 11/02/10 12/01/10
Spud Date or 11/02/10 12/01/10
Recompletion Date Date Reached TD Completion Date or
Recompletion Date

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.

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.
Signature: 
Title: VP Production Date: 02/15/2011

KCC Office Use ONLY
RECEIVED
Date: 2/15/11 - 2/15/13 FEB 15 2011
KCC WICHITA
 Letter of Confidentiality Received
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Date:

Operator Name: Murfin Drilling Company, Inc. Lease Name: Tim Well #: 1-8
 Sec. 08 Twp. 10 S. R. 14 East West County: Osborne

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction, Compensated Porosity, Microresistivity	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached List <div style="text-align: center;"> KCC FEB 15 2011 CONFIDENTIAL </div>
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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		8 5/8	23#	220	Common	160	3% cc, 2% gel
Production		4 1/2	10.5	3739	AA-2	175	

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	3185-3190 Lansing "B"	250 gal 20% MCA, 750 gal 15% NE/FE	
4	3202-3210 Lansing "C"	250 gal 20% MCA, 750 gal 15% NE/FE	
4	3627-3636 Viola under CIBP @3615	250 gal 20% MCA	

TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>3285</u> Packer At: <u>NA</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>01/18/2011</u>		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>36</u>	Gas Mcf _____
		Water Bbls. <u>6</u>
		Gas-Oil Ratio _____
		Gravity <u>38.8</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3185-3210</u>
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Formation	MDCI Tim #1-8 2310 FNL 1100 FWL Sec. 8-T10S-R14W 1953' KB				Rains & Williamson Elliott #1 SE NE SW Sec. 20-T10S-R14W 1842' KB			Cox & Cox Meyer #1 NW NW NW Sec. 15-T10S-R14W 2014' KB		
	Sample top	Datum	Log Top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	1130	+823	1141	+812	+12	1042	+800	-57	1145	+869
B/Anhydrite	1172	+781	1172	+781	+12	1073	+769	-46	1187	+827
Topeka	2856	-903	2858	-905	+37	2784	-942	-5	2914	-900
Heebner	3102	-1149	3104	-1151	+43	3036	-1194	+3	3168	-1154
Toronto	3125	-1172	3127	-1174	+37	3053	-1211	+4	3192	-1178
Lansing	3154	-1201	3157	-1204	+34	3080	-1238	+3	3221	-1207
Stark	3363	-1410	3367	-1414	+38	3294	-1452	+2	3430	-1416
BKC	3419	-1466	3422	-1469	+41	3352	-1510	+9	3492	-1478
Cherokee	3530	-1577	3531	-1578	+46	3466	-1624	+16	3608	-1594
Viola	3605	-1652	3604	-1651		NDE	NDE	+72	3737	-1723
Simpson	3642	-1689	3642	-1689		NDE	NDE	+125	3828	-1814
Arbuckle	3689		3691	-1738		NDE	NDE	+127	3879	-1865
RTD	3750					3520			3908	
LTD			3751			3516			3910	

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cc: Liz
cc: Leangpl

Date: 11/29/2010
Invoice # 4600
P.O.#:
Due Date: 12/29/2010
Division: Russell



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

Invoice

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Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR New well Camp
APPROVED [Signature]

Reference:
TIM 1-8

Description of Work:
PORT COLLAR

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 894.88	No				
Common-Class A	108	\$ 1,390.80	Yes				
Bulk Truck Matl-Material Service Charge	350	\$ 738.89	No				
POZ Mix-Standard	72	\$ 349.60	Yes				
Pump Truck Mileage-Job to Nearest Camp	29	\$ 305.50	No				
Flo Seal	87	\$ 183.67	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	29	\$ 178.77	No				
Premium Gel (Bentonite)	9	\$ 154.66	Yes				

Invoice Terms:
Net 30

	SubTotal:	\$ 4,196.76
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$ (629.51)
<hr/>		
	SubTotal for Taxable Items:	\$ 1,766.92
	SubTotal for Non-Taxable Items:	\$ 1,039.68
<hr/>		
	Total:	\$ 3,567.25
	Tax:	\$ 137.82
	Amount Due:	\$ 3,705.07
	Applied Payments:	
	Balance Due:	\$ 3,705.07

7.80% Osborne County Sales Tax

Thank You For Your Business!

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.

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

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

No. 4600

Date	11-22-10	Sec.	8	Twsp.	10	Range	14	County	Osborne	State	KS	On Location		Finish	12:45 PM
Lease	Tim	Well No.	1-8		Location Parad. sects - East side N, 2w, 52w										
Contractor	Martin Drilling							Owner E/S							
Type Job	port Collar							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.							
Hole Size	4 1/2"							T.D.							
Csg.								Depth							
Tbg. Size	2"							Depth 2895'							
Tool	Port Collar							Depth 1183'							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace 3 1/2 BLS							
											Cement Amount Ordered 350.5x 60/40 6 1/2 Gel 4# E.S.				

EQUIPMENT

Pumptrk	1	No.	Cementer	Brenton	Used	180
			Helper		Common	108
Bulktrk	7	No.	Driver	Cisco	Poz. Mix	72
			Driver		Gel.	9
Bulktrk p.u.		No.	Driver	Rick		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.		Calcium	KCC
Rat Hole			Hulls	FEB 16 2011
Mouse Hole			Salt	CONFIDENTIAL
Centralizers			Flowseal	87#
Baskets			Kol-Seal	
D/V or Port Collar	1183'		Mud CLR 48	
CTBP	2895'		CFL-117 or CD110 CAF 38	
			Sand	
			Handling	350
			Mileage	
			FLOAT EQUIPMENT	
			Guide Shoe	
			Centralizer	
			Baskets	
			AFU/Inserts	
			Float Shoe	
			Latch Down	
			Pumptrk Charge	port Collar
			Mileage	29

pressure test tool, open tool
establish a bleed mix 240.5x
60/40 6 1/2 Gel 4# E.S.
with 3 1/2 BLS of water. shut
down ^{close} run in 5-5's. tubing
released out. Re-pressure to
500# shut in. Rigger down

180
240.5x 60/40 6 1/2 Gel 4# E.S.
Cement did Circulate.

