

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

5/20/12

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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: Tim Priest

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. _____

01/19/10 01/28/10 02/15/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 051-25949-0000
County: Ellis
SW NW NE SW Sec. 04 Twp. 14 S. R. 19 East West
2190 FSL feet from (S) N (circle one) Line of Section
1400 FWL feet from (W) E (circle one) Line of Section

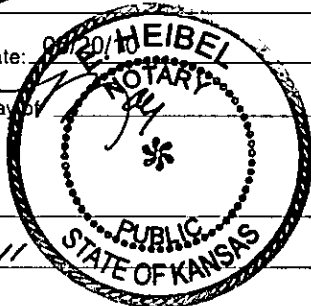
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Orth Unit Well #: 1-4
Field Name: Alwerth
Producing Formation: Arbuckle
Elevation: Ground: 2261 Kelly Bushing: 2266
Total Depth: 4020 Plug Back Total Depth: 3972
Amount of Surface Pipe Set and Cemented at 218 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1609 Feet
If Alternate II completion, cement circulated from 1609
feet depth to surface w/ 195 sx cmt.

Drilling Fluid Management Plan AT ILS 52570
(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: [Signature]
Title: Leon Rodak, VP Production Date: 05/20/10
Subscribed and sworn to before me this 20 day of May, 2010
Notary Public: [Signature]
Date Commission Expires: 4/11/2011



KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
_____ UIC Distribution

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KANSAS CORPORATION COMMISSION
MAY 20 2010

CONSERVATION DIVISION
WICHITA, KS

Operator Name: Murfin Drilling Company, Inc. Lease Name: Orth Unit Well #: 1-4
 Sec. 04 Twp. 14 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 <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 <i>(Submit Copy)</i> List All E. Logs Run: E-mailed Electronically: Dual Induction, Compensated Porosity, Microresistivity	<input checked="" 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;"> KCC MAY 20 2010 CONFIDENTIAL </div>
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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	23#	218	Common	150	3% cc, 2% gel
Production		5 1/2	15.5#	4018	AA2	160	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	Arbuckle 3922 - 3926	250 gal 20% MCA	

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TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8	3938		

Date of First, Resumerd Production, SWD or Enhr. 02/17/10	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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
	36		16		

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	3922 - 3926

MDCI Orth Unit #1-4 2190 FSL 1400 FWL Sec. 4-T14S-R19W 2266' KB				MDCI Haselhorst #1-4 1650 FSL 1080 FEL Sec. 4-T14S-R19W 2234' KB				Tenneco Oil Company Earl L. Orth #1-4 950 FSL 2145 FEL Sec. 4-T14S-R19W 2247' KB		
Formation	Sample top	Datum	Log Top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	1558	+708	1557	+709	+1	1526	+708	-1	1537	+710
B/Anhydrite	1600	+666	1600	+666	+4	1572	+662	-5	1576	+671
Topeka	3287	-1021	3288	-1022	-4	3252	-1018	-1	3268	-1021
Heebner	3526	-1260	3528	-1262	-2	3494	-1260	-1	3508	-1261
Toronto	3548	-1282	3550	-1284	Flat	3518	-1284	-1	3530	-1283
Lansing	3569	-1303	3572	-1306	-2	3538	-1304	-3	3550	-1303
BKC	3816	-1550	3817	-1551	+8	3793	-1559	-3	3795	-1548
Arbuckle	3890	-1624	3888	-1622	+44	3900	-1666	-1	3868	-1621
RTD	4020					3960			3887	
LTD			4021			3962			3883	

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CONSERVATION DIVISION
WICHITA, KS

Quality Oilwell Cementing Inc.

740 W WICHITA
P.O. Box 32
Russell, KS 67665

Invoice

Date	Invoice #
1/20/2010	2238

Bill To
Murfin Drilling Company P.O. Box 288 Russell Ks 67665

PROD COPY
USED FOR New Well Drilling
APPROVED [Signature]

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
150	common	10.00	1,500.00T
3	GEL	17.00	51.00T
5	Calcium	42.00	210.00T
158	handling	2.00	316.00
1	MILEAGE CHARGE	250.00	250.00
1	surface pipes 0-500ft	400.00	400.00
12	pump truck mileage charge	6.00	72.00
352	discount if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-352.00T
208	discount if paid within 30 days DISCOUNT HAS ALREADY BEEN DEDUCTED	-1.00	-208.00
	LEASE: ORTH UNIT WELL #1-4 Ellis county Sales Tax	5.30%	74.68

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MAY 20 2010
CONSERVATION DIVISION
WICHITA, KS

Account	Qty	No.	Description
03600	016	20	3583 2313.68 Cement S. (Sg.)

Thank you for your business. Dave

Total \$2,313.68

QUALITY OILWELL CEMENTING, INC.

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

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

No. 3713

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-19-10	4	14	19	Ellis	Kansas		9:30pm
Lease <i>Orth Unit</i>	Well No. <i>1-4</i>		Location <i>Granite Rd & Golf Course Rd (W) SW</i>				
Contractor <i>Martin Drilling</i>	Rig <i>16</i>		Owner 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.				
Type Job <i>Surface</i>	T.D. <i>219</i>		Charge To <i>Martin Drilling Co.</i>				
Hole Size <i>12 3/4</i>	Depth <i>218</i>		Street				
Csg. <i>8 5/8 2 3/4</i>	Depth		City				
Tbg. Size	Depth		State				
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg. <i>10-15</i>	Shoe Joint		CEMENT				
Meas Line	Displace <i>1.3 Bbl</i>		Amount Ordered <i>150 Com 30cc 2861</i>				
EQUIPMENT			Common <i>150 @ 10.00</i> <i>1500.00</i>				
Pumptrk <i>1</i>	No.	Cement Helper <i>Steve</i>	Poz. Mix				
Bulktrk <i>8</i>	No.	Driver <i>Brandon</i>	Gel. <i>3 @ 17.00</i> <i>51.00</i>				
Bulktrk	No.	Driver <i>Dave</i>	Calcium <i>5 @ 42.00</i> <i>210.00</i>				
JOB SERVICES & REMARKS			Hulls				
Remarks: <i>Cement did Circulate</i>			Salt <i>KCC</i>				
			Flowseal <i>MAY 20 2010</i>				
			CONFIDENTIAL				
			Handling <i>158 @ 2.00</i> <i>316.00</i>				
			Mileage <i>250.00</i>				
			FLOAT EQUIPMENT				
			Guide Shoe				
			Centralizer <i>RECEIVED KANSAS CORPORATION COMMISSION</i>				
			Baskets <i>MAY 20 2010</i>				
			AFU Inserts <i>CONTS</i>				
			Pumptrk Charge <i>400.00</i>				
			Mileage <i>12 @ 6.00</i> <i>72.00</i>				
			Tax <i>74.68</i>				
			Discount <i>(560.00)</i>				
			Total Charge <i>2313.68</i>				
Signature <i>[Signature]</i>							



BASIC
ENERGY SERVICES

PAGE 1 of 2	CUST NO 1002852	INVOICE DATE 02/02/2010
INVOICE NUMBER 1718 - 90236533		

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

J LEASE NAME Orth Unit 1-4
 O LOCATION
 B COUNTY Ellis
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

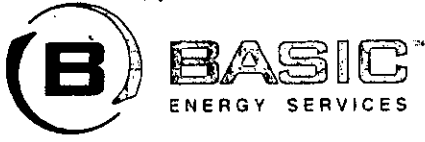
JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40146250	20920		Net - 30 days	03/04/2010
For Service Dates: 01/29/2010 to 01/29/2010				
0040146250				
171801199A Cement-New Well Casing/Pi 01/29/2010 Longstring				
Cement		160.00 EA	8.16	1,305.60 T
AA2 Cement		50.00 EA	5.76	288.00 T
Cement		40.00 EA	1.78	71.04 T
60/40 POZ		31.00 EA	1.92	59.52 T
Additives		953.00 EA	0.24	228.72 T
Cello-flake		76.00 EA	2.88	218.88 T
Additives		800.00 EA	0.32	257.28 T
De-foamer(Powder)		500.00 EA	0.73	367.20 T
Additives		1.00 EA	1,680.00	1,680.00
Gilsonite		1.00 EA	192.00	192.00
Additives		1.00 EA	172.80	172.80
Super Flush II		10.00 EA	52.80	528.00
Cement Float Equipment		1.00 EA	139.20	139.20
5 1/2" Port Collar		9.00 EA	36.00	324.00
Cement Float Equipment		200.00 MI	3.36	672.00
Latch Down Plug & Baffle, 5 1/2"(Blue)				
Cement Float Equipment				
Auto Fill Float Shoe 5 1/2"(Blue)				
Cement Float Equipment				
Turbolizer, 5 1/2"(Blue)				
Cement Float Equipment				
5 1/2" Basket(Blue)				
Cement Float Equipment				
Cement Scratchers Cable Type, 5 1/2"				
Mileage				
Heavy Equipment Mileage				

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USED FOR New Well Casing
 APPROVED KR

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WICHITA, KS



PAGE 2 of 2	CUST NO 1002852	INVOICE DATE 02/02/2010
INVOICE NUMBER 1718 - 90236533		

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

(620) 672-1201

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MAY 20 2010
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J LEASE NAME Orth Unit 1-4
 O LOCATION
 B COUNTY Ellis
 S STATE KS
 E JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE		
40146250	20920			Net - 30 days	03/04/2010		
				QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Mileage				970.00	MI	0.77	744.96
Proppant and Bulk Delivery Charge							
Mileage				210.00	MI	0.67	141.12
Blending & Mixing Service Charge							
Pickup				100.00	HR	2.04	204.00
Unit Mileage Charge-Pickups, Vans & Cars							
Pump Charge-Hourly				1.00	HR	1,036.80	1,036.80
Depth Charge; 3001-4000'							
Cementing Head w/Manifold				1.00	EA	120.00	120.00
Plug Container Utilization Charge							
Supervisor				1.00	HR	84.00	84.00
Service Supervisor							

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 MAY 20 2010

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,835.12
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	148.20
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	8,983.32
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

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MAY 20 2010
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FIELD SERVICE TICKET
1718 1199 A

DATE OF JOB 1-29-10		DISTRICT KANSAS		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 Muehlen Drilling Company				LEASE ORth unit 1-4 WELL NO.					
ADDRESS				COUNTY Ellis 4-14-9		STATE KANS.			
CITY STATE				SERVICE CREW A. Weirh, C. Roush, M. McGraw					
AUTHORIZED BY				JOB TYPE: 5 1/2 L.S. CNU					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED DATE 1-28-10 AM 11:00			
28443 P.U	1 1/2					ARRIVED AT JOB 1-28-10 AM 19:00			
19959-20920	1 1/2					START OPERATION 1-29-10 AM 08:30			
19831-19862	1 1/2					FINISH OPERATION 1-29-10 AM 08:00			
						RELEASED 1-29-10 AM 02:00			
						MILES FROM STATION TO WELL 100 miles			

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
CP105	AA2 Cement		160-SK		\$ 2730.00
CP103	100/40 Poz		50-SK		\$ 600.00
CC102	Cell FLAKE		40-lb		\$ 148.00
CC105	Defoamer		31-lb		\$ 124.00
CC111	SALT (Fine)		953-lb		\$ 476.50
CC112	Cement Friction Reducer		78-lb		\$ 456.00
CC201	Gilsonite		800-lb		\$ 536.00
CC155	Super Flush II		500-gal		\$ 765.00
CF481	5 1/2" P.C.		1-en		\$ 3,500.00
CF607	Latch down Plug & Baffle 5 1/2 Blue		1-en		\$ 400.00
CF1251	Auto Fill Float Shoe 5 1/2" Blue		1-en		\$ 360.00
CF1651	Turbolizer 5 1/2" Blue		10-en		\$ 1100.00
CF2001	Cement Scrubbers cable type 5 1/2		9-en		\$ 675.00
CF1901	5 1/2" Basket Blue				\$ 290.00

