

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

9/7/12

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC

OPERATOR: License # 30606  
Name: Murfin Drilling Company, Inc. SEP 07 2010  
Address 1: 250 N. Water, Suite 300 CONFIDENTIAL  
Address 2:  
City: Wichita State: KS Zip: 67202 +  
Contact Person: Leon Rodak  
Phone: (316) 267-3241 RECEIVED  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Company, Inc. SEP 09 2010  
Wellsite Geologist: Paul Gunzelman KCC WICHITA  
Purchaser: MV Purchasing

API No. 15 - 153-20880-0000  
Spot Description:  
N2 NE SE Sec. 14 Twp. 05 S. R. 31  East  West  
2310 Feet from  North /  South Line of Section  
660 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rawlins  
Lease Name: Sherilyn Well #: 1-14  
Field Name: Unknown  
Producing Formation: LKC  
Elevation: Ground: 2928 Kelly Bushing: 2933  
Total Depth: 4465 Plug Back Total Depth: 4420  
Amount of Surface Pipe Set and Cemented at: 219 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2630 Feet  
If Alternate II completion, cement circulated from: 2630  
feet depth to: surface w/ 170 sx cmt.

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.):

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 #:  
05/22/10 05/30/10 06/21/10  
Spud Date or Date Reached TD Completion Date or Recompletion Date

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: VP Production Date: 09/07/10

KCC Office Use ONLY  
 Letter of Confidentiality Received Date: 9/7/10 - 9/7/12  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: [Signature] Date: 9-15-10

Operator Name: Murfin Drilling Company, Inc. Lease Name: Sherilyn Well #: 1-14  
 Sec. 14 Twp. 05 S. R. 31  East  West County: Rawlins

**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: <b>Dual Induction, Compensated Porosity,                  Microresistivity</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum  See Attached List  <div style="text-align: right; font-weight: bold; font-size: 1.2em;">                     SEP 07 2010                      CONFIDENTIAL                 </div>
--	--

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#	219	Common	175	3% cc, 2% gel
Production		5 1/2	15.5#	4458	EA-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 (Amount and Kind of Material Used)	Depth
4	4021-4028 LKC "F"	250 gal 15% MCA, 750 gal 15% NEFE	
4	4382-4394 Cherokee	400 gal 7-1/2% FE w/10% xylene, 2% musol, 1 gal Cla-Sta, 1 g surf	

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TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>4396</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: <u>07/06/10</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>13</u>	Gas Mcf <u>30</u> 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4021-4394</u>
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MDCI  
 Sherilyn #1-14  
 2310 FSL 660 FEL  
 Sec. 14-T5S-R31W  
 2933' KB

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Mull Drig. Co.  
 #3 Woerpel  
 C NW SW  
 Sec. 13-T5S-R31W  
 2943' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2639	+294	+1	2636	+297	+4	2650	+293
B/Anhydrite	2679	+254	-1	2671	+262	+7	2688	+255
Topeka	3736	-803	+6	3732	-799	+10	3752	-809
Heebner	3908	-975	+6	3902	-969	+12	3924	-981
Lansing	3955	-1022	+7	3950	-1017	+12	3972	-1029
Stark	4122	-1189	+8	4116	-1183	+14	4140	-1197
BKC	4176	-1243	+6	4170	-1232	+12	4192	-1249
Mississippi	NDE						NDE	NDE
RTD	4465	-1532					4206	
LTD				4463	-1530		4206	

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PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887  
Fax: (785) 483-5566

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**INVOICE**

Invoice Number: 122798  
Invoice Date: May 22, 2010  
Page: 1

*acct. Jiny*

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PRON COPY

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

*operator Pay mdc*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Sherlyn #1-14	Net 30 Days	
<b>Job Location</b>	<b>Camp Location</b>	<b>Service Date</b>	<b>Due Date</b>
KS1-01	Oakley	May 22, 2010	6/21/10

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	15.45	2,703.75
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
184.00	SER	Handling	2.40	441.60
45.00	SER	Mileage 184-sx @ .10 per sk per mi	18.40	828.00
1.00	SER	Surface	1,018.00	1,018.00
45.00	SER	Pump Truck Mileage	7.00	315.00

*[Handwritten signature]*

Account	No.	Amount	Description
03600	008W 3665	5914.22 (2001.28)	Cement S

*C39*

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

\$ 2001.28

ONLY IF PAID ON OR BEFORE  
Jun 16, 2010

Subtotal	5,717.95
Sales Tax	196.27
Total Invoice Amount	5,914.22
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,914.22</b>

*MW 2001.28*

*3912.94*





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



# Invoice

DATE	INVOICE #
6/14/2010	17648

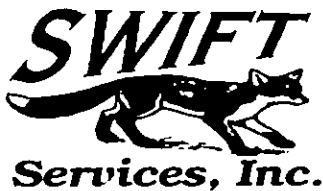
BILL TO
Murfin Drilling Co Inc
PO Box 661
Colby, KS 67701-0661

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- Acidizing
  - Cement
  - Tool Rental
- KCC  
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TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Nct 30	#1-14	Sherilyn	Rawlins	Company Rig	Oil	Development	Cement Port Collar	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar - 2630 Feet				1	Job	1,100.00	1,100.00
290	D-Air				3	Gallon(s)	35.00	105.00T
279	Bentonite Gel				2	Sack(s)	25.00	50.00T
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	15.00	3,000.00T
276	Flocele				100	Lb(s)	1.50	150.00T
581D	Service Charge Cement				350	Sacks	1.50	525.00
583D	Drayage				1,436.64	Ton Miles	1.00	1,436.64
	Subtotal							6,766.64
	Sales Tax Rawlins County						7.05%	233.00
USED FOR <u>NEW WELL</u>								
APPROVED <u>JRK</u>								

<b>We Appreciate Your Business!</b>	<b>Total</b>	<b>\$6,999.64</b>
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CHARGE TO:  
*Martin Drly Co.*  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET  
 17648  
 PAGE 1 OF 1

