

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

5/3/13

Operator: License # 30606  
Name: Murfin Drilling Company, Inc.  
Address: 250 N. Water, Suite 300  
City/State/Zip: Wichita, Kansas 67202  
Purchaser: MV Purchasing  
Operator Contact Person: Leon Rodak  
Phone: (316) 267-3241  
Contractor: Name: Murfin Drilling Company, Inc.  
License: 30606

Wellsite Geologist: Bob Peterson  
Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_

01/06/2011      01/15/2011      02/14/2011  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date                Recompletion Date

API No. 15 - 051-26075-0000  
County: Ellis  
NW NE SW SW Sec. 18 Twp. 12 S. R. 19  East  West  
1150 FSL feet from (S) N (circle one) Line of Section  
700 FWL feet from E / (W) (circle one) Line of Section

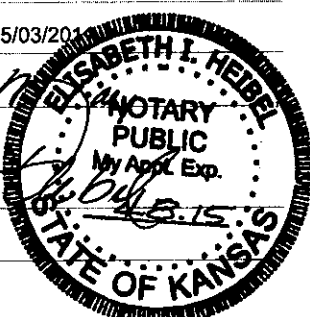
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW (SW)  
Lease Name: Homburg Well #: 1-18  
Field Name: Wildcat  
Producing Formation: LKC  
Elevation: Ground: 2226 Kelly Bushing: 2231  
Total Depth: 3975 Plug Back Total Depth: 3956  
Amount of Surface Pipe Set and Cemented at 216 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 1621 Feet  
If Alternate II completion, cement circulated from 1621  
feet depth to surface w/ 200 sx cmt.

Drilling Fluid Management Plan AK ILLU 5-10-11  
(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 No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: \_\_\_\_\_  
Title: Leon Rodak, VP Production Date: 05/03/2011  
Subscribed and sworn to before me this 3rd day of May  
2011  
Notary Public: Elizabeth I. Hebel  
Date Commission Expires: 4.8.15



KCC Office Use ONLY  
 Letter of Confidentiality Received  
If Denied, Yes  Date: MAY 05 2011  
 Wireline Log Received  
 Geologist Report Received  
UIC Distribution  
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Operator Name: Murfin Drilling Company, Inc. Lease Name: Homburg Well #: 1-18  
 Sec. 18 Twp. 12 S. R. 19  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)  
 List All E. Logs Run:

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

SEE ATTACHED LIST

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E-mailed Electronically:  
 Dual Induction, Compensated Porosity,  
 Microresistivity

CASING RECORD <input 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	24#	216	Common	170	3% cc, 2% gel
Production		5 1/2	15.5#	3979	AA2	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	3547 - 3550 LKC "A"	250 gal 15% MCA	
4	3558 - 3561 LKC "A"		
4	3580 - 3590 LKC "B"	LKC "B" & "D" w/ 750 gal 15% MCA	
4	3599 - 3604 LKC "D"	250 gal 15% MCA	

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TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	3675		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 02/21/2011	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. 35	Gas Mcf	Water Bbls. 2	Gas-Oil Ratio 33

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)  
 METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)  
 Production Interval 3547 - 3604

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MDCI  
Homburg #1-18  
1150' FSL 700' FWL  
Sec. 18-T12S-R19W  
2231' KB

Dreiling, LTD of Colorado  
#1 Dreiling  
SE NE NW  
Sec. 24-T12S-R20W  
2280' KB

Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1590	+641	+6	1598	+633	-2	1645	+635
B/Anhydrite	1637	+594	+3	1642	+589	-2	1689	+591
Topeka	3265	-1034	+10	3275	-1044	Flat	3324	-1044
Deer Creek	3318	-1087	+10	3329	-1098	-1	3377	-1097
Lecompton	3382	-1151	+9	3392	-1161	-1	3440	-1160
Heebner	3492	-1261	+12	3504	-1273	Flat	3553	-1273
Lansing	3535	-1304	+11	3546	-1315	Flat	3595	-1315
BKC				3794	-1563	-1	3842	-1562
Marmaton				3809	-1578	+1	3859	-1579
Pawnee				3828	-1597	+1	3878	-1598
Arbuckle	3873	-1642	+45	3868	-1637	+50	3967	-1687
RTD	3975	-1744					4002	
LTD				3988	-1757		4000	

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PO BOX 31 Russell, KS 67665

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

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

# INVOICE

Invoice Number: 125822  
 Invoice Date: Jan 6, 2011  
 Page: 1

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*PROD CN*

*operator pay mdc*

*Sub acct*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Homburg #1-18	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Jan 6, 2011	2/5/11

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	13.50	2,295.00
3.00	MAT	Gel	20.25	60.75
6.00	MAT	Chloride	51.50	309.00
179.00	SER	Handling	2.25	402.75
20.00	SER	Mileage 179 sx @ .10 per sk per mi	17.90	358.00
1.00	SER	Surface	991.00	991.00
20.00	SER	Pump Truck Mileage	7.00	140.00

Account	Description	Amount
03600	00825 3835 4434.38	4,434.38
	(1594.77)	-1,594.77

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Subtotal	5,556.50
Sales Tax	167.88
Total Invoice Amount	4,724.38
Payment/Credit Applied	
<b>TOTAL</b>	<b>4,724.38</b>

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

\$ 1594.77

ONLY IF PAID ON OR BEFORE  
 Jan 31, 2011

-1594.77  
 3129.61

# ALLIED CEMENTING CO., LLC. 040871

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

SERVICE POINT:  
Oakley

DATE <u>1-6-11</u>	SEC <u>18</u>	TWP <u>12S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30</u>	JOB FINISH <u>12:00AM</u>
LEASE <u>Homburg</u>	WELL # <u>1-18</u>	LOCATION <u>Ellis 3N 1/2 E 1N</u>			COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		3E 1/4 N E 100					

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CONTRACTOR Murfin Drilling Rig 8

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 216'

CASING SIZE 8 3/8" DEPTH 218'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12.93 BBL