RECEIVED KANSAS CORPORATION COMMISSION				SUB TOTAL		DLS
CHEMICAL / ACID DATA:				SERVICE & EQUIPMENT		%TAX ON \$
MAY 20 2010				MATERIALS		%TAX ON \$
CONSERVATION DIVISION WICHITA, KS				TOTAL		

SERVICE REPRESENTATIVE Allen F. Weirh THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Mark Rablon

FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)



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 1199 A

DATE OF JOB 1-29-10 DISTRICT Kansas		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 Muehlen Drilling Company		LEASE Orth unit 1-4 WELL NO.							
ADDRESS		COUNTY Ellis 4-14-9 STATE Kans.							
CITY STATE		SERVICE CREW A. Weith, C. Roush, M. McGraw							
AUTHORIZED BY		JOB TYPE: 5 1/2 L.S. C.N.W.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 1-28-10	AM/PM	TIME 1100
28443	P.U	1 1/2				ARRIVED AT JOB	1-28-10	AM/PM	1900
19959-20920		1 1/2				START OPERATION	1-29-10	AM/PM	0800
19831-49868		1 1/2				FINISH OPERATION	1-29-10	AM/PM	0800
						RELEASED	1-29-10	AM/PM	0200
						MILES FROM STATION TO WELL	100 miles		

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

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SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA2 Cement		160-SK		\$ 2720.00
CP103	60/40 Poz		50-SK		\$ 600.00
CC102	Cell FLAKE		40-lb		\$ 148.00
CC105	Defoamer		31-lb		\$ 124.00
CC111	SALT (Fine)		953-lb		\$ 476.50
CC112	Cement Friction Reducer		78-lb		\$ 456.00
CC201	Gilsonite		800-lb		\$ 536.00
CC155	Superflush II		500-gal		\$ 765.00
CF481	5 1/2" P.C.		1-en		\$ 3500.00
CF607	Latch down Plug & Baffle 5 1/2 Blue		1-en		\$ 400.00
CF1251	Auto Fill Float Shoe 5 1/2" Blue		1-en		\$ 360.00
CF1651	Turbolizer 5 1/2" Blue		10-en		\$ 1100.00
CF2001	Cement Scrunchers cable type 5 1/2		9-en		\$ 675.00
CF1901	5 1/2" Basket Blue				\$ 290.00

RECEIVED KANSAS CORPORATION COMMISSION		SUB TOTAL	
CHEMICAL / ACID DATA:		DLS	
MAY 20 2010		SERVICE & EQUIPMENT %TAX ON \$	
CONSERVATION DIVISION WICHITA, KS		MATERIALS %TAX ON \$	
		TOTAL	

SERVICE REPRESENTATIVE Allen E. Weith THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Mark Rablon

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 1200 A

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MAY 20 2010
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TICKET NO. 17181199A

DATE OF JOB 1-29-10	DISTRICT KANSAS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER Murfin Drilling Co.	LEASE Orth unit	1-4 WELL NO.							
ADDRESS	COUNTY Ellis 4-14-9	STATE Kans.							
CITY	STATE	SERVICE CREW A. Worth, C. Roush, M. McGraw							
AUTHORIZED BY	JOB TYPE: 5 1/2" L.S. CRW								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 1-28-10	AM PM	TIME 1100
28443 P.U.	1 1/2					ARRIVED AT JOB	1-28-10	AM PM	1100
19959-20920	1 1/2					START OPERATION	1-29-10	AM PM	0030
19831-19862	1 1/2					FINISH OPERATION	1-29-10	AM PM	0130
						RELEASED	1-29-10	AM PM	0200
						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
E101	Heavy Equip mileage		200-m		\$ 1400.00
E113	Bulk Delivery Chg.		970-m		\$ 1552.00
E100	unit mileage chg. pickup		100-m		\$ 425.00
CE240	Blending & mixing Service Chg.		210-sk		\$ 294.00
S003	Service Supervisor First 8hrs on loc		1-en		\$ 175.00
CE204	Depth Charge 3001-4000'		1-4hrs		\$ 216.00
CE304	Plug container utilization chg		1-Job		\$ 250.00
RECEIVED KANSAS CORPORATION COMMISSION MAY 20 2010 CONSERVATION COMMISSION WICHITA, KS					

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	% TAX ON \$	
MATERIALS	% TAX ON \$	
TOTAL		\$ 8835.00 DLS

SERVICE REPRESENTATIVE Allen F. Worth THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY Mark Robben

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

KCC
MAY 20 2016

TREATMENT REPORT

Customer <i>Murfin Drilling Co.</i>	Lease No.	CONFIDENTIAL	
Lease <i>Orth Unit</i>	Well # <i>1-4</i>	Date <i>1-29-16</i>	
Field Order # <i>17181199A</i>	Station <i>Pratt KS</i>	Casing " <i>5 1/2</i>	Depth <i>4018</i>
Type Job <i>5 1/2 I.S.</i>	Formation <i>C.M.W.</i>	County <i>Ellis</i>	State <i>Kans.</i>
Legal Description <i>4-14-9</i>			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size " <i>5 1/2</i>	Tubing Size	Shots/Ft	<i>12 BR</i>	Acid <i>Super flush</i>	Rate	PRESS	ISIP	
Depth <i>4018</i>	Depth	From	To <i>160 SKS</i>	Pre Pad <i>KS AA2 @</i>	Max <i>15 #/gal</i>		5 Min.	
Volume <i>94.6 BR</i>	Volume	From	To <i>50 SKS</i>	Pad <i>60/40 Puz</i>	Min <i>R+N & MH.</i>		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>3975'</i>	Packer Depth	From	To	Flush <i>Freshwater</i>	Gas Volume		Total Load	

Customer Representative <i>MARK Robbin</i>	Station Manager <i>Scotty</i>	Treater <i>Allen F. Worth</i>
Service Units <i>28443 19459 20920 19831 19862</i>		
Driver Names <i>H. Worth Chad Roush Mike McGraw</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1900					on Loc. Discuss Safety. Setup Plans. Rig Laying Down Drill Pipe.
2025					out of Hole w/ Pipe Rig up to Run 5 1/2" csg. 15.5 #
2125					Start 5 1/2" csg. Shoe Joint w/ Float Shoe. Auto Fill, L.D. Baffle.
					Cont-1-3-5-7-9-11-13-15-17-56
					Basket-57 Port collar. 57-1608'
					Run 9 scratchers
2330					Tag Bottom @ 4020' (Good CIR) Hookup circ & Recip. Pipe @ 4018'
0035	100 #		5	5	Pump 5 BBL H ₂ O spacer
			12	5	Pump 12 BBL Super Flush h #
			5	5	Pump 5 BBL H ₂ O
	200 #			6	Mit + Pump 160 SKS AA2 @ 15 #
			41		Finish mit - washout Pump Line Drop L.D. Plug.
12054					Start Disp. CAP. 94.6 BBLs
12115	1500 #				Plug down (caught L.F. w/ 64 B.31)
	0 #				Release PSI - Float OK.
0200					Plug R.H. w/ 50 SKS 60/40 Puz washup + Rack up. Job complete.

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 20 2016
CONSERVATION DIVISION
WICHITA KS



PAGE 1 of 1	CUST NO 1002852	INVOICE DATE 02/16/2010
INVOICE NUMBER 1718 - 90246112		

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

J LEASE NAME Orth 1-4
 O LOCATION
 B COUNTY Ellis
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40150760	20920		Net - 30 days	03/18/2010	
<i>For Service Dates: 02/09/2010 to 02/09/2010</i> 0040150760 171801160A Cement-New Well Casing/Pi 02/09/2010		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
				KCC MAY 20 2010 CONFIDENTIAL	
Cement		195.00	EA	8.10	1,579.50 T
A-Con Blend Common		49.00	EA	1.67	81.59 T
Additives					
Cello-flake		552.00	EA	0.47	260.82 T
Calcium Chloride		200.00	MI	3.15	630.00
Mileage					
Heavy Equipment Mileage		920.00	MI	0.72	662.40
Mileage					
Proppant and Bulk Delivery Charge		195.00	MI	0.63	122.85
Mileage					
Blending & Mixing Service Charge		100.00	HR	1.91	191.25
Pickup					
Unit Mileage Charge-Pickups, Vans & Cars		1.00	HR	675.00	675.00
Pump Charge-Hourly					
Depth Charge: 1001-2000'		1.00	HR	78.75	78.75
Supervisor					
Service Supervisor					

USED FOR New Well Camp
 APPROVED _____

RECEIVED
 KANSAS CORPORATION COMMISSION
 MAY 20 2010
 CONSERVATION DIVISION
 WICHITA, KS

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,282.16
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	101.86
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	4,384.02
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 1160 A

DATE _____ TICKET NO. _____

DATE OF JOB 2-9-10 DISTRICT KANSAS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Murfin Drilling Co.		LEASE Orth 1-4 WELL NO.							
ADDRESS		COUNTY Ellis 4-14-19 STATE Kans.							
CITY STATE		SERVICE CREW A. Worth, C. Roush, D. Phye							
AUTHORIZED BY		JOB TYPE open 5 1/2" P.C. cont. cnw							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
28443	P.U.		1 1/2				2-8-10	PM	1700
19959-20920			1 1/2			ARRIVED AT JOB	2-9-10	AM	1030
19831-19862			1 1/2			START OPERATION	2-9-10	AM	1100
						FINISH OPERATION	2-9-10	PM	1230
						RELEASED	2-9-10	AM	1300
						MILES FROM STATION TO WELL	100 miles		

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MAY 20 2010
CONFIDENTIAL

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
CP 101	A-CON BLEND COMMAN		195 SKG		\$ 3510.00
CC 102	CELL FLAKE		49-1b		\$ 181.30
CC 109	CALCIUM CHLORIDE		552-1b		\$ 579.60
F 101	HEAVY EQUIP. MILEAGE		700-mi		\$ 1400.00
E 113	BULK DELIVERY CHARGE		920 FM		\$ 1472.00
F 100	UNIT MILEAGE CHARGE PICKUP		100 mi		\$ 425.00
CE 240	BLENDING + MIXING SERVICE CHG		195 SK		\$ 273.00
S 003	SERVICE SUPERVISOR FIRST 8 HRS		1-CP		\$ 175.00
CF 202	DEPTH CHARGE 1001-2000		1-4 hcs		\$ 1500.00
RECEIVED KANSAS CORPORATION COMMISSION MAY 20 2010					

CHEMICAL / ACID DATA:			

CONSERVATION DIVISION WICHITA, KS		SUB TOTAL	
SERVICE & EQUIPMENT	% TAX ON \$		
MATERIALS	% TAX ON \$		
TOTAL		KG	4282.16

SERVICE REPRESENTATIVE **Allen F. Worth** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **Mark Robinson**
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Murphy Drilling Co.	Lease No.	Date 2-9-10
Lease Orth	Well # 1-4	
Field Order # 1181160A	Station Pratt KS	Casing 5/2
		Depth 1608'
Type Job Open + cement 5 1/2" Port Collar CWD	Formation	County Ellis
		State Kansas
		Legal Description 4-14-19

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 3/2	Tubing Size 2 1/8	Shots/Ft 195 st.	Acid Acid Blend @ 12#/ft	RATE 11	PRESS 11	ISIP	
Depth 1608	Depth 1608'	From	To	Pre Pad	Max	5 Min. ROC	
Volume 2.5	Volume 0.8215	From	To	Pad	Min	15 Min. ROC	
Max Press	Max Press	From	To	Frac	Avg	15 Min. ROC	
Well Connection	Annulus Vol.	From	To	Flush Fresh water	HHP Used	Annulus Pressure	
Plug Depth	Packer Depth	From	To		Gas Volume	Total Load	

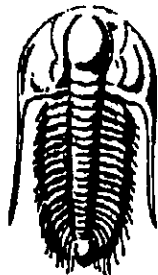
Customer Representative Mark Robbin	Station Manager Scotty	Treater Allen F. Worth
Service Units 28443	19959-20920	19831-19867
Driver Names A. Worth	ROUSH	W. ACE

