

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

6/4/12 ORIGINAL

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30606
Name: Murfin Drilling Company, Inc.
Address 1: 250 N. Water, Suite 300
Address 2: _____
City: Wichita State: KS Zip: 67202 + _____
Contact Person: Leon Rodak
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Tom Funk
Purchaser: None

API No. 15 - 109-20885-0000
Spot Description: _____
SW SE NW SW Sec. 1 Twp. 13 S. R. 33 East West
1,500 Feet from North / South Line of Section
700 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: DFT Well #: 1-1
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 3056 Kelly Bushing: 3061
Total Depth: 4760 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 211 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.

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

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
02/11/10 02/20/10 02/21/10
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.
Signature: _____
Title: VP Production Date: 06/04/10

KCC Office Use ONLY
 Letter of Confidentiality Received Date: 6-9-10
 Confidential Release Date: 6-4-12
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NS Date: 6/5/10
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CONSERVATION DIVISION
WICHITA, KS
PA

Operator Name: Murfin Drilling Company, Inc. Lease Name: DFT Well #: 1-1
 Sec. 1 Twp. 13 S. R. 33 East West County: Logan

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional 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: Dual Induction, Compensated Porosity, Microresistivity	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached List <div style="text-align: center;"> CONFIDENTIAL JUN 12 2012 KCC </div>
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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	24#	211	Common	170	3% cc, 2% gel

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
		RECEIVED KANSAS CORPORATION COMMISSION JUN 09 2010 CONSERVATION DIVISION WICHITA, KS	

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: _____ _____
---	---	--

DFT #1-1 1500' FSL 700' FWL Sec. 1-T13S-R33W 3061' KB						Voth #1-1 2100' FNL 2100' FWL Sec. 1-T13S-R33W 3065' KB		
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2543	+518	+8	2542	+519	+9	2555	+510
B/Anhydrite	2560	+501	+13	2564	+497	+9	2577	+488
Topeka	3772	-711	+9	3778	-717	+3	3785	-720
Heebner	3993	-932	+13	3996	-935	+10	4010	-945
Lansing	4037	-976	+12	4042	-981	+7	4053	-988
Stark	4277	-1216	+6	4279	-1218	+4	4287	-1222
Marmaton	4390	-1329	+6	4393	-1332	+3	4477	-1335
Up Pawnee	4479	-1418	+6	4483	-1422	+2	4489	-1424
Mississippi	4696	-1635	-10	4702	-1641	-16	4690	-1625
RTD	4760						4745	
LTD				4766			4747	

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

Accty -

cc WF
cc Leamp. l

Invoice

DATE	INVOICE #
3/3/2010	17428

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

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- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-1	DFT	Logan	Company Rig	Oil	Development	Cement Port Collar	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar - 2600 Feet	1	Job	1,100.00	1,100.00
290	D-Air	2	Gallon(s)	35.00	70.00T
279	Bentonite Gel	3	Sack(s)	20.00	60.00T
330	Swift Multi-Density Standard (MIDCON II)	180	Sacks	14.00	2,520.00T
276	Flocele	90	Lb(s)	1.50	135.00T
581D	Service Charge Cement	350	Sacks	1.50	525.00
583D	Drayage	1,447.2	Ton Miles	1.00	1,447.20
	Subtotal				6,257.20
	Sales Tax Logan County			6.30%	175.46

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WICHITA, KS

USED FOR New Wells
APPROVED JTK

We Appreciate Your Business!	Total	\$6,432.66
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CHARGE TO: Murphy Doly Co.
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

TICKET
17428

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Flays, Ks
 2. Ness City, Ks
 3. _____
 4. _____

WELL/PROJECT NO. 2-1
 LEASE DFT
 COUNTY/PARISH Logan
 STATE Ks
 CITY _____
 DATE 3-3-2010
 OWNER _____

TICKET TYPE SERVICE SALES
 CONTRACTOR Co-Reg
 RIG NAME/NO. _____
 SHIPPED VIA CT
 DELIVERED TO S/Delroy, Ks
 ORDER NO. _____

WELL TYPE oil
 WELL CATEGORY Wildcat
 JOB PURPOSE Cement Port Collar @ 2000'
 WELL PERMIT NO. _____
 WELL LOCATION _____