OWNER Same

CEMENT AMOUNT ORDERED 170 sks com

390cc 2% gel

COMMON 170 sks @ 13.50 2295.00

POZMIX @

GEL 3 sks @ 20.25 60.75

CHLORIDE 6 sks @ 51.50 309.00

ASC @

HANDLING 179 sks @ 2.25 402.75

MILEAGE 10.5 mile 358.00

TOTAL 3425.50

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

# 423-281 HELPER Larene

BULK TRUCK

# 394 DRIVER Jerry

BULK TRUCK

# DRIVER

REMARKS:

Cement did circulate

(Circ 12 bbls)

Thank you

CHARGE TO: Murfin

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 218'

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @

MILEAGE 20 miles @ 2.00 140.00

MANIFOLD @

TOTAL 1131.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Rodney Fan

SIGNATURE Rodney Fan

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

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Accty ✓  
 loci WIF  
 loci Leon p.1  
 Scun-Liz



**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

Date: 2/7/2011  
 Invoice # 4806

P.O.#:  
 Due Date: 3/9/2011  
 Division: Russell

# Invoice

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

USED FOR Murfin Well Corp  
 APPROVED [Signature]

**Reference:**  
 HOMBURG 1-18

**Description of Work:**  
 PORT COLLAR

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 722.89	No				
non. MetsoBeads, Plater, Gel, FloSeal, Calcium)	200	\$ 4,038.44	Yes				
Bulk Truck Matl-Material Service Charge	225	\$ 475.00	No				
Flo Seal	56	\$ 118.22	Yes				
Pump Truck Mileage-Job to Nearest Camp	11	\$ 115.88	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	11	\$ 67.81	No				

**Invoice Terms:**

Net 30

SubTotal: \$ 5,536.24  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (830.44)

SubTotal for Taxable Items: \$ 3,531.47  
 SubTotal for Non-Taxable Items: \$ 559.88

6.30% Ellis County Sales Tax

Total: \$ 4,705.80  
 Tax: \$ 222.48  
 Amount Due: \$ 4,928.29  
 Applied Payments:  
 Balance Due: \$ 4,928.29

**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. 4806

Date: <u>2-4-11</u>	Sec <u>18</u>	Twp. <u>17</u>	Range <u>R19</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>12:00 p.m.</u>
Lease <u>Hamburg</u>	Well No. <u>1-18</u>	Location <u>1/2 mile on N. Buckner Rd. S.W. 1/4 N. E 10</u>					

Contractor <u>AP Tools</u>	Owner
Type Job <u>Port Collar</u>	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 <u>7 7/8</u>	T.D.
Csg. <u>5 1/2</u>	Depth
Tbg. Size <u>2 3/8</u>	Depth
Tool <u>Port Collar</u>	Depth <u>1621</u>
Cement Left in Csg.	Shoe Joint
Meas Line	Displace
Charge To <u>Murkin</u>	
Street	
City	
State	
The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Amount Ordered <u>225 QMDC 14#F10</u>	

EQUIPMENT		<u>USED 200 SK</u>
Pumptrk <u>9</u> No.	Cement Helper <u>cars</u>	Common <u>200</u>
Bulktrk No.	Driver <u>Paul Rocky</u>	Poz. Mix
Bulktrk <u>3</u> No.	Driver <u>Dave</u>	Gel.

JOB SERVICES & REMARKS		Calcium	<u>MAY 03 2011</u>
Remarks:		Hulls	<b>CONFIDENTIAL</b>
Rat Hole		Salt	
Mouse Hole		Flowseal	
Centralizers		Kol-Seal <u>56#</u>	
Baskets		Mud CLR 48	
DNV or Port Collar		CFL-117 or CD110 CAF 38	
<u>Port Collar @ 1621 Test To 1000#</u>		Sand	
<u>Open to 14.5 + Cementation - Mix</u>		Handling <u>225</u>	
<u>200SK + Cement Circulation Displace</u>		Mileage	
<u>5 1/2" Close tool Pressure to 1000#</u>		<b>FLOAT EQUIPMENT</b>	
<u>Run 5 joints &amp; wash clean.</u>		Guide Shoe	

<u>1st 17.5SK @ 11.5 ppg.</u>	Baskets
<u>25SK @ 14.8 ppg.</u>	AFU Inserts
	Float Shoe
	Latch Down

<u>AP Tools</u>	Pumptrk Charge <u>Port Collar</u>	<b>RECEIVED</b> <b>MAY 05 2011</b> <b>KCC WICHITA</b>
	Mileage <u>11</u>	

<u>Mark Robison</u>	Tax
	Discount
	Total Charge

X Signature



WCTY ✓

cc Leon p. l  
Scan lin

PAGE 1 of 1	CUST NO 1002852	INVOICE DATE 01/18/2011
INVOICE NUMBER 1718 - 90503065		

KCC

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Pratt (620) 672-1201  
 B MURFIN DRILLING  
 I PO Box: 288  
 L RUSSELL  
 L KS US 67665  
 T  
 O ATTN:

J LEASE NAME Homburg 1-18  
 O LOCATION  
 B COUNTY Ellis  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40274788	20920		Net - 30 days	02/17/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 01/16/2011 to 01/16/2011</i>				
0040274788				
171803171A Cement-New Well Casing/Pi 01/16/2011 5 1/2" Longstring				
AA2 Cement	175.00	EA	11.39	1,993.25 T
60/40 POZ	50.00	EA	8.04	402.00 T
Cello-flake	44.00	EA	2.48	109.08 T
De-foamer (Powder)	33.00	EA	2.68	88.44 T
Salt (Fine)	822.00	EA	0.34	275.37 T
FLA-322	83.00	EA	5.03	417.08 T
Gilsonite	875.00	EA	0.45	392.79 T
5 1/2" Port Collar	1.00	EA	2,344.99	2,344.99
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	268.00	268.00
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	241.20	241.20
Turbolizer 5 1/2" (Blue)	10.00	EA	73.70	737.00
5 1/2" Basket (Blue)	1.00	EA	194.30	194.30
Cement Scratchers Cable Type 5 1/2"	13.00	EA	50.26	653.26
Super Flush II	500.00	EA	1.03	512.55 T
Unit Mileage Charge-Pickups, Vans & Cars	100.00	HR	2.85	284.75
Heavy Equipment Mileage	200.00	MI	4.69	938.00
Proppant and Bulk Delivery Charges	1,040.00	MI	1.07	1,114.88
Depth Charge; 4001-5000'	1.00	HR	1,688.40	1,688.40
Blending & Mixing Service Charge	225.00	MI	0.94	211.05
Plug Container Utilization Charge	1.00	EA	167.50	167.50
Supervisor	1.00	HR	117.25	117.25

USED FOR  
 APPROVED *[Signature]* New Well Comp.