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1030					on loc discuss safety set in place tub
1115	1000#	1000#	1 1/2		Test casing. ok 1000#
				2	open PC. Take inj. Rate 2 BPM. Bl.
1130		100#		3 1/2	start mix cement Port collar @ 1608
			89		Finish cement
		200#	8		Start D.SP. Pump 8 Bbls
1155	1000#	1000#			+ shut P.C. + Test 1000# OK
					Release PSI Run 4 Jts
	100#	100#	15	3	Reverse out Pump 15 Bbls clean
1300					washup + RACKUP Equip
					Job complete

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MAY 20 2010

Cement CIR To Bit
State Man witness

THANKS Allen
Chad
Date.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.23 @ 02:04:06

End Date: 2010.01.23 @ 09:13:45

Job Ticket #: 36799 DST #: 1

KCC
MAY 20 2010
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KANSAS CORPORATION COMMISSION

MAY 20 2010

CONSERVATION DIVISION
WICHITA, KS

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
250 N Water ste 300
Wichita ,Ks 67202
ATTN: Tim Priest

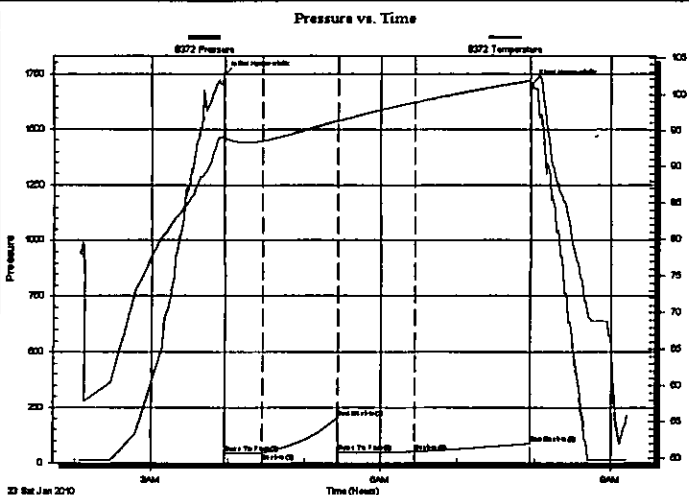
Orth Unit #1-4
4 14S 19W E11Is KS
Job Ticket: 36799 DST#: 1
Test Start: 2010.01.23 @ 02:04:06

GENERAL INFORMATION:

Formation: **Toronto-Lansing "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:56:46
 Time Test Ended: 09:13:45
 Interval: **3522.00 ft (KB) To 3574.00 ft (KB) (TVD)**
 Total Depth: **3574.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: Conventional Bottom Hole
 Tester: Tyson/Jeff
 Unit No: 44
 Reference Elevations: 2266.00 ft (KB)
 2261.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372 Inside
 Press@RunDepth: 48.75 psig @ 3560.00 ft (KB)
 Start Date: 2010.01.23 End Date: 2010.01.23
 Start Time: 02:04:06 End Time: 09:13:45
 Capacity: 8000.00 psig
 Last Calib.: 2010.01.23
 Time On Btm: 2010.01.23 @ 03:56:16
 Time Off Btm: 2010.01.23 @ 07:58:15

TEST COMMENT: IFF-Weak blow built to 1in
 ISL-dead
 FFP-Weak surface blow throughout
 FSI-dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.15	94.37	Initial Hydro-static
1	42.55	93.80	Open To Flow (1)
31	43.05	93.53	Shut-In(1)
90	202.14	96.29	End Shut-In(1)
90	45.75	96.25	Open To Flow (2)
150	48.75	98.87	Shut-In(2)
241	85.14	101.85	End Shut-In(2)
242	1706.46	102.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	H ₂ O,C,M 40%O 60%M	0.02
1.00	CLEAN OIL	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 36799

DST#: 1

ATTN: Tim Priest

Test Start: 2010.01.23 @ 02:04:06

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.82 inches	Volume: 49.43 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3522.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 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
Shut In Tool	5.00			3507.00	
Hydraulic tool	5.00			3512.00	
Packer	5.00			3517.00	20.00 Bottom Of Top Packer
Packer	5.00			3522.00	
Stubb	1.00			3523.00	
Perforations	3.00			3526.00	
Change Over Sub	1.00			3527.00	
Blank Spacing	32.00			3559.00	
Change Over Sub	1.00			3560.00	
Recorder	0.00	8372	Inside	3560.00	
Recorder	0.00	6669	Inside	3560.00	
Perforations	11.00			3571.00	
Bullnose	3.00			3574.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4
4 14S 19W E111s KS
Job Ticket: 36799 DST#: 1
Test Start: 2010.01.23 @ 02:04:06

Mud and Cushion Information

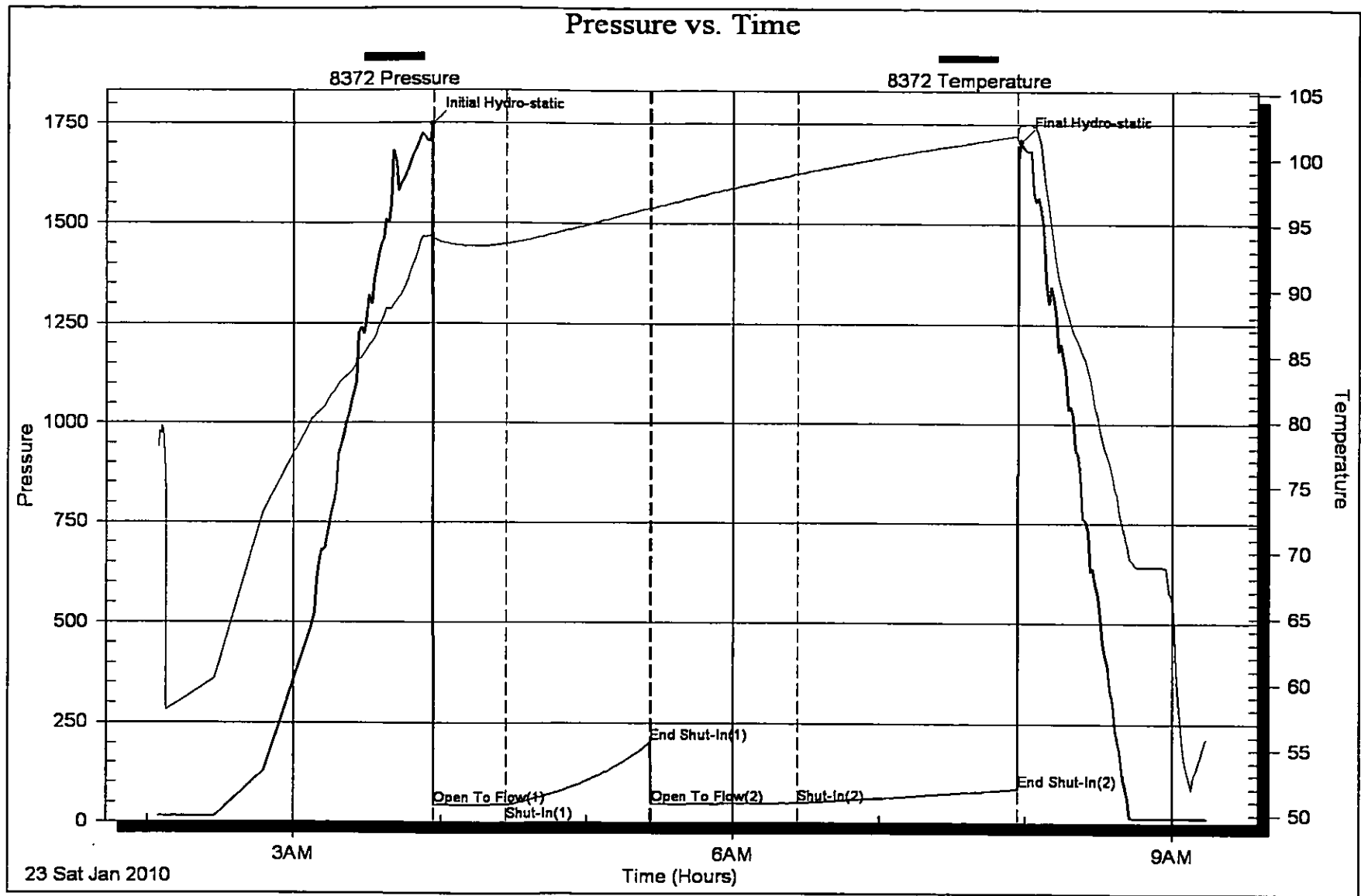
Mud Type: Gel Chem	Cushion Type:	Oil API:	30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: inches			

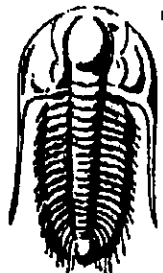
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	H ₂ O,C,M 40%O 60%M	0.020
1.00	CLEAN OIL	0.005

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**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.23 @ 16:53:17

End Date: 2010.01.23 @ 23:18:16

Job Ticket #: 36800 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

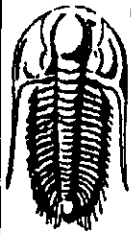
Orth Unit #1-4

4 14S 19W Ellis KS

DST # 2

LKC-"B"-D"

2010.01.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4

4 14S 19W Ellis KS

Job Ticket: 36800

DST#: 2

Test Start: 2010.01.23 @ 16:53:17

GENERAL INFORMATION:

Formation: **LKC-"B'-'D'**

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

Time Tool Opened: **18:38:16**

Time Test Ended: **23:18:16**

Test Type: **Conventional Bottom Hole**

Tester: **jeff/tyson**

Unit No: **44**

Interval: **3584.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Total Depth: **3636.00 ft (KB) (TVD)**

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

Reference Elevations: **2266.00 ft (KB)**

2261.00 ft (CF)

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

Serial #: 8372

Inside

Press@RunDepth: **37.25 psig @ 3622.00 ft (KB)**

Start Date: **2010.01.23**

End Date:

2010.01.23

Start Time: **16:53:17**

End Time:

23:18:16

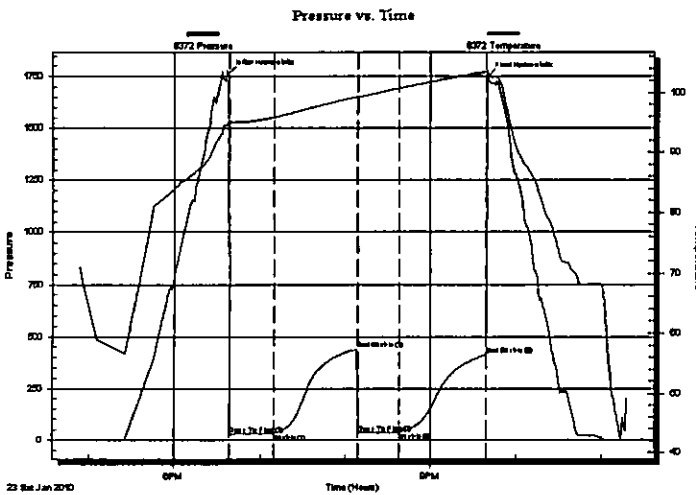
Capacity: **8000.00 psig**

Last Calib.: **2010.01.23**

Time On Btm: **2010.01.23 @ 18:37:46**

Time Off Btm: **2010.01.23 @ 21:40:16**

TEST COMMENT: IPF-Weak blow built built to 1in
 IS-Very weak surface blow died w/in 5 min
 FFP-Dead no blow
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.39	94.99	Initial Hydro-static
1	27.61	94.70	Open To Flow (1)
32	32.68	95.83	Shut-In(1)
90	438.53	99.30	End Shut-In(1)
91	33.64	99.23	Open To Flow (2)
121	37.25	100.75	Shut-In(2)
181	412.73	103.39	End Shut-In(2)
183	1753.34	103.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	MUD W/SCUM OF OIL	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 36800