KCC  
 SEP 07 2010  
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SERVICE LOCATIONS 1. <i>Flora, Ks</i> 2. <i>Ness City, Ks</i> 3. 4.	WELL/PROJECT NO. <i>1-14</i>	LEASE <i>Sharilyn</i>	COUNTY/PARISH <i>Rawlin</i>	STATE <i>Ks</i>	DATE <i>6-14-10</i>	OWNER
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <i>C6 Rg</i>	RIG NAME/NO.	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>NW/Rexford, Ks</i>	ORDER NO.	
WELL TYPE <i>D11</i>	WELL CATEGORY <i>wildcat</i>	JOB PURPOSE <i>Cement Port Collar</i>	WELL PERMIT NO.	WELL LOCATION		
REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UM		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #113	80		mi		5.00	400.00	
576 D		1			Pump Charge - cement Port Collar	1	2630		ft	1100.00	1100.00	
290		1			D. Air	3		gal		35.00	105.00	
279		1			Beatonite Gel	2	200		lbs	25.00	50.00	
330		2			SMD Cement	200		sts		15.00	3000.00	
276		2			Flocele 1/2 #/sk	100		lbs		1.50	150.00	
581		2			Service Charge	350		sts		1.50	525.00	
583		2			Drayage <sup>1000 # gal</sup> <sub>1/2 # Flocele</sub>	80	1436.64	mi	TM	35916	1.00	1436.64

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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 \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  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?					6716.64
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<i>Rawlins</i>	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO			TAX 7.05%	233.00
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	6999.64

CUSTOMER: *Murphy Drilling Co* WELL NO. *1-14* LEASE *Sherilyn* JOB TYPE *Convent Port Collar* TICKET NO. *17648*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:30							On location - Rig run tbg / tool
	12:15							Locate P.C @ 2630 Set up P.T.
	12:30							Tst P.C. closed - Stripper Head back -
	12:40							Co - H&T-shot Stripper Head
	14:00							Put on Stripper Head
	1410					1000 <sup>c</sup>	1000	Tst P.C. closed - OK
		3				c	700	Open PC - Fin rate - Have Blow
							c	Hook to 2 3/8 Tbg. - close Ann
						700		Start Gel ahead - Have blow -
		3	9			700		Have Returns - Stop mixing gel - (2 SKS)
						700		Pump 10 BBL H <sub>2</sub> O
		3	10			700		Fin H <sub>2</sub> O - Start SMD cont @ 11.2 #/gal
		3	78			200	300	Have gel returns
		3	80			300	700	Have H <sub>2</sub> O returns
			92			700		Cont circulating - 170 SKS @ 11.2
			102			700		Mix 30 SKS @ 13.5 #
						700		Fin cont.
	1500		9			200		Displ - 9 BBL H <sub>2</sub> O
						1000	1000	Close P.C & Tst closed - OK
			20					Rig run 6 Jts tbg.
			30					Run-out 2 flag & clear @ 20 BBL
								Fin run-out 30 BBL total
	1540							Job Complete - (40 SKS to P.T.) Washup & Packup
								SMD 170 SKS @ 11.2
								SMD 30 SKS @ 13.5
	1600							200 SKS total used

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*Thanks*  
*Don, Doug & John*

KCC  
SEP 07 2010  
CONFIDENTIAL





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



cc: W.F.  
cc: Lemf 1

# Invoice


DATE	INVOICE #
5/31/2010	17641

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	#1-14	Sherilyn	Rawlins		Oil	Development	Cement 5-1/2" L...	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
578D-L	Pump Charge - Long String - 4460 Feet	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	3	Gallon(s)	35.00	105.00T
402-5	5 1/2" Centralizer	15	Each	55.00	825.00T
403-5	5 1/2" Cement Basket	2	Each	200.00	400.00T
404-5	5 1/2" Port Collar	1	Each	1,900.00	1,900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	275.00	275.00T
413-5	5 1/2" Roto Wall Scratcher	15	Each	40.00	600.00T
419-5	5 1/2" Rotating Head Rental	1	Each	150.00	150.00T
325	Standard Cement	225	Sacks	12.00	2,700.00T
276	Flocele	57	Lb(s)	1.50	85.50T
283	Salt	1,125	Lb(s)	0.15	168.75T
284	Calseal	11	Sack(s)	30.00	330.00T
285	CFR-1	160	Lb(s)	4.00	640.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	942	Tom Miles	1.00	942.00
	Subtotal				12,833.75
	Sales Tax Rawlins County			7.05%	687.67

USED FOR ~~NEW WELLS~~  
 APPROVED   
 RECEIVED  
 SEP 09 2010  
 KCC WICHITA

KCC  
 SEP 09 2010  
 CONFIDENTIAL

<b>We Appreciate Your Business!</b>	<b>Total</b>	<b>\$13,521.42</b>
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CHARGE TO:  
*Murfin Drig Co.*  
 ADDRESS  
 CITY, STATE, ZIP CODE

KCC  
 SEP 07 2010  
 CONFIDENTIAL

TICKET  
 17641

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. *Hays, KS*  
 2. *Ness City, KS*  
 3.  
 4.

WELL/PROJECT NO. *F-14*  
 LEASE *Sherilyn*  
 COUNTY/PARISH *Rawlins*  
 STATE *Ks*  
 CITY  
 DATE *5-31-10*  
 OWNER

TICKET TYPE  
 SERVICE  
 SALES  
 CONTRACTOR  
 RIG NAME/NO.  
 SHIPPED VIA  
 DELIVERED TO  
 ORDER NO.

