

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

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: Bob Stolze
Purchaser: N/A

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

01/18/2010	01/28/10	Waiting On Completion
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 109-20882-0000
Spot Description: _____
W2_E2_NE_NW Sec. 36 Twp. 12 S. R. 33 East West
660 Feet from North / South Line of Section
2,280 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: GMS Well #: 1-36
Field Name: Unknown
Producing Formation: N/A
Elevation: Ground: 3090 Kelly Bushing: 3095
Total Depth: 4750 Plug Back Total Depth: 4725
Amount of Surface Pipe Set and Cemented at: 206 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2600 Feet
If Alternate II completion, cement circulated from: 2600
feet depth to: surface w/ 325 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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: [Signature]
Title: Production Assistant Date: 03/23/2011

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 3/20/11

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Operator Name: Murfin Drilling Company, Inc. Lease Name: GMS Well #: 1-36
 Sec. 36 Twp. 12 S. R. 33 East West County: Logan

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 Shoots)</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
---	--

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	206	Common	170	3% cc, 2% gel
Production		4 1/2	15.5	4746	EA2	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 (Amount and Kind of Material Used)	Depth
4	4265 - 4273 LKC "I"		
4	4628 - 4645 JNS ZN	500 gal 15% MCA, 2000 gal 15% NEFE	
4	4714 - 4718 MISS	250 gal 15% MCA	

TUBING RECORD: Size: <u>N/A</u> Set At: <u>N/A</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SWD or ENHR: <u>N/A</u>	Producing Method: <input type="checkbox"/> Flowing <input 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

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>4265 - 4273</u> RECEIVED MAR 30 2011
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GMS #1-36 660' FNL 2280' FWL Sec. 36-T12S-R33W 3095' KB							Blagg #1-36 650' FNL 1750' FEL Sec. 36-T12S-R33W 3101' KB	
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2585	+510	-3	2586	+509	-4	2588	+513
B/Anhydrite	2608	+487	-4	2608	+487	-4	2610	+491
Topeka	3828	-733	-6	3831	-736	-9	3828	-727
Heebner	4023	-928	-4	4024	-929	-5	4025	-924
Lansing	4060	-971	-4	4072	-977	-10	4068	-967
Stark	4297	-1202	-9	4300	-1201	-8	4294	-1193
Marmaton	4404	-1309	-8	4407	-1312	-11	4402	-1301
Up Pawnee	4497	-1402	-9	4500	-1405	-12	4494	-1393
Johnson	4621	-1526	-7	4620	-1525	-6	4620	-1519
B Penn/Lm	4662	-1567	-19	4660	-1565	-17	4649	-1548
Mississippi				4690	-1595	-13	4683	-1582
RTD	4750						4750	-1649
LTD				4754			4750	-1649

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*Sig
inst.*

INVOICE

24 S. Lincoln Street
 P.O. Box 31
 Russell, KS 67665-2906
 Voice: (785) 483-3887
 Fax: (785) 483-5566

Invoice Number: 121291
 Invoice Date: Jan 18, 2010
 Page: 1

PROD

*operator pay
m d c*

Bill To:
 Murfin Drig. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	GMS #1-36 / <i>β m</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 18, 2010	2/17/10

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	15.45	2,626.50
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
179.00	SER	Handling	2.40	429.60
15.00	SER	Mileage 179 sx @ .10 per sk per mi	17.90	268.50
1.00	SER	Surface	1,018.00	1,018.00
15.00	SER	Pump Truck Mileage	7.00	105.00

Account	Unit Fig	A	No.	Amount	Description
<i>03600</i>	<i>008</i>	<i>00</i>	<i>3582</i>	<i>5050.60</i> <i>(1700.72)</i>	<i>Concret S. Csg.</i>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1700 72

ONLY IF PAID ON OR BEFORE
Feb 12, 2010

Subtotal	4,859.20
Sales Tax	191.40
Total Invoice Amount	5,050.60
Payment/Credit Applied	
TOTAL	5,050.60

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mm
1700.72
3349.88

ALLIED CEMENTING CO.. LLC. 043774

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Oakley

DATE <u>1-18-10</u>	SEC. <u>36</u>	TWP. <u>12s</u>	RANGE <u>33w</u>	CALLED OUT	ON LOCATION <u>7:00pm</u>	JOB START <u>8:30am</u>	JOB FINISH <u>9:00am</u>
LEASE <u>Gms</u>	WELL# <u>1-36</u>	LOCATION <u>Oakley</u>	<u>95 4W 345</u>	COUNTY <u>Logan</u>	STATE <u>KS</u>		
OLD OR (NEW) (Circle one)		<u>New Kas into</u>					

CONTRACTOR Murfin Drilling Rig 8 OWNER same

TYPE OF JOB surface

HOLE SIZE 12 1/4 T.D. 206' CEMENT AMOUNT ORDERED 170 sks com 3% gel

CASING SIZE 8 5/8 DEPTH 206' 2% gel

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12.16

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Larene

BULK TRUCK

347 DRIVER Jerry

BULK TRUCK

DRIVER

HANDLING 129 sks @ 2.40 429.60

MILEAGE 10 1/2 sks/mile 268.50

TOTAL 376.20

REMARKS:

Cement did circulate

thank you

CHARGE TO: Murfin

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 206'

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE @

MILEAGE 15 MILES @ 7.00 105.00

MANIFOLD @

@

@

TOTAL 1123.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Rodney Fair

SIGNATURE Rodney Fair

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P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

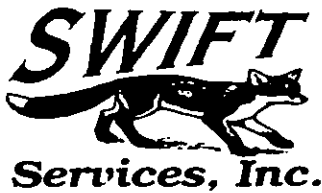
DATE	INVOICE #
2/4/2010	17508

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-36	G.M.S.	Logan	Company Rig	Oil	Development	Port Collar	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
578D-D	Pump Charge - Port Collar				1	Job	1,400.00	1,400.00
279	Bentonite Gel				4	Sack(s)	20.00	80.00T
290	D-Air				3	Gallon(s)	35.00	105.00T
330	Swift Multi-Density Standard (MIDCON II)				325	Sacks	14.00	4,550.00T
276	Flocele				200	Lb(s)	1.50	300.00T
581D	Service Charge Cement				400	Sacks	1.50	600.00
583D	Drayage				1,436.4	Ton Miles	1.00	1,436.40
	Subtotal							8,821.40
	Sales Tax Logan County						6.30%	317.21
USED FOR NEW WELL APPROVED JR								
Thank You For Your Business!							Total RECEIVED	\$9,138.61

MAR 30 2011
 KCC WICHITA



CHARGE TO: MURFIN DRUG
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET
17508