DST#: 2

ATTN: Tim Priest

Test Start: 2010.01.23 @ 16:53:17

Tool Information

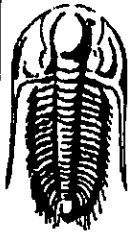
Drill Pipe:	Length: 3549.00 ft	Diameter: 3.82 inches	Volume: 50.31 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 50.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3584.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 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
Shut In Tool	5.00			3569.00	
Hydraulic tool	5.00			3574.00	
Packer	5.00			3579.00	20.00 Bottom Of Top Packer
Packer	5.00			3584.00	
Stubb	1.00			3585.00	
Perforations	3.00			3588.00	
Change Over Sub	1.00			3589.00	
Blank Spacing	32.00			3621.00	
Change Over Sub	1.00			3622.00	
Recorder	0.00	8372	Inside	3622.00	
Recorder	0.00	6669	Inside	3622.00	
Perforations	11.00			3633.00	
Bullnose	3.00			3636.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4
4 14S 19W E111s KS
Job Ticket: 36800 **DST#: 2**
Test Start: 2010.01.23 @ 16:53:17

Mud and Cushion Information

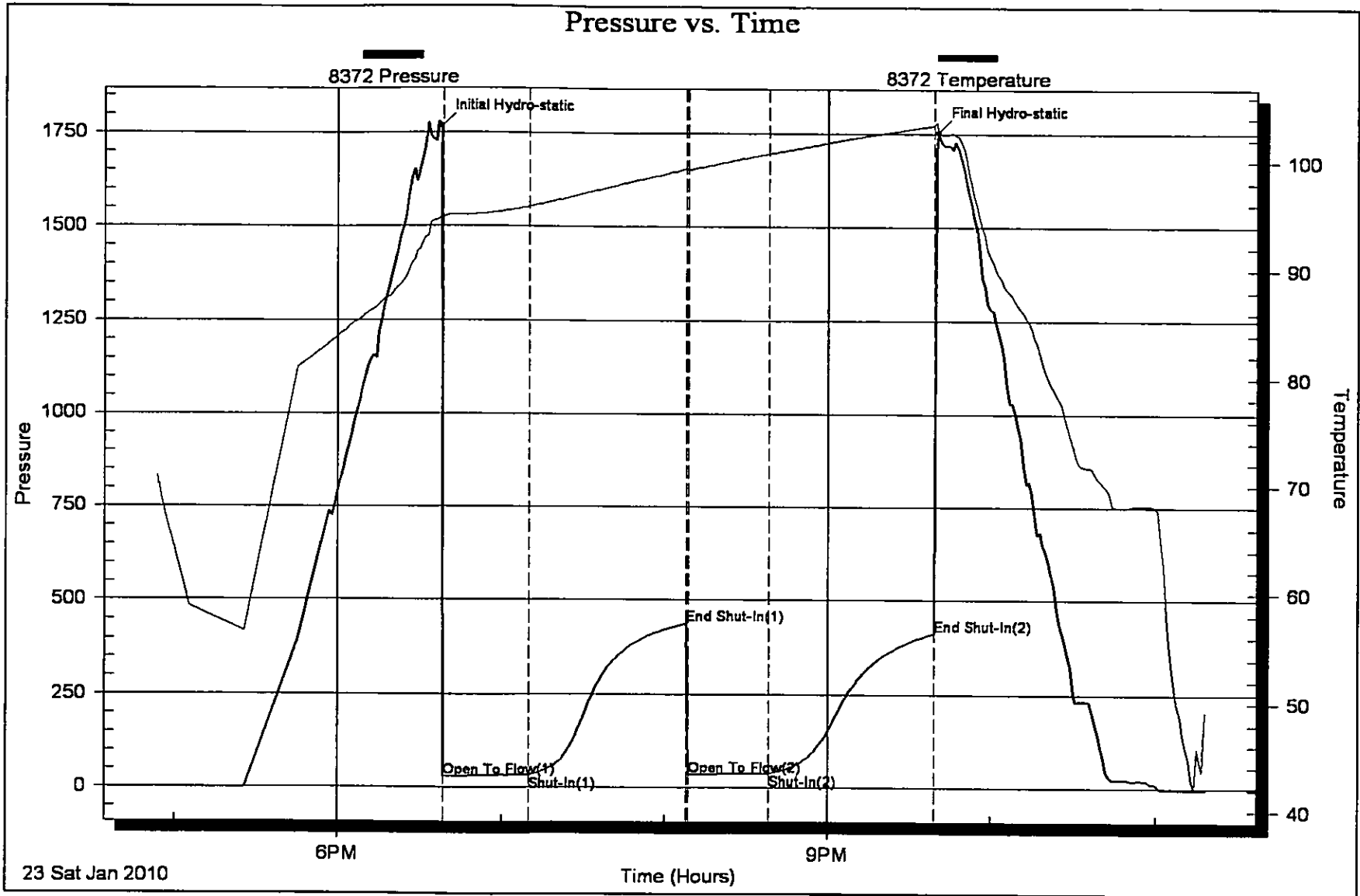
Mud Type: Gel Chem	Cushion Type:	Oil Apt:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.35 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: inches			

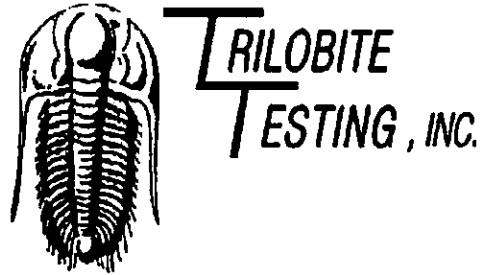
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	MUD W/SCUM OF OIL	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.24 @ 05:48:44

End Date: 2010.01.24 @ 12:10:14

Job Ticket #: 38026 DST #: 3

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

Murfin Drilling Co

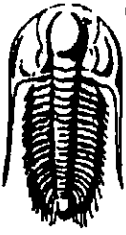
Orth Unit #1-4

4 14S 19W Ellis KS

DST # 3

LCK-"E-F"

2010.01.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202
ATTN: Tim Priest

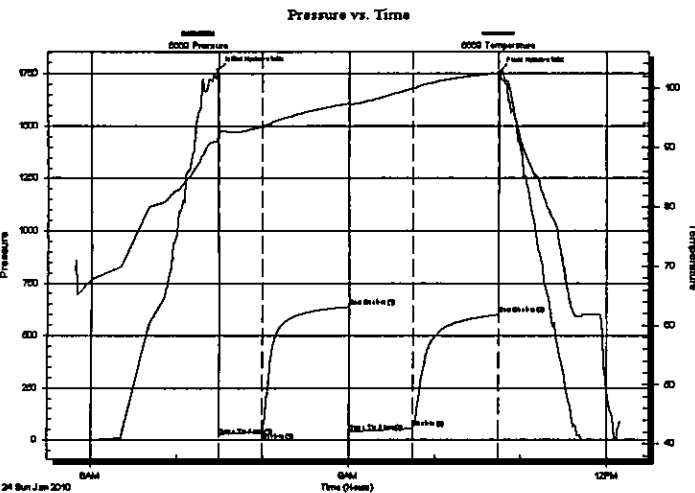
Orth Unit #1-4
4 14S 19W Ellis KS
Job Ticket: 38026 **DST#: 3**
Test Start: 2010.01.24 @ 05:48:44

GENERAL INFORMATION:

Formation: **LCK-"E-F"**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 07:28:44
 Time Test Ended: 12:10:14
 Interval: **3627.00 ft (KB) To 3662.00 ft (KB) (TVD)**
 Total Depth: **3662.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **jeff/tyson**
 Unit No: **44**
 Reference Elevations: **2266.00 ft (KB)**
 2261.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 6669 **Inside**
 Press@RunDepth: **57.19 psig @ 3633.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.01.24** End Date: **2010.01.24** Last Calib.: **2010.01.24**
 Start Time: **05:48:45** End Time: **12:10:14** Time On Btm: **2010.01.24 @ 07:28:14**
 12:10:14 Time Off Btm: **2010.01.24 @ 10:45:14**

TEST COMMENT: FFP-Weak blow built to 3 3/4 in
 IS-Dead
 FFP-Weak blow built to 3 1/2 in
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.14	91.80	Initial Hydro-static
1	20.22	91.70	Open To Flow (1)
31	38.34	93.52	Shut-In(1)
92	636.68	97.42	End Shut-In(1)
92	40.24	97.26	Open To Flow (2)
136	57.19	99.96	Shut-In(2)
197	600.51	102.57	End Shut-In(2)
197	1760.51	102.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	OCWM-5%O15%W80%M	0.16
62.00	WM-20%W80%M	0.88

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38026

DST#: 3

ATTN: Tim Priest

Test Start: 2010.01.24 @ 05:48:44

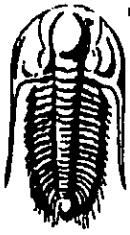
Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.82 inches	Volume: 50.79 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 50.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3627.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3612.00	
Hydraulic tool	5.00			3617.00	
Packer	5.00			3622.00	20.00 Bottom Of Top Packer
Packer	5.00			3627.00	
Stubb	1.00			3628.00	
Perforations	5.00			3633.00	
Recorder	0.00	8372	Inside	3633.00	
Recorder	0.00	6669	Inside	3633.00	
Perforations	26.00			3659.00	
Bullnose	3.00			3662.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38026

DST#: 3

ATTN: Tim Priest

Test Start: 2010.01.24 @ 05:48:44

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:	20000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

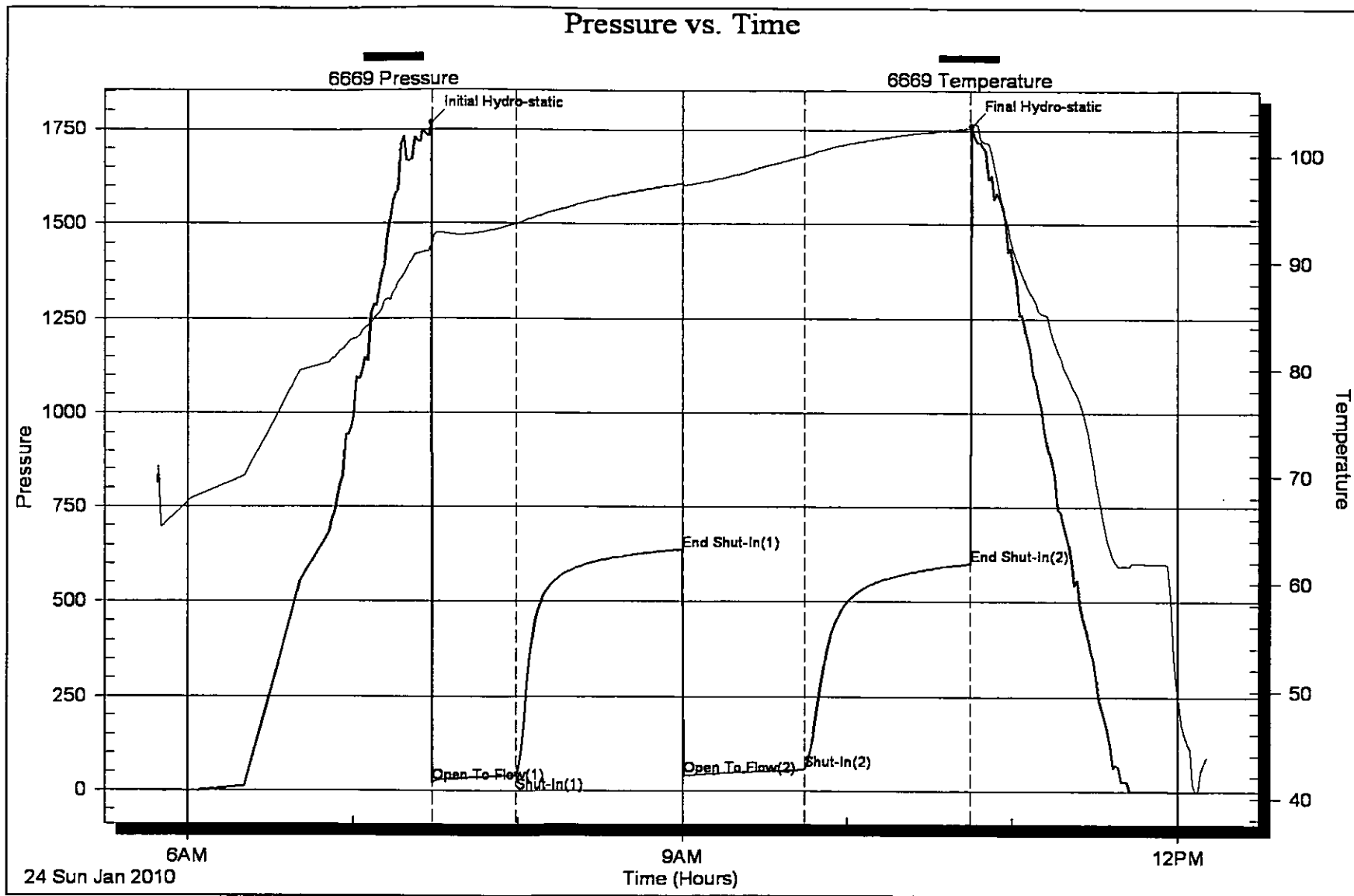
Length ft	Description	Volume bbl
31.00	OCWM-5%O15%W80%M	0.162
62.00	WM-20%W80%M	0.879