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PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	13,151.13
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	264.01
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	13,415.14
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

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FIELD SERVICE TICKET  
1718 03171 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 1-16-11		DISTRICT PRATT, Ks.		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				LEASE Humburg				WELL NO. 1-18	
ADDRESS				COUNTY ELLIS 18-21-19 STATE Ks.					
CITY				STATE		SERVICE CREW A. Worth, K. Lesly			
AUTHORIZED BY				JOB TYPE: CNW - 5 1/2" L.S. L. K. Wiser					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
02443	2 1/2					1-16-11	1-16-11	AM	100
33708/20420	2 1/2					ARRIVED AT JOB	1-16-11	AM	
19832/19862	2 1/2					START OPERATION	1-16-11	AM	6:35
						FINISH OPERATION	1-16-11	AM	9:00
						RELEASED	1-16-11	AM	1:00
						MILES FROM STATION TO WELL 100 mi			

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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP102	AA 2 cement	SK	175		\$ 2975.00
CP103	60/40 P02	SK	50		\$ 600.00
CC102	Cell Flako	lb	44		\$ 162.80
CC105	Performer Powder	lb	33		\$ 132.00
CC111	Salt Fine	lb	822		\$ 411.00
CC129	FIR-322	lb	83		\$ 622.50
CC201	Gilsonite	lb	875		\$ 526.25
CF481	5 1/2" Port Collar	EA	1		\$ 300.00
CF607	Latchdown Plug Baffle 5 1/2 Blue	EA	1		\$ 400.00
CF1231	Auto Fill Float Shoe 5 1/2 Blue	EA	1		\$ 360.00
CF1651	Turbolizer 5 1/2 Blue	EA	10		\$ 1100.00
CF1901	5 1/2" Basket Blue	EA	1		\$ 290.00
CF201	Cement Scratchers	EA	13		\$ 975.00
CC155	Super Mash #	EA	500		\$ 265.00
		RECEIVED			
		MAY 05 2011			

CHEMICAL / ACID DATA:			

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SUB TOTAL  
DL\$

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

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



# BASIC

energy services, L.P.

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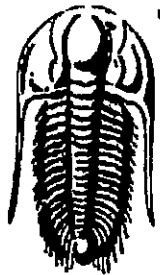
## TREATMENT REPORT

Customer: <b>MURFIN DRILLING</b>	Lease No.:	Date:
Lease: <b>Homburg</b>	Well #: <b>1-18</b>	<b>1-16-2011</b>
Field Order #: <b>3177</b>	Station: <b>PRATT, KS.</b>	Casing: <b>5 1/2"</b> Depth: <b>3979'</b> County: <b>FLLS</b> State: <b>Ks.</b>
Type Job: <b>CNW-5 1/2" L.S.</b>	Formation: <b>CNW 70 3985'</b>	Legal Description: <b>18-21-19</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: <b>5 1/2"</b>	Tubing Size:	Shots/Ft:	<b>175 sks</b>	Acid:	<b>AA-2 @ 15.2</b>	RATE:	PRESS:	ISIP:
Depth: <b>3979'</b>	Depth:	From:	To: <b>50</b>	Pre Pad:	<b>5 sks 60/40 po.</b>	Max:	<b>RH + RH.</b>	5 Min.
Volume: <b>94 BBL</b>	Volume:	From:	To:	Pad:		Min:		10 Min.
Max Press: <b>1500#</b>	Max Press:	From:	To:	Frac:	<b>12 BBL Super</b>	Avg:	<b>Flush</b>	15 Min.
Well Connection: <b>PC</b>	Annulus Vol.:	From:	To:			HHP Used:		Annulus Pressure
Plug Depth: <b>3958'</b>	Packer Depth:	From:	To:	Flush:	<b>Disp. H<sub>2</sub>O.</b>	Gas Volume:		Total Load

Customer Representative: <b>Mark Robb</b>	Station Manager: <b>D. SCOTT</b>	Treater: <b>A. WERTH</b>
Service Units: <b>28443 33708 20920 19832 19862</b>		
Driver Names: <b>WERTH LESLEY LUCAS WISER</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
14.5 AM					DN LOC. - SAFETY MEETING, SETUP, PLAN JOB
3.45					out of Hole w/ D.P. laydown Kelly Rig up to Run 5 1/2" Csg 15.5#
6.30					Start 5 1/2" csg. Shoe Jt. 20.88'
8.00	200#		5	5	0/ Float Shoe & L.D. Baffle in collar
			12	5	cont. 1-3-5-7-9-11-13-15-17-56
			5	5	Basket #56 Port Collar #57 @ 1616'
			42 1/2		Run 13 Recip Scratchers.
8.30				5	Pipe @ 3979' Hookup + circ + Recip.
	400#			5	Pump 5 BBLs H <sub>2</sub> O
8.45	1500#		94	4	Pump 12 BBLs Super Flush TL
					Pump 5 BBLs H <sub>2</sub> O
					mix + Pump. 175 sks AA2 @ 15.2#
					Finish mix. Wash out Pump + Line
				5	Drop. L.D. Plug. Start Disp.
				5	Caught Lift PST w/ 65 BBL out
				4	Plug down
					Release PST. "OK"
					Plug Rat Hole w/ 30 sks 60/40
					Plug Mouse Hole w/ 20 sks 60/40
					washup & Back up Equip.
1.00					Job complete