Signature Mark Holden

RECEIVED	Tax
FEB 16 2011	Discount
	total Charge

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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

PROD COPY

Date: 10/27/2010
 Invoice # 4558
 P.O.#:
 Due Date: 11/26/2010
 Division: Russell

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

USED FOR _____
 APPROVED _____

Reference:
 TIM 1-8

*operator pay
 mdc
 on*

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Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 732.68	No				
Common-Class A	160	\$ 1,922.59	Yes				
Bulk Truck Mail-Material Service Charge	168	\$ 345.08	No				
Pump Truck Mileage-Job to Nearest Camp	29	\$ 297.24	No				
Calcium Chloride	5	\$ 193.39	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	29	\$ 173.94	No				
Premium Gel (Bentonite)	3	\$ 50.16	Yes				

Invoice Terms:
 Net 30

SubTotal: \$ 3,715.09
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (557.26)

SubTotal for Taxable Items: \$ 1,841.22
 SubTotal for Non-Taxable Items: \$ 693.82
 Total: \$ 3,157.82
 Tax: \$ 143.62

7.80% Osborne County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,301.44
Applied Payments:
Balance Due: \$ 3,301.44

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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Invoice #	Amount	Description
03608 00820 3483	3301.44	Cement

S. Csg.
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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. 4558

Date	10-25-10	Sec.	8	Twp.	10	Range	14	County	Osborne	State	KS	On Location		Finish	3:30PM
Lease	Tim	Well No.	1-8		Location		Paradise E side N to 4042 1w 3 1/2 S								
Contractor	Murfin #8				Owner				EINTO						
Type Job	Surface				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.						
Hole Size	12 1/4		T.D.		220		Charge To		Murfin Drilling						
Csg.	8 5/8 23b		Depth		220		Street								
Tbg. Size			Depth												
Tool			Depth		City		State								
Cement Left in Csg.	10-15'		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace		13bbls		Cement Amount Ordered		160com 35cc 2oz gel						

EQUIPMENT

Pumptrk	1	No.	Cementer	Brandon	Common	160
			Helper			
Bulktrk	12	No.	Driver	Rick	Poz. Mix	
			Driver			
Bulktrk	14	No.	Driver	Doug	Gel.	3
			Driver			
JOB SERVICES & REMARKS					Calcium	5

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
Cement did Circbo	Handling 168
	Mileage

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FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

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Pumptrk Charge	1-8 5/8 surge Surface
Mileage	29

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X Signature	[Signature]	Tax	
		Discount	
		Total Charge	



cc: [unclear]
cc: [unclear]
cc: [unclear]

PAGE	CUST NO	INVOICE DATE
1 of 1	1002852	11/04/2010
INVOICE NUMBER		
1718 - 90449400		

Pratt (620) 672-1201

B MURFIN DRILLING
I PO Box: 288
L RUSSELL
L KS US 67665
T
O ATTN:

J LEASE NAME Tim 1-8
O LOCATION
B COUNTY Osborne
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40249035	27463		Net - 30 days	12/04/2010
For Service Dates: 11/03/2010 to 11/03/2010				
0040249035				
171802921A Cement-New Well Casing/Pi 11/03/2010				
4 1/2" Longstring				
AA2 Cement		175.00 EA	11.90	2,082.50 T
60/40 POZ		30.00 EA	8.40	252.00 T
Cello-flake		44.00 EA	2.59	113.96 T
De-foamer (Powder)		33.00 EA	2.80	92.40 T
Salt (Fine)		822.00 EA	0.35	287.70 T
FLA-322		83.00 EA	5.25	435.75 T
Gilsonite		875.00 EA	0.47	410.38 T
4 1/2" Port Collar		1.00 EA	2,450.00	2,450.00 T
Latch Down Plug & Baffle 4 1/2" (Blue)		1.00 EA	259.00	259.00 T
Auto Fill Float Shoe 4 1/2" (Blue)		1.00 EA	231.00	231.00 T
Turbolizer 4 1/2" (Blue)		10.00 EA	59.50	595.00 T
4 1/2" Basket (Blue)		1.00 EA	189.00	189.00 T
Cement Scratchers Cable Type 4 1/2"		11.00 EA	49.00	539.00 T
Super Flush II		500.00 EA	1.07	535.50 T
Unit Mileage Charge-Pickups, Vans & Cars		100.00 HR	2.98	297.50 T
Heavy Equipment Mileage		200.00 MI	4.90	980.00 T
Proppant and Bulk Delivery Charges		955.00 MI	1.12	1,069.60 T
Depth Charge 3001-4000'		1.00 HR	1,512.00	1,512.00 T
Blending & Mixing Service Charge		205.00 MI	0.98	200.90 T
Supervisor		1.00 HR	122.50	122.50 T

USED FOR APPROVAL

New Well Casing
K R

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,655.69
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	328.39
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	12,984.08
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 02921 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-3-10 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Murfin Drilling Co.		LEASE Tim WELL NO. 1-8							
ADDRESS		COUNTY Osborne STATE KS							
CITY STATE		SERVICE CREW Dilando, Veatch, Mitchell							
AUTHORIZED BY		JOB TYPE: 4 1/2 Longstring CWU							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 11-3-10	AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	TIME 10:00
27283	1					ARRIVED AT JOB		AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	1:30
27463	1					START OPERATION		AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	3:30
19959-21010	1					FINISH OPERATION		AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	4:50
						RELEASED		AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	5:30
						MILES FROM STATION TO WELL	100		

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CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Kevin Nelson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement	SK	175		2975.00
CP103	Grill/POZ	SK	30		360.00
CC102	Cells/Lake	Lb	44		162.80
CC105	De-Foamer	Lb	33		132.00
CC111	Salt	Lb	822		411.00
CC109	F.A. 322	Lb	83		627.50
CC201	G. Sulfate	Lb	875		586.25
CS-180	4 1/2 Port Collar	ea	1		3500.00
CF606	Latch Down Plug/Baffle	ea	1		370.00
CF1050	Auto Fill Float Shoe	ea	1		330.00
CF1650	Turbolizer	ea	10		850.00
CF1700	Basket	ea	1		270.00
CF2000	Cement Scratches Cable Type	ea	11		770.00
CC155	Super Slick II	Gal	500		765.00
E100	Pickup mileage	mi	100		425.00
E101	Heavy Equipment mileage	mi	200		1400.00
E113	Bulk Delivery	Tm	955		1528.00
CE204	Depth Charge 3001-4000	ea	1		2160.00
CE240	Cement Service Charge	SK	205		237.00
3003	Service Supervisor	ea	1		175.00
SUB TOTAL					12655.69

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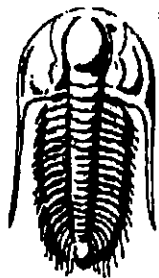
CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: <u>Steve Dilando</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Kevin Nelson</u>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

8-10s-14w Osborne Ks

Tim #1-8

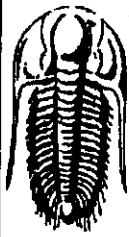
Start Date: 2010.10.29 @ 07:45:57

End Date: 2010.10.29 @ 15:54:27

Job Ticket #: 40985 DST #: 1

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

Tim #1-8

8-10s-14w Osborne Ks

Job Ticket: 40985

DST#: 1

Test Start: 2010.10.29 @ 07:45:57

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:54:57

Time Test Ended: 15:54:27

Interval: 2880.00 ft (KB) To 2900.00 ft (KB) (TVD)

Total Depth: 2900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Reference Elevations: 1953.00 ft (KB)

1948.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 75.75 psig @ 2882.00 ft (KB)