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>HA 45</u>	WELL/PROJECT NO. <u>1-36</u>	LEASE <u>G.M.S.</u>	COUNTY/PARISH <u>LOGAN</u>	STATE <u>KS</u>	CITY	DATE <u>02-04-10</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>CD RIG</u>	SHIPPED VIA <u>C.T.</u>	DELIVERED TO <u>105, 4w, 1/4s, W. S. S. DRILEY</u>	ORDER NO.	RECEIVED MAR 30 2010 KCC WICHITA
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOP</u>	JOB PURPOSE <u>PORT COLLAR</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #112	70	mi			5.00	350	00
578		1			Pump SERVICE	1	EA			1400.00	1400	00
279		1			BENTONITE GEL	4	SK			20.00	80	00
290		1			D-AIR	3	BAK			35.00	105	00
330		2			SMD CMT	225	SK			14.00	4550	00
276		2			FIOCEFE	200	BB			1.50	300	00
581		2			SERVICE CHG CMT	400	SK			1.50	600	00
583		2			DRAYAGE	1436.4	TM			1.00	1436	40

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]
 DATE SIGNED 02-04-10 TIME SIGNED 11:15 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					8821 40
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Logan TAX 6.3%	317 21
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	9138 61
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 02-01-10 PAGE NO. 1

CUSTOMER MURFIN WELL NO. 136 LEASE G.M.S. JOB TYPE PORTWELL TICKET NO. 17508

CHART NO.	TIME	RATE (BPM)	VOLUME (BB) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1115							ON LOCATION CMT: 400 S/S SMD w/ 1/2" FIBER 1000# GEL 2 3/8" x 4 1/2" P.C. @ 2600 WAIT ON CMT
	1440				✓	1000	1000	PSI TEST OPEN P.C.
	1450	3.0	30	✓		500		INJECTION RATE
		40	0	✓		500		START GEL
			130	✓				CIRC, END GEL 400#
		4.2	10.0	✓		500		START H2O SPACER
		4.2	0	✓		500		START CMT @ 112#
			168.0	✓		700		CIRC CMT MIX 14#
			174.0	✓		800		END CMT
			9.0	✓		800		DISP CLOSE P.C.
	1545				✓	1100	1100	PSI TEST RUN JOINTS IN
	1605	2.5	0		✓	300		REV. OUT
			10		✓	200		1ST FLG
			15		✓	200		2ND FLG
	1615		20		✓	200		CLEAN
	1700							JOB COMPLETE
								THANK YOU! DANGER, JASON

TOTAL CMT 325 S/S
20 S/S TO P. 1

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P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
1/29/2010	16869

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

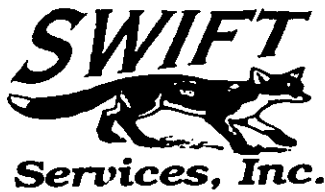
TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-36	GMS	Logan	Company Tools	Oil	Development	LongString	Nick

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	5.00	350.00
578D-L	Pump Charge - Long String	1	Job	1,400.00	1,400.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
280	Flocheck 21	500	Gallon(s)	2.50	1,250.00T
290	D-Air	2	Gallon(s)	35.00	70.00T
402-4	4 1/2" Centralizer	10	Each	50.00	500.00T
403-4	4 1/2" Cement Basket	2	Each	180.00	360.00T
404-4	4 1/2" Port Collar	1	Each	1,900.00	1,900.00T
406-4	4 1/2" Latch Down Plug & Baffle	1	Each	200.00	200.00T
407-4	4 1/2" Insert Float Shoe With Auto Fill	1	Each	225.00	225.00T
413-4	4 1/2" Roto Wall Scratcher	5	Each	40.00	200.00T
419-4	4 1/2" Rotating Head Rental	1	Each	150.00	150.00T
325	Standard Cement	225	Sacks	11.00	2,475.00T
276	Flocele	50	Lb(s)	1.50	75.00T
283	Salt	1,150	Lb(s)	0.15	172.50T
284	Calseal	11	Sack(s)	30.00	330.00T
285	CFR-1	150	Lb(s)	4.00	600.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	826	Ton Miles	1.00	826.00
	Subtotal				11,521.00
	Sales Tax Logan County			6.30%	542.27

USED FOR NEW WELL
APPROVED [Signature]

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MAR 30 2011
KCC WICHITA

Thank You For Your Business In 2009! We Look Forward To Serving You In 2010!	Total	\$12,063.27
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CHARGE TO: Murfin Drlg Co. Inc.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

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 XCO WICHITA

TICKET No 16869

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Hays, Ks.</u>	WELL/PROJECT NO. <u>#1-36</u>	LEASE <u>GMS</u>	COUNTY/PARISH <u>Logan</u>	STATE <u>Ks</u>	CITY	DATE <u>1-29-10</u>	OWNER <u>SCM 2</u>
2. <u>Ness City, Ks.</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Cc Tools</u>	RIG NAME NO.	SHIPPED VIA <u>Location</u>	DELIVERED TO	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Longstring</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
575		1			MILEAGE #111	70	mi	5	00	350 00
578		1			Pump Charge (Longstring)	1	ca	43	1400	1400 00
221		1			KCL	4	gal	25	00	100 00
280		1			Flocheck-21	500	gal	2	50	1250 00
290		1			D-Air	2	gal	35	00	70 00
402		1			Centralizers	10	ca	4 1/2	00	500 00
403		1			Baskets	2	ca	180	00	360 00
404		1			Port Cellar	1	ca	1900	00	1900 00
406		1			L.D. Plug + Barrel	1	ca	200	00	200 00
407		1			Insert Float Shoe w/fill	1	ca	275	00	275 00
413		1			Retiwall Scratchers	5	ca	40	00	200 00
419		1			Rotating Head	1	ca	150	00	150 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X Bob Schas
 DATE SIGNED 1-29-10 TIME SIGNED 1330 AM P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 1	0
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				page 2	6785 00
WE UNDERSTOOD AND MET YOUR NEEDS?					4816 00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub total	7187 00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					11,521 00
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		Logan TAX 6.3%	2 27
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	545 ##
					063 27
					12,116 ##

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

SWIFT OPERATOR Nick Kaybe APPROVAL _____

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 16869

CUSTOMER *Martin Drlg Co Inc* WELL # *1-36 GMS* DATE *1-29-10* PAGE *2* OF *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF									
325		2				Standard Cement	225	sk			11 ⁰⁰	2475	00
276		2				Floccle	50	#			1 ⁵⁰	75	00
283		2				Salt	1150	#			15	172	50
284		2				Calseal	11	sk			30 ⁰⁰	330	00
285		2				CFR-1	150	#			4 ⁰⁰	600	00
RECEIVED MAR 30 2011 KCC WICHITA													
581		2				SERVICE CHARGE	225	sk			1 ⁵⁰	337	50
553		2				MILEAGE CHARGE	TOTAL WEIGHT		LOADED MILES	TON MILES	1 ⁰⁰	826	00
											23600	70	826

CONTINUATION TOTAL 4816⁰⁰

JOB LOG

SWIFT Services, Inc.

