

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

11/4/10

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30606  
Name: Murfin Drilling Company, Inc. **KCC**  
Address 1: 250 N. Water, Suite 300 **NOV 04 2010**  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67202 **CONFIDENTIAL**  
Contact Person: Leon Rodak  
Phone: (316) 267-3241 **RECEIVED**  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Company, Inc. **NOV 05 2010**  
Wellsite Geologist: Paul Gunzelman **KCC WICHITA**  
Purchaser: None

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 #: \_\_\_\_\_

10/13/10 10/21/10 10/22/10  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 141-20419-0000  
Spot Description: \_\_\_\_\_  
SE SW NW NW Sec. 36 Twp. 08 S. R. 13  East  West  
1100 Feet from  North /  South Line of Section  
525 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Osborne  
Lease Name: Etta Well #: 1-36  
Field Name: Wildcat  
Producing Formation: None  
Elevation: Ground: 1858 Kelly Bushing: 1863  
Total Depth: 4115 Plug Back Total Depth: None  
Amount of Surface Pipe Set and Cemented at: 228 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan  
(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: \_\_\_\_\_  
Title: VP Production Date: 11/04/10

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: 11/4/10 - 11/4/10  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: **MS** Date: 11-15-10  
**PA**

KCC  
NOV 04 2010  
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Operator Name: Murfin Drilling Company, Inc. Lease Name: Etta  
 Sec. 36 Twp. 08 S. R. 13  East  West County: Osborne Well #: 1-36

**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
--	--

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#	228	Common	160	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		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 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: _____ _____
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Sample Tops

Formation	MDCI Etta #1-36 1100 FNL 525 FWL Sec. 36-T8S-R13W 1863' KB		Marken Inc. Enochs #1 S2 SE NE Sec. 25-T8S-R13W 1842' KB			Castle Resources, Inc. Schweitzer #1 SE NW NW SE Sec. 27-T8S-R12W 1652' KB			Barline Oil Company Schultze 'A' #1-29 2310 FSL 1650 FEL Sec. 29-T8S-R13W 1771' KB		
	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	1026	+837	+30	1035	+807	-35	780	+872	+80	1014	+757
B/Anhydrite	1056	+807	+33	1068	+774	-35	810	+842	+85	1049	+722
Topeka	2802	-939	-9	2772	-930	-34	2557	-905	+14	2724	-953
Heebner	3061	-1198	-7	3033	-1191	-23	2827	-1175	+8	2977	-1206
Toronto	3089	-1226	-6	3062	-1220	-24	2854	-1202	+5	3002	-1231
Lansing	3118	-1255	-5	3092	-1250	-21	2886	-1234	+6	3032	-1261
Stark	3343	-1480	-2	3320	-1478	-8	3124	-1472	+2	3253	-1482
BKC	3413	-1550	-4	3388	-1546	-2	3200	-1548	-2	3319	-1548
Cong	3588	-1725	-3	3564	-1722	+3	3380	-1728	-5	3491	-1720
Viola	3834	-1971	+69	3882	-2040	+152	3775	-2123	-30	3712	-1941
Simpson	3990	-2127	+55	4024	-2182		NDE	NDE	-112	3786	-2015
Arbuckle	4065	-2202	+33	4077	-2235		NDE	NDE	-136	3837	-2066
RTD	4115			4161			3895			3860	
LTD	4115			4151			3894			3864	

Log Tops

Formation	MDCI Etta #1-36 1100 FNL 525 FWL Sec. 36-T8S-R13W 1863' KB		Marken Inc. Enochs #1 S2 SE NE Sec. 25-T8S-R13W 1842' KB			Castle Resources, Inc. Schweitzer #1 SE NW NW SE Sec. 27-T8S-R12W 1652' KB			Barline Oil Company Schultze 'A' #1-29 2310 FSL 1650 FEL Sec. 29-T8S-R13W 1771' KB		
	Log top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	1022	+841	+34	1035	+807	-31	780	+872	+84	1014	+757
B/Anhydrite	1054	+809	+35	1068	+774	-33	810	+842	+87	1049	+722
Topeka	2801	-938	-8	2772	-930	-33	2557	-905	+15	2724	-953
Heebner	3060	-1197	-6	3033	-1191	-22	2827	-1175	+9	2977	-1206
Toronto	3086	-1223	-3	3062	-1220	-21	2854	-1202	+8	3002	-1231
Lansing	3116	-1253	-3	3092	-1250	-19	2886	-1234	+8	3032	-1261
Stark	3341	-1478	Flat	3320	-1478	-6	3124	-1472	+4	3253	-1482
BKC	3410	-1547	-1	3388	-1546	+1	3200	-1548	+1	3319	-1548
Cong	3582	-1719	+3	3564	-1722	+9	3380	-1728	+1	3491	-1720
Viola	3852	-1989	+51	3882	-2040	+134	3775	-2123	-48	3712	-1941
Simpson	3988	-2125	+57	4024	-2182		NDE	NDE		3786	-2015
Arbuckle	4042	-2179	+56	4077	-2235		NDE	NDE		3837	-2066
RTD	4115			4161			3895			3860	
LTD	4115			4151			3894			3864	

**RECEIVED**  
**NOV 05 2010**  
**KCC WICHITA**

Accty — cc: Liz



PO BOX 31 Russell, KS 67665

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

# INVOICE

Invoice Number: 124993

Invoice Date: Oct 22, 2010

Page: 1

USED FOR Plug New Well D&A  
 APPROVED [Signature]

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

KCC  
 NOV 04 2010  
 CONFIDENTIAL

**PROD COPY**

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Etta #1-36	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Russell	Oct 22, 2010	11/21/10