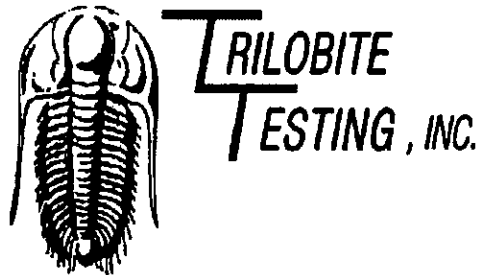
Total Length: 93.00 ft Total Volume: 1.041 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.24 @ 23:02:37

End Date: 2010.01.25 @ 06:37:07

Job Ticket #: 38027 DST #: 4

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

Murfin Drilling Co

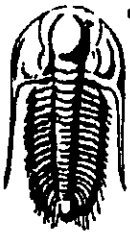
Orth Unit #1-4

4 14S 19W Ellis KS

DST # 4

LKC:"H":J"

2010.01.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202
ATTN: Tim Priest

Orth Unit #1-4
4 14S 19W Ellis KS
Job Ticket: 38027 DST#: 4
Test Start: 2010.01.24 @ 23:02:37

GENERAL INFORMATION:

Formation: **LKC-"H"-J"**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 00:48:07
Time Test Ended: 06:37:07
Interval: **3707.00 ft (KB) To 3762.00 ft (KB) (TVD)**
Total Depth: **3762.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Jeff Brown/Tyson Fla**
Unit No: **44**
Reference Elevations: **2266.00 ft (KB)**
2261.00 ft (CF)
KB to GR/CF: **5.00 ft**

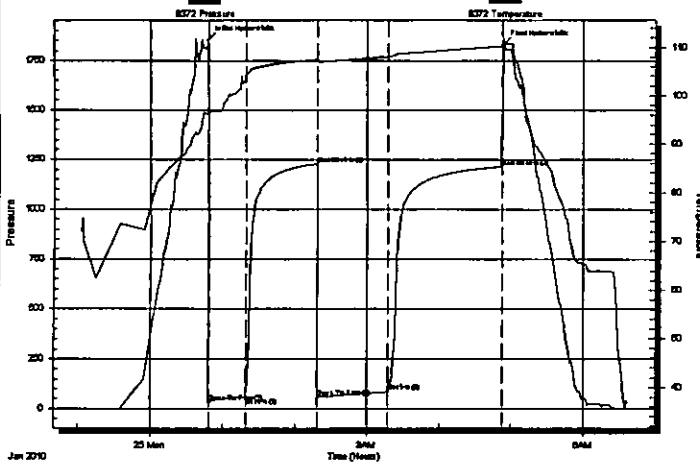
Serial #: 8372

Inside

Press@RunDepth: **84.15 psig @ 3747.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.01.24** End Date: **2010.01.25** Last Calib.: **2010.01.25**
Start Time: **23:02:38** End Time: **06:37:07** Time On Btm: **2010.01.25 @ 00:47:37**
Time Off Btm: **2010.01.25 @ 04:53:07**

TEST COMMENT: IFF- Fair blow built to 5 1/2 in
IS- Slight blow back died in 5 min
FFP-Fair blow built to 5 3/4 in
FSI- Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

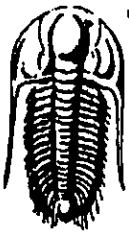
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1855.06	96.59	Initial Hydro-static
1	31.06	96.23	Open To Flow (1)
31	58.30	104.04	Shut-In(1)
91	1227.87	107.57	End Shut-In(1)
91	59.33	107.06	Open To Flow (2)
151	84.15	108.13	Shut-In(2)
245	1214.33	110.33	End Shut-In(2)
246	1832.10	111.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	MW80%M40%W	1.45

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38027

DST#: 4

ATTN: Tim Priest

Test Start: 2010.01.24 @ 23:02:37

Tool Information

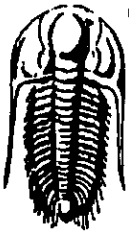
Drill Pipe:	Length: 3674.00 ft	Diameter: 3.82 inches	Volume: 52.08 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 52.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3707.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 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
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3692.00	
Hydraulic tool	5.00			3697.00	
Packer	5.00			3702.00	20.00 Bottom Of Top Packer
Packer	5.00			3707.00	
Stubb	1.00			3708.00	
Perforations	5.00			3713.00	
Change Over Sub	1.00			3714.00	
Blank Spacing	32.00			3746.00	
Change Over Sub	1.00			3747.00	
Recorder	0.00	8372	Inside	3747.00	
Recorder	0.00	6669	Inside	3747.00	
Perforations	12.00			3759.00	
Bullnose	3.00			3762.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38027

DST#: 4

ATTN: Tim Priest

Test Start: 2010.01.24 @ 23:02:37

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

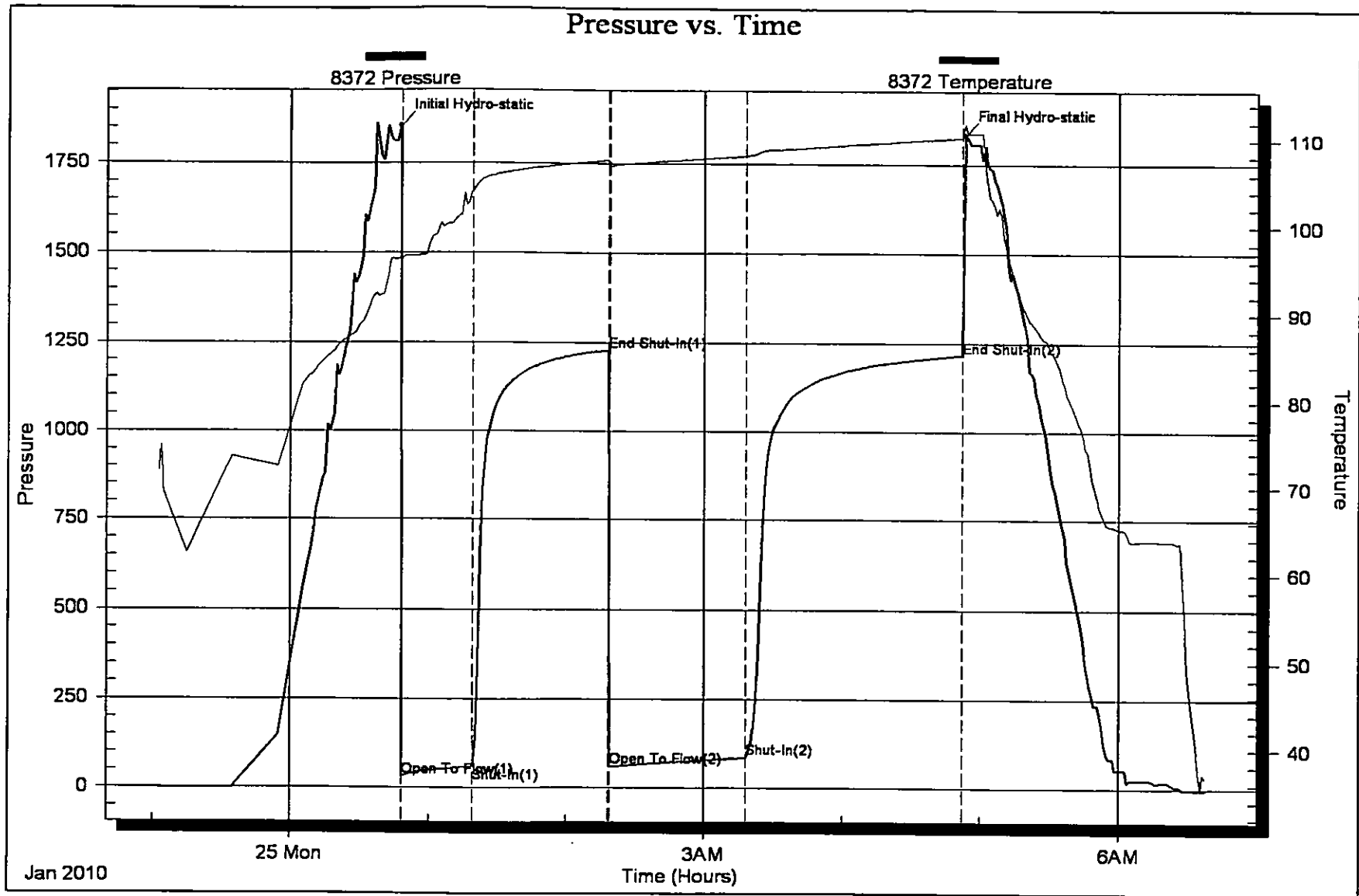
Length ft	Description	Volume bbl
122.00	MM80%M40%W	1.452

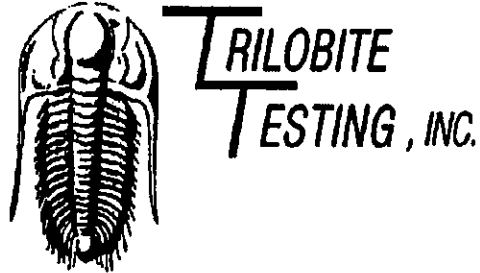
Total Length: 122.00 ft Total Volume: 1.452 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .42 @ 72F = 16000 chlorides





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.25 @ 12:10:10

End Date: 2010.01.25 @ 18:06:40

Job Ticket #: 38028 DST #: 5

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

Murfin Drilling Co

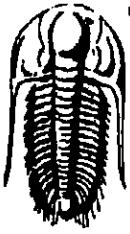
Orth Unit #1-4

4 14S 19W Ellis KS

DST # 5

LKC-"K"

2010.01.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4

4 14S 19W Ellis KS

Job Ticket: 38028

DST#: 5

Test Start: 2010.01.25 @ 12:10:10

GENERAL INFORMATION:

Formation: LKC-"K"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:40

Time Test Ended: 18:06:40

Test Type: Conventional Bottom Hole

Tester: Jeff Brown

Unit No: 44

Interval: 3758.00 ft (KB) To 3790.00 ft (KB) (TVD)

Total Depth: 3790.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2266.00 ft (KB)

2261.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372

Inside

Press@RunDepth: 13.17 psig @ 3763.00 ft (KB)

Start Date: 2010.01.25

End Date:

2010.01.25

Capacity: 8000.00 psig

Last Calib.: 2010.01.25

Start Time: 12:10:11

End Time:

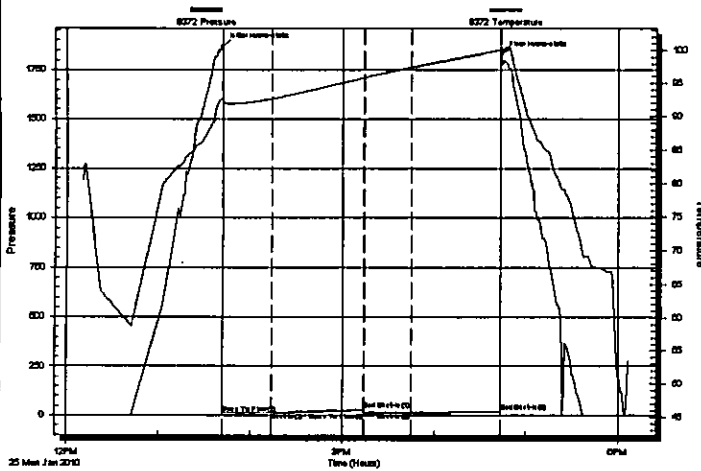
18:06:40

Time On Btm: 2010.01.25 @ 13:41:10

Time Off Btm: 2010.01.25 @ 16:43:40

TEST COMMENT: FIP-Weak blow built to 1 in
ISI-Dead
FFP-Weak surface blow
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.78	92.56	Initial Hydro-static
1	11.59	91.96	Open To Flow (1)
32	13.25	92.67	Shut-In(1)
93	28.01	95.85	End Shut-In(1)
94	13.12	95.87	Open To Flow (2)
124	13.17	97.39	Shut-In(2)
182	20.47	99.99	End Shut-In(2)
183	1824.11	100.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4
4 14S 19W Ellis KS
Job Ticket: 38028 DST#: 5
Test Start: 2010.01.25 @ 12:10:10

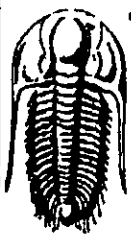
Tool Information

Drill Pipe:	Length: 3739.00 ft	Diameter: 3.82 inches	Volume: 53.00 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
		Total Volume: 53.15 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3758.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3743.00	
Hydraulic tool	5.00			3748.00	
Packer	5.00			3753.00	20.00 Bottom Of Top Packer
Packer	5.00			3758.00	
Stubb	1.00			3759.00	
Perforations	4.00			3763.00	
Recorder	0.00	6669	Inside	3763.00	
Recorder	0.00	8372	Inside	3763.00	
Perforations	24.00			3787.00	
Bullnose	3.00			3790.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38028

DST#: 5

ATTN: Tim Priest

Test Start: 2010.01.25 @ 12:10:10

Mud and Cushlon Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.35 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2700.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

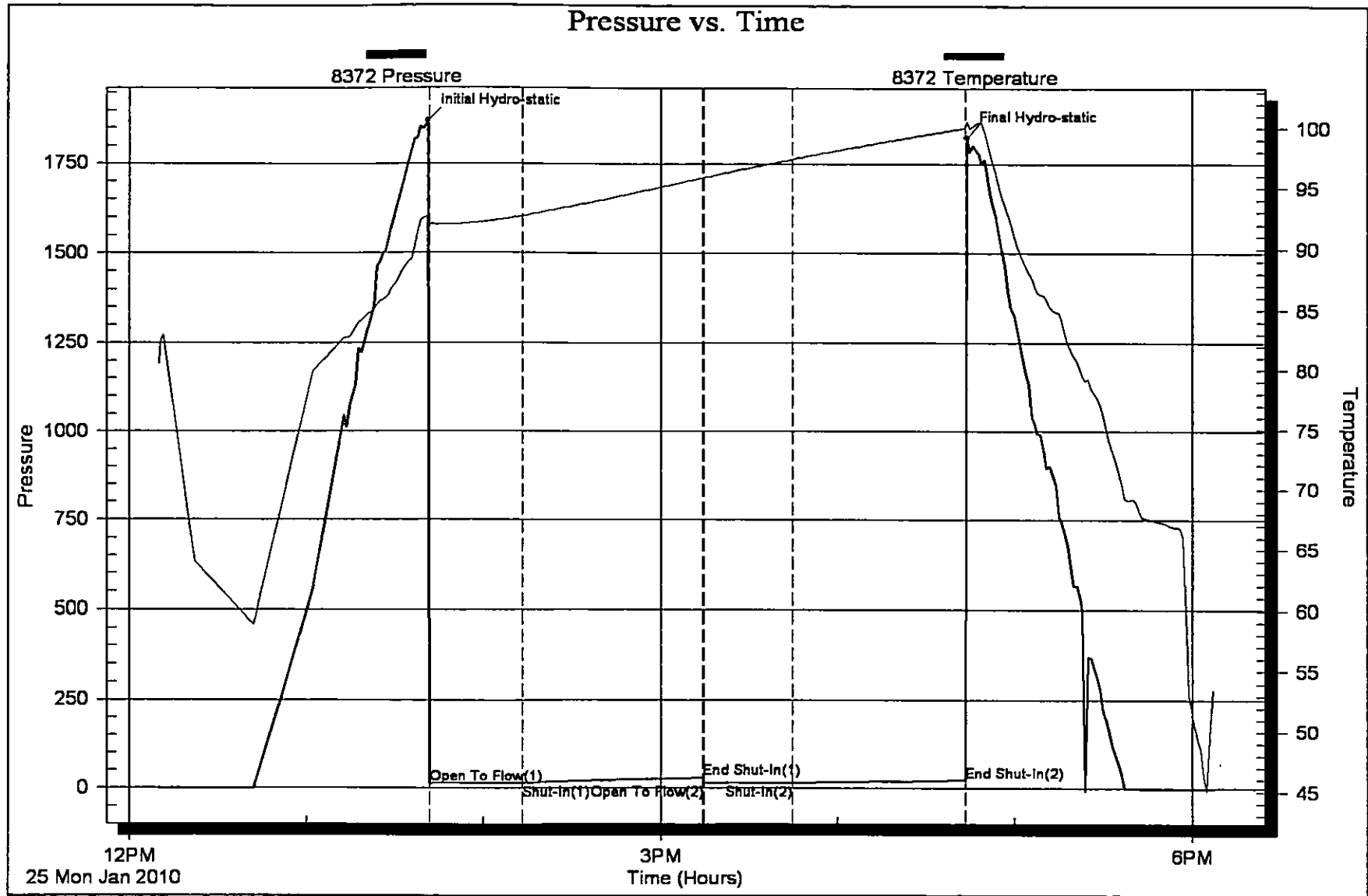
Length ft	Description	Volume bbl
1.00	mud	0.005

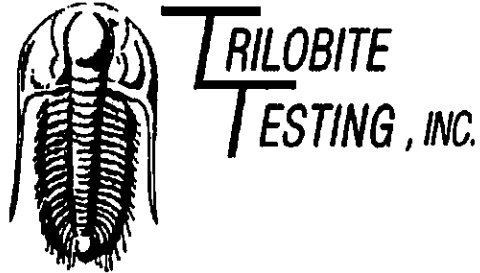
Total Length: 1.00 ft Total Volume: 0.005 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.26 @ 05:08:08

End Date: 2010.01.26 @ 09:38:37

Job Ticket #: 38029 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

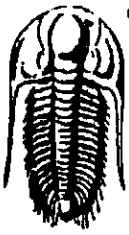
Orth Unit #1-4

4 14S 19W Ellis KS

DST # 6

Arbuckle

2010.01.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4

4 14S 19W Ellis KS

Job Ticket: 38029

DST#: 6

Test Start: 2010.01.26 @ 05:08:08

GENERAL INFORMATION:

Formation: **Arbuckle**

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

Time Tool Opened: 07:10:00

Time Test Ended: 09:38:37

Test Type: **Conventional Bottom Hole**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **3839.00 ft (KB) To 3910.00 ft (KB) (TVD)**

Total Depth: **3574.00 ft (KB) (TVD)**

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

Reference Elevations: **2266.00 ft (KB)**

2261.00 ft (CF)

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

Serial #: **8372**

Inside

Press@RunDepth: **psig @ 3878.00 ft (KB)**

Start Date: **2010.01.26**

End Date: **2010.01.26**

Capacity: **8000.00 psig**

Last Calib.: **2010.01.26**

Start Time: **05:08:08**

End Time: **09:38:37**

Time On Btm: **2010.01.26 @ 07:08:37**

Time Off Btm: **2010.01.26 @ 07:12:07**

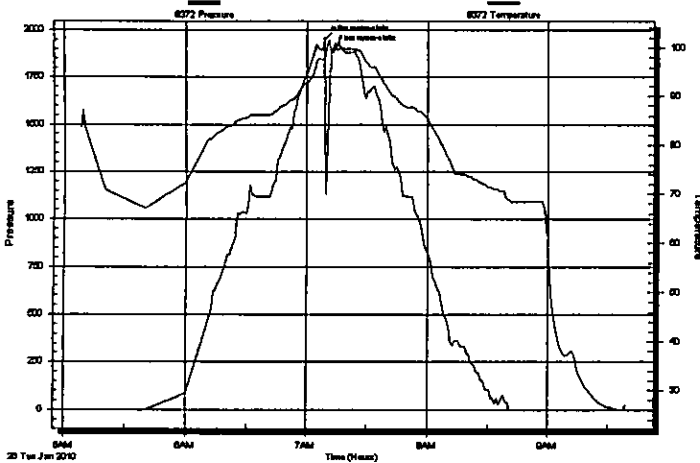
TEST COMMENT: **IFF- MIS-RUN**

IS-

FFP-

FSI-

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.03	97.74	Initial Hydro-static
4	1895.16	99.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
665.00	MUD	9.15

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4
4 14S 19W E111s KS
Job Ticket: 38029 DST#: 6
Test Start: 2010.01.26 @ 05:08:08

Tool Information

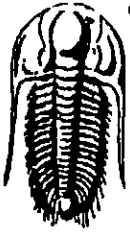
Drill Pipe:	Length: 3804.00 ft	Diameter: 3.82 inches	Volume: 53.92 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 54.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3839.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			3824.00	
Hydraulic tool	5.00			3829.00	
Packer	5.00			3834.00	20.00 Bottom Of Top Packer
Packer	5.00			3839.00	
Stubb	1.00			3840.00	
Perforations	4.00			3844.00	
Change Over Sub	1.00			3845.00	
Blank Spacing	32.00			3877.00	
Change Over Sub	1.00			3878.00	
Recorder	0.00	8372	Inside	3878.00	
Recorder	0.00	6669	Inside	3878.00	
Perforations	29.00			3907.00	
Bullnose	3.00			3910.00	71.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38029

DST#: 6

ATTN: Tim Priest

Test Start: 2010.01.26 @ 05:08:08

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

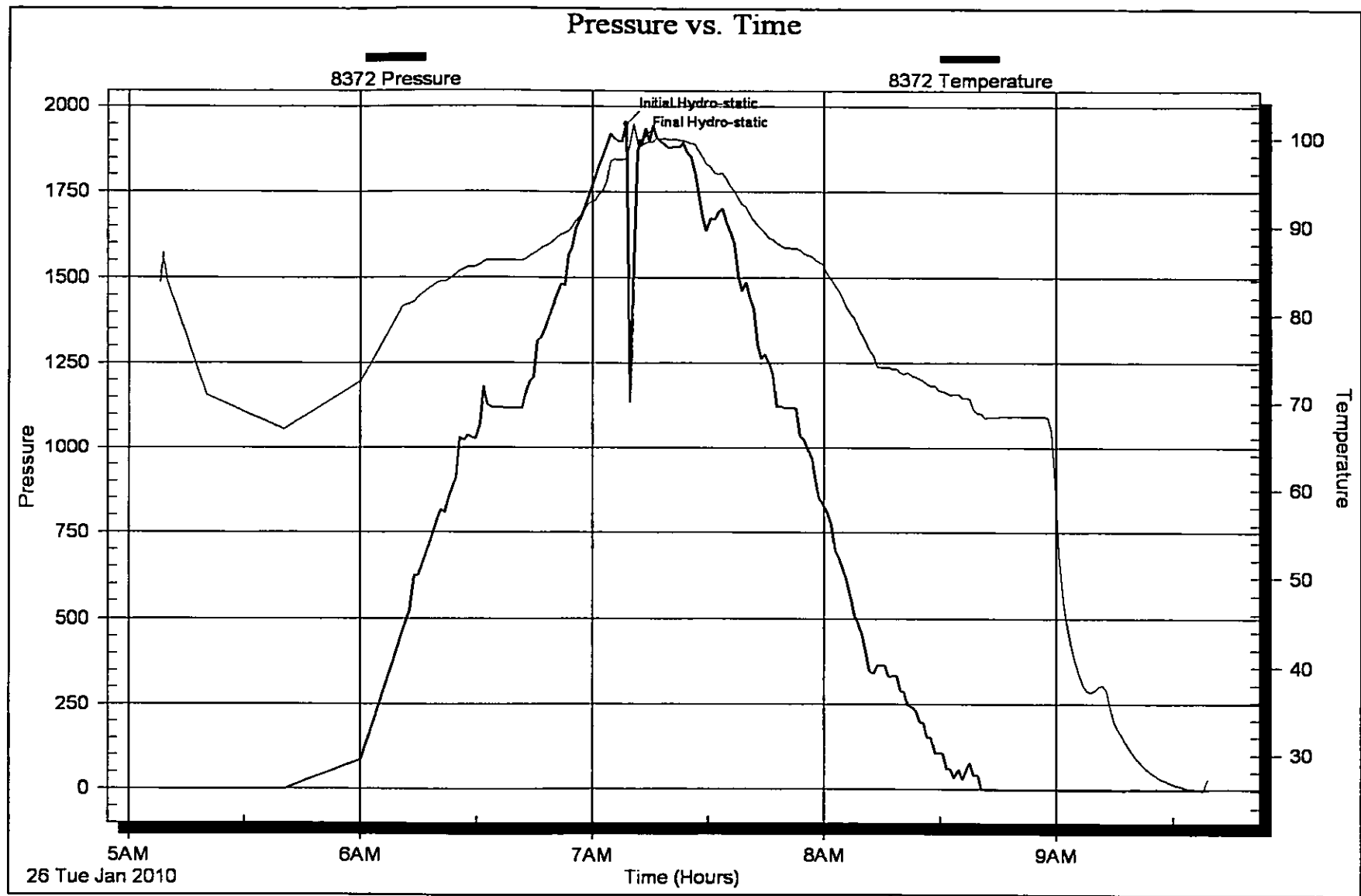
Length ft	Description	Volume bbl
665.00	MUD	9.149