WELL TYPE *Dil*  
 WELL CATEGORY *Wildcat*  
 JOB PURPOSE *Cement 5 1/2" Longstring*  
 WELL PERMIT NO.  
 WELL LOCATION

REFERRAL LOCATION  
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM	
575		1			MILEAGE #113	80	Mi		5.00	400.00
578		1			Pump Charge	1	ea	1400.00	1400.00	1400.00
221		1			Liquid KCL	4	gal		25.00	100.00
280		1			Flo check 21	500	gal		2.50	1250.00
290		1			D-Air	3	gal		35.00	105.00
402		1			Centralizers	15	ea	5 1/2 in	55.00	825.00
403		1			Cement Baskets	2	ea	5 1/2 in	200.00	400.00
404		1			Port Collar	1	ea	5 1/2 in	1900.00	1900.00
406		1			Latch Down Plug & Baffle	1	ea	5 1/2 in	225.00	225.00
407		1			Insert Float Shoe w/ Auto RLO	1	ea	5 1/2 in	275.00	275.00
413		1			Roto Wall Scratchers	15	ea	5 ft.	40.00	600.00
419		1			Rotating Head Rental	1	ea	5 1/2 in	150.00	150.00

RECEIVED  
 SEP 08 2010  
 KCC WICHITA

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 Selms*  
 DATE SIGNED *5-31-10* TIME SIGNED  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		AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	7630.00
WE UNDERSTOOD AND MET YOUR NEEDS?				P.2	5203.75
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				sub total	12833.75
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Rawlins TAX 7.05%	687.67
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	13,521.42
<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 *Don Loman* APPROVAL

Thank You!



**JOB LOG**

**SWIFT Services, Inc.**

DATE 5-31-10 PAGE NO. 1

CUSTOMER Merlin Drilling Co.

WELL NO. 1-14

LEASE Sherilyn

JOB TYPE Cement Lining

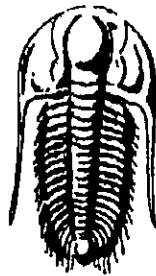
TICKET NO. 17681

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TO 4470'	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	0745								
	0845					15.5*	5 1/2		On location w/ float equip - Rig changing over to run 5 1/2" 15.5* casing to 4458 1/2'
									Start casing - Insert float shoe w/ Auto-fall
									Latch Down Baffle - SJ 22 1/2'
									Cent - 1- tru 14 & 42
									Baskets 42 & 43
									Part Collar #43 @ 2644'
	0940								@ 54.45 in hole - cir 1/2 hour
	1010								Continue running casing
									Drop fill up ball to sts out
	1105								Fin run casing
	1115								Rig cir + Rotate Casing
	1215								Fin cir - Hook to trk
	1220	5 1/2	15				250		Pump 15 BBI KCL Flush
		5	12				250		Pump 50 gal Flock 21
		5	5				250		Pump 5 BBI KCL Spacer
	1240	4 1/2					200		Start mixing 181 SKS EA-2 cont.
			45						Fin cont - Wash Pump & Lines
									Latch Down Plug - Start Displ.
	1245	8	20				200		1st 20 BBI KCL wtr - rest fresh water
		8	71				400		Caught cont
		7	90						slow rate
		5 1/2	100						slow rate
							900/1500		Latch Plug - Hold - Release & Hold
									Job Complete
									Wash up & Breakup

**RECEIVED**  
**SEP 09 2010**  
**KCC WICHITA**

*[Signature]*  
*[Signature]*

KCC  
SEP 07 2010  
CONFIDENTIAL



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling Co., Inc.**  
250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**14/5s/31w Rawlins KS**

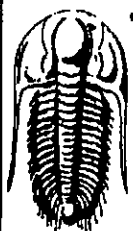
**Sherilyn #1-14**

Start Date: 2010.05.27 @ 02:59:00  
End Date: 2010.05.27 @ 11:03:00  
Job Ticket #: 37339 DST #: 1

**RECEIVED  
SEP 09 2010  
KCC WICHITA**

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

**KCC  
SEP 07 2010  
CONFIDENTIAL**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**Sherilyn #1-14**

**14/5s/31w Rawlins KS**

Job Ticket: 37339

DST#: 1

Test Start: 2010.05.27 @ 02:59:00

### GENERAL INFORMATION:

Formation: **Toronto - Lans. "A"**

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

Time Tool Opened: 05:04:00

Time Test Ended: 11:03:00

Interval: **3914.00 ft (KB) To 3970.00 ft (KB) (TVD)**

Total Depth: **3970.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Reference Elevations: **2933.00 ft (KB)**

**2928.00 ft (CF)**

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

**Serial #: 8366**

**Inside**

Press@RunDepth: **149.07 psig @ 3915.00 ft (KB)**

Start Date: **2010.05.27**

End Date: **2010.05.27**

Capacity: **8000.00 psig**

Last Calib.: **2010.05.27**

Start Time: **02:59:05**

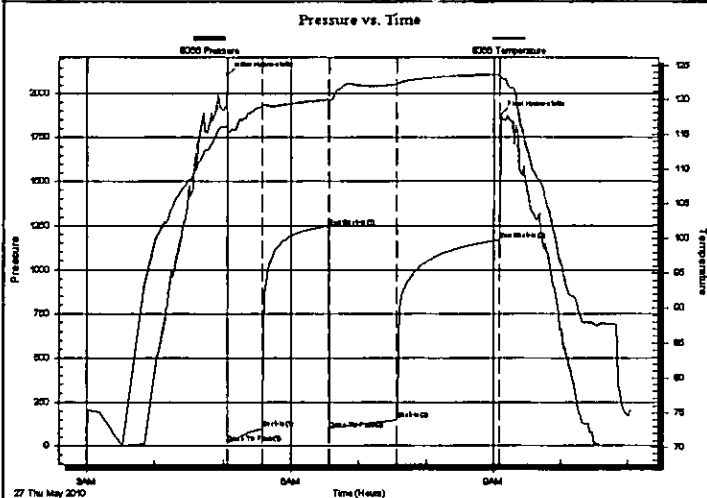
End Time: **11:02:59**

Time On Btm: **2010.05.27 @ 05:03:30**

Time Off Btm: **2010.05.27 @ 09:06:30**

**TEST COMMENT:** IF: Blow built to 6 1/2"  
IS: Bled off, No blow back  
FF: Blow built to 9 1/2"  
FSI: Bled off, No blow back

### PRESSURE SUMMARY



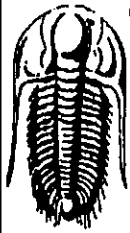
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.97	116.23	Initial Hydro-static
1	17.90	115.04	Open To Flow (1)
31	98.79	118.98	Shut-In(1)
90	1246.27	119.93	End Shut-In(1)
91	93.31	119.24	Open To Flow (2)
151	149.07	122.14	Shut-In(2)
242	1169.36	123.58	End Shut-In(2)
243	1877.11	123.18	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 66%w, 34%m	0.59
125.00	WCM 70%m, 30%w	1.20
45.00	Watery Mud 51%m, 49%w	0.63
0.00	RW = .246 ohms @ 76.1 deg F	0.00
0.00	Chlorides = 26,000 ppm	0.00
0.00	Oil spot in tool	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.