REFERRAL LOCATION _____
 INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #113	80		mi		500	400.00
576 D		1			Pump Change - out Port Collar	1		ea	26000 ft.	1100.00	110000
290		1			D-Air	2		gal		3500	7000
279		1			Bentonite Gel	3		SKS	300 lbs	2000	6000
330		2			SMD Cement	180		SKS	17567 lbs	1400	252000
276		2			Flocele	90		lbs	1/2 lb/sk	1500	13500
581		2			Service Charge	357		SKS		1500	52500
583		2			Drayage - out to Gel 36180 lbs	1447		lb		100	1447.00

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

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

X [Signature]
 DATE SIGNED 3-6-2010 TIME SIGNED 11:00
 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				6257.20
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Logan TAX 6.3%
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				175.46
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL 6432.66

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

SWIFT OPERATOR [Signature] APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 3-3-10 PAGE NO. 1

CUSTOMER *Micropia Drilling Co* WELL NO. *2-1* LEASE *DFT* JOB TYPE *Cement Port Collar* TICKET NO. *17428*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>0845</i>					<i>27g</i>	<i>Ann 57"</i>	<i>On location</i>
								<i>Setup Tok</i>
								<i>Port Collar @ 7400'</i>
	<i>0930</i>					<i>1000</i>	<i>1000</i>	<i>Tst P.C. closed - OK</i>
		<i>3</i>	<i>4</i>			<i>closed</i>	<i>700</i>	<i>Open P.C. - est. rate to Blow</i>
							<i>closed</i>	<i>Have to hbg 27g</i>
		<i>3</i>				<i>700</i>	<i>C</i>	<i>Start mixing gel - (Ann Blow 8 5/8")</i>
		<i>3</i>	<i>10</i>			<i>700</i>	<i>C</i>	<i>3 SKS - have CIR - Start 10 BBI Hbl</i>
		<i>3</i>	<i>20</i>			<i>700</i>	<i>C</i>	<i>Fin H₂O - Start SMD cont @ 11.2</i>
		<i>3</i>	<i>92</i>			<i>300</i>	<i>C</i>	<i>Cont CIR @ 165 SKS - inc #/gal</i>
		<i>3</i>	<i>98</i>			<i>300</i>	<i>C</i>	<i>for 15 SKS. 14 #/gal</i>
	<i>1015</i>					<i>200</i>	<i>C</i>	<i>Fin cont. (180 Total mixed)</i>
		<i>3</i>	<i>9 1/2</i>			<i>100</i>	<i>C</i>	<i>Displ 9 1/2 Hbl</i>
						<i>C</i>	<i>1000</i>	<i>Close PC & Tst - OK</i>
		<i>3</i>	<i>18</i>			<i>300</i>		<i>Rig run to its hbg.</i>
		<i>3</i>	<i>18</i>			<i>300</i>		<i>Rec out hbg - 2 flags</i>
	<i>1040</i>		<i>25</i>			<i>0</i>		<i>Fin rec out</i>
	<i>1045</i>							<i>Job complete</i>
								<i>Washed & Reelup Tok</i>

Thanks
Don & Dore
& Paul

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MDC/COLBY

MAR 8 2010

pen



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

INVOICE

Invoice Number: 121549
 Invoice Date: Feb 11, 2010
 Page: 1

PROD COPY

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

*operator pay
MDC/BM*

Customer ID	Well Name## or Customer P.O.	Payment Terms	
Murfin	DFT # 1-1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 11, 2010	3/13/10

Quantity	Item	Description	Unit Price	Amount
170.00	MAT	Class A Common	15.45	2,626.50
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
179.00	SER	Handling	2.40	429.60
1.00	SER	Handling Mileage Charge	312.00	312.00
1.00	SER	Surface	1,018.00	1,018.00
15.00	SER	Pump Truck Mileage	7.00	105.00

Account	Unit Fig	W L	No.	Amount	Description
03600	008	W	3594	5094.10	Cement S. Csg.
				(1715.95)	

OKAD

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

\$ 1715.95

35%

ONLY IF PAID ON OR BEFORE
 Mar 8, 2010

Subtotal	4,902.70
Sales Tax	191.40
Total Invoice Amount	5,094.10
Payment/Credit Applied	
TOTAL	5,094.10