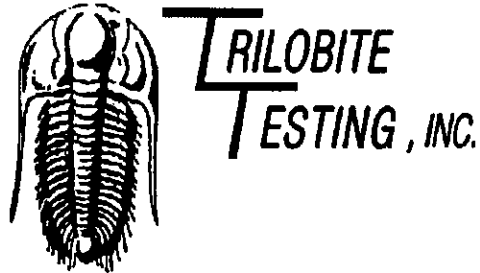
Total Length: 665.00 ft Total Volume: 9.149 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.26 @ 09:53:15

End Date: 2010.01.26 @ 19:47:45

Job Ticket #: 38030 DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

Orth Unit #1-4

4 14S 19W Ellis KS

DST # 7

Arbuckle

2010.01.26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co
 250 N Water ste 300
 Wichita ,Ks 67202
 ATTN: Tim Priest

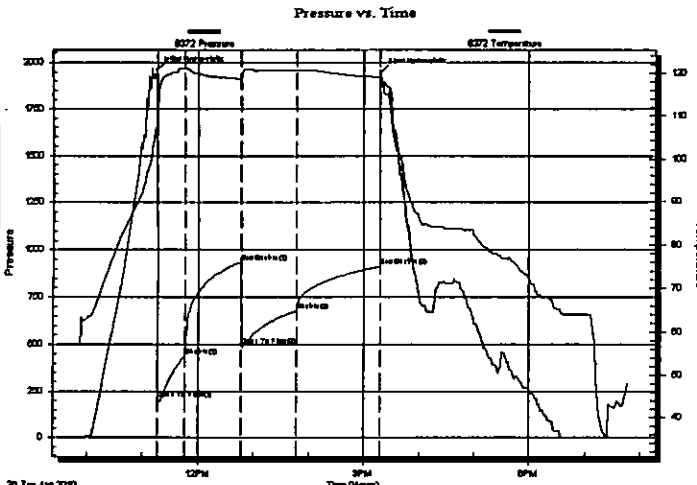
Orth Unit #1-4
 4 14S 19W Ellis KS
 Job Ticket: 38030 DST#: 7
 Test Start: 2010.01.26 @ 09:53:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 11:17:15
 Time Test Ended: 19:47:45
 Interval: **3858.00 ft (KB) To 3910.00 ft (KB) (TVD)**
 Total Depth: **3910.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Jeff Brown**
 Unit No: **44**
 Reference Elevations: **2266.00 ft (KB)**
2261.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8372 Inside
 Press@RunDepth: **681.40 psig @ 3897.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.01.26** End Date: **2010.01.26** Last Calib.: **2010.01.26**
 Start Time: **09:53:16** End Time: **19:47:45** Time On Btm: **2010.01.26 @ 11:16:15**
 Time Off Btm: **2010.01.26 @ 15:18:45**

TEST COMMENT: IFF-BOB in 1 min
 IS- Fair blow back built to 5 1/2 in 25 min. slowly died down to 3 1/4 in
 FFP- BOB in 1 min
 FSI- Weak surface blow built to 1 in



PRESSURE SUMMARY

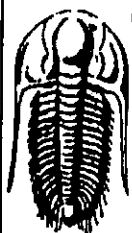
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.37	106.93	Initial Hydro-static
1	206.44	110.50	Open To Flow (1)
31	440.52	121.04	Shut-In(1)
90	936.54	118.59	End Shut-In(1)
91	497.25	118.33	Open To Flow (2)
151	681.40	120.55	Shut-In(2)
242	912.48	119.02	End Shut-In(2)
243	1949.36	119.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	HGOCM-45%O30%G25%M	1.48
1550.00	FREE OIL	21.97
	294 GIP	4.17

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

ATTN: Tim Priest

Job Ticket: 38030

DST#: 7

Test Start: 2010.01.26 @ 09:53:15

Tool Information

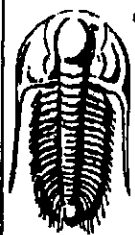
Drill Pipe:	Length: 3836.00 ft	Diameter: 3.82 inches	Volume: 54.38 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 54.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3858.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 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
Shut In Tool	5.00			3843.00	
Hydraulic tool	5.00			3848.00	
Packer	5.00			3853.00	20.00 Bottom Of Top Packer
Packer	5.00			3858.00	
Stubb	1.00			3859.00	
Perforations	4.00			3863.00	
Change Over Sub	1.00			3864.00	
Blank Spacing	32.00			3896.00	
Change Over Sub	1.00			3897.00	
Recorder	0.00	8372	Inside	3897.00	
Recorder	0.00	6669	Inside	3897.00	
Perforations	10.00			3907.00	
Bullnose	3.00			3910.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

Orth Unit #1-4
4 14S 19W Ellis KS
Job Ticket: 38030 **DST#: 7**
Test Start: 2010.01.26 @ 09:53:15

Mud and Cushion Information

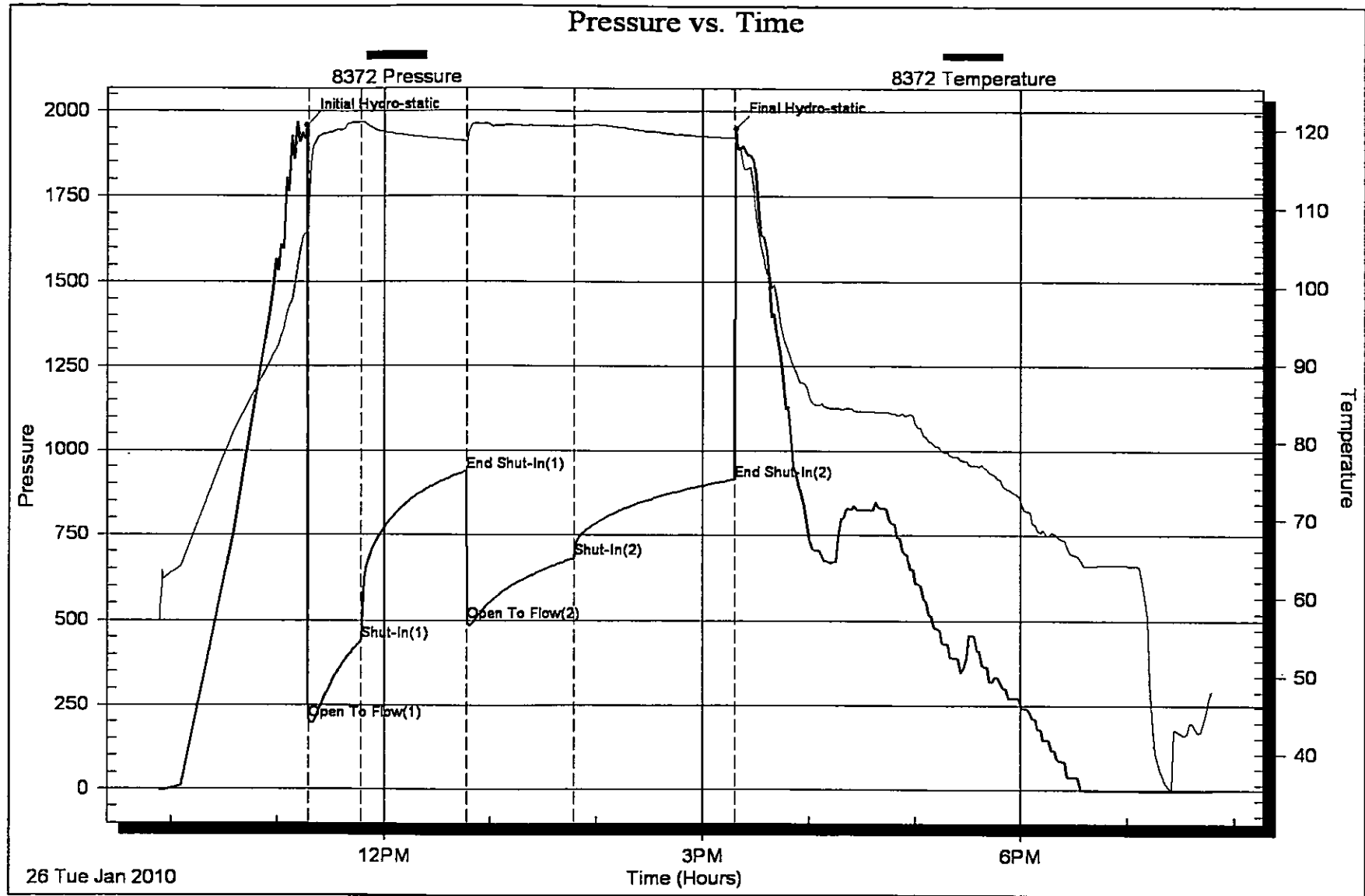
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6900.00 ppm			
Filter Cake: inches			

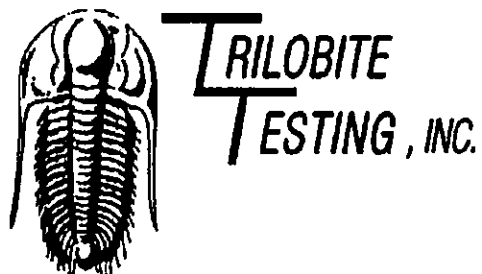
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	HGOCM-45%O30%G25%M	1.480
1550.00	FREE OIL	21.972
	294 GIP	4.168

Total Length: 1674.00 ft Total Volume: 27.620 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**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.27 @ 01:13:27

End Date: 2010.01.27 @ 10:50:27

Job Ticket #: 38031 DST #: 8

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

Orth Unit #1-4

4 14S 19W Ellis KS

DST # 8

Arbuckle

2010.01.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202
ATTN: Tim Priest