Quantity	Item	Description	Unit Price	Amount
138.00	MAT	Class A Common	13.50	1,863.00
92.00	MAT	Pozmix	7.55	694.60
8.00	MAT	Gel	20.25	162.00
57.00	MAT	Flo Seal	2.45	139.65
230.00	SER	Handling	2.25	517.50
38.00	SER	Mileage 230 sx @.10 per sk per mi	23.00	874.00
1.00	SER	Rotary Plug	991.00	991.00
38.00	SER	Pump Truck Mileage	7.00	266.00
2.00	SER	Rig time - waiting on cement	350.00	-700.00

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 NOV 05 2010  
 KCC WICHITA

Account	Description
0800 008 W 3772 5237.35	PTA
	(1682.71)

Subtotal	4,807.75
Sales Tax	429.60
Total Invoice Amount	5,237.35
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,237.35</b>

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

\$ 1682.71

ONLY IF PAID ON OR BEFORE  
 Nov 16, 2010

(1682.71)  
 3554.64

# ALLIED CEMENTING CO., LLC. 041973

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

SERVICE POINT:

Russell KS KCC

DATE <u>10-22-2010</u>	SEC. <u>36</u>	TWP. <u>8 S</u>	RANGE <u>13 W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30 AM</u>	JOB FINISH <u>7:00 AM</u>	NOV 04 2010
LEASE <u>ETTA</u>	WELL # <u>1-36</u>	LOCATION <u>OSBORNE KS 10S 1 1/2 W</u>			COUNTY <u>OSBORNE</u>	STATE <u>KANSAS</u>	CONFIDENTIAL	
OLD OR <u>NEW</u> (Circle one)		<u>3/4 N 2 W INTD</u>						

CONTRACTOR MURFIN DRILLING RIG #8 OWNER \_\_\_\_\_  
 TYPE OF JOB Rotary Plug  
 HOLE SIZE 7 7/8 T.D. 4115  
 CASING SIZE 8 5/8 Surface DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 X-H DEPTH 4045  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 2.30 SK 60 4% GEL  
1/4 # F10-Seal For SK

COMMON	<u>138</u>	@ <u>13.5</u>	<u>1863.00</u>
POZMIX	<u>92</u>	@ <u>7.55</u>	<u>694.60</u>
GEL	<u>8</u>	@ <u>20.25</u>	<u>162.00</u>
CHLORIDE		@	
ASC		@	
<u>F10 Seal</u>	<u>57 #</u>	@ <u>2.95</u>	<u>168.65</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>230</u>	@ <u>2.25</u>	<u>517.50</u>
MILEAGE	<u>1.0/1k/mile</u>		<u>874.00</u>
TOTAL			<u>4250.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn  
 # 398 HELPER Richard  
 BULK TRUCK  
 # 410 DRIVER Gorge  
 BULK TRUCK  
 # DRIVER

REMARKS:

25 SK @ 4045  
25 SK @ 1041  
100 SK @ 808  
40 SK @ 278  
10 SK @ 40'  
30 SK @ Rathole

SERVICE

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE 991.00  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 38 @ 7.00 266.00  
 MANIFOLD @ \_\_\_\_\_  
Waiting on cement @ \_\_\_\_\_  
Reg time 2 hr @ 350 <1700.00  
 TOTAL 557.00

CHARGE TO: MURFIN Drilling Co. Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
wait time 2 HRS!

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 Farr  
 SIGNATURE Rodney Farr

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

RECEIVED  
 NOV 05 2010  
 KCC WICHITA



PO BOX 31 Russell, KS 67665

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

*Fry*

# INVOICE

Invoice Number: 124896  
 Invoice Date: Oct 14, 2010  
 Page: 1

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

*operator pay  
mcc*

**KCC**  
**NOV 04 2010**  
**CONFIDENTIAL**

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Etta #1-36 / <i>BM</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Russell	Oct 14, 2010	11/13/10

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	13.50	2,227.50
3.00	MAT	Gel	20.25	60.75
6.00	MAT	Chloride	51.50	309.00
165.00	SER	Handling	2.25	371.25
38.00	SER	Mileage 165 sx @ .10 per sk per mi	16.50	627.00
1.00	SER	Surface	991.00	991.00
38.00	SER	Pump Truck Mileage	7.00	266.00

*DD*

**RECEIVED**  
**NOV 05 2010**  
**KCC WICHITA**

Subtotal	4,852.50
Sales Tax	202.59
Total Invoice Amount	5,055.09
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,055.09</b>

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

\$ ~~5,055.09~~ *1698.38*

ONLY IF PAID ON OR BEFORE  
**Nov 8, 2010**

*Adjusted  
To 35%*

*mm*

# ALLIED CEMENTING CO., LLC. 042010

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

NOV 04 2010  
CONFIDENTIAL

SERVICE POINT:  
Russell KS

DATE <u>10-14-10</u>	SEC. <u>36</u>	TWP. <u>8</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30am</u>	JOB FINISH <u>2:00AM</u>
LEASE <u>Etta</u>	WELL # <u>1-36</u>		LOCATION <u>Luray KS 13 North 1 1/2 West</u>		COUNTY <u>Osborne</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>North into</u>				

CONTRACTOR Murfin Drilling #8  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 228'  
 CASING SIZE 8 5/8 23# DEPTH 228'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 13.5 BBL  
 EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER John Roberts  
 # 398 HELPER Richard TWS  
 BULK TRUCK \_\_\_\_\_  
 # 410 DRIVER Brad TWS  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

Est. Circulation  
Mix 165 sk cement  
Displace w/ 13.5 BBL H2O  
Cement Did Cement!  
Thank You!