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Murfin Drilling Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

**18-12-19-Ellis-Ks**

**Homburg # 1-18**

Start Date: 2011.01.11 @ 13:51:04

End Date: 2011.01.11 @ 22:09:34

Job Ticket #: 041361      DST #: 1

**KCC  
MAY 03 2011  
CONFIDENTIAL**

**RECEIVED  
MAY 05 2011  
KCC WICHITA**

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



**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc

Homburg # 1-18

250 N Wtr Ste 300  
Wichita Ks 67202

18-12-19-Ellis-Ks

Job Ticket: 041361

DST#: 1

ATTN: Scott Robinson

Test Start: 2011.01.11 @ 13:51:04

## GENERAL INFORMATION:

Formation: **Oread/Toronto/A L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:48:34

Time Test Ended: 22:09:34

Interval: **3465.00 ft (KB) To 3565.00 ft (KB) (TVD)**

Total Depth: **3565.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 2231.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8354**

Inside

Press@RunDepth: 45.61 psig @ 3472.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.11

End Date:

2011.01.11

Last Calib.: 2011.01.11

Start Time: 13:51:05

End Time:

22:09:34

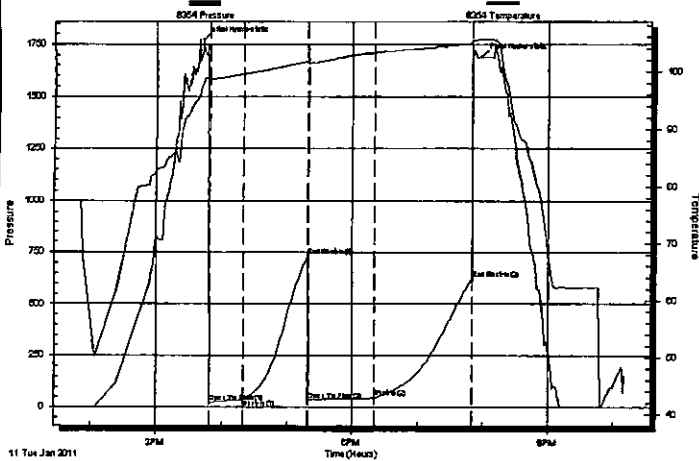
Time On Btm: 2011.01.11 @ 15:42:04

Time Off Btm: 2011.01.11 @ 19:58:34

TEST COMMENT: IF-Weak building to 1/2"

FF-Weak building to 3/4" - decreasing to weak surface blow in 60 min

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1768.49	98.02	Initial Hydro-static
7	24.07	98.63	Open To Flow (1)
38	36.49	99.51	Shut-In(1)
97	732.80	101.65	End Shut-In(1)
98	34.19	101.44	Open To Flow (2)
159	45.61	103.24	Shut-In(2)
248	622.24	104.75	End Shut-In(2)
257	1689.46	105.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Silty OCM 3% @ 97% 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

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041361

**DST#: 1**

ATTN: Scott Robinson

Test Start: 2011.01.11 @ 13:51:04

**Tool Information**

Drill Pipe:	Length: 3288.00 ft	Diameter: 3.80 inches	Volume: 46.12 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3465.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	128.00 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			3438.00	
Shut In Tool	5.00			3443.00	
Hydraulic tool	5.00			3448.00	
Jars	5.00			3453.00	
Safety Joint	3.00			3456.00	
Packer	5.00			3461.00	28.00 Bottom Of Top Packer
Packer	4.00			3465.00	
Stubb	1.00			3466.00	
Perforations	5.00			3471.00	
Change Over Sub	1.00			3472.00	
Recorder	0.00	8354	Inside	3472.00	
Recorder	0.00	8520	Outside	3472.00	
Drill Pipe	63.00			3535.00	
Change Over Sub	1.00			3536.00	
Perforations	26.00			3562.00	
Bullnose	3.00			3565.00	100.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>128.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041361