Start Date: 2010.10.29

End Date: 2010.10.29

Start Time: 07:46:02

End Time: 15:54:26

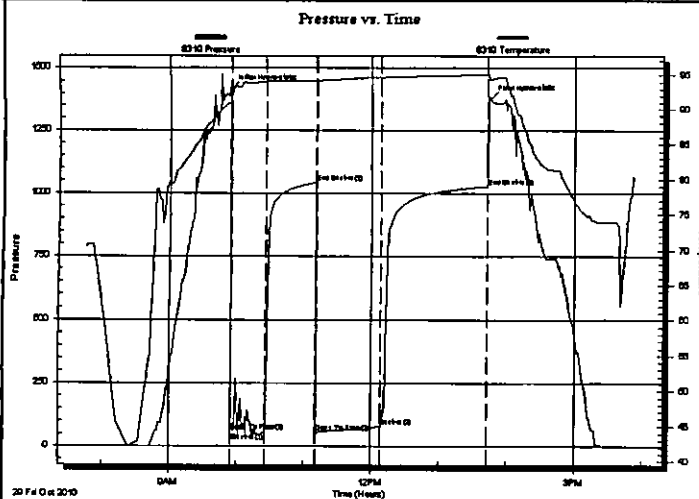
Capacity: 8000.00 psig

Last Calib.: 2010.10.29

Time On Btm: 2010.10.29 @ 09:53:57

Time Off Btm: 2010.10.29 @ 13:44:57

TEST COMMENT: IF-2 1/2in blow died back to 2in
IS-No blow
FF-Very weak surface blow
FSI-No blow



PRESSURE SUMMARY

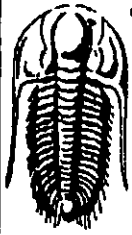
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1416.43	90.79	Initial Hydro-static
1	58.11	92.20	Open To Flow (1)
32	54.61	93.98	Shut-In(1)
77	1042.44	94.13	End Shut-In(1)
77	55.70	93.88	Open To Flow (2)
135	75.75	94.67	Shut-In(2)
229	1029.01	95.07	End Shut-In(2)
231	1380.37	94.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCM 5%O 95%M	0.30
60.00	VSOMCW 2%O 68%W 30%M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Wichita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 40985

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.10.29 @ 07:45:57

Tool Information

Drill Pipe:	Length: 2718.00 ft	Diameter: 3.80 inches	Volume: 38.13 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: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 38.89 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	2880.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

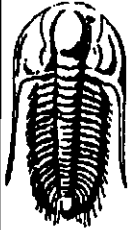
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2861.00	
Shut In Tool	5.00			2866.00	
Hydraulic tool	5.00			2871.00	
Packer	4.00			2875.00	20.00 Bottom Of Top Packer
Packer	5.00			2880.00	
Stubb	1.00			2881.00	
Perforations	1.00			2882.00	
Recorder	0.00	8319	Inside	2882.00	
Recorder	0.00	6719	Outside	2882.00	
Perforations	15.00			2897.00	
Bullnose	3.00			2900.00	20.00 Bottom Packers & Anchor

Total Tool Length: 40.00

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**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Witchita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 40985

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.10.29 @ 07:45:57

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:

55000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	VSOCM 5%O 95%M	0.295
60.00	VSOMCW 2%O 68%W 30%M	0.295

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

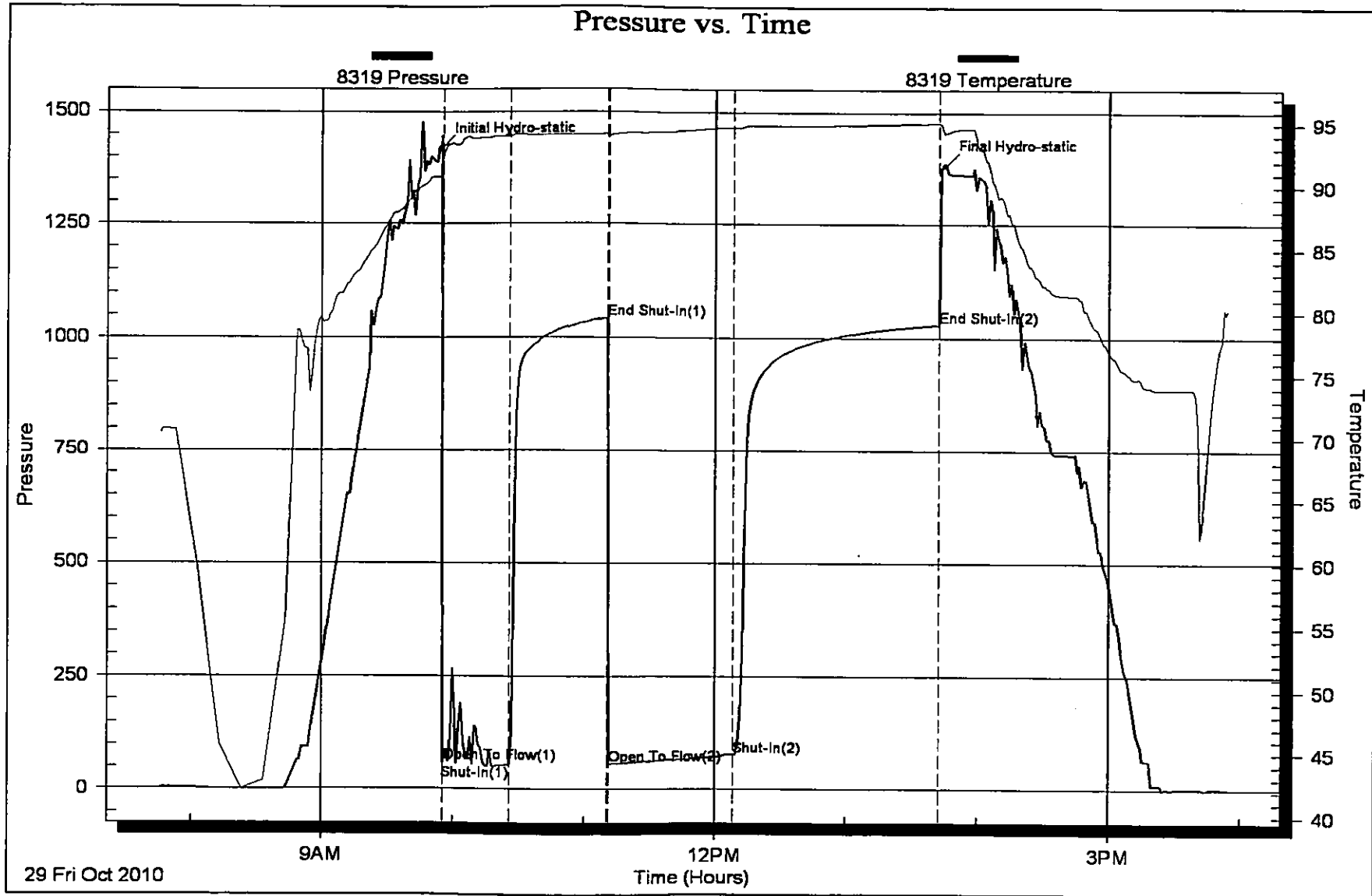
Num Gas Bombs: 0

Serial #:

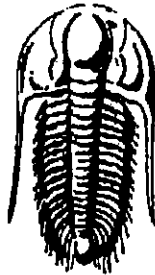
Laboratory Name:

Laboratory Location:

Recovery Comments:



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

8-10s-14w Osborne Ks

Tim #1-8

Start Date: 2010.10.30 @ 11:17:39

End Date: 2010.10.30 @ 18:42:39

Job Ticket #: 41093 DST #: 2

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

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Printed: 2010.11.11 @ 20:58:04 Page 1

Murfin Drilling Co. Inc.