DATE 1-29-10 PAGE NO. 1

CUSTOMER Martin Drilling Co. Inc.

WELL NO. #1-36

LEASE GMS

JOB TYPE Longstring

TICKET NO. 16869

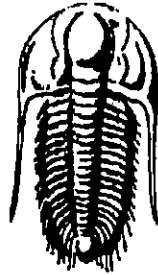
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							on loc w/ FE
								RTD, 4750'
								4 1/2" x 4747' x 15'
								Cent, 1-9, 50
								Basks 50, 51
								P.C. 2601' on Top 51
	0900							Start FE
	1010							Break Circ @ 2750'
	1125							on Biton Break Circ
	1235	5	0			250		Start KCL Flush
	1238	5	15/0			250		Start Flocheck-21
	1240	5	12/0			250		start KCL Flush
	1241	4	5/0			200		Start Cement 175sks EA-2
	1251		42					End Cement
								wash Pump & Line
								Drop & D. Plug
	1300	8	0			300		Start Displacement
	1307	6	58			250		Catch Cement
	1310		75			750 1100		Land Plug
								Release Pressure
								Float Held
	1315	2.5	7/9					Plug B.H+M.H 50sks EA-2

RECEIVED

MAR 30 2011

Thank you KCC WICHITA

Nick, Doug, Don & Jason P.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolzle

36 12S 33W Logan KS

GMS #1-36

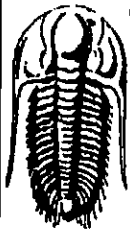
Start Date: 2010.01.24 @ 01:25:05

End Date: 2010.01.24 @ 10:07:00

Job Ticket #: 37757 DST #: 1

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

RECEIVED
MAR 30 2011
KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolze

GMS #1-36

36 12S 33W Logan KS

Job Ticket: 37757

DST#: 1

Test Start: 2010.01.24 @ 01:25:05

GENERAL INFORMATION:

Formation: LKC B, D, E & F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:34:15

Time Test Ended: 10:07:00

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: 4077.00 ft (KB) To 4170.00 ft (KB) (TVD)

Total Depth: 4170.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3095.00 ft (KB)

3090.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322

Inside

Press@RunDepth: 209.65 psig @ 4078.00 ft (KB)

Start Date: 2010.01.24

End Date:

2010.01.24

Capacity: 8000.00 psig

Last Calib.: 2010.01.24

Start Time: 01:25:05

End Time:

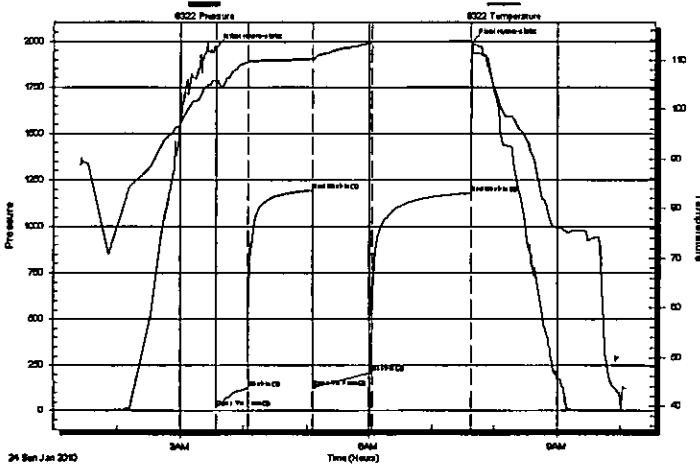
10:07:00

Time On Btm: 2010.01.24 @ 03:33:45

Time Off Btm: 2010.01.24 @ 07:38:30

TEST COMMENT: IF: BOB in 28 mins.
IS: No return.
FF: BOB in 51 mins.
FS: No return.

Pressure vs. Time



24 Jan 2010

PRESSURE SUMMARY

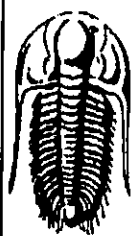
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.57	105.47	Initial Hydro-static
1	20.35	105.20	Open To Flow (1)
31	122.63	109.55	Shut-In(1)
92	1194.01	110.27	End Shut-In(1)
93	125.57	110.01	Open To Flow (2)
149	209.65	113.47	Shut-In(2)
244	1178.25	113.91	End Shut-In(2)
245	1995.07	113.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
220.00	W&M 50%w 50% m	1.71
170.00	WCM 30%w 70% m	2.38
0.00	RW = 1.6 @ 51F = 5500 ppm	0.00
0.00	GIP = 0	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.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37757

DST#: 1

ATTN: Bob Stozle

Test Start: 2010.01.24 @ 01:25:05

Tool Information

Drill Pipe:	Length: 3888.00 ft	Diameter: 3.80 inches	Volume: 54.54 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4077.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	121.00 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			4050.00	
Shut In Tool	5.00			4055.00	
Hydraulic tool	5.00			4060.00	
Jars	5.00			4065.00	
Safety Joint	3.00			4068.00	
Packer	5.00			4073.00	28.00 Bottom Of Top Packer
Packer	4.00			4077.00	
Stubb	1.00			4078.00	
Recorder	0.00	8322	Inside	4078.00	
Recorder	0.00	6741	Inside	4078.00	
Perforations	22.00			4100.00	
Change Over Sub	1.00			4101.00	
Drill Pipe	63.00			4164.00	
Change Over Sub	1.00			4165.00	
Bullnose	5.00			4170.00	93.00 Bottom Packers & Anchor

Total Tool Length: 121.00

RECEIVED
MAR 30 2011
KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37757

DST#: 1

ATTN: Bob Stoizle

Test Start: 2010.01.24 @ 01:25:05

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:	5500 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.96 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
220.00	W&M 50%w 50%m	1.710
170.00	WCM 30%w 70%m	2.385
0.00	RW = 1.6 @ 51F = 5500 ppm	0.000
0.00	GIP = 0	0.000