CHARGE TO: Murfin Drilling  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 165com 3% cc 2% Gel

COMMON	<u>165</u>	@	<u>13.50</u>	<u>2227.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE	<u>6</u>	@	<u>51.50</u>	<u>309.00</u>
ASC		@		
<b>RECEIVED</b>				
<u>NOV 05 2010</u>				
<b>KCC WICHITA</b>				
HANDLING	<u>165</u>	@	<u>2.25</u>	<u>371.25</u>
MILEAGE	<u>10/51/10</u>	@		<u>627.00</u>
				TOTAL <u>3595.50</u>

**SERVICE**

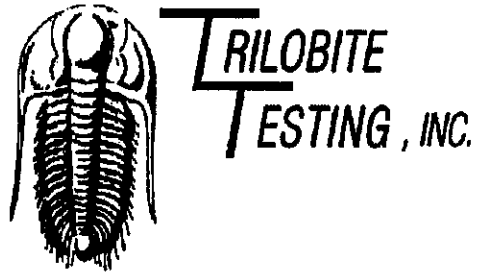
DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>991.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>52</u>	@	<u>7.00</u>	<u>266.00</u>
MANIFOLD		@		
				TOTAL <u>1257.00</u>

**PLUG & FLOAT EQUIPMENT**

_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
TOTAL _____			

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

KCC  
NOV 04 2010  
CONFIDENTIAL



## DRILL STEM TEST REPORT

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

250 N Water STE 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**36-8s-12w Osborne,KS**

**Etta 1-36**

Start Date: 2010.10.17 @ 00:39:07

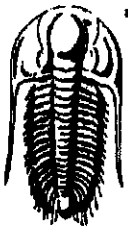
End Date: 2010.10.17 @ 07:50:37

Job Ticket #: 40425                      DST #: 1

RECEIVED  
NOV 05 2010  
KCC WICHITA

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.

Etta 1-36

250 N Water STE 300  
Wichita KS 67202

36-8s-12w Osbone, KS

Job Ticket: 40425

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.10.17 @ 00:39:07

### GENERAL INFORMATION:

Formation: Topeka

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:37

Time Test Ended: 07:50:37

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 2830.00 ft (KB) To 2873.00 ft (KB) (TVD)

Reference Elevations: 1868.00 ft (KB)

Total Depth: 2873.00 ft (KB) (TVD)

1863.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319

Inside

Press@RunDepth: 26.60 psig @ 2836.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.17

End Date:

2010.10.17

Last Calib.:

2010.10.17

Start Time: 00:39:12

End Time:

07:50:36

Time On Btm:

2010.10.17 @ 03:16:37

Time Off Btm:

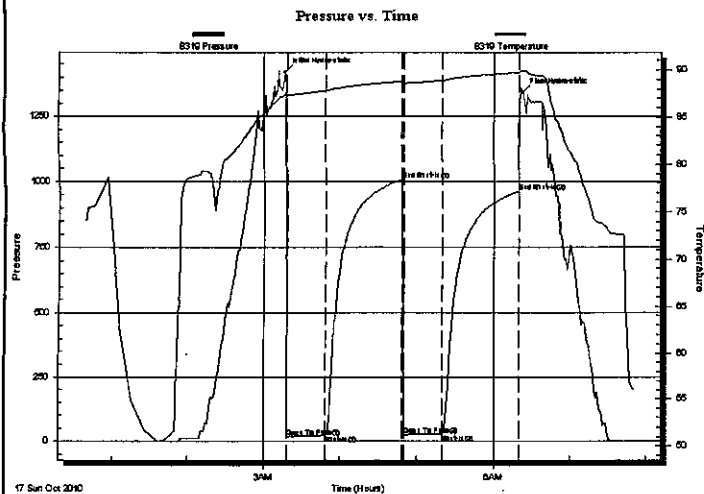
2010.10.17 @ 06:22:37

TEST COMMENT: IF-1/4in blow died back to very weak surface blow

ISI-No blow

FF-No blow

FSI-No blow



### PRESSURE SUMMARY

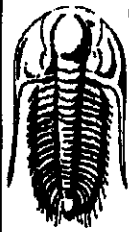
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1419.81	87.35	Initial Hydro-static
2	15.29	87.23	Open To Flow (1)
32	20.76	87.81	Shut-In(1)
92	1007.22	88.81	End Shut-In(1)
93	23.27	88.60	Open To Flow (2)
123	26.60	88.88	Shut-In(2)
183	963.38	89.71	End Shut-In(2)
186	1342.64	89.89	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co, Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osbone, KS**

Job Ticket: 40425

**DST#: 1**

ATTN: Paul Gunzelman

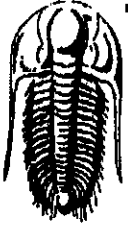
Test Start: 2010.10.17 @ 00:39:07

## Tool Information

Drill Pipe:	Length: 2659.00 ft	Diameter: 3.80 inches	Volume: 37.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	2830.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	66.00 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			2808.00	
Shut In Tool	5.00			2813.00	
Hydraulic tool	5.00			2818.00	
Safety Joint	3.00			2821.00	
Packer	4.00			2825.00	23.00 Bottom Of Top Packer
Packer	5.00			2830.00	
Stubb	1.00			2831.00	
Perforations	5.00			2836.00	
Recorder	0.00	8319	Inside	2836.00	
Recorder	0.00	6719	Outside	2836.00	
Change Over Sub	1.00			2837.00	
Drill Pipe	32.00			2869.00	
Change Over Sub	1.00			2870.00	
Bullnose	3.00			2873.00	43.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>66.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osbone, KS**