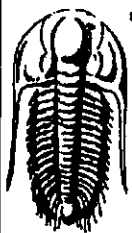
Tim #1-8

8-10s-14w Osborne Ks

DST # 2

Toronto & Lansing A

2010.10.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

Tim #1-8

8-10s-14w Osborne Ks

Job Ticket: 41093

DST#: 2

Test Start: 2010.10.30 @ 11:17:39

GENERAL INFORMATION:

Formation: Toronto & Lansing A

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:57:39

Time Test Ended: 18:42:39

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 47

Interval: 3108.00 ft (KB) To 3173.00 ft (KB) (TVD)

Total Depth: 3173.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1953.00 ft (KB)

1948.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 35.87 psig @ 3110.00 ft (KB)

Start Date: 2010.10.30

End Date:

2010.10.30

Start Time: 11:17:44

End Time:

18:42:38

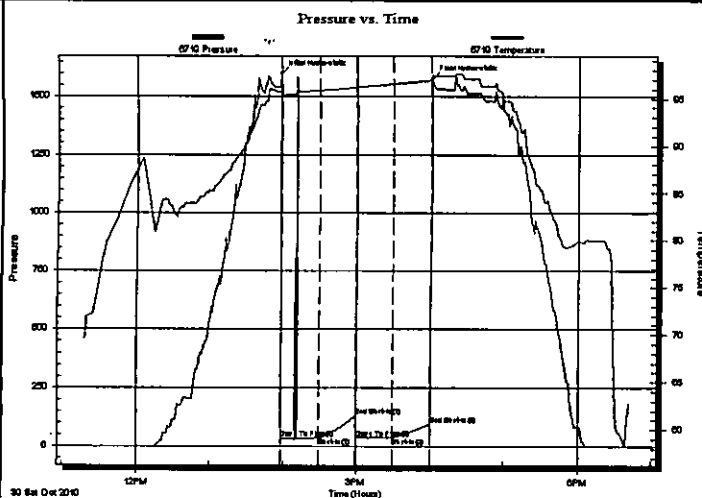
Capacity: 8000.00 psig

Last Calib.: 2010.10.30

Time On Btm: 2010.10.30 @ 13:57:09

Time Off Btm: 2010.10.30 @ 16:01:09

TEST COMMENT: IF-Few bubbles. Flushed tool. Weak surface blow for 45 seconds.
ISI-No Return.
FF-No Blow.
FSI-No Return.



PRESSURE SUMMARY

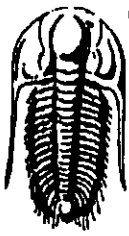
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.80	95.76	Initial Hydro-static
1	32.04	95.44	Open To Flow (1)
32	35.50	95.90	Shut-in(1)
62	128.45	96.22	End Shut-in(1)
63	35.51	96.22	Open To Flow (2)
93	35.87	96.60	Shut-in(2)
123	93.24	96.97	End Shut-in(2)
124	1574.15	97.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	100%Mud/Skim oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Wichita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41093

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2010.10.30 @ 11:17:39

Tool Information

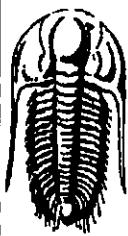
Drill Pipe:	Length: 2965.00 ft	Diameter: 3.80 inches	Volume: 41.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 42.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3108.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	87.00 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			3087.00	
Shut In Tool	5.00			3092.00	
Hydraulic tool	5.00			3097.00	
Safety Joint	2.00			3099.00	
Packer	4.00			3103.00	22.00 Bottom Of Top Packer
Packer	5.00			3108.00	
Stubb	1.00			3109.00	
Change Over Sub	1.00			3110.00	
Recorder	0.00	8319	Inside	3110.00	
Recorder	0.00	6719	Inside	3110.00	
Drill Pipe	32.00			3142.00	
Change Over Sub	1.00			3143.00	
Perforations	27.00			3170.00	
Bullnose	3.00			3173.00	65.00 Bottom Packers & Anchor

Total Tool Length: 87.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Wichita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41093