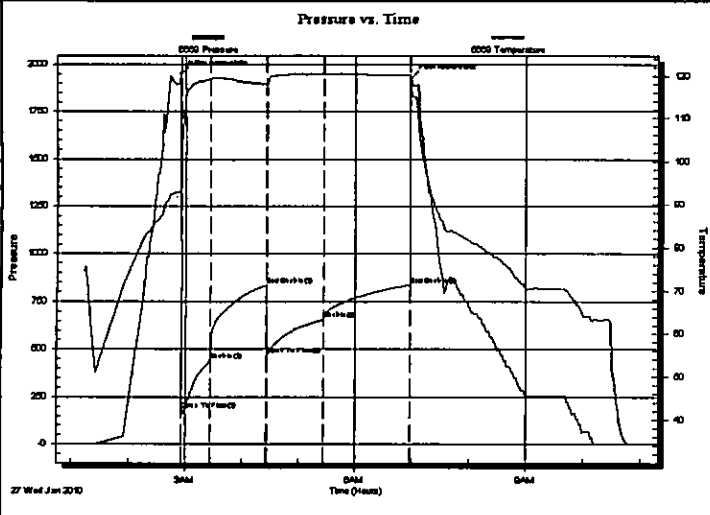
Orth Unit #1-4
4 14S 19W Ellis KS
Job Ticket: 38031 **DST#: 8**
Test Start: 2010.01.27 @ 01:13:27

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 02:55:57
Time Test Ended: 10:50:27
Interval: **3910.00 ft (KB) To 3925.00 ft (KB) (TVD)**
Total Depth: **3925.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Jeff Brown**
Unit No: **44**
Reference Elevations: **2266.00 ft (KB)**
2261.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6669 **Inside**
Press@RunDepth: **656.54 psig @ 3914.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.01.27** End Date: **2010.01.27** Last Calib.: **2010.01.27**
Start Time: **01:13:28** End Time: **10:50:27** Time On Btm: **2010.01.27 @ 02:55:27**
Time Off Btm: **2010.01.27 @ 06:58:27**

TEST COMMENT: IFP-Strong blow bob in 1 min
ISF-Strong blow back built to 9 1/2 in
FFP-Strong blow bob in 30 sec
FSI-Slow blow back built to 2 in



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.84	94.14	Initial Hydro-static
1	184.35	97.05	Open To Flow (1)
30	442.10	119.13	Shut-in(1)
90	834.46	118.08	End Shut-in(1)
91	470.19	117.73	Open To Flow (2)
151	656.54	120.31	Shut-in(2)
242	836.89	120.06	End Shut-in(2)
243	1925.17	117.06	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1644.00	CLEAN OIL	23.03
124.00	HGOCM35%G40%O25%M	1.76
0.00	1705' 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

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38031

DST#: 8

ATTN: Tim Priest

Test Start: 2010.01.27 @ 01:13:27

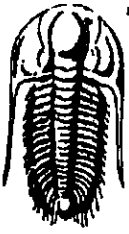
Tool Information

Drill Pipe:	Length: 3866.00 ft	Diameter: 3.82 inches	Volume: 54.80 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 54.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3910.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3895.00	
Hydraulic tool	5.00			3900.00	
Packer	5.00			3905.00	20.00 Bottom Of Top Packer
Packer	5.00			3910.00	
Stubb	1.00			3911.00	
Perforations	3.00			3914.00	
Recorder	0.00	8372	Inside	3914.00	
Recorder	0.00	6669	Inside	3914.00	
Perforations	8.00			3922.00	
Bullnose	3.00			3925.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38031

DST#: 8

ATTN: Tim Priest

Test Start: 2010.01.27 @ 01:13:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1644.00	CLEAN OIL	23.027
124.00	HGOOM35%G40%O25%M	1.758
0.00	1705' GP	0.000

Total Length: 1768.00 ft

Total Volume: 24.785 bbl

Num Fluid Samples: 0

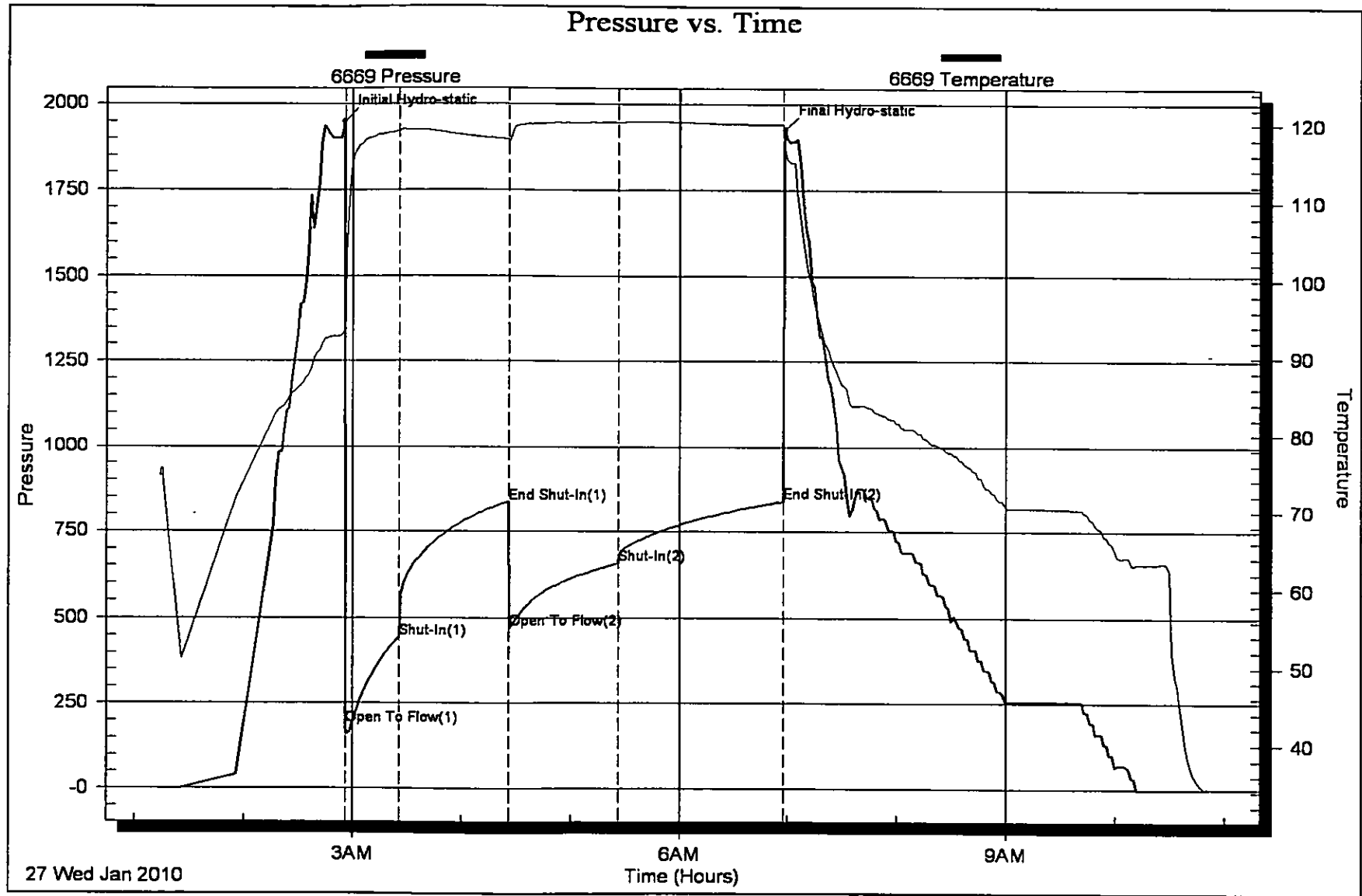
Num Gas Bombs: 0

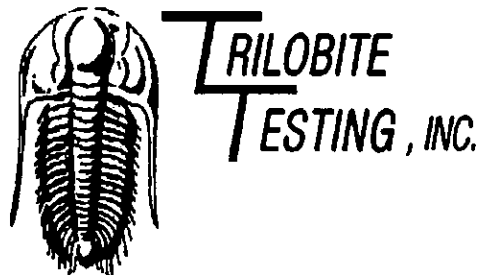
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co**

250 N Water ste 300
Wichita ,Ks 67202

ATTN: Tim Priest

4 14S 19W Ellis KS

Orth Unit #1-4

Start Date: 2010.01.27 @ 16:59:32

End Date: 2010.01.28 @ 03:14:02

Job Ticket #: 38032 DST #: 9

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co

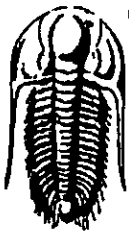
Orth Unit #1-4

4 14S 19W Ellis KS

DST # 9

Arbuckle

2010.01.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co
250 N Water ste 300
Wichita ,Ks 67202
ATTN: Tim Priest

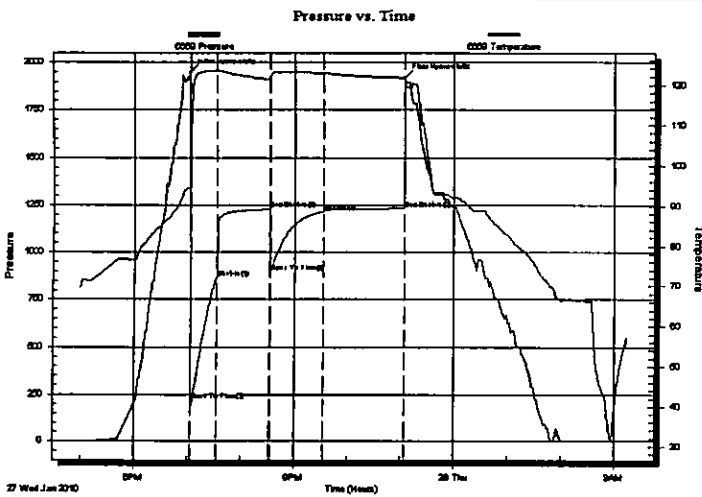
Orth Unit #1-4
4 14S 19W Ellis KS
Job Ticket: 38032 **DST#: 9**
Test Start: 2010.01.27 @ 16:59:32

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 19:03:02
Time Test Ended: 03:14:02
Interval: **3925.00 ft (KB) To 3940.00 ft (KB) (TVD)**
Total Depth: **3940.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Jeff Brown**
Unit No: **44**
Reference Elevations: **2266.00 ft (KB)**
2261.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6669 **Inside**
Press@RunDepth: **1215.32 psig @ 3929.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.01.27** End Date: **2010.01.28** Last Calib.: **2010.01.28**
Start Time: **16:59:33** End Time: **03:14:02** Time On Btm: **2010.01.27 @ 19:02:32**
Time Off Btm: **2010.01.27 @ 23:04:32**

TEST COMMENT: FFP-BOB in 45 sec, gas to surface in 15min
IS-Weak blow back built to 1 in
FFP-BOB in 45 sec gas to surface in 3 min
FSI-Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.50	94.82	Initial Hydro-static
1	217.69	94.41	Open To Flow (1)
30	865.21	123.31	Shut-In(1)
90	1227.69	121.42	End Shut-In(1)
91	895.81	121.41	Open To Flow (2)
151	1215.32	122.77	Shut-In(2)
242	1232.04	121.75	End Shut-In(2)
242	1919.84	121.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	FREE OIL	0.05
620.00	OCMMV-10%O35%M65%W	8.60
2046.00	WATER	29.00
0.00	682 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

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38032

DST#: 9

ATTN: Tim Priest

Test Start: 2010.01.27 @ 16:59:32

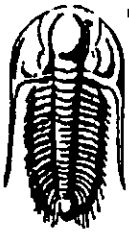
Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.82 inches	Volume: 55.20 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 55.35 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3925.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3910.00	
Hydraulic tool	5.00			3915.00	
Packer	5.00			3920.00	20.00 Bottom Of Top Packer
Packer	5.00			3925.00	
Stubb	1.00			3926.00	
Perforations	3.00			3929.00	
Recorder	0.00	8372	inside	3929.00	
Recorder	0.00	6669	inside	3929.00	
Perforations	8.00			3937.00	
Bullnose	3.00			3940.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co

Orth Unit #1-4

250 N Water ste 300
Wichita ,Ks 67202

4 14S 19W Ellis KS

Job Ticket: 38032

DST#: 9

ATTN: Tim Priest

Test Start: 2010.01.27 @ 16:59:32

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	FREE OIL	0.049
620.00	OCMV-10%O35%M55%VV	8.604
2046.00	WATER	29.003
0.00	682 GP	0.000

Total Length: 2676.00 ft

Total Volume: 37.656 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