Total Length: 420.00 ft Total Volume: 4.243 bbl

Num Fluid Samples: 0

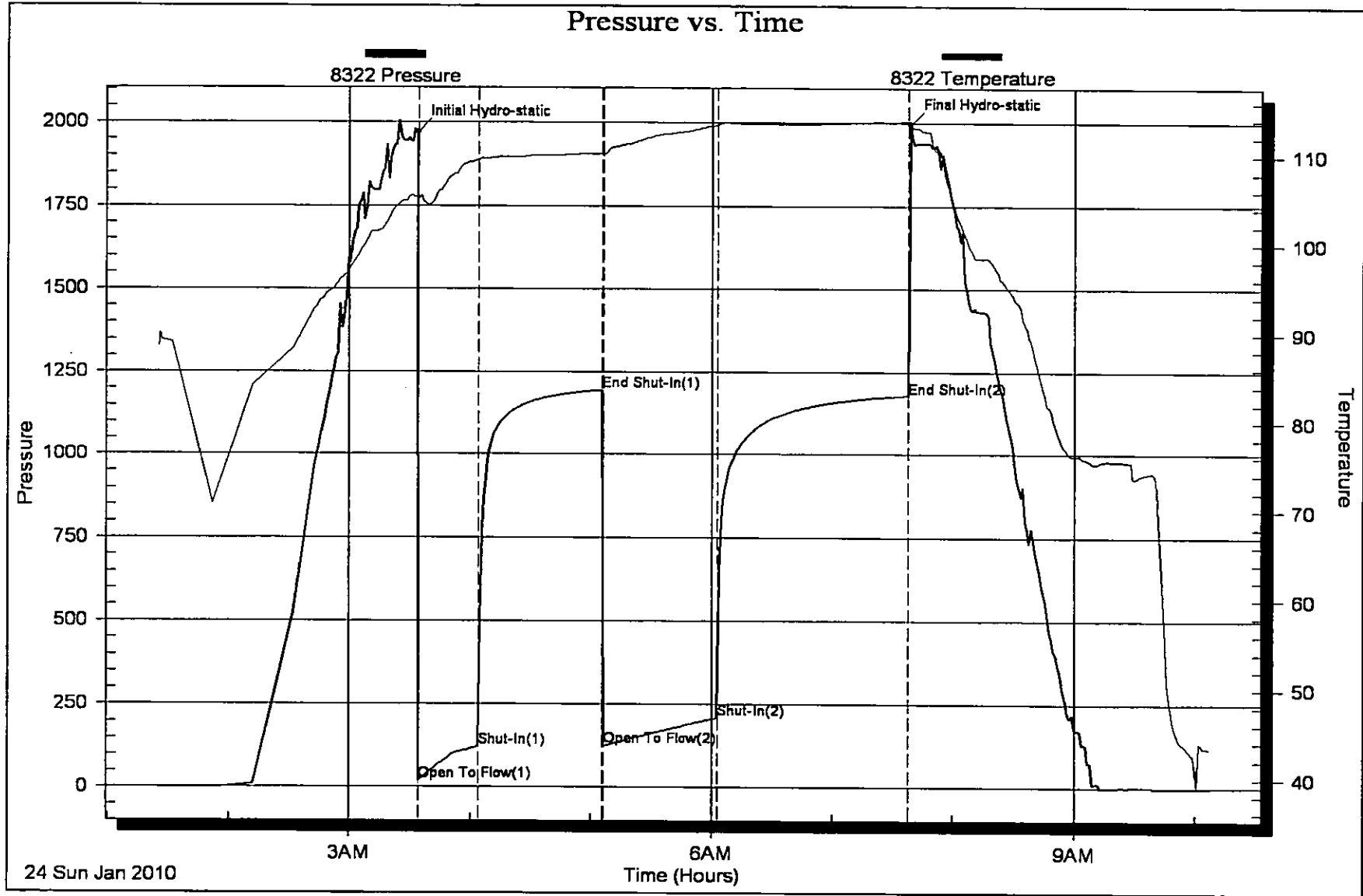
Num Gas Bombs: 0

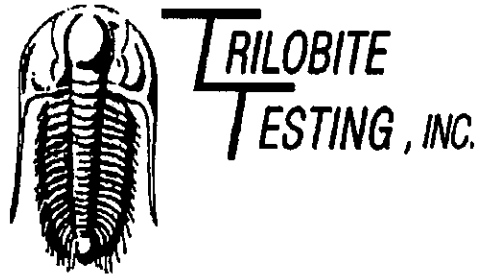
Serial #:

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: Bob Stolze

36 12S 33W Logan KS

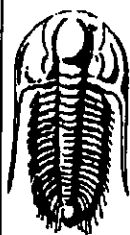
GMS #1-36

Start Date: 2010.01.25 @ 02:30:05

End Date: 2010.01.25 @ 09:37:29

Job Ticket #: 37758 DST #: 2

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37758

DST#: 2

ATTN: Bob Stolze

Test Start: 2010.01.25 @ 02:30:05

GENERAL INFORMATION:

Formation: LKC H, I, & J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:25:00

Time Test Ended: 09:37:29

Test Type: Conventional Bottom Hole

Tester: Brandon Domsch

Unit No: 48

Interval: 4208.00 ft (KB) To 4300.00 ft (KB) (TVD)

Total Depth: 4300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3095.00 ft (KB)

3090.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322

Inside

Press@RunDepth: 37.71 psig @ 4209.00 ft (KB)

Start Date: 2010.01.25 End Date: 2010.01.25

Start Time: 02:30:05 End Time: 09:37:29

Capacity: 8000.00 psig

Last Calib.: 2010.01.25

Time On Btm: 2010.01.25 @ 04:24:45

Time Off Btm: 2010.01.25 @ 07:28:29

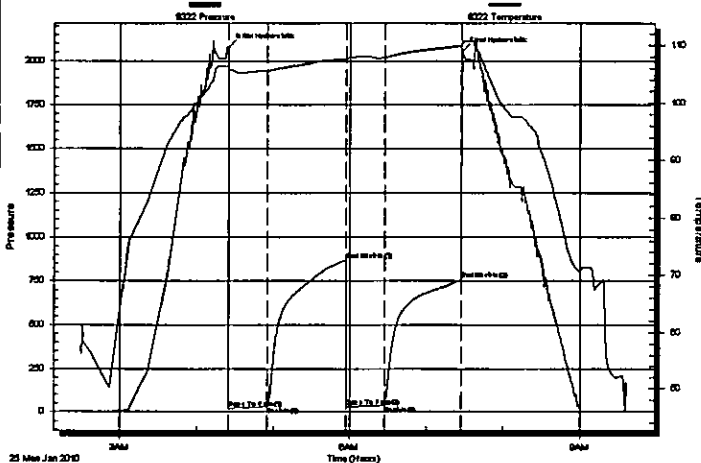
TEST COMMENT: IF: 3/4 inch died in 24 mins.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.94	106.18	Initial Hydro-static
1	19.31	105.80	Open To Flow (1)
31	27.57	105.55	Shut-In(1)
92	868.96	107.78	End Shut-In(1)
93	29.47	107.45	Open To Flow (2)
123	37.71	108.00	Shut-In(2)
183	758.79	109.97	End Shut-In(2)
184	2057.47	110.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	M 100% m	0.15
0.00	GIP = 0	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.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37758