Job Ticket: 40425

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2010.10.17 @ 00:39:07

**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:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbbl
10.00	Mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

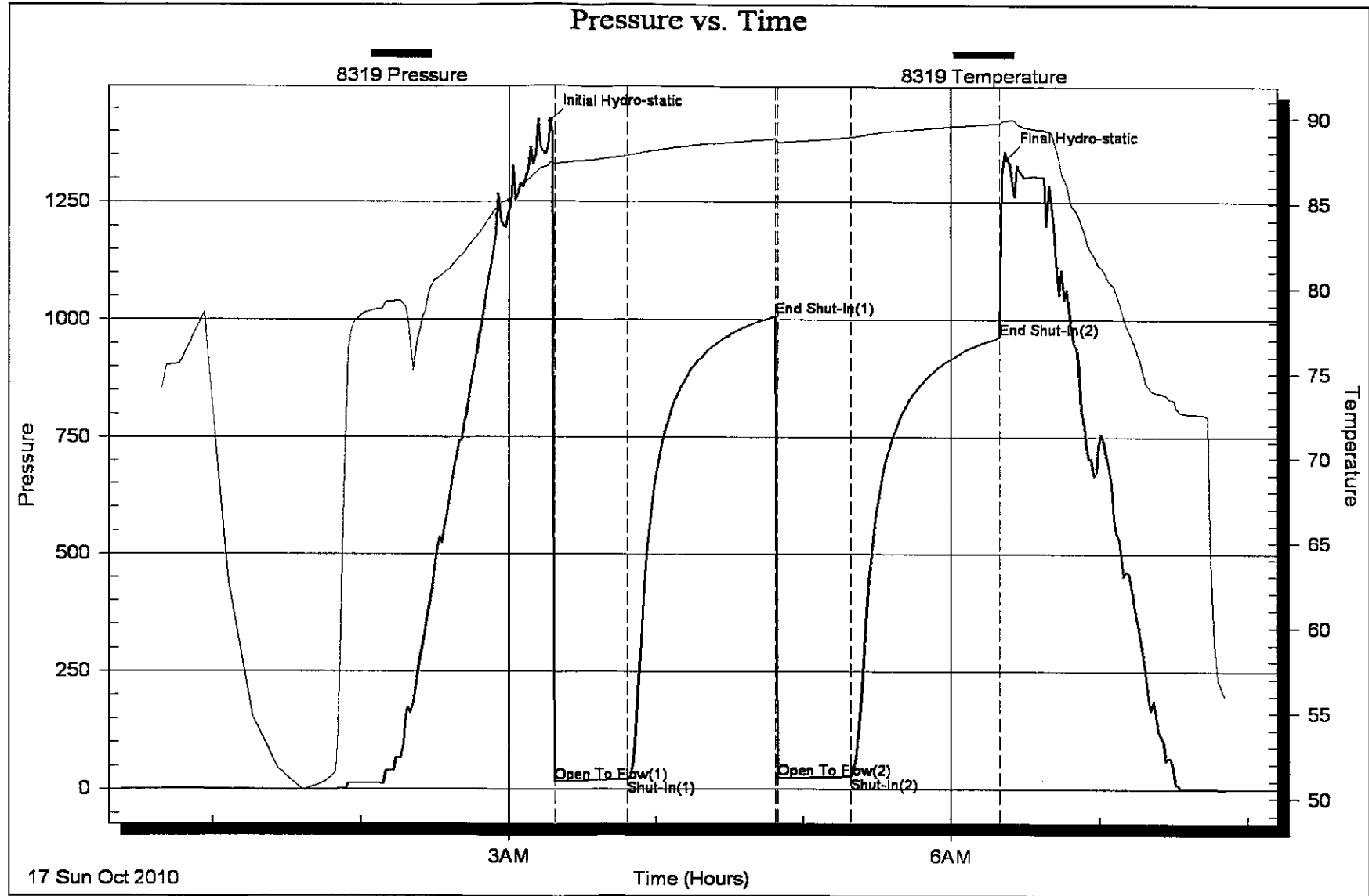
Num Gas Bombs: 0

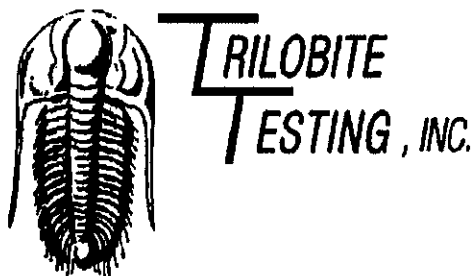
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**DRILL STEM TEST REPORT**

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

250 N Water STE 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**36-8s-12w Osbone,KS**

**Etta 1-36**

Start Date: 2010.10.18 @ 00:33:40

End Date: 2010.10.18 @ 05:39:10

Job Ticket #: 40976                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co, Inc.