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2010.10.30 @ 11:17:39

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	100% Mud/Skim oil	0.015

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

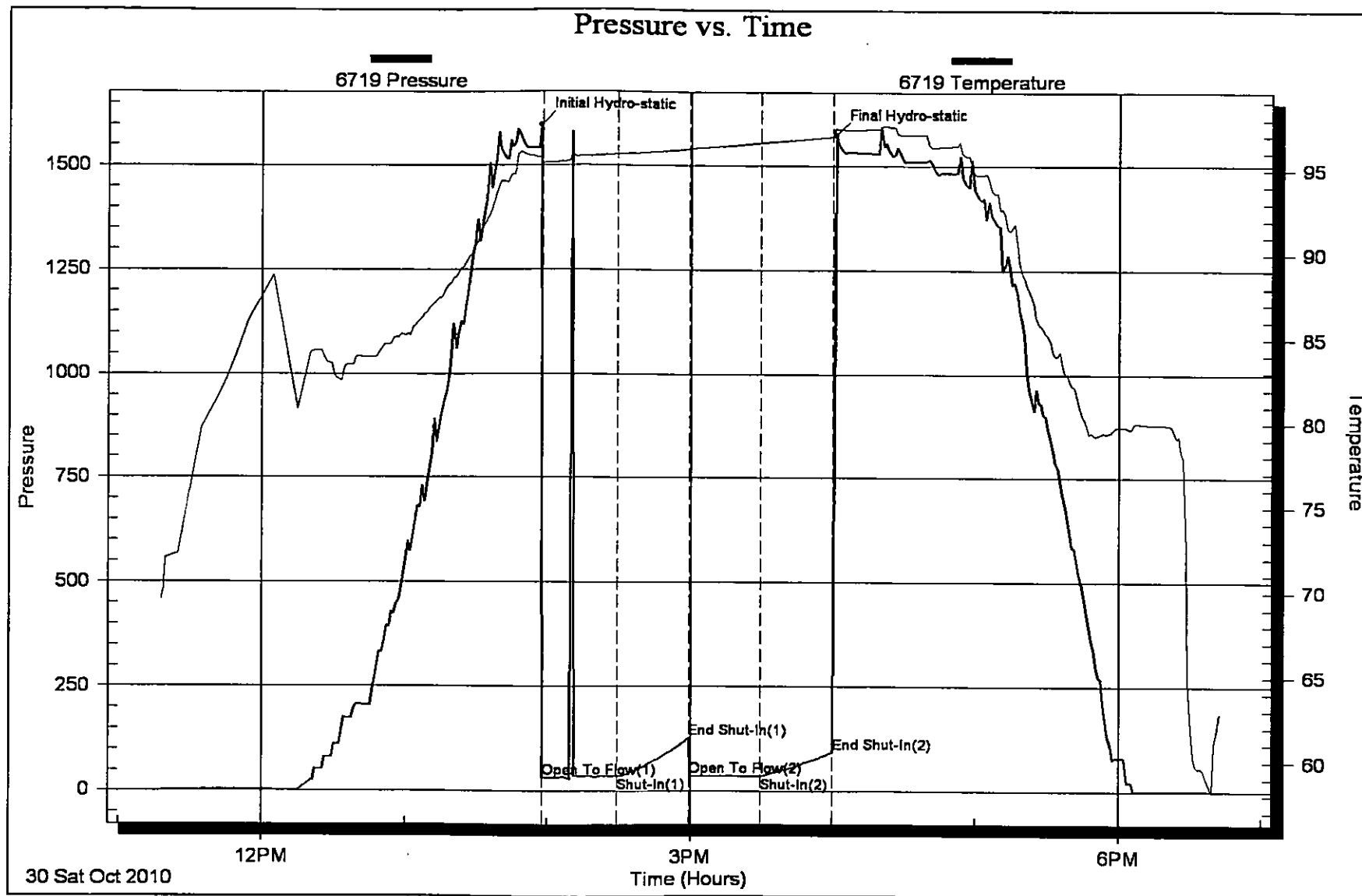
Num Gas Bombs: 0

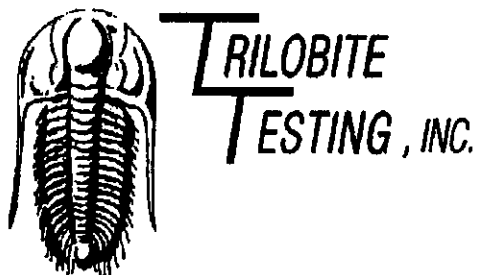
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

8-10s-14w Osborne Ks

Tim #1-8

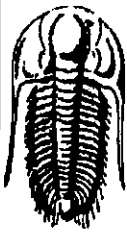
Start Date: 2010.10.31 @ 00:50:59

End Date: 2010.10.31 @ 09:19:29

Job Ticket #: 41094 DST #: 3

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

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DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

Tim #1-8

8-10s-14w Osborne Ks

Job Ticket: 41094

DST#: 3

Test Start: 2010.10.31 @ 00:50:59

GENERAL INFORMATION:

Formation: LKC "B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:59

Time Test Ended: 09:19:29

Interval: 3175.00 ft (KB) To 3196.00 ft (KB) (TVD)

Total Depth: 3196.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 47

Reference Elevations: 1953.00 ft (KB)

1948.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 32.07 psig @ 3178.00 ft (KB)

Start Date: 2010.10.31

End Date: 2010.10.31

Start Time: 00:51:04

End Time: 09:19:28

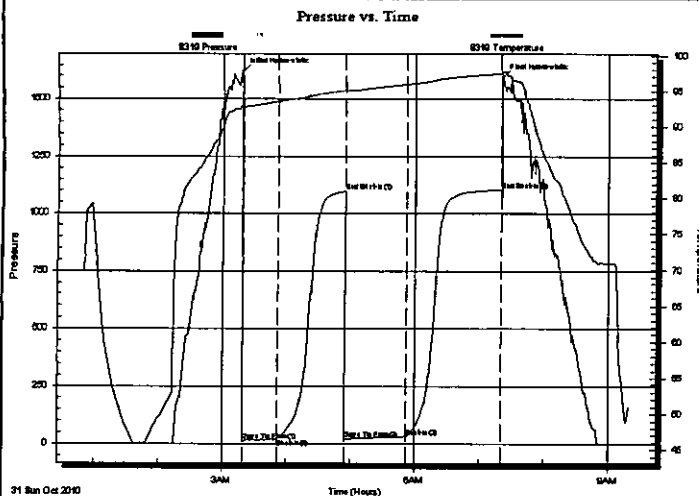
Capacity: 8000.00 psig

Last Calib.: 2010.10.31

Time On Btm: 2010.10.31 @ 03:18:29

Time Off Btm: 2010.10.31 @ 07:21:59

TEST COMMENT: IF-Weak building blow . Built to 2.5 inches.
ISI-No Return.
FF-Weak building blow . Built to 8 inches.
FSI-No Return.



PRESSURE SUMMARY

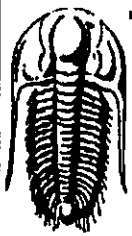
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1619.61	92.96	Initial Hydro-static
1	13.98	92.66	Open To Flow (1)
33	20.59	93.50	Shut-In(1)
96	1097.14	95.09	End Shut-In(1)
96	22.20	94.86	Open To Flow (2)
154	32.07	95.96	Shut-In(2)
243	1101.93	97.46	End Shut-In(2)
244	1594.78	97.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	40%O/40%M/20%G	0.10
0.00	100' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Wichita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41094

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.10.31 @ 00:50:59

Tool Information

Drill Pipe:	Length: 3014.00 ft	Diameter: 3.80 inches	Volume: 42.28 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: 22000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 5000.00 lb
		Total Volume: 43.04 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3175.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

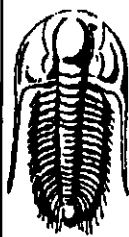
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3154.00	
Shut In Tool	5.00			3159.00	
Hydraulic tool	5.00			3164.00	
Safety Joint	2.00			3166.00	
Packer	4.00			3170.00	22.00 Bottom Of Top Packer
Packer	5.00			3175.00	
Stubb	1.00			3176.00	
Perforations	2.00			3178.00	
Recorder	0.00	8319	Inside	3178.00	
Recorder	0.00	6719	Outside	3178.00	
Perforations	15.00			3193.00	
Bullnose	3.00			3196.00	21.00 Bottom Packers & Anchor

Total Tool Length: 43.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Witchita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41094

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.10.31 @ 00:50:59

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	40%O/40%M/20%G	0.098
0.00	100' G.I.P.	0.000