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CONSERVATION DIVISION
 WICHITA, KS

1715.95
Russ
3378.15



PO BOX 31 Russell, KS 67665

INVOICE

Invoice Number: 121682

Invoice Date: Feb 21, 2010

Page: 1

PROD COPY

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

Bill To:

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

*operator Pay
 MDC*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	DFT #1-1 <i>pm</i>	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Feb 21, 2010	3/23/10

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	15.45	2,039.40
88.00	MAT	Pozmix	8.00	704.00
8.00	MAT	Gel	20.80	166.40
55.00	MAT	Flo Seal	2.50	137.50
230.00	SER	Handling	2.40	552.00
15.00	SER	Mileage 230 sx @.10 per sk per mi	23.00	345.00
1.00	SER	Plug to Abandon	1,185.00	1,185.00
15.00	SER	Pump Truck Mileage	7.00	105.00
1.00	EQP	Dry Hole Plug	40.00	40.00

Account	Unit Rig	W r	No.	Amount	Description
<i>03600</i>	<i>008</i>	<i>40</i>	<i>3394</i>	<i>560.658</i> <i>(1846.01)</i>	<i>PTA</i>

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

\$ 1846.01

ONLY IF PAID ON OR BEFORE

Mar 18, 2010

Subtotal	5,274.30
Sales Tax	332.28
Total Invoice Amount	5,606.58
Payment/Credit Applied	
TOTAL	5,606.58

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 WICHITA, KS

1846.01

3760.57

ALLIED CEMENTING CO., LLC. 039125

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

SERVICE POINT: Dakley, KS

DATE <u>7/21/10</u>	SEC. <u>1</u>	TWP. <u>13</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>3:30 AM</u>	JOB START <u>7:00 AM</u>	JOB FINISH <u>8:00 AM</u>
LEASE <u>OFT</u>	WELL # <u>1-1</u>	LOCATION <u>Dakley 115, SW 3/4 S</u>			COUNTY <u>Logan</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>E INTO</u>			

CONTRACTOR Murphy & PTD 8

TYPE OF JOB PTD

HOLE SIZE 7 7/8" T.D.

CASING SIZE 7 7/8" DEPTH

TUBING SIZE 4 1/2" DEPTH

DRILL PIPE 4 1/2" DEPTH

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same

CEMENT AMOUNT ORDERED 220 60/40 4070 gal
1416 Flo Seal

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK DRIVER Darren

347

BULK TRUCK DRIVER _____

COMMON	<u>132</u>	@ <u>15.45</u>	<u>2039.40</u>
POZMIX	<u>88</u>	@ <u>8.00</u>	<u>704.00</u>
GEL	<u>8</u>	@ <u>20.75</u>	<u>166.00</u>
CHLORIDE		@	
ASC		@	
Flo Seal	<u>8.5 lb</u>	@ <u>2.00</u>	<u>170.00</u>
HANDLING	<u>230 SK</u>	@ <u>2.40</u>	<u>552.00</u>
MILEAGE	<u>10.1 SK/mile</u>		<u>345.00</u>
TOTAL			<u>3944.30</u>

REMARKS:

25 SK @ 25.2

100 SK @ 14.59

40 SK @ 2.60

10 SK @ 4.0

15 SK @ Mon Hole

30 SK @ Ant Hole

SERVICE

DEPTH OF JOB	<u>2352'</u>		
PUMP TRUCK CHARGE		@	<u>1185.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>15</u>	@ <u>7.00</u>	<u>105.00</u>
MANIFOLD		@	
TOTAL			<u>1290.00</u>

CHARGE TO: Murphy Drilling Co

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>Dry Hole Plug</u>	@	<u>40.00</u>
	@	
	@	
	@	
TOTAL		<u>40.00</u>

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cement 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 Fair

SIGNATURE Rodney Fair

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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WICHITA, KS



**TRILOBITE
TESTING, INC.**

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water
Ste 300
Wichita Ks 67202-1216