**DST#: 1**

ATTN: Scott Robinson

Test Start: 2011.01.11 @ 13:51:04

### 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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

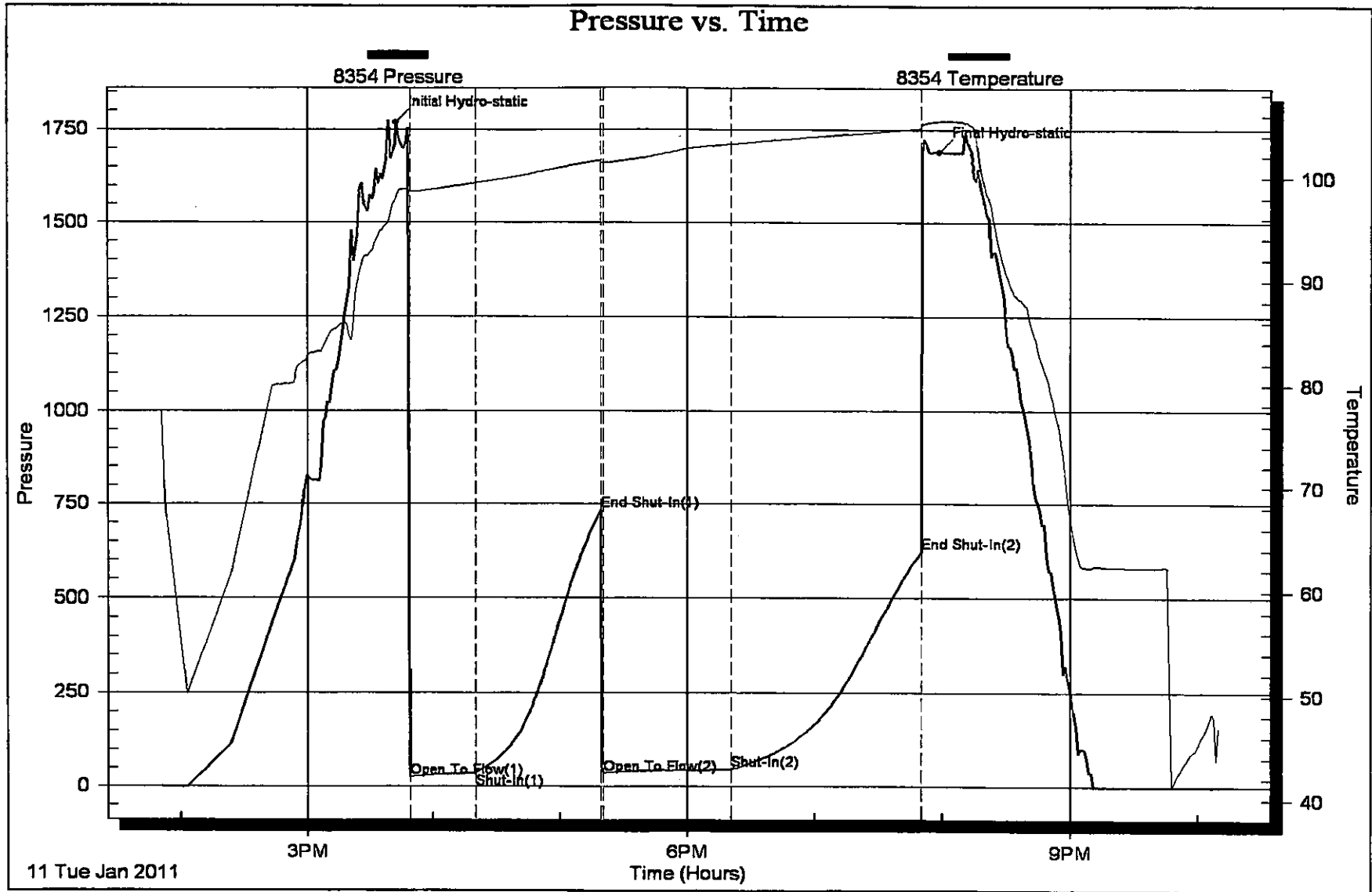
Length ft	Description	Volume bbl
60.00	SiltyOCM 3%o 97%m	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

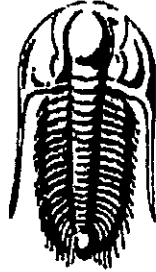
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

**18-12-19-Ellis-Ks**

**Homburg # 1-18**

Start Date: 2011.01.12 @ 12:53:29

End Date: 2011.01.12 @ 20:49:59

Job Ticket #: 041362      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co Inc

Homburg # 1-18

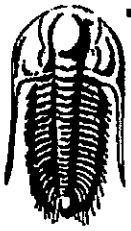
18-12-19-Ellis-Ks

DST # 2

B-C-D

L

2011.01.12



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

Homburg # 1-18

18-12-19-Ellis-Ks

Job Ticket: 041362

DST#: 2

Test Start: 2011.01.12 @ 12:53:29

### GENERAL INFORMATION:

Formation: **B-C-D L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:08:29

Time Test Ended: 20:49:59

Interval: **3556.00 ft (KB) To 3603.00 ft (KB) (TVD)**

Total Depth: **3603.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: **2231.00 ft (KB)**

**2226.00 ft (CF)**

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

Serial #: **8354**

Inside

Press@RunDepth: **113.69 psig @ 3563.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.01.12**

End Date: **2011.01.12**

Last Calib.: **2011.01.12**

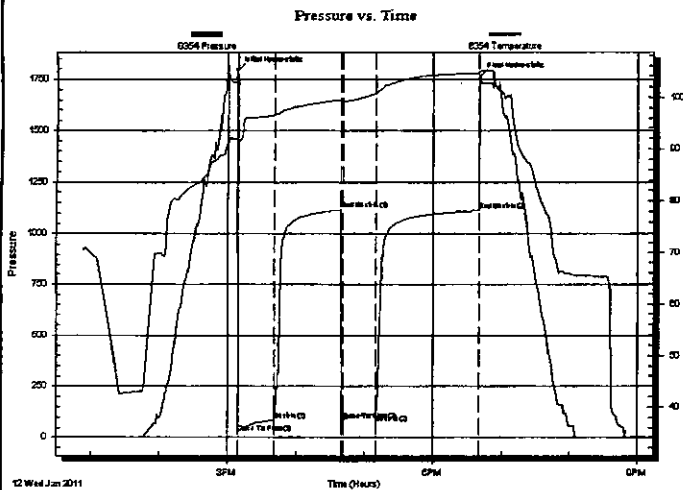
Start Time: **12:53:30**

End Time: **20:49:59**

Time On Btm: **2011.01.12 @ 15:07:59**

Time Off Btm: **2011.01.12 @ 18:40:59**

**TEST COMMENT:** IF-Strong B-B in 7 min  
IS-Weak building to 1" - died in 17 min  
FF-Strong B-B in 6 min  
FSI-Weak building to 3/4" - died in 35 min



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.83	91.90	Initial Hydro-static
1	25.50	91.39	Open To Flow (1)
33	86.57	96.60	Shut-In(1)
92	1115.36	99.54	End Shut-In(1)
94	86.56	99.27	Open To Flow (2)
122	113.69	100.78	Shut-In(2)
213	1112.45	104.69	End Shut-In(2)
213	1764.18	104.90	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
59.00	OCM 40% o 60% m	0.29
195.00	CGsyO 10%g 90%o	1.66
0.00	475 GIP	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