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

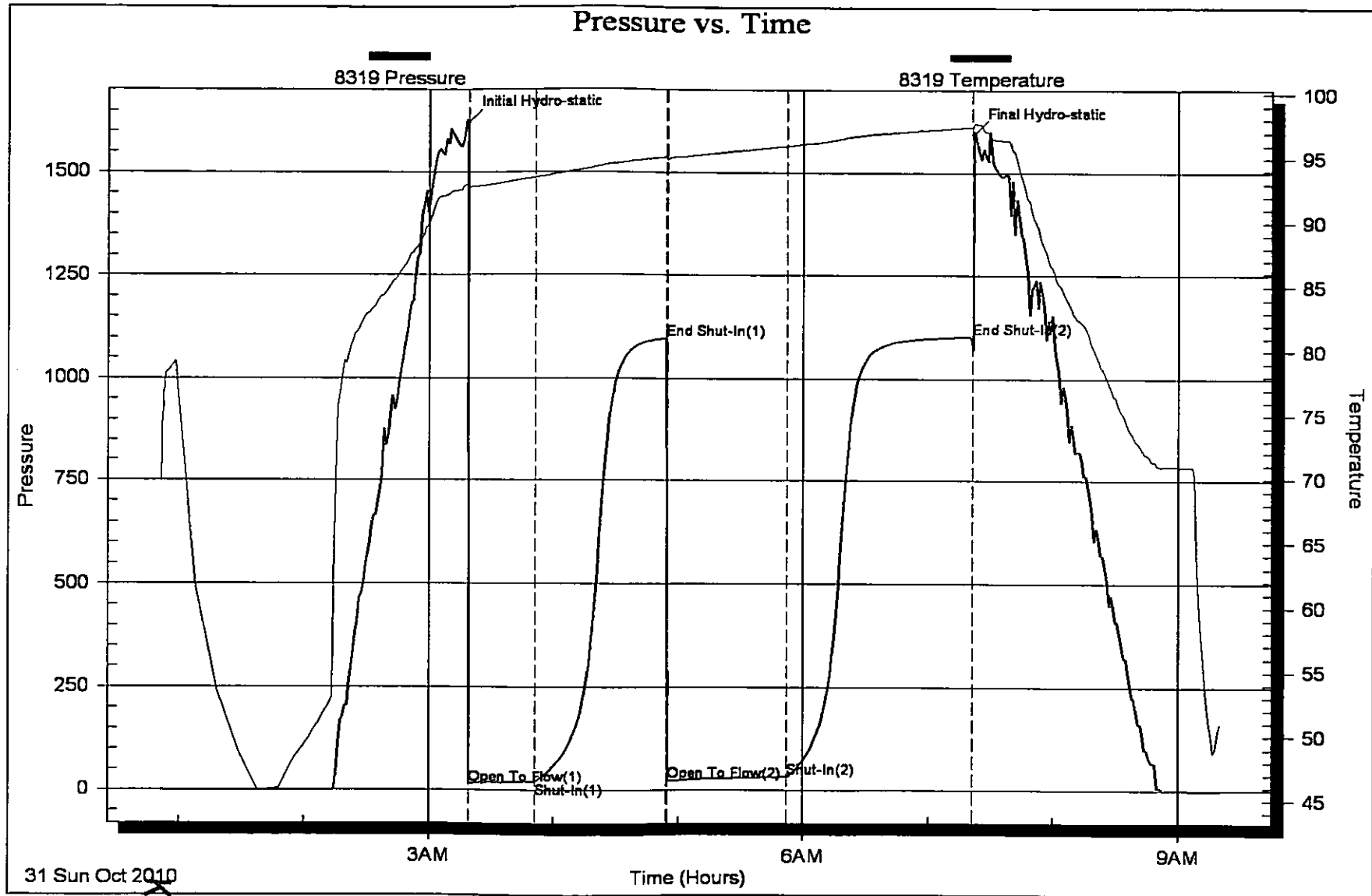
Num Gas Bombs: 0

Serial #:

Laboratory Name:

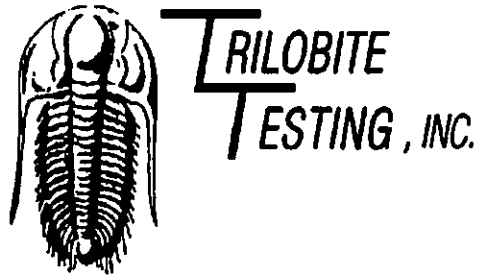
Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

8-10s-14w Osborne Ks

Tim #1-8

Start Date: 2010.10.31 @ 16:04:46

End Date: 2010.11.01 @ 00:30:46

Job Ticket #: 41095 DST #: 4

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

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TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Wichita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41095

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.10.31 @ 16:04:46

GENERAL INFORMATION:

Formation: LKC "C&D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:12:46

Time Test Ended: 00:30:46

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 47

Interval: 3194.00 ft (KB) To 3218.00 ft (KB) (TVD)

Reference Elevations: 1953.00 ft (KB)

Total Depth: 3218.00 ft (KB) (TVD)

1948.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 6719

Inside

Press@RunDepth: 26.21 psig @ 3195.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.31

End Date: 2010.11.01

Last Calib.: 2010.11.01

Start Time: 16:04:51

End Time: 00:30:45

Time On Btm: 2010.10.31 @ 19:12:16

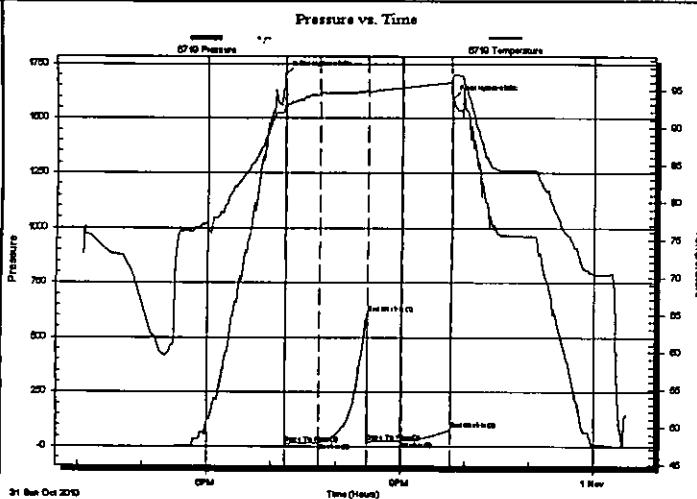
Time Off Btm: 2010.10.31 @ 21:47:46

TEST COMMENT: IF-Weak surface blow. Surging @ 20 minutes.

ISI-No Return.

FF-Weak surface blow @ 9 minutes. Surging @ 15 minutes. Died @ 22 minutes.

FSI-No Return.