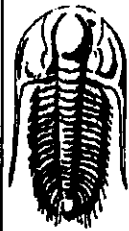
Etta 1-36

36-8s-12w Osbone,KS

DST # 2

KC"A,B"

2010.10.18



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osborne, KS**

Job Ticket: 40976

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2010.10.18 @ 00:33:40

### GENERAL INFORMATION:

Formation: **KC"A,B"**

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

Time Tool Opened: **02:11:10**

Time Test Ended: **05:39:10**

Test Type: **Conventional Bottom Hole**

Tester: **Brett Dickinson**

Unit No: **47**

Interval: **3098.00 ft (KB) To 3141.00 ft (KB) (TVD)**

Total Depth: **3141.00 ft (KB) (TVD)**

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

Reference Elevations: **1868.00 ft (KB)**

**1863.00 ft (CF)**

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

**Serial #: 8319**

**Inside**

Press@RunDepth: **20.09 psig @ 3104.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.10.18**

End Date: **2010.10.18**

Last Calib.: **2010.10.18**

Start Time: **00:33:45**

End Time: **05:39:09**

Time On Btm: **2010.10.18 @ 02:10:10**

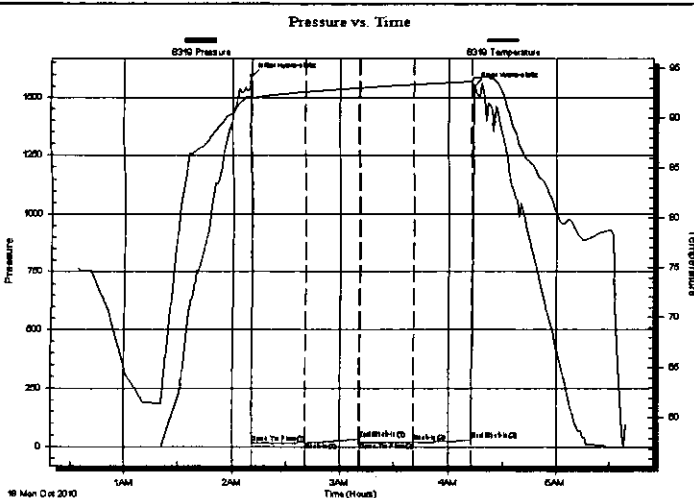
Time Off Btm: **2010.10.18 @ 04:14:10**

**TEST COMMENT:** IF-very weak surface blow died in 7min

ISI-no blow

FF-no blow

FSI-no blow



### PRESSURE SUMMARY

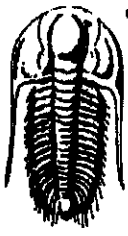
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1590.73	92.28	Initial Hydro-static
1	18.19	91.98	Open To Flow (1)
31	19.20	92.61	Shut-In(1)
61	34.58	93.00	End Shut-In(1)
61	19.55	93.01	Open To Flow (2)
91	20.09	93.35	Shut-In(2)
123	29.48	93.65	End Shut-In(2)
124	1548.82	94.05	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted mud	0.02

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co, Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osbone, KS**

Job Ticket: 40976

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2010.10.18 @ 00:33:40

### Tool Information

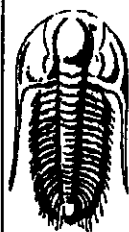
Drill Pipe:	Length: 2945.00 ft	Diameter: 3.80 inches	Volume: 41.31 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length:           ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3098.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	66.00 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			3076.00	
Shut In Tool	5.00			3081.00	
Hydraulic tool	5.00			3086.00	
Safety Joint	3.00			3089.00	
Packer	4.00			3093.00	23.00 Bottom Of Top Packer
Packer	5.00			3098.00	
Stubb	1.00			3099.00	
Perforations	5.00			3104.00	
Recorder	0.00	8319	Inside	3104.00	
Recorder	0.00	6719	Outside	3104.00	
Change Over Sub	1.00			3105.00	
Drill Pipe	32.00			3137.00	
Change Over Sub	1.00			3138.00	
Bullnose	3.00			3141.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co, Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osbone, KS**

Job Ticket: 40976

**DST#: 2**

ATTN: Paul Gunzelman

Test Start: 2010.10.18 @ 00:33:40

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil spotted mud	0.025

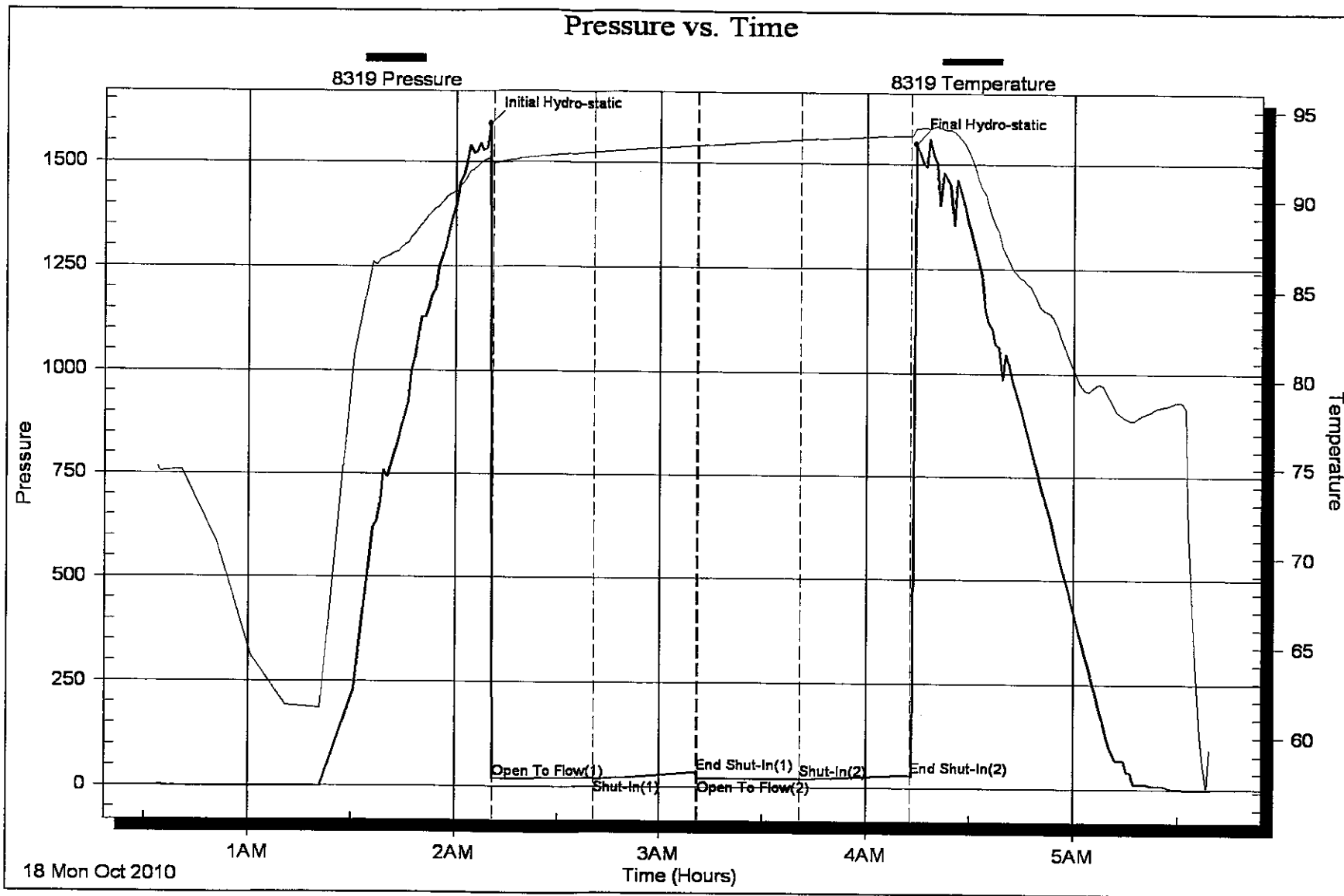
Total Length: 5.00 ft      Total Volume: 0.025 bbl