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041362

**DST#: 2**

ATTN: Scott Robinson

Test Start: 2011.01.12 @ 12:53:29

**Tool Information**

Drill Pipe:	Length: 3381.00 ft	Diameter: 3.80 inches	Volume: 47.43 bbl	Tool Weight:	3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose:	50000.00 lb
			<b>Total Volume: 48.30 bbl</b>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3556.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	75.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3529.00	
Shut In Tool	5.00			3534.00	
Hydraulic tool	5.00			3539.00	
Jars	5.00			3544.00	
Safety Joint	3.00			3547.00	
Packer	5.00			3552.00	28.00 Bottom Of Top Packer
Packer	4.00			3556.00	
Stubb	1.00			3557.00	
Perforations	5.00			3562.00	
Change Over Sub	1.00			3563.00	
Recorder	0.00	8354	Inside	3563.00	
Recorder	0.00	8520	Outside	3563.00	
Drill Pipe	31.00			3594.00	
Change Over Sub	1.00			3595.00	
Perforations	5.00			3600.00	
Bullnose	3.00			3603.00	47.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>75.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041362

**DST#: 2**

ATTN: Scott Robinson

Test Start: 2011.01.12 @ 12:53:29

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in<sup>2</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	OCM 40%o 60%m	0.290
195.00	CGsyO 10%g 90%o	1.660
0.00	475 GIP	0.000

Total Length: 254.00 ft

Total Volume: 1.950 bbl

Num Fluid Samples: 0

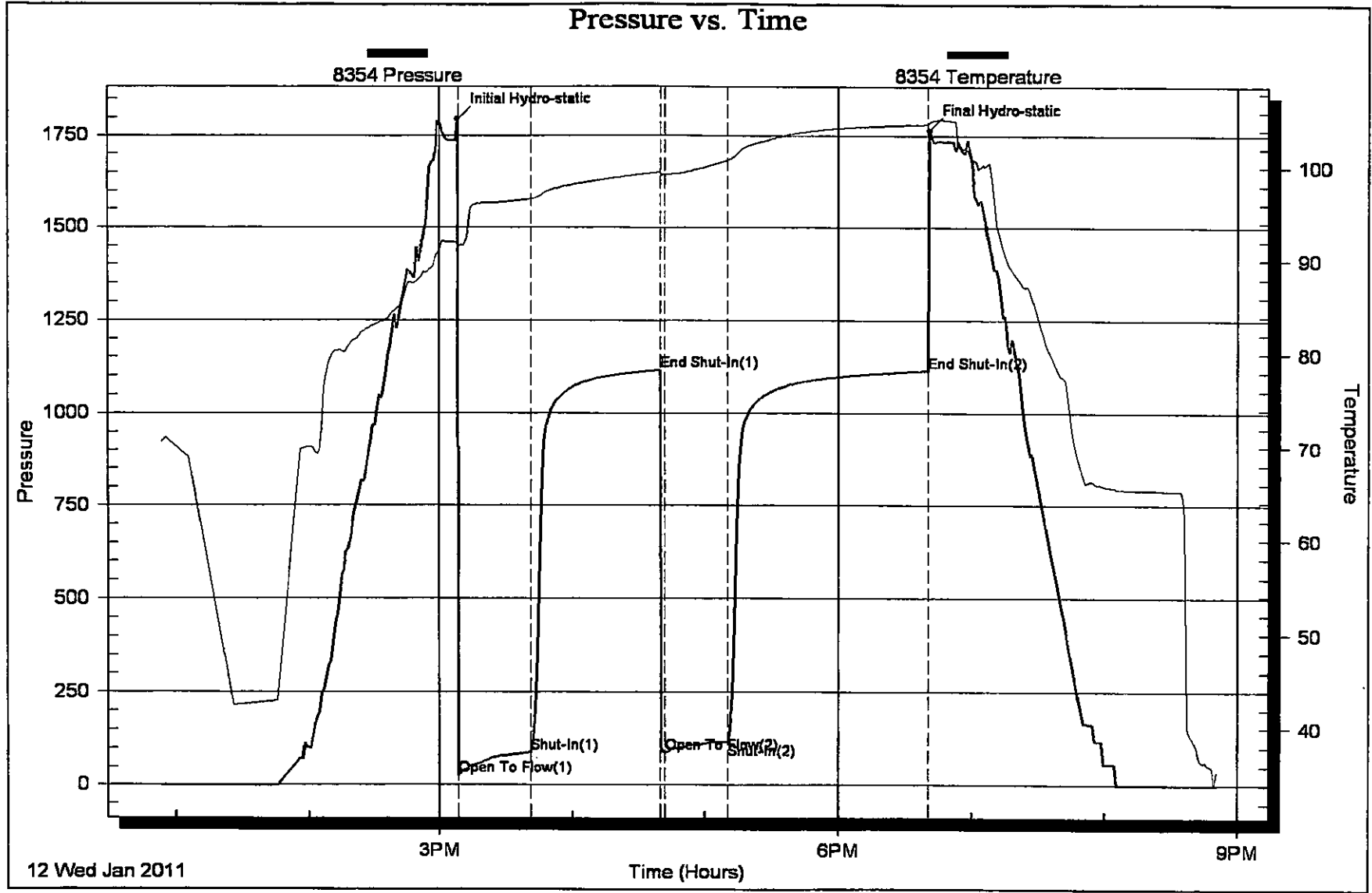
Num Gas Bombs: 0

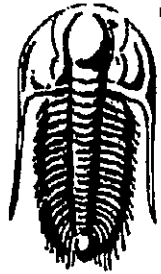
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

**18-12-19-Ellis-Ks**

**Homburg # 1-18**

Start Date: 2011.01.13 @ 05:58:33

End Date: 2011.01.13 @ 15:31:33

Job Ticket #: 041363      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co Inc

Homburg # 1-18

18-12-19-Ellis-Ks

DST # 3

E-F

LKC

2011.01.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

**Homburg # 1-18**

**18-12-19-Ellis-Ks**

Job Ticket: 041363

DST#: 3

Test Start: 2011.01.13 @ 05:58:33

## GENERAL INFORMATION:

Formation: **E-F LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:33

Time Test Ended: 15:31:33

Interval: **3598.00 ft (KB) To 3623.00 ft (KB) (TVD)**

Total Depth: **3623.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Reference Elevations: 2231.00 ft (KB)