ATTN: Scott Robinson

1-13s-33w Logan KS

DFT #1-1

Start Date: 2010.02.17 @ 23:13:15

End Date: 2010.02.18 @ 08:30:40

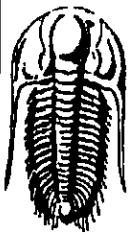
Job Ticket #: 37170 DST #: 1

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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 Inc
250 N Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

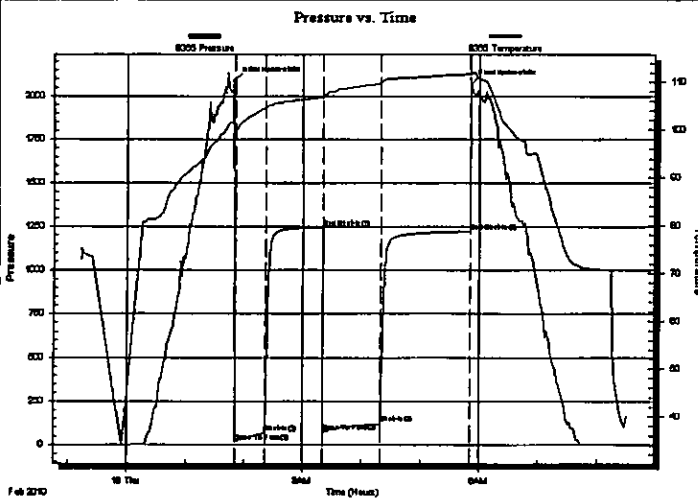
DFT #1-1
1-13s-33w Logan KS
Job Ticket: 37170 **DST#: 1**
Test Start: 2010.02.17 @ 23:13:15

GENERAL INFORMATION:

Formation: **LKC H,I,J**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 01:50:10
Time Test Ended: 08:30:40
Interval: **4184.00 ft (KB) To 4270.00 ft (KB) (TVD)**
Total Depth: **4270.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **42**
Reference Elevations: **3061.00 ft (KB)**
3056.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8365 **Inside**
Press@RunDepth: **118.25 psig @ 4250.01 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.02.17** End Date: **2010.02.18** Last Calib.: **2010.02.18**
Start Time: **23:13:15** End Time: **08:30:40** Time On Btrr: **2010.02.18 @ 01:49:10**
Time Off Btrr: **2010.02.18 @ 05:51:09**

TEST COMMENT: IFP-w k bl thru-out 1/4" to 1 1/2" bl
FFP-w k bl thru-out 1 1/4" bl
Times 30-60-60-90
no bl on shut-in



PRESSURE SUMMARY

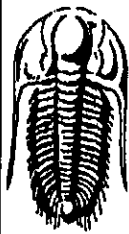
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.26	101.06	Initial Hydro-static
1	14.21	99.67	Open To Flow (1)
32	65.96	104.56	Shut-In(1)
91	1248.53	106.90	End Shut-In(1)
92	69.64	106.71	Open To Flow (2)
151	118.25	110.02	Shut-In(2)
241	1222.82	111.72	End Shut-In(2)
242	2069.14	111.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	Mud	1.31

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc
250 N Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

DFT #1-1
1-13s-33w Logan KS
Job Ticket: 37170 **DST#: 1**
Test Start: 2010.02.17 @ 23:13:15

Tool Information

Drill Pipe:	Length: 4013.00 ft	Diameter: 3.80 inches	Volume: 56.29 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 57.18 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4184.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.02 ft			
Tool Length:	107.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

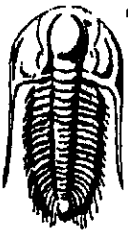
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4164.00	
Shut In Tool	5.00			4169.00	
Hydraulic tool	5.00			4174.00	
Packer	5.00			4179.00	21.00 Bottom Of Top Packer
Packer	5.00			4184.00	
Stubb	1.00			4185.00	
Blank Spacing	65.00			4250.00	
Recorder	0.01	8365	Inside	4250.01	
Recorder	0.01	6625	Outside	4250.02	
Perforations	17.00			4267.02	
Bullnose	3.00			4270.02	86.02 Bottom Packers & Anchor

Total Tool Length: 107.02

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

DFT #1-1
1-13s-33w Logan KS
Job Ticket: 37170 **DST#: 1**
Test Start: 2010.02.17 @ 23:13:15