Sherilyn #1-14

250 N. Water Suite 300  
Wichita, KS 67202

14/5s/31w Rawlins KS

Job Ticket: 37339

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.05.27 @ 02:59:00

### Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight: 2500.00 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: 68000.00 lb
			<u>Total Volume: 53.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3914.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

### Tool Comments:

Tool slid about 5' to bottom before opening

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3892.00	
HYD S.I. Tool	5.00			3897.00	
Jars	5.00			3902.00	
Safety Joint	2.00			3904.00	
Packer	5.00			3909.00	27.00 Bottom Of Top Packer
Packer	5.00			3914.00	
Stubb	1.00			3915.00	
Recorder	0.00	8366	inside	3915.00	
Recorder	0.00	8320	inside	3915.00	
Perforations	15.00			3930.00	
Blank Spacing	33.00			3963.00	
Perforations	4.00			3967.00	
Bullnose	3.00			3970.00	56.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**Sherilyn #1-14**

250 N. Water Suite 300  
Wichita, KS 67202

**14/5s/31w Rawlins KS**

Job Ticket: 37339

**DST#: 1**

ATTN: Paul Gunzelman

Test Start: 2010.05.27 @ 02:59:00

#### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 7.17 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1100.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: 34.4 deg API  
Water Salinity: 26000 ppm

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MCW 66%w, 34%m	0.590
125.00	WCM 70%m, 30%w	1.198
45.00	Watery Mud 51%m, 49%w	0.631
0.00	RW = .246 ohms @ 76.1 deg F	0.000
0.00	Chlorides = 26,000 ppm	0.000
0.00	Oil spot in tool	0.000

Total Length: 290.00 ft      Total Volume: 2.419 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

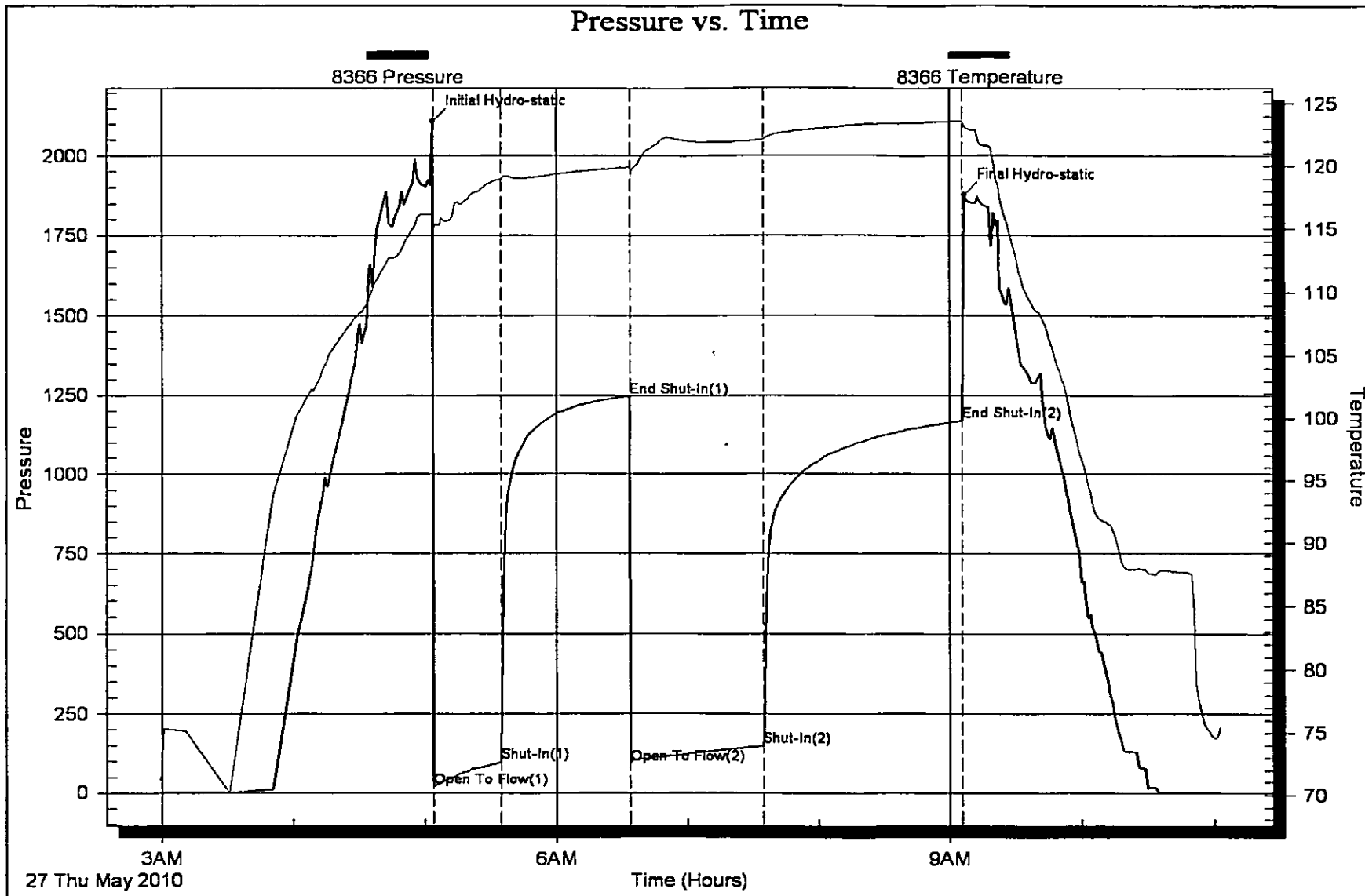
Serial #:

