

CONFIDENTIAL

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

ORIGINAL

Form ACO-1
June 2009

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

4/20/13

**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: Bob Stolzle
Purchaser: MV Purchasing

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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 #: _____

01/04/2011 01/15/2011 02/03/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 039-21122-0000
Spot Description: _____
SW NE NE SW Sec. 18 Twp. 02 S. R. 29 East West
2200 Feet from North / South Line of Section
2100 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Decatur
Lease Name: May Well #: 1-18
Field Name: Wildcat
Producing Formation: LKC
Elevation: Ground: 2790 Kelly Bushing: 2795
Total Depth: 4524 Plug Back Total Depth: 4212
Amount of Surface Pipe Set and Cemented at: 260 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2540 Feet
If Alternate II completion, cement circulated from: 2540
feet depth to: surface w/ 150 sx cmt.

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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: 04/20/2011

KCC Office Use ONLY
 Letter of Confidentiality Received
Date: 4/20/11 - 4/20/13
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NJ Date: 5-4-11

Operator Name: Murfin Drilling Company, Inc. Lease Name: May Well #: 1-18
 Sec. 18 Twp. 02 S. R. 29 East West County: Decatur

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;"> KCC APR 20 2011 CONFIDENTIAL </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	23#	260	Common	185	3% cc, 2% gel
Production		5 1/2	15.5#	4248	EA-2	150	

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	3833 - 3838 LKC "D"	250 gal 15% MCA, 1000 gal 15% MCA	
4	3882 - 3885 LKC "G"		
4	3950 - 3956 LKC "J"	1000 gal 15% MCA	

TUBING RECORD: Size: <u>2-3/8</u> Set At: <u>4029</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>02/11/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>131</u>	Gas Mcf _____
		Water Bbls. <u>4</u>
		Gas-Oil Ratio _____
		Gravity <u>36.9</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3833 - 3956</u>
---	---	--

MDCI May #1-18 2200 FSL 2100 FWL Sec. 18-T2S-R29W 2795' KB							Okmar Oil Co. Mines 'A' #1 SW SW NW Sec. 13-T2S-R30W 2782' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2546	+249	-23	2547	+248	-24	2510	+272
B/Anhydrite	2580	+215	-24	2580	+215	-24	2543	+239
Neva	3209	-414	-30	3211	-416	-32	3166	-384
Topeka	3598	-803	-29	3601	-806	-32	3556	-774
Heebner	3752	-957	-27	3758	-963	-33	3712	-930
Lansing	3800	-1005	-25	3802	-1007	-27	3760	-980
Stark	3965	-1170	-27	3966	-1171	-28	3925	-1143
Pawnee	4096	-1301		4098	-1303		NDE	NDE
L Pawnee	4123	-1328		4124	-1329		NDE	NDE
Arbuckle	4346	-1551		4351	-1556		NDE	NDE
Reagan	4471	-1676		4472	-1677		NDE	NDE
Granite Wash	4496	-1701		4492	-1697		NDE	NDE
Granite	