Mud and Cushion Information

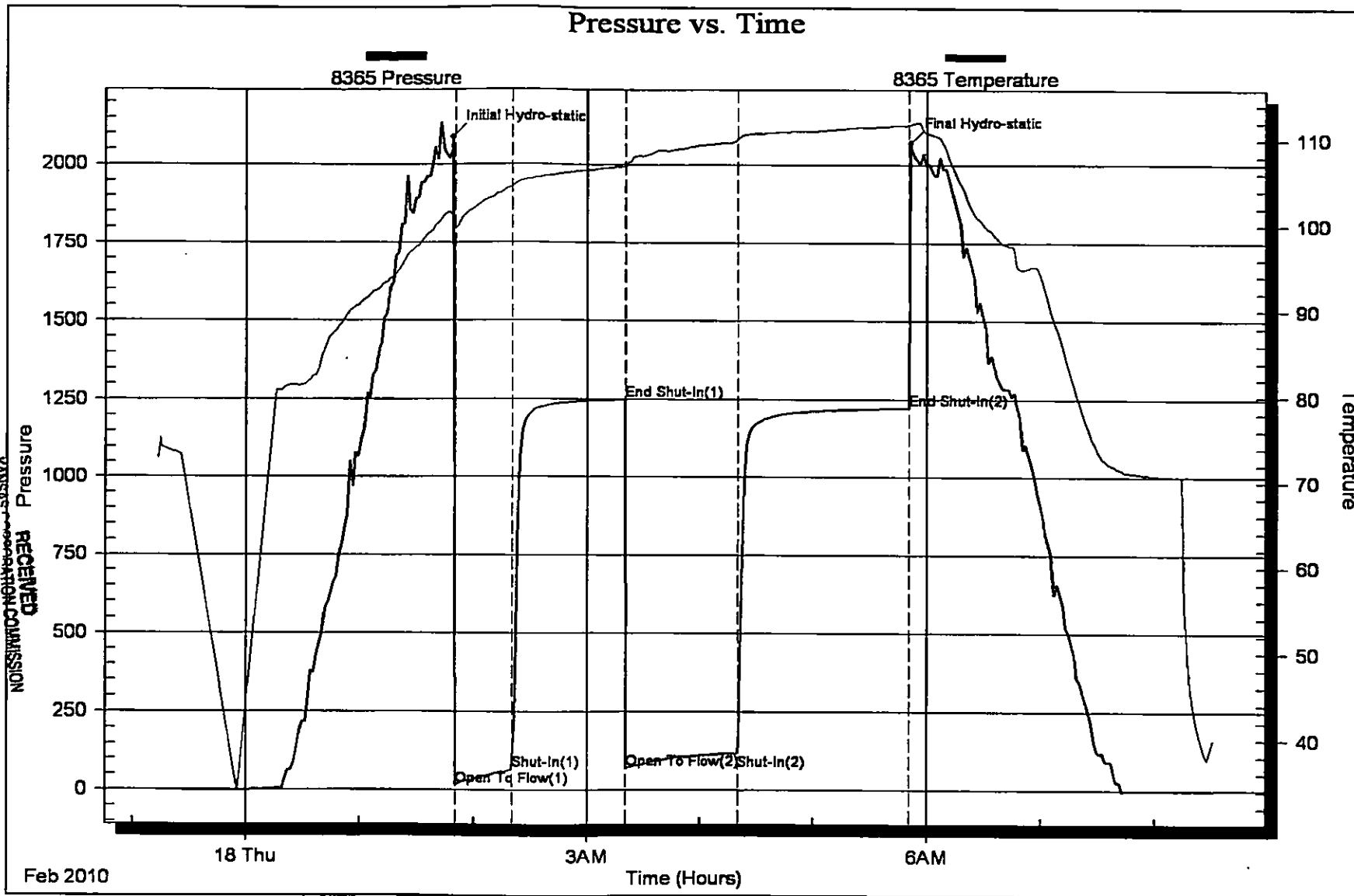
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8200.00 ppm			
Filter Cake: 1.00 inches			

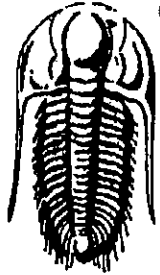
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	Mud	1.306

Total Length: 210.00 ft Total Volume: 1.306 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 67202-1216