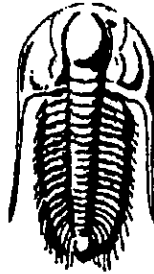
Laboratory Name:

Laboratory Location:

Recovery Comments:







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

## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**14/5s/31w Rawlins KS**

**Sherilyn #1-14**

Start Date: 2010.05.27 @ 21:24:00

End Date: 2010.05.28 @ 04:57:00

Job Ticket #: 37340                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

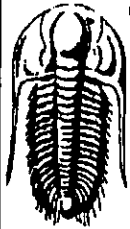
Sherilyn #1-14

14/5s/31w Rawlins KS

DST # 2

Lans. "E - F"

2010.05.27



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**Sherilyn #1-14**

**14/5s/31w Rawlins KS**

Job Ticket: 37340

**DST#: 2**

Test Start: 2010.05.27 @ 21:24:00

### GENERAL INFORMATION:

Formation: **Lans. "E - F"**

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

Time Tool Opened: 22:53:30

Time Test Ended: 04:57:00

Interval: **4010.00 ft (KB) To 4034.00 ft (KB) (TVD)**

Total Depth: **4034.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Reference Elevations: **2933.00 ft (KB)**

**2928.00 ft (CF)**

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

**Serial #: 8366**

**Inside**

Press@RunDepth: **153.83 psig @ 4011.00 ft (KB)**

Start Date: **2010.05.27**

Start Time: **21:24:05**

End Date: **2010.05.28**

End Time: **04:56:59**

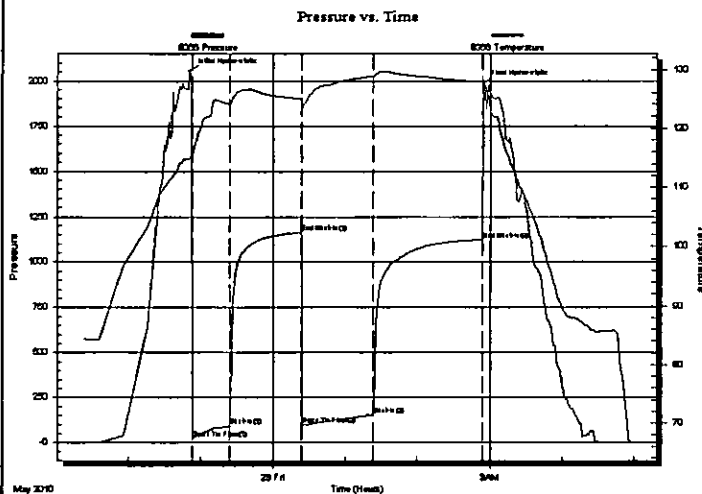
Capacity: **8000.00 psig**

Last Calib.: **2010.05.28**

Time On Btm: **2010.05.27 @ 22:51:30**

Time Off Btm: **2010.05.28 @ 02:55:00**

**TEST COMMENT:** IF: Blow built to BOB (12") in 13 3/4 min.  
IS: Bled off, Blow back built to 1 1/4", then died off  
FF: Blow built to BOB in 13 1/4 min.  
FS: Bled off, Blow back built to 1 1/2", then died off



### PRESSURE SUMMARY

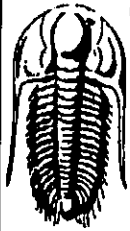
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.12	114.87	Initial Hydro-static
2	21.70	115.21	Open To Flow (1)
32	91.10	124.02	Shut-In(1)
92	1164.91	124.99	End Shut-In(1)
93	98.29	123.82	Open To Flow (2)
152	153.83	128.83	Shut-In(2)
243	1120.95	127.91	End Shut-In(2)
244	1982.77	127.64	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMO 42%o, 34%m, 24%g	0.30
60.00	SMCO 91%o, 7%m, 2%g	0.30
20.00	GOCM 55%m, 30%o, 15%g	0.10
230.00	CGO 61%o, 35%g, 4%m	2.85
15.00	CO 96%o, 2%g, 2%m	0.21
0.00	GIP = 360'	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.

**Sherilyn #1-14**

250 N. Water Suite 300  
Wichita, KS 67202

**14/5s/31w Rawlins KS**

Job Ticket: 37340

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2010.05.27 @ 21:24:00

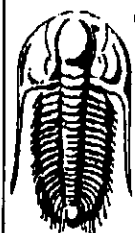
**Tool Information**

Drill Pipe:	Length: 3838.00 ft	Diameter: 3.80 inches	Volume: 53.84 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: 58000.00 lb
		Total Volume: 54.73 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4010.00 ft			Final 54000.00 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**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3993.00	
HYD S.I. Tool	5.00			3998.00	
Safety Joint	2.00			4000.00	
Packer	5.00			4005.00	22.00 Bottom Of Top Packer
Packer	5.00			4010.00	
Stubb	1.00			4011.00	
Recorder	0.00	8366	Inside	4011.00	
Recorder	0.00	8320	Inside	4011.00	
Perforations	20.00			4031.00	
Bullnose	3.00			4034.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**Sherilyn #1-14**

250 N. Water Suite 300  
Wichita, KS 67202

**14/5s/31w Rawlins KS**

Job Ticket: 37340

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2010.05.27 @ 21:24:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	GMO 42%o, 34%m, 24%g	0.295
60.00	SMCO 91%o, 7%m, 2%g	0.295
20.00	GOCM 55%m, 30%o, 15%g	0.098
230.00	CGO 61%o, 35%g, 4%m	2.853
15.00	CO 96%o, 2%g, 2%m	0.210
0.00	GIP = 360'	0.000