DST#: 2

ATTN: Bob Stolze

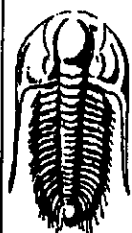
Test Start: 2010.01.25 @ 02:30:05

Tool Information

Drill Pipe:	Length: 4019.00 ft	Diameter: 3.80 inches	Volume: 56.38 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4208.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	120.00 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			4181.00	
Shut In Tool	5.00			4186.00	
Hydraulic tool	5.00			4191.00	
Jars	5.00			4196.00	
Safety Joint	3.00			4199.00	
Packer	5.00			4204.00	28.00 Bottom Of Top Packer
Packer	4.00			4208.00	
Stubb	1.00			4209.00	
Recorder	0.00	8322	inside	4209.00	
Recorder	0.00	6741	inside	4209.00	
Perforations	21.00			4230.00	
Change Over Sub	1.00			4231.00	
Drill Pipe	63.00			4294.00	
Change Over Sub	1.00			4295.00	
Bullnose	5.00			4300.00	92.00 Bottom Packers & Anchor
Total Tool Length:	120.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37758

DST#: 2

ATTN: Bob Stolze

Test Start: 2010.01.25 @ 02:30:05

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	M 100%m	0.148
0.00	GIP = 0	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

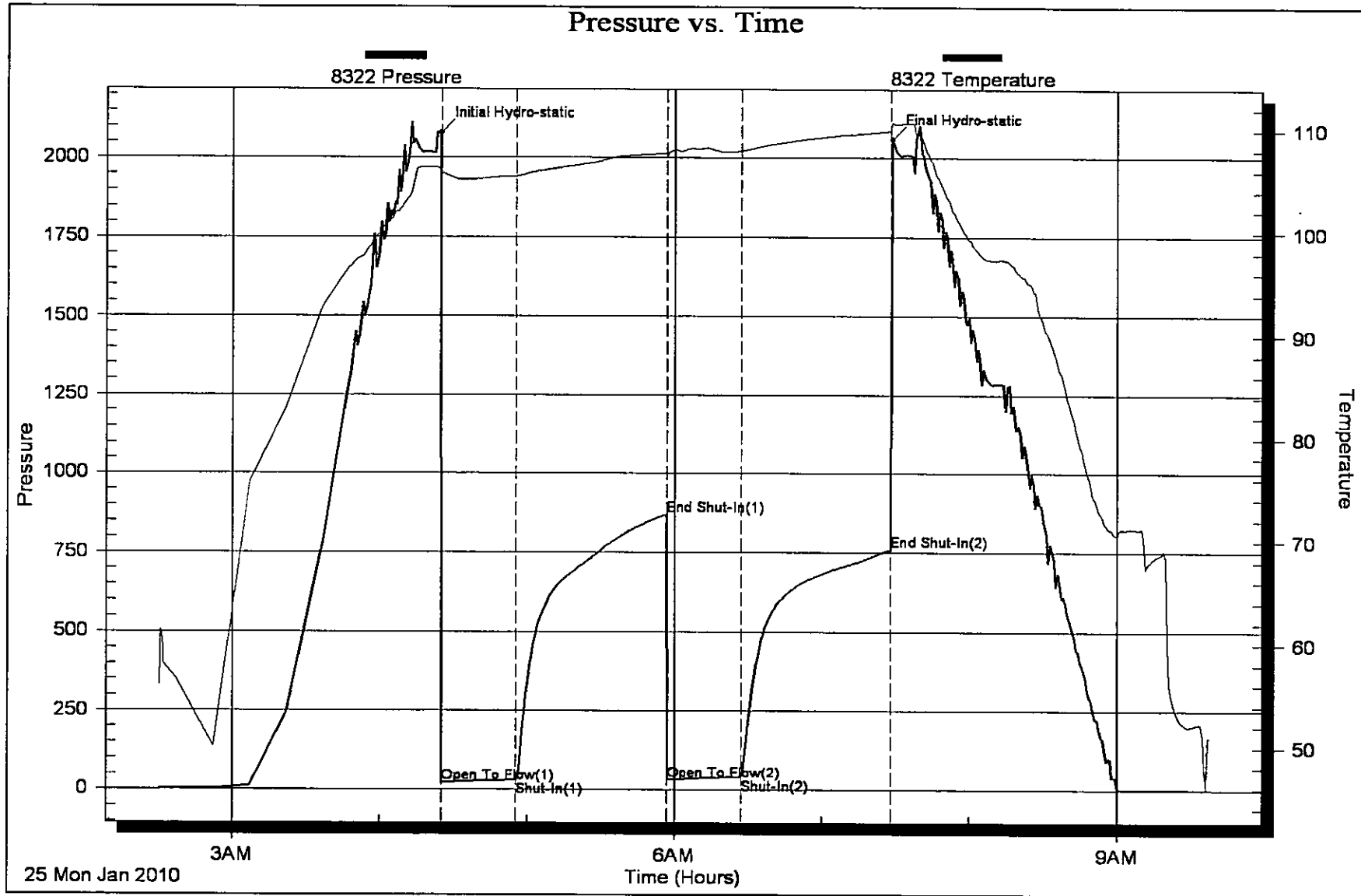
Num Gas Bombs: 0

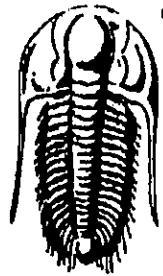
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

250 N Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolze

36 12S 33W Logan KS

GMS #1-36

Start Date: 2010.01.26 @ 08:05:05

End Date: 2010.01.26 @ 15:23:29

Job Ticket #: 37759 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

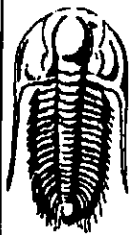
GMS #1-36

36 12S 33W Logan KS

DST # 3

Altamont B-C, Upper

2010.01.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolze

GMS #1-36

36 12S 33W Logan KS

Job Ticket: 37759

DST#: 3

Test Start: 2010.01.26 @ 08:05:05

GENERAL INFORMATION:

Formation: **Altamont B-C, Upper**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 10:12:00

Time Test Ended: 15:23:29

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4438.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Total Depth: **4515.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3095.00 ft (KB)**