PRESSURE SUMMARY

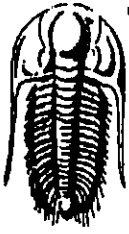
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.86	92.98	Initial Hydro-static
1	14.31	92.94	Open To Flow (1)
32	18.74	94.54	Shut-In(1)
77	610.70	94.87	End Shut-In(1)
77	22.90	94.74	Open To Flow (2)
109	26.21	95.34	Shut-In(2)
155	78.44	96.05	End Shut-In(2)
156	1590.92	96.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%Oil	0.00
5.00	98%Mud/2%Oil	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N Water STE 300
Wichita Ks 67202
ATTN: Paul Gunzelman

Tim #1-8
8-10s-14w Osborne Ks
Job Ticket: 41095 DST#: 4
Test Start: 2010.10.31 @ 16:04:46

Tool Information

Drill Pipe:	Length: 3031.00 ft	Diameter: 3.80 inches	Volume: 42.52 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: 24000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 43.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3194.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	46.00 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			3173.00	
Shut In Tool	5.00			3178.00	
Hydraulic tool	5.00			3183.00	
Safety Joint	2.00			3185.00	
Packer	4.00			3189.00	22.00 Bottom Of Top Packer
Packer	5.00			3194.00	
Stubb	1.00			3195.00	
Recorder	0.00	6719	Inside	3195.00	
Recorder	0.00	8319	Outside	3195.00	
Perforations	20.00			3215.00	
Bullnose	3.00			3218.00	24.00 Bottom Packers & Anchor

Total Tool Length: 46.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Wichita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41095

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.10.31 @ 16:04:46

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%Oil	0.005
5.00	98%Mud/2%Oil	0.025

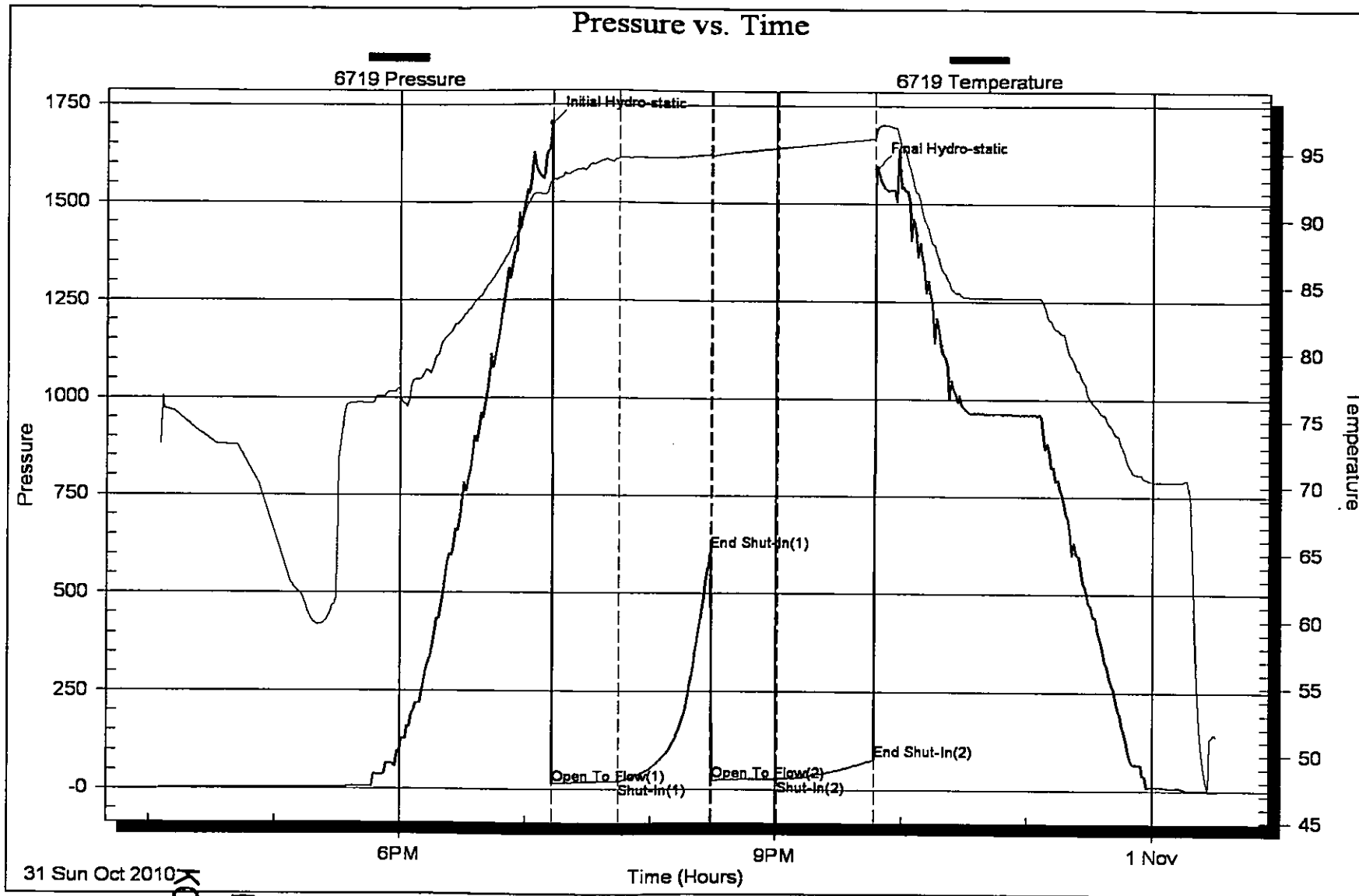
Total Length: 6.00 ft Total Volume: 0.030 bbl

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

Laboratory Name: Laboratory Location:

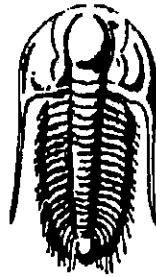
Recovery Comments:

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31 Sun Oct 2010

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc.**

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

8-10s-14w Osborne Ks

Tim #1-8

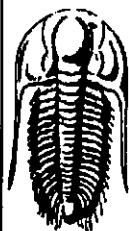
Start Date: 2010.11.01 @ 16:14:59

End Date: 2010.11.02 @ 00:03:29

Job Ticket #: 41096 DST #: 5

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co. Inc.

250 N Water STE 300
Wichita Ks 67202

ATTN: Paul Gunzelman

Tim #1-8

8-10s-14w Osborne Ks

Job Ticket: 41096

DST#: 5

Test Start: 2010.11.01 @ 16:14:59

GENERAL INFORMATION:

Formation: LKC "G-K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:56:59

Time Test Ended: 00:03:29

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 47

Interval: 3240.00 ft (KB) To 3392.00 ft (KB) (TVD)

Total Depth: 3392.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1953.00 ft (KB)

1948.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8319

Outside

Press@RunDepth: 159.59 psig @ 3369.00 ft (KB)