Total Length: 385.00 ft

Total Volume: 3.751 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

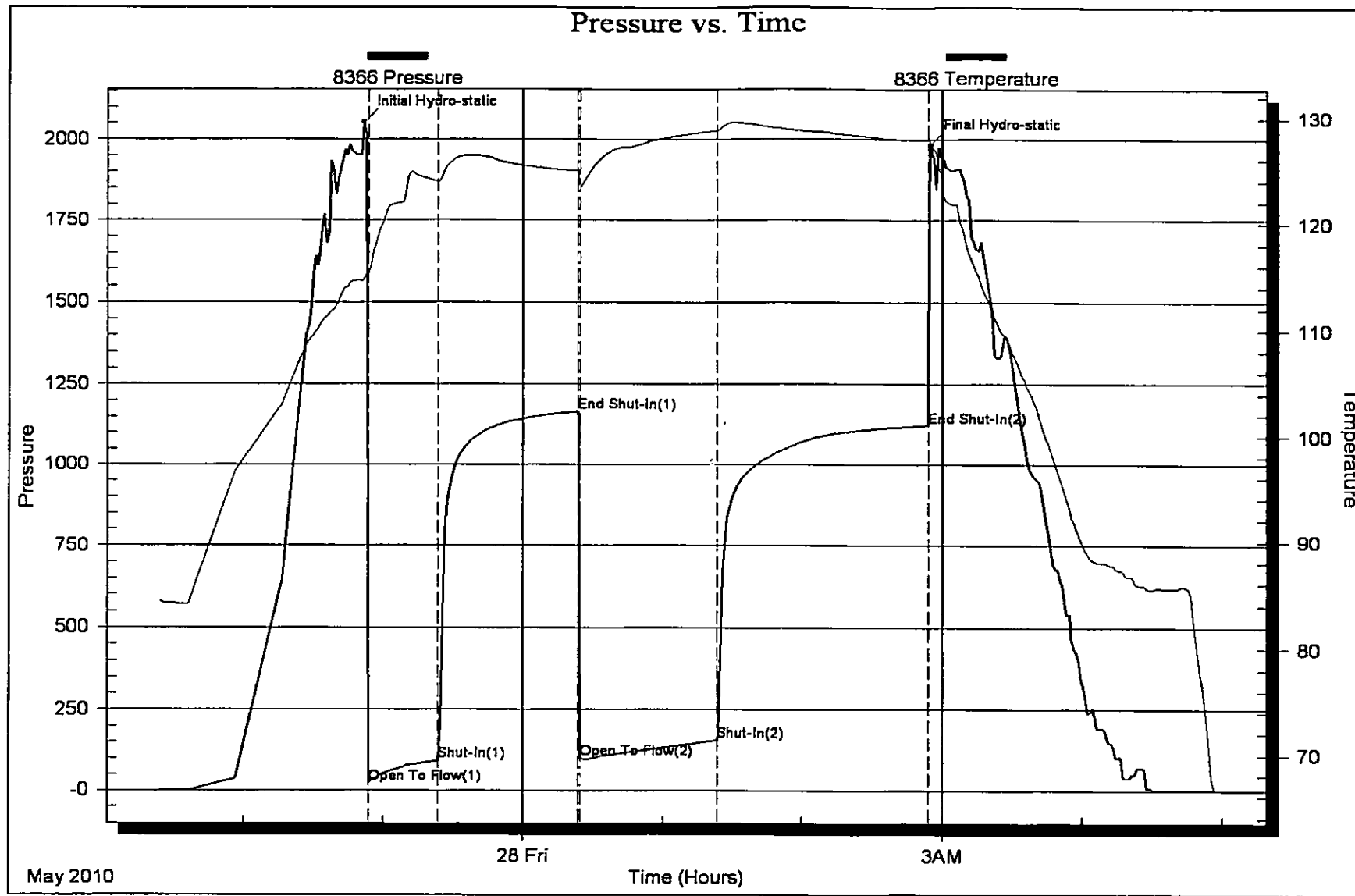
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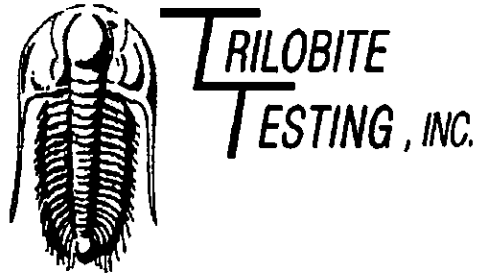
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 35.2 api @ 68 deg F

Corrected Gravity = 34.4 api





## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**14/5s/31w Rawlins KS**

**Sherilyn #1-14**

Start Date: 2010.05.28 @ 18:58:00

End Date: 2010.05.29 @ 02:42:30

Job Ticket #: 37341                      DST #: 3

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

Murfin Drilling Co., Inc.

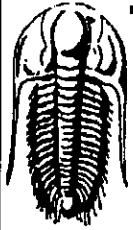
Sherilyn #1-14

14/5s/31w Rawlins KS

DST # 3

LKC "J - K"