3090.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **8322**

Inside

Press@RunDepth: **56.03 psig @ 4439.00 ft (KB)**

Start Date: **2010.01.26** End Date: **2010.01.26**

Start Time: **08:05:05** End Time: **15:23:29**

Capacity: **8000.00 psig**

Last Calib.: **2010.01.26**

Time On Btm: **2010.01.26 @ 10:11:30**

Time Off Btm: **2010.01.26 @ 13:23:45**

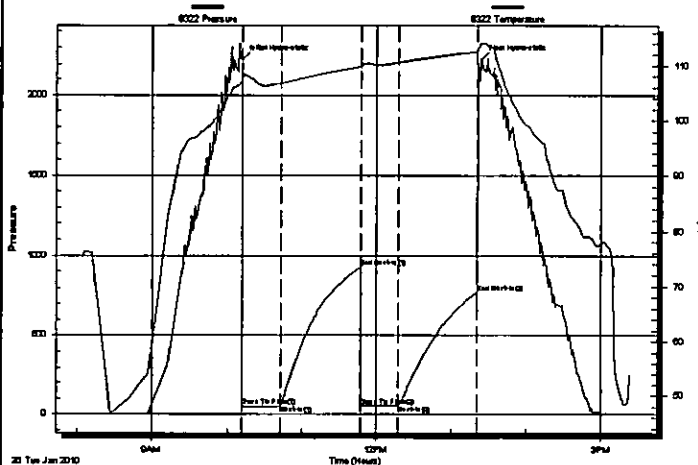
TEST COMMENT: IF: Started out at 2 inches built to 3 inches, died back to 1 1/2 inch.

IS: No return.

FF: 1/4 inch died in 12 mins.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

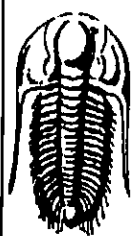
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.99	107.05	Initial Hydro-static
1	48.64	107.76	Open To Flow (1)
32	54.18	106.76	Shut-In(1)
96	925.90	109.83	End Shut-In(1)
97	53.53	109.88	Open To Flow (2)
127	56.03	110.62	Shut-In(2)
189	769.94	112.64	End Shut-In(2)
193	2227.01	114.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	M 100% m	0.32
0.00	GIP = 0	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.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37759

DST#: 3

ATTN: Bob Stolzie

Test Start: 2010.01.26 @ 08:05:05

Tool Information

Drill Pipe:	Length: 4241.00 ft	Diameter: 3.80 inches	Volume: 59.49 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 60.38 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4438.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	105.00 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			4411.00	
Shut In Tool	5.00			4416.00	
Hydraulic tool	5.00			4421.00	
Jars	5.00			4426.00	
Safety Joint	3.00			4429.00	
Packer	5.00			4434.00	28.00 Bottom Of Top Packer
Packer	4.00			4438.00	
Stubb	1.00			4439.00	
Recorder	0.00	8322	Inside	4439.00	
Recorder	0.00	6741	Inside	4439.00	
Perforations	6.00			4445.00	
Change Over Sub	1.00			4446.00	
Drill Pipe	63.00			4509.00	
Change Over Sub	1.00			4510.00	
Bullnose	5.00			4515.00	77.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37759

DST#: 3

ATTN: Bob Stozle

Test Start: 2010.01.26 @ 08:05:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume:		
Water Loss: 6.77 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure:		
Salinity: 6000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	M 100%m	0.320
0.00	GIP = 0	0.000

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

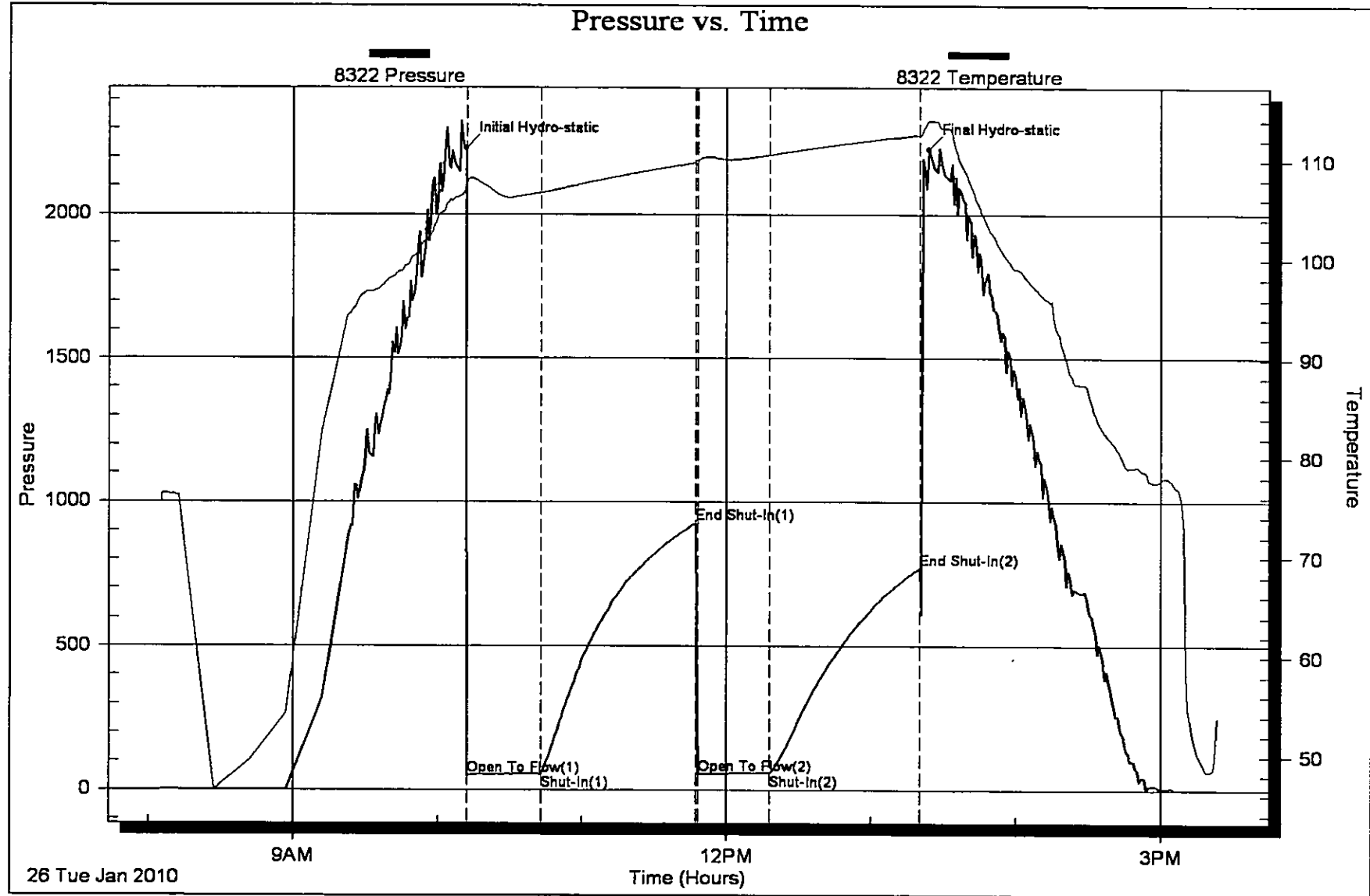
Num Gas Bombs: 0

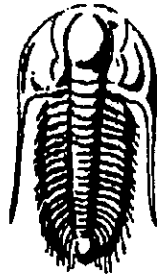
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N Water, Ste 300
Wichita KS 67202