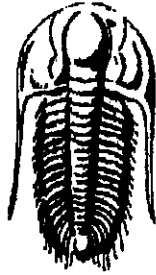
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

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: Paul Gunzelman

**36-8s-12w Osbone,KS**

**Etta 1-36**

Start Date: 2010.10.18 @ 11:30:44

End Date: 2010.10.18 @ 19:31:44

Job Ticket #: 40977                      DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co, Inc.

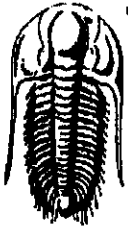
Etta 1-36

36-8s-12w Osbone,KS

DST # 3

KC"B,C,D"

2010.10.18



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

Etta 1-36

250 N Water STE 300  
Wichita KS 67202

36-8s-12w Osborne, KS

Job Ticket: 40977

DST#: 3

ATTN: Paul Gunzelman

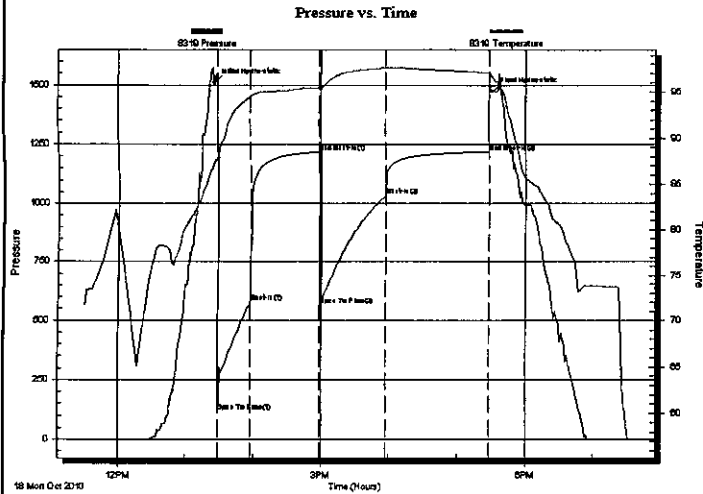
Test Start: 2010.10.18 @ 11:30:44

## GENERAL INFORMATION:

Formation: **KC"B,C,D"**  
 Deviated: **No Whipstock:** ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **13:28:44**  
 Tester: **Brett Dickinson**  
 Time Test Ended: **19:31:44**  
 Unit No: **47**  
 Interval: **3140.00 ft (KB) To 3192.00 ft (KB) (TVD)**  
 Reference Elevations: **1868.00 ft (KB)**  
 Total Depth: **3192.00 ft (KB) (TVD)**  
**1863.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **5.00 ft**

**Serial #: 8319** Inside  
 Press@RunDepth: **1034.93 psig @ 3146.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.10.18** End Date: **2010.10.18** Last Calib.: **2010.10.18**  
 Start Time: **11:30:49** End Time: **19:31:43** Time On Btm: **2010.10.18 @ 13:25:44**  
 Time Off Btm: **2010.10.18 @ 17:31:14**

**TEST COMMENT:** IF-BOB in 2min  
 ISI-No blow  
 FF-BOB in 2.5min  
 FSI-No blow



## PRESSURE SUMMARY

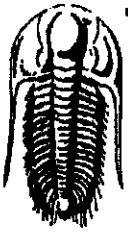
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.65	87.56	Initial Hydro-static
3	115.23	87.67	Open To Flow (1)
32	574.97	94.42	Shut-In(1)
93	1217.25	95.44	End Shut-In(1)
93	561.88	95.29	Open To Flow (2)
152	1034.93	97.59	Shut-In(2)
242	1217.56	97.11	End Shut-In(2)
246	1473.41	96.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbt)
1955.00	Water	26.02
260.00	MCW 75%W 25%M	3.65
45.00	Oilspotted WCM 40%W 60%M	0.63