2226.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8354**

Inside

Press@RunDepth: 106.32 psig @ 3599.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.13

End Date: 2011.01.13

Last Calib.: 2011.01.13

Start Time: 05:58:34

End Time: 15:31:33

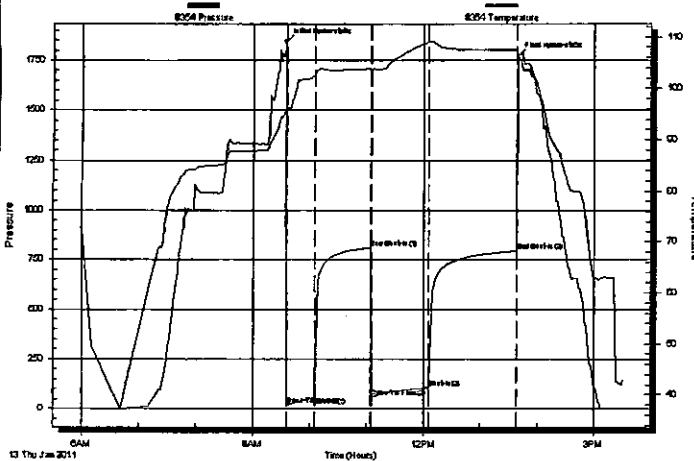
Time On Btm: 2011.01.13 @ 09:34:33

Time Off Btm: 2011.01.13 @ 13:39:33

TEST COMMENT: IF-Weak building to 4"

FF-Weak steady 1/2" blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.83	95.53	Initial Hydro-static
1	18.76	95.71	Open To Flow (1)
30	57.12	102.48	Shut-In(1)
90	809.70	103.77	End Shut-In(1)
91	59.14	103.65	Open To Flow (2)
151	106.32	108.95	Shut-In(2)
244	794.15	107.49	End Shut-In(2)
245	1771.06	106.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	Wtr	1.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041363

**DST#: 3**

ATTN: Scott Robinson

Test Start: 2011.01.13 @ 05:58:33

**Tool Information**

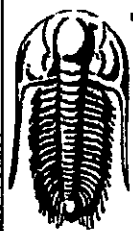
Drill Pipe:	Length: 3413.00 ft	Diameter: 3.80 inches	Volume: 47.88 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3598.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3571.00	
Shut In Tool	5.00			3576.00	
Hydraulic tool	5.00			3581.00	
Jars	5.00			3586.00	
Safety Joint	3.00			3589.00	
Packer	5.00			3594.00	28.00 Bottom Of Top Packer
Packer	4.00			3598.00	
Stubb	1.00			3599.00	
Recorder	0.00	8354	Inside	3599.00	
Recorder	0.00	8520	Outside	3599.00	
Perforations	21.00			3620.00	
Bullnose	3.00			3623.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041363