ATTN: Bob Stolze

36 12S 33W Logan KS

GMS #1-36

Start Date: 2010.01.27 @ 10:41:05

End Date: 2010.01.27 @ 15:47:14

Job Ticket #: 37760 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

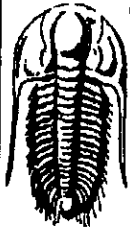
GMS #1-36

36 12S 33W Logan KS

DST # 4

Johnson

2010.01.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37760

DST#: 4

ATTN: Bob Stolze

Test Start: 2010.01.27 @ 10:41:05

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 12:34:45

Time Test Ended: 15:47:14

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Domsch**

Unit No: **48**

Interval: **4602.00 ft (KB) To 4650.00 ft (KB) (TVD)**

Total Depth: **4650.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **3095.00 ft (KB)**

3090.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8322

Inside

Press@RunDepth: **1590.11 psig @ 4603.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.01.27**

End Date:

2010.01.27

Last Calib.:

2010.01.27

Start Time: **10:41:05**

End Time:

15:47:14

Time On Btm:

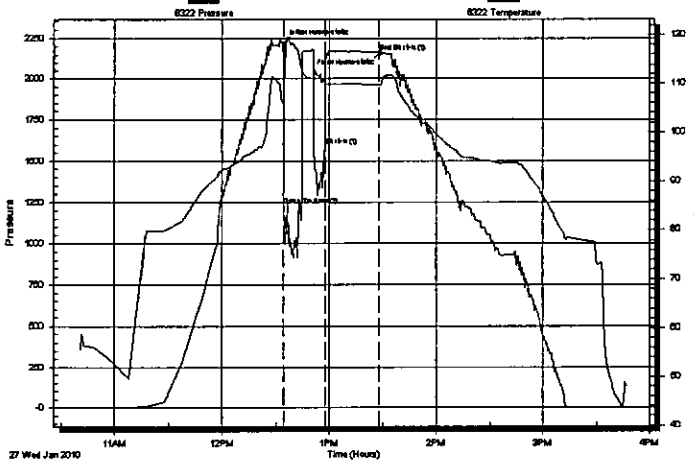
2010.01.27 @ 12:33:45

Time Off Btm:

2010.01.27 @ 13:29:00

TEST COMMENT: IF: BOB in 45 secs. lost mud, couldn't fill hole, pulled off bottom @12:48, filled hole and reopened @12:55. BOB in 1 min
Shut in @ 13:02
IS: Surface blow for 4 mins.
FF: NA

Pressure vs. Time



PRESSURE SUMMARY

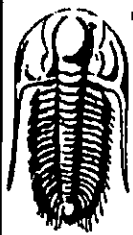
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.51	106.23	Initial Hydro-static
1	1231.33	108.66	Open To Flow (1)
24	1590.11	110.22	Shut-In(1)
54	2164.79	109.65	End Shut-In(1)
56	2170.20	109.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2510.00	M 100% m	33.56
0.00	GIP = 0	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.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37760

DST#: 4

ATTN: Bob Stozle

Test Start: 2010.01.27 @ 10:41:05

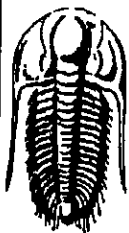
Tool Information

Drill Pipe:	Length: 4400.00 ft	Diameter: 3.80 inches	Volume: 61.72 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4602.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	76.00 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			4575.00	
Shut In Tool	5.00			4580.00	
Hydraulic tool	5.00			4585.00	
Jars	5.00			4590.00	
Safety Joint	3.00			4593.00	
Packer	5.00			4598.00	28.00 Bottom Of Top Packer
Packer	4.00			4602.00	
Stubb	1.00			4603.00	
Recorder	0.00	8322	Inside	4603.00	
Recorder	0.00	6741	Inside	4603.00	
Perforations	9.00			4612.00	
Change Over Sub	1.00			4613.00	
Drill Pipe	31.00			4644.00	
Change Over Sub	1.00			4645.00	
Bullnose	5.00			4650.00	48.00 Bottom Packers & Anchor

Total Tool Length: 76.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

GMS #1-36

250 N Water, Ste 300
Wichita KS 67202

36 12S 33W Logan KS

Job Ticket: 37760

DST#: 4

ATTN: Bob Stozle

Test Start: 2010.01.27 @ 10:41:05

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: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2510.00	M 100%m	33.560
0.00	GIP = 0	0.000