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co, Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osbone, KS**

Job Ticket: 40977

**DST#: 3**

ATTN: Paul Gunzelman

Test Start: 2010.10.18 @ 11:30:44

### Tool Information

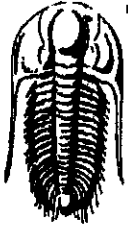
Drill Pipe:	Length: 2976.00 ft	Diameter: 3.80 inches	Volume: 41.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3140.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	75.00 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			3118.00	
Shut In Tool	5.00			3123.00	
Hydraulic tool	5.00			3128.00	
Safety Joint	3.00			3131.00	
Packer	4.00			3135.00	23.00 Bottom Of Top Packer
Packer	5.00			3140.00	
Stubb	1.00			3141.00	
Perforations	5.00			3146.00	
Recorder	0.00	8319	Inside	3146.00	
Recorder	0.00	6719	Outside	3146.00	
Change Over Sub	1.00			3147.00	
Drill Pipe	32.00			3179.00	
Change Over Sub	1.00			3180.00	
Change Over Sub	9.00			3189.00	
Bullnose	3.00			3192.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co, Inc.

Etta 1-36

250 N Water STE 300  
Wichita KS 67202

36-8s-12w Osbone, KS

Job Ticket: 40977

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2010.10.18 @ 11:30:44

**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:

148000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
1955.00	Water	26.021
260.00	MCW 75%W 25%M	3.647
45.00	Oilspotted WCM 40%W 60%M	0.631

Total Length: 2260.00 ft

Total Volume: 30.299 bbl

Num Fluid Samples: 0

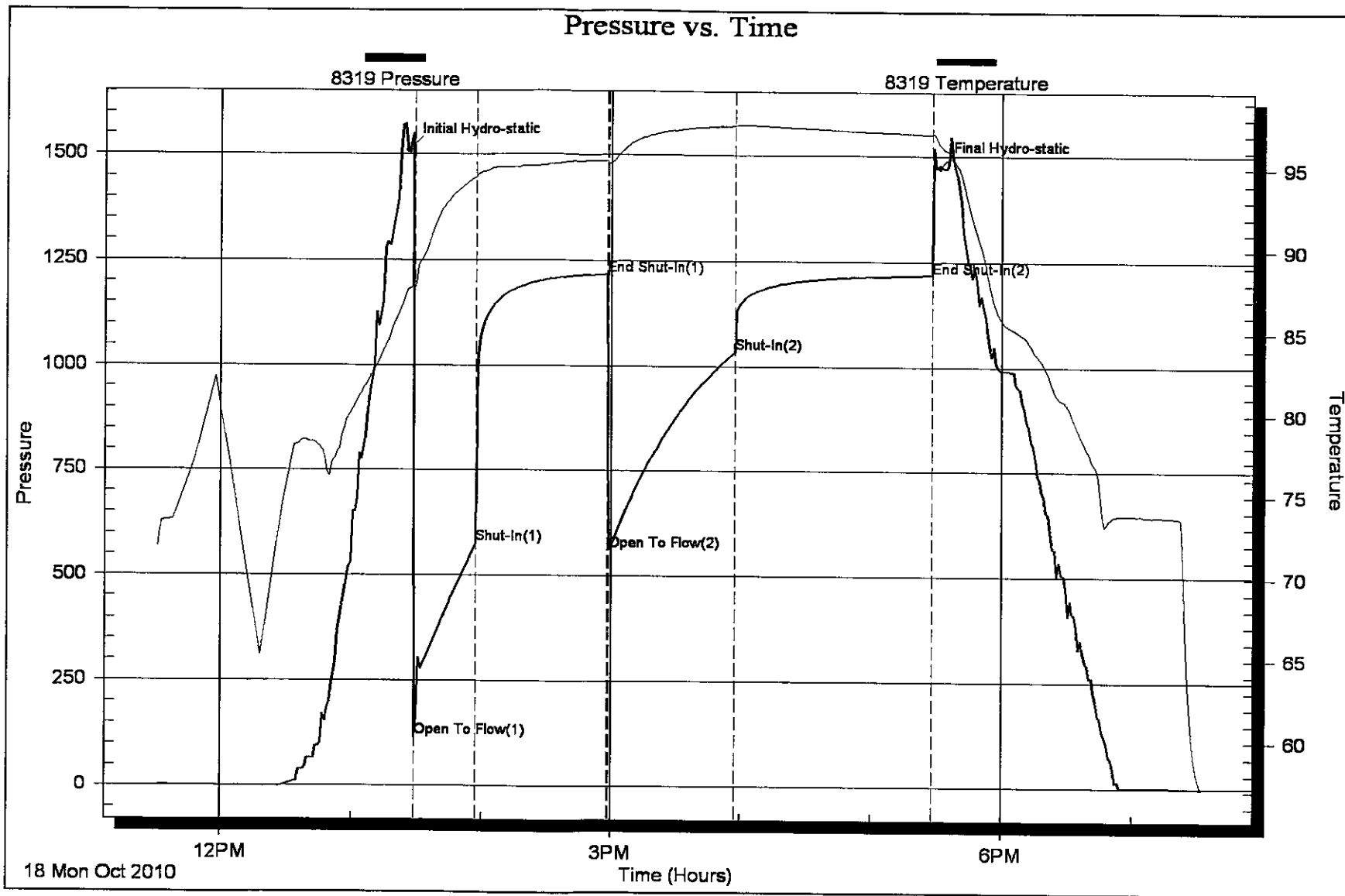
Num Gas Bombs: 0

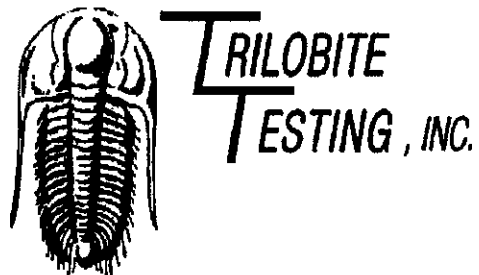
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

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

250 N Water STE 300  
Wichita KS 67202

ATTN: Paul Gunzelman

**36-8s-12w Osbone,KS**

**Etta 1-36**

Start Date: 2010.10.21 @ 01:13:55

End Date: 2010.10.21 @ 09:02:55

Job Ticket #: 040155      DST #: 4

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

Murfin Drilling Co, Inc.