Start Date: 2010.11.01

End Date: 2010.11.02

Start Time: 16:15:04

End Time: 00:03:28

Capacity: 8000.00 psig

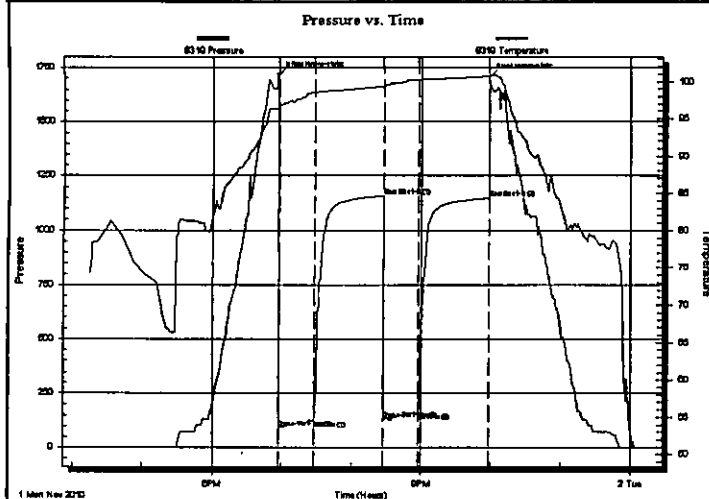
Last Calib.: 2010.11.02

Time On Btm: 2010.11.01 @ 18:55:59

Time Off Btm: 2010.11.01 @ 21:58:29

TEST COMMENT: IF-Weak building blow . Built to 3.5 inches.
IS-No Return.
FF-Weak surface blow @ 7.5 minutes. Built to 1.5 inches.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.87	96.38	Initial Hydro-static
1	90.50	96.39	Open To Flow (1)
32	123.97	98.54	Shut-In(1)
91	1158.79	99.35	End Shut-In(1)
92	130.07	99.21	Open To Flow (2)
122	159.59	100.17	Shut-In(2)
182	1149.41	100.71	End Shut-In(2)
183	1707.33	100.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	100%Mud	0.69

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co. Inc.
250 N Water STE 300
Wichita Ks 67202
ATTN: Paul Gunzelman

Tim #1-8
8-10s-14w Osborne Ks
Job Ticket: 41096 DST#: 5
Test Start: 2010.11.01 @ 16:14:59

Tool Information

Drill Pipe:	Length: 3090.00 ft	Diameter: 3.80 inches	Volume: 43.34 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: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 4000.00 lb
			<u>Total Volume: 44.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: initial 50000.00 lb
Depth to Top Packer:	3240.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	152.00 ft			
Tool Length:	180.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

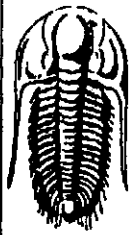
Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3213.00	
Shut In Tool	5.00			3218.00	
Hydraulic tool	5.00			3223.00	
Jars	5.00			3228.00	
Safety Joint	2.00			3230.00	
Packer	5.00			3235.00	28.00 Bottom Of Top Packer
Packer	5.00			3240.00	
Stubb	1.00			3241.00	
Change Over Sub	1.00			3242.00	
Drill Pipe	126.00			3368.00	
Change Over Sub	1.00			3369.00	
Recorder	0.00	6719	Inside	3369.00	
Recorder	0.00	8319	Outside	3369.00	
Perforations	20.00			3389.00	
Bullnose	3.00			3392.00	152.00 Bottom Packers & Anchor

Total Tool Length: 180.00

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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co. Inc.

Tim #1-8

250 N Water STE 300
Witchita Ks 67202

8-10s-14w Osborne Ks

Job Ticket: 41096

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2010.11.01 @ 16:14:59

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
140.00	100%Mud	0.688

Total Length: 140.00 ft

Total Volume: 0.688 bbl

Num Fluid Samples: 0

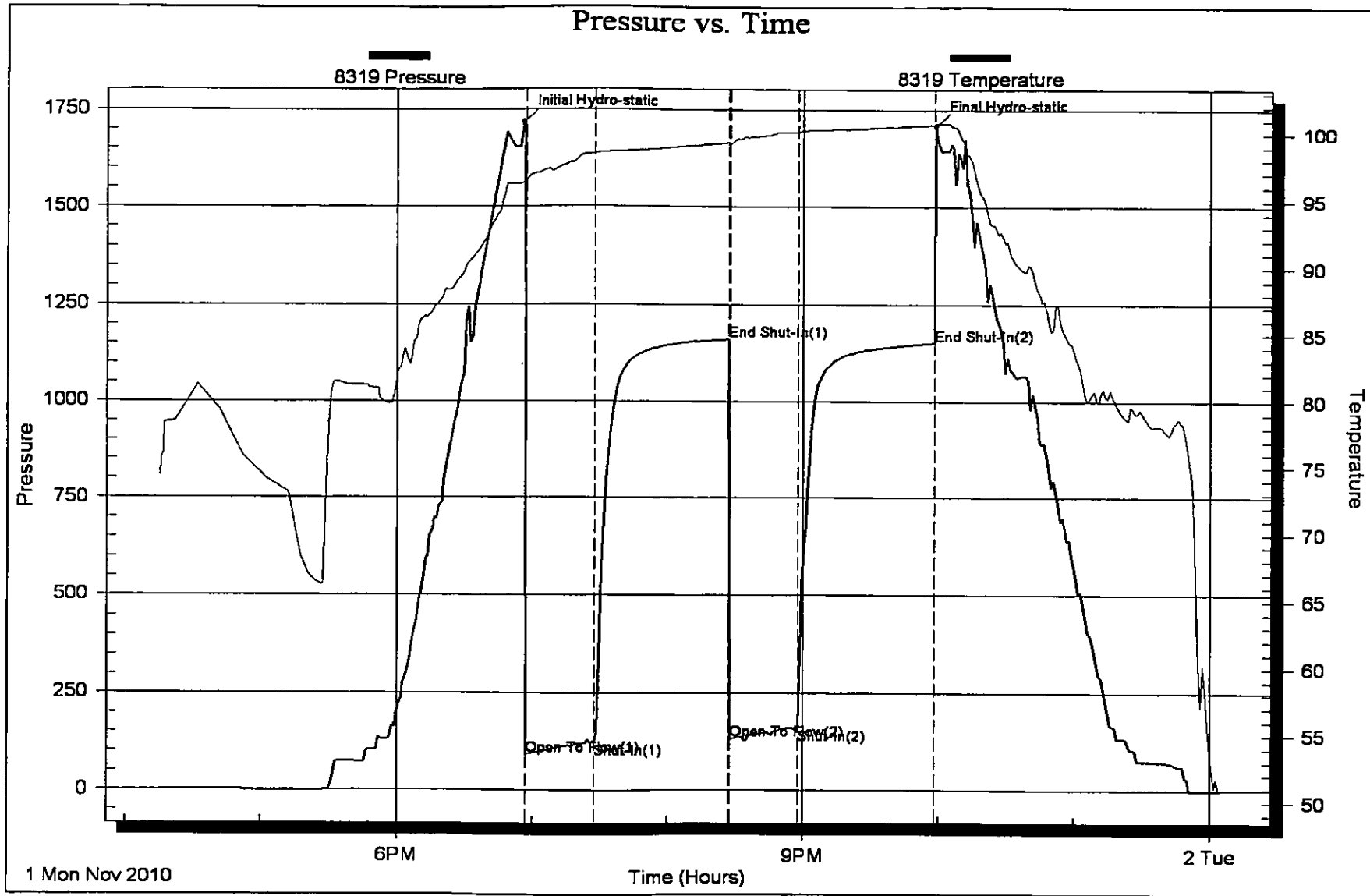
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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