2010.05.28



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**Sherilyn #1-14**

**14/5s/31w Rawlins KS**

Job Ticket: 37341

DST#: 3

Test Start: 2010.05.28 @ 18:58:00

### GENERAL INFORMATION:

Formation: **LKC "J - K"**

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

Time Tool Opened: 20:41:00

Time Test Ended: 02:42:30

Interval: **4082.00 ft (KB) To 4154.00 ft (KB) (TVD)**

Total Depth: **4154.00 ft (KB) (TVD)**

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

Test Type: **Conventional Bottom Hole**

Tester: **James Winder**

Unit No: **46**

Reference Elevations: **2933.00 ft (KB)**

**2928.00 ft (CF)**

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

**Serial #: 8366**

**Inside**

Press@RunDepth: **71.47 psig @ 4083.00 ft (KB)**

Start Date: **2010.05.28**

End Date: **2010.05.29**

Start Time: **18:58:05**

End Time: **02:42:29**

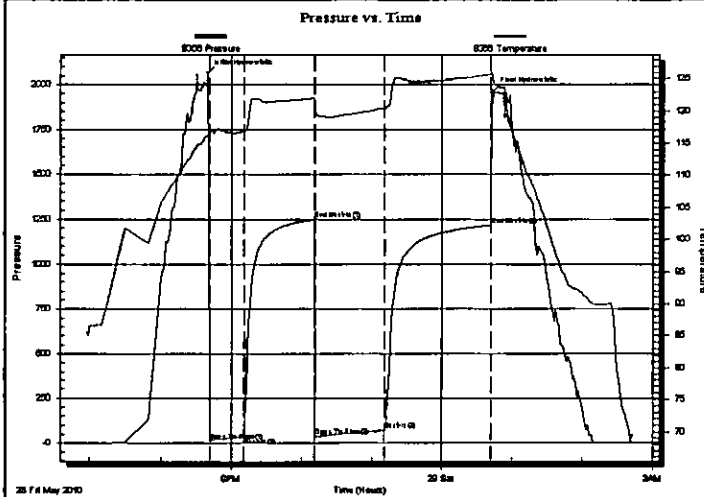
Capacity: **8000.00 psig**

Last Calib.: **2010.05.29**

Time On Btm: **2010.05.28 @ 20:39:30**

Time Off Btm: **2010.05.29 @ 00:42:59**

**TEST COMMENT:** IF: Blow built to 1 3/4"  
IS: Bled off, No blow back  
FF: Surface blow @ 29 min., built to 1"  
FSI: Bled off, No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.51	116.24	Initial Hydro-static
2	15.43	116.31	Open To Flow (1)
31	34.53	116.82	Shut-In(1)
91	1249.47	122.00	End Shut-In(1)
92	38.48	120.10	Open To Flow (2)
152	71.47	120.41	Shut-In(2)
243	1216.12	125.68	End Shut-In(2)
244	1964.31	125.64	Final Hydro-static

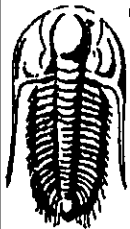
### Recovery

Length (ft)	Description	Volume (bbl)
122.00	MCW w/trace oil 60%w, 40%r	0.60
0.00	RW = .410 ohms @ 67.2 deg F	0.00
0.00	Chlorides = 16,000 ppm	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.

Sherilyn #1-14

250 N. Water Suite 300  
Wichita, KS 67202

14/5s/31w Rawlins KS

Job Ticket: 37341

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.05.28 @ 18:58:00

### Tool Information

Drill Pipe:	Length: 3891.00 ft	Diameter: 3.80 inches	Volume: 54.58 bbl	Tool Weight: 2000.00 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: 76000.00 lb
			<u>Total Volume: 55.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4082.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			4065.00	
HYD S.I. Tool	5.00			4070.00	
Safety Joint	2.00			4072.00	
Packer	5.00			4077.00	22.00 Bottom Of Top Packer
Packer	5.00			4082.00	
Stubb	1.00			4083.00	
Recorder	0.00	8366	inside	4083.00	
Recorder	0.00	8320	inside	4083.00	
Perforations	30.00			4113.00	
Blank Spacing	33.00			4146.00	
Perforations	5.00			4151.00	
Bullnose	3.00			4154.00	72.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>94.00</b>			



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**Sherilyn #1-14**

250 N. Water Suite 300  
Wichita, KS 67202

**14/5s/31w Rawlins KS**

Job Ticket: 37341

**DST#: 3**

ATTN: Paul Gunzelman

Test Start: 2010.05.28 @ 18:58:00

### 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:

16000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
122.00	MCV w/trace oil 60%w, 40%m	0.600
0.00	RW = .410 ohms @ 67.2 deg F	0.000
0.00	Chlorides = 16,000 ppm	0.000