**DST#: 3**

ATTN: Scott Robinson

Test Start: 2011.01.13 @ 05:58:33

**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:

85000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
190.00	Wtr	1.053

Total Length: 190.00 ft      Total Volume: 1.053 bbl

Num Fluid Samples: 0

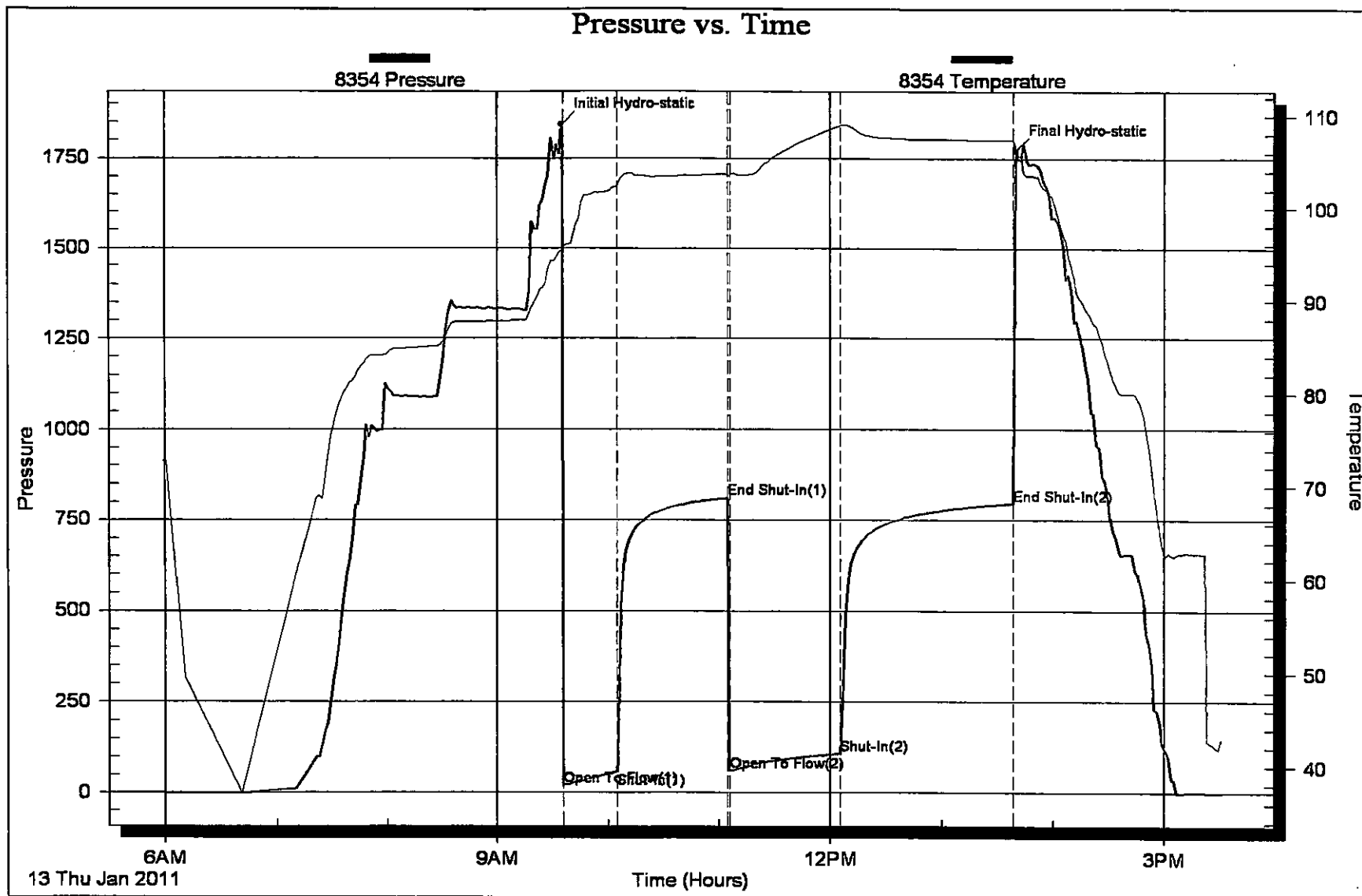
Num Gas Bombs: 0

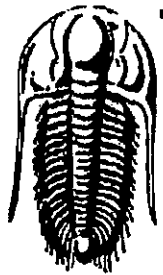
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09 @ 70F = 85000 chlorides





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

**18-12-19-Ellis-Ks**

**Homburg # 1-18**

Start Date: 2011.01.14 @ 02:25:42

End Date: 2011.01.14 @ 09:06:42

Job Ticket #: 041364      DST #: 4

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

Murfin Drilling Co Inc

Homburg # 1-18

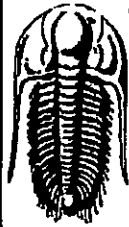
18-12-19-Ellis-Ks

DST # 4

J

LKC

2011.01.14



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Wtr Ste 300  
Wichita Ks 67202

ATTN: Scott Robinson

**Homburg # 1-18**

**18-12-19-Ellis-Ks**

Job Ticket: 041364

DST#: 4

Test Start: 2011.01.14 @ 02:25:42

### GENERAL INFORMATION:

Formation: **J LKC**

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

Time Tool Opened: **04:13:42**

Time Test Ended: **09:06:42**

Interval: **3700.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Total Depth: **3730.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Test Type: **Conventional Bottom Hole**

Tester: **Dan Bangle**

Unit No: **38**

Reference Elevations: **2231.00 ft (KB)**

**2226.00 ft (CF)**

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

**Serial #: 8354**

**Inside**

Press@RunDepth: **19.93 psig @ 3701.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.01.14** End Date: **2011.01.14**

Last Calib.: **2011.01.14**

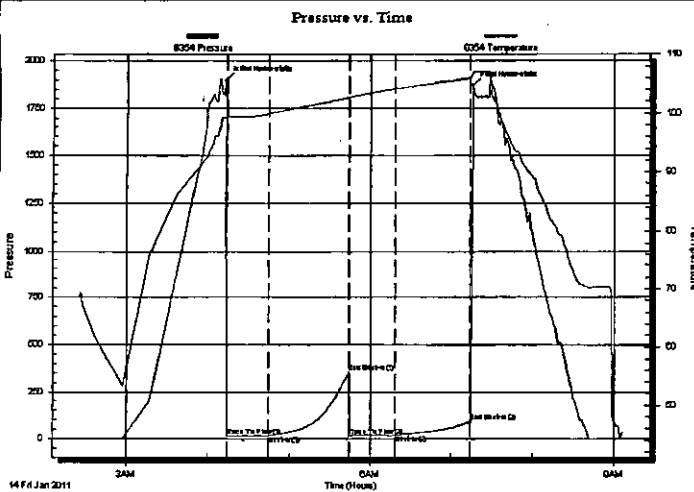
Start Time: **02:25:43** End Time: **09:06:42**

Time On Btm: **2011.01.14 @ 04:13:12**

Time Off Btm: **2011.01.14 @ 07:15:42**

**TEST COMMENT: IF-Weak steady surface blow**

**FF-Weak steady surface blow**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.53	99.47	Initial Hydro-static
1	16.86	99.20	Open To Flow (1)
32	17.89	99.92	Shut-In(1)
91	351.39	102.55	End Shut-In(1)
92	18.09	102.54	Open To Flow (2)
126	19.93	104.09	Shut-In(2)
181	92.25	105.96	End Shut-In(2)
183	1870.28	106.85	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig Mud	0.01

### Gas Rates

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



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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co Inc

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041364

**DST#: 4**

ATTN: Scott Robinson

Test Start: 2011.01.14 @ 02:25:42

### Tool Information

Drill Pipe:	Length: 3507.00 ft	Diameter: 3.80 inches	Volume: 49.19 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 177.00 ft	Diameter: 2.25 inches	Volume: 0.87 bbl	Weight to Pull Loose: 50000.00 lb
			<b>Total Volume: 50.06 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3700.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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			3673.00	
Shut In Tool	5.00			3678.00	
Hydraulic tool	5.00			3683.00	
Jars	5.00			3688.00	
Safety Joint	3.00			3691.00	
Packer	5.00			3696.00	28.00 Bottom Of Top Packer
Packer	4.00			3700.00	
Stubb	1.00			3701.00	
Recorder	0.00	8354	Inside	3701.00	
Recorder	0.00	8520	Outside	3701.00	
Perforations	26.00			3727.00	
Bullnose	3.00			3730.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 58.00**



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co Inc

**Homburg # 1-18**

250 N Wtr Ste 300  
Wichita Ks 67202

**18-12-19-Ellis-Ks**

Job Ticket: 041364      **DST#: 4**

ATTN: Scott Robinson

Test Start: 2011.01.14 @ 02:25:42

**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: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5200.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
2.00	Drig Mud	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