ATTN: Scott Robinson

1-13s-33w Logan KS

DFT #1-1

Start Date: 2010.02.19 @ 19:00:12

End Date: 2010.02.20 @ 01:45:06

Job Ticket #: 37013 DST #: 2

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

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Printed: 2010.02.23 @ 21:16:44 Page 1

Murfin Drilling Co Inc

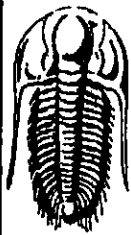
DFT #1-1

1-13s-33w Logan KS

DST # 2

Johnson

2010.02.19



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

DFT #1-1

1-13s-33w Logan KS

Job Ticket: 37013

DST#: 2

Test Start: 2010.02.19 @ 19:00:12

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:52

Time Test Ended: 01:45:06

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 4582.00 ft (KB) To 4630.00 ft (KB) (TVD)

Total Depth: 4630.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 3061.00 ft (KB)

3056.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6771

Outside

Press@RunDepth: 32.61 psig @ 4583.00 ft (KB)

Start Date: 2010.02.19

End Date:

2010.02.20

Start Time: 19:00:12

End Time:

01:33:06

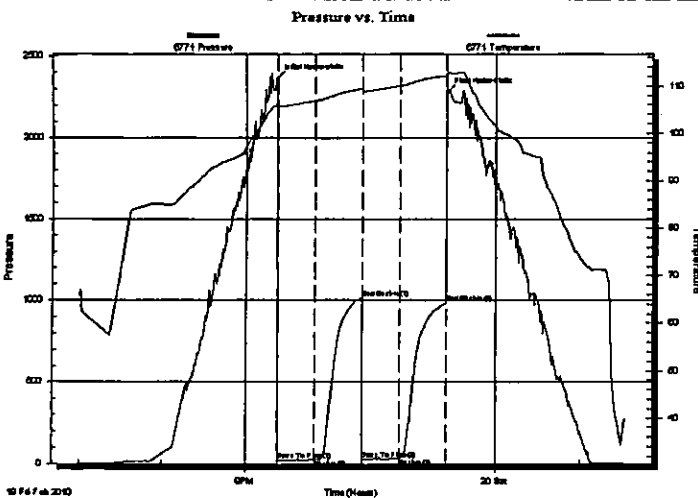
Capacity: 8000.00 psig

Last Calib.: 2010.02.20

Time On Btm: 2010.02.19 @ 21:22:37

Time Off Btm: 2010.02.19 @ 23:24:22

TEST COMMENT: 1/4" in blow died in 23 min.
No return
Bubble to open tool, no blow
No return



PRESSURE SUMMARY

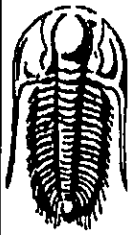
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2362.92	106.24	Initial Hydro-static
1	22.27	105.51	Open To Flow (1)
27	26.97	106.86	Shut-in(1)
61	1015.71	109.39	End Shut-in(1)
61	28.50	108.98	Open To Flow (2)
89	32.61	109.99	Shut-in(2)
122	985.50	112.08	End Shut-in(2)
122	2280.44	112.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
10.00	mud 100% m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

DFT #1-1

250 N Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

1-13s-33w Logan KS
Job Ticket: 37013 DST#: 2
Test Start: 2010.02.19 @ 19:00:12

Tool Information

Drill Pipe:	Length: 4393.00 ft	Diameter: 3.80 inches	Volume: 61.62 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 182.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4582.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

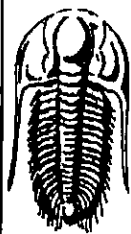
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4563.00	
Shut in Tool	5.00			4568.00	
Hydraulic tool	5.00			4573.00	
Packer	5.00			4578.00	20.00 Bottom Of Top Packer
Packer	4.00			4582.00	
Stubb	1.00			4583.00	
Recorder	0.00	8368	Inside	4583.00	
Recorder	0.00	6771	Outside	4583.00	
Perforations	9.00			4592.00	
Change Over Sub	1.00			4593.00	
Drill Pipe	31.00			4624.00	
Change Over Sub	1.00			4625.00	
Bullnose	5.00			4630.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00