Total Length: 122.00 ft

Total Volume: 0.600 bbl

Num Fluid Samples: 0

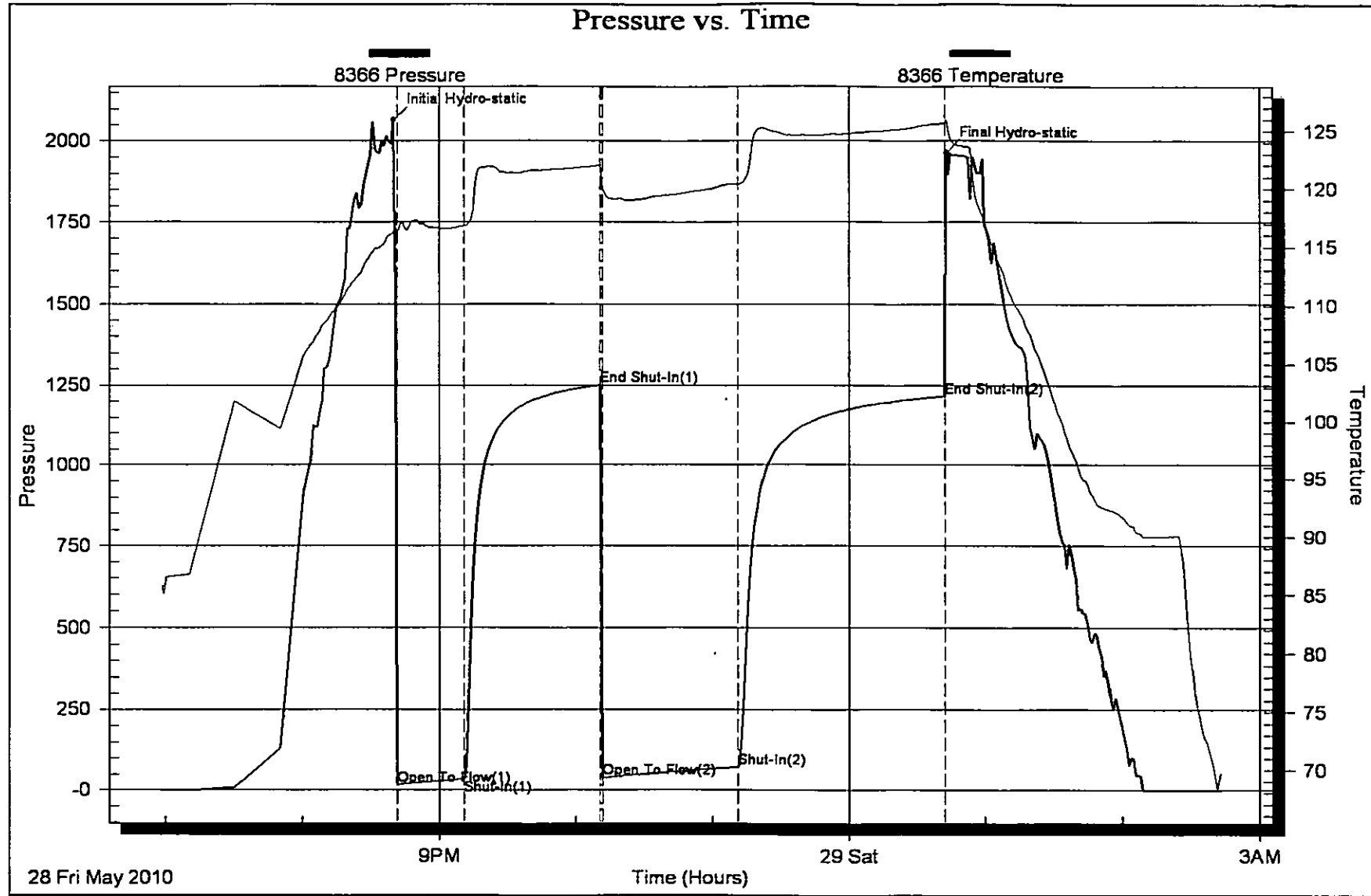
Num Gas Bombs: 0

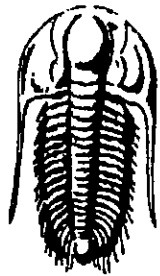
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**14/5s/31w Rawlins KS**

**Sherilyn #1-14**

Start Date: 2010.05.30 @ 03:35:00

End Date: 2010.05.30 @ 12:02:30

Job Ticket #: 37342                      DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

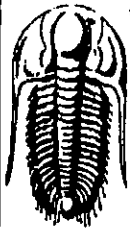
Sherilyn #1-14

14/5s/31w Rawlins KS

DST # 4

Cherokee

2010.05.30



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300  
Wichita, KS 67202

ATTN: Paul Gunzelman

**Sherilyn #1-14**

**14/5s/31w Rawlins KS**

Job Ticket: 37342

**DST#: 4**

Test Start: 2010.05.30 @ 03:35:00

### GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:47:30

Time Test Ended: 12:02:30

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: **4356.00 ft (KB) To 4415.00 ft (KB) (TVD)**

Total Depth: **4415.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2933.00 ft (KB)

2928.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8366**

**Inside**

Press@RunDepth: 115.23 psig @ 4357.00 ft (KB)

Start Date: 2010.05.30

End Date:

2010.05.30

Start Time: 03:35:05

End Time:

12:02:29

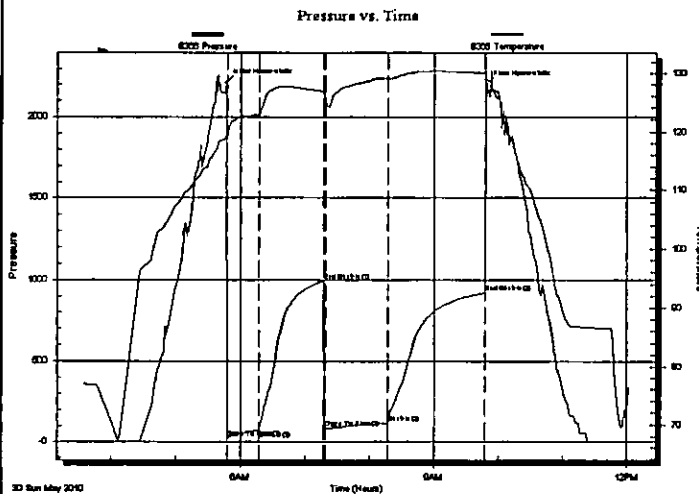
Capacity: 8000.00 psig

Last Calib.: 2010.05.30

Time On Btm: 2010.05.30 @ 05:46:30

Time Off Btm: 2010.05.30 @ 09:49:00

**TEST COMMENT:** IF: Blow built to 8 1/2"  
IS: Bled off, No blow back  
FF: Blow built to 9"  
FS: Bled off, No blow back



### PRESSURE SUMMARY

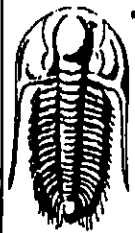
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.72	119.17	Initial Hydro-static
1	26.99	118.97	Open To Flow (1)
31	75.62	122.92	Shut-In(1)
91	993.18	126.81	End Shut-In(1)
93	85.70	125.13	Open To Flow (2)
151	115.23	129.15	Shut-In(2)
242	921.03	130.16	End Shut-In(2)
243	2202.73	129.16	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOM 50% m, 39% o, 11% g	0.30
247.00	SMCGO 75% o, 22% g, 3% m	2.36
30.00	GO 56% g, 44% o	0.42
0.00	Gravity = TLTM	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.

**Sherilyn #1-14**

250 N. Water Suite 300  
Wichita, KS 67202

**14/5s/31w Rawlins KS**

Job Ticket: 37342

**DST#: 4**

ATTN: Paul Gunzelman

Test Start: 2010.05.30 @ 03:35:00

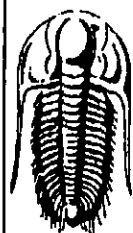
### Tool Information

Drill Pipe:	Length: 4167.00 ft	Diameter: 3.80 inches	Volume: 58.45 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 59.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4356.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I Tool	5.00			4339.00	
HYD S.I Tool	5.00			4344.00	
Safety Joint	2.00			4346.00	
Packer	5.00			4351.00	22.00 Bottom Of Top Packer
Packer	5.00			4356.00	
Stubb	1.00			4357.00	
Recorder	0.00	8366	Inside	4357.00	
Recorder	0.00	8320	Inside	4357.00	
Perforations	10.00			4367.00	
Blank Spacing	33.00			4400.00	
Perforations	3.00			4403.00	
Bullnose	3.00			4406.00	50.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>72.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

**Sherilyn #1-14**

250 N. Water Suite 300  
Wichita, KS 67202

**14/5s/31w Rawlins KS**

Job Ticket: 37342

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.05.30 @ 03:35:00

### 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: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOM 50%m, 39%o, 11%g	0.295
247.00	SMCGO 75%o, 22%g, 3%m	2.363
30.00	GO 56%g, 44%o	0.421
0.00	Gravity = TLTM	0.000

Total Length: 337.00 ft

Total Volume: 3.079 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