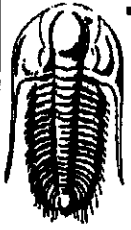
Etta 1-36

36-8s-12w Osbone,KS

DST # 4

Simpson

2010.10.21



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co, Inc.

Etta 1-36

250 N Water STE 300  
Wichita KS 67202

36-8s-12w Osborne, KS

Job Ticket: 040155 DST#: 4

ATTN: Paul Gunzelman

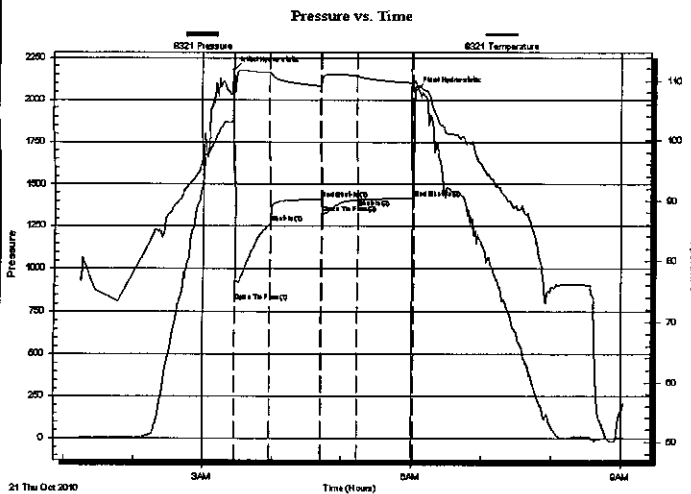
Test Start: 2010.10.21 @ 01:13:55

## GENERAL INFORMATION:

Formation: **Simpson**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 03:26:55  
 Time Test Ended: 09:02:55  
 Interval: **3988.00 ft (KB) To 4055.00 ft (KB) (TVD)**  
 Total Depth: **4055.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1868.00 ft (KB)**  
**1863.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

Serial #: **8321** Inside  
 Press@RunDepth: **1410.11 psig @ 4027.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2010.10.21** End Date: **2010.10.21** Last Calib.: **2010.10.21**  
 Start Time: **01:13:56** End Time: **09:02:55** Time On Btm: **2010.10.21 @ 03:26:25**  
 Time Off Btm: **2010.10.21 @ 06:03:25**

TEST COMMENT: IFF-Strong blow BOB in 30 sec  
 ISI-Dead no blow back  
 FFP-Strong blow BOB in 30 sec  
 FSI-Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.10	103.62	Initial Hydro-static
1	809.86	103.35	Open To Flow (1)
31	1268.76	111.35	Shut-In(1)
76	1413.53	109.13	End Shut-In(1)
76	1326.36	109.13	Open To Flow (2)
107	1410.11	110.79	Shut-In(2)
156	1416.93	109.65	End Shut-In(2)
157	2056.44	110.09	Final Hydro-static

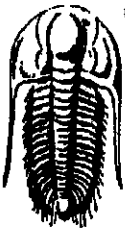
## Recovery

Length (ft)	Description	Volume (bbl)
2640.00	MV5%M95%W	35.63
577.00	VM5%W95%M	8.09

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co, Inc.

**Etta 1-36**

250 N Water STE 300  
Wichita KS 67202

**36-8s-12w Osbone, KS**

Job Ticket: 040155

**DST#: 4**

ATTN: Paul Gunzelman

Test Start: 2010.10.21 @ 01:13:55

### Tool Information

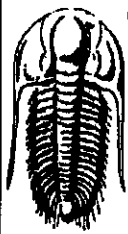
Drill Pipe:	Length: 3831.00 ft	Diameter: 3.80 inches	Volume: 53.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 54.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3988.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	95.00 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			3961.00	
Shut In Tool	5.00			3966.00	
Hydraulic tool	5.00			3971.00	
Jars	5.00			3976.00	
Safety Joint	3.00			3979.00	
Packer	4.00			3983.00	28.00 Bottom Of Top Packer
Packer	5.00			3988.00	
Stubb	1.00			3989.00	
Perforations	4.00			3993.00	
Change Over Sub	1.00			3994.00	
Drill Pipe	32.00			4026.00	
Change Over Sub	1.00			4027.00	
Recorder	0.00	8321	Inside	4027.00	
Recorder	0.00	8679	Outside	4027.00	
Perforations	25.00			4052.00	
Bullnose	3.00			4055.00	67.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>95.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Murfin Drilling Co, Inc.

Etta 1-36

250 N Water STE 300  
Wichita KS 67202

36-8s-12w Osborne, KS

Job Ticket: 040155

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2010.10.21 @ 01:13:55

### 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:	19000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5800.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2640.00	MW5%M95%W	35.629
577.00	WW5%W95%M	8.094

Total Length: 3217.00 ft      Total Volume: 43.723 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