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WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N Water
Ste 300
Wichita Ks 67202-1216
ATTN: Scott Robinson

DFT #1-1
1-13s-33w Logan KS
Job Ticket: 37013 DST#: 2
Test Start: 2010.02.19 @ 19:00:12

Mud and Cushion Information

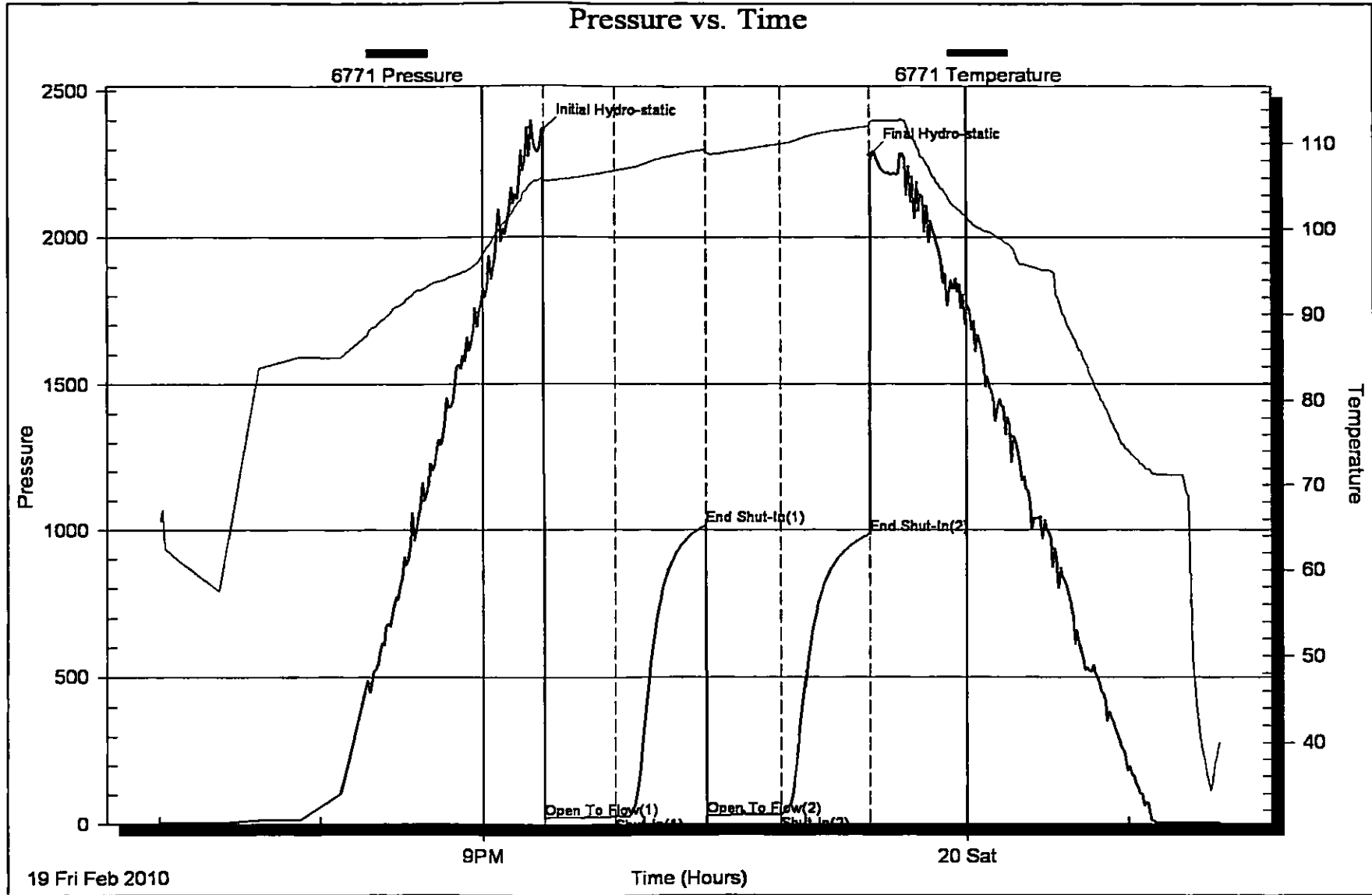
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	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:



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