Total Length: 2510.00 ft Total Volume: 33.560 bbl

Num Fluid Samples: 0

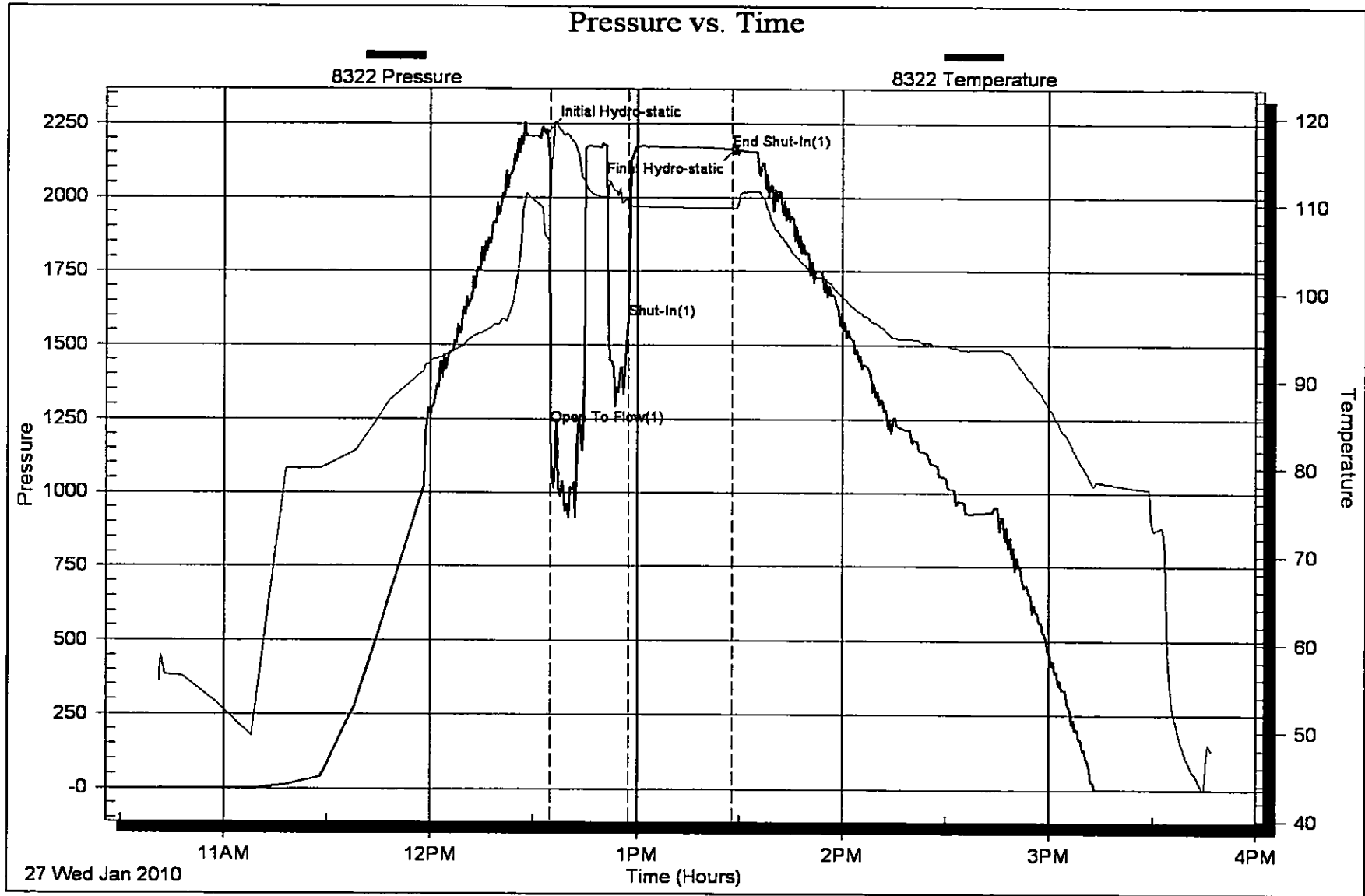
Num Gas Bombs: 0

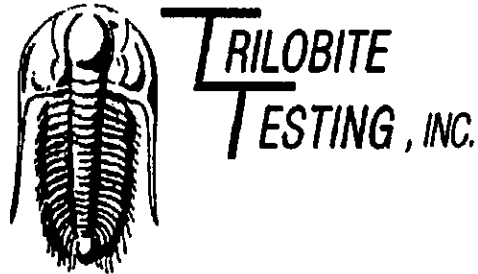
Serial #:

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: Bob Stolze

36 12S 33W Logan KS

GMS #1-36

Start Date: 2010.01.27 @ 22:15:05

End Date: 2010.01.28 @ 02:52:44

Job Ticket #: 37761 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

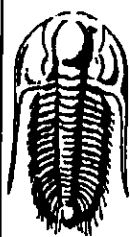
GMS #1-36

36 12S 33W Logan KS

DST # 5

Johnson

2010.01.27



**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N Water, Ste 300
Wichita KS 67202

ATTN: Bob Stozle

GMS #1-36

36 12S 33W Logan KS

Job Ticket: 37761

DST#: 5

Test Start: 2010.01.27 @ 22:15:05

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 00:04:15

Time Test Ended: 02:52:44

Interval: **4578.00 ft (KB) To 4650.00 ft (KB) (TVD)**

Total Depth: **4650.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Dornsch**

Unit No: **48**

Reference Elevations: **3095.00 ft (KB)**

3090.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **8322**

Inside

Press@RunDepth: psig @ **4579.00 ft (KB)**

Start Date: **2010.01.27** End Date: **2010.01.28**

Start Time: **22:15:05** End Time: **02:52:44**

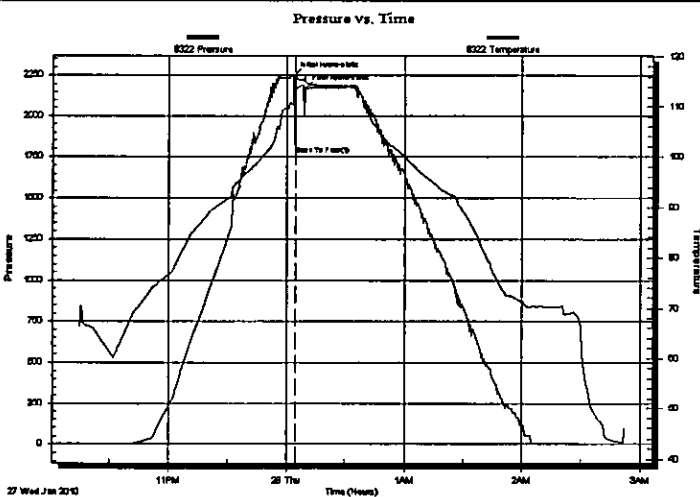
Capacity: **8000.00 psig**

Last Calib.: **2010.01.28**

Time On Btm: **2010.01.28 @ 00:03:30**

Time Off Btm: **2010.01.28 @ 00:09:15**

TEST COMMENT: **Misrun**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.90	110.39	Initial Hydro-static
1	1762.16	114.51	Open To Flow (1)
6	2168.28	115.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	M 100% m	5.31

Gas Rates

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



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Job Ticket: 37761

DST#: 5

ATTN: Bob Stolze

Test Start: 2010.01.27 @ 22:15:05

Tool Information

Drill Pipe:	Length: 4400.00 ft	Diameter: 3.80 inches	Volume: 61.72 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4578.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	100.00 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			4551.00	
Shut In Tool	5.00			4556.00	
Hydraulic tool	5.00			4561.00	
Jars	5.00			4566.00	
Safety Joint	3.00			4569.00	
Packer	5.00			4574.00	28.00 Bottom Of Top Packer
Packer	4.00			4578.00	
Stubb	1.00			4579.00	
Recorder	0.00	8322	Inside	4579.00	
Recorder	0.00	8166	Inside	4579.00	
Perforations	33.00			4612.00	
Change Over Sub	1.00			4613.00	
Drill Pipe	31.00			4644.00	
Change Over Sub	1.00			4645.00	
Bullnose	5.00			4650.00	72.00 Bottom Packers & Anchor

Total Tool Length: 100.00



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Job Ticket: 37761

DST#: 5

ATTN: Bob Stolze

Test Start: 2010.01.27 @ 22:15:05

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: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
496.00	M 100% _m	5.309

Total Length: 496.00 ft Total Volume: 5.309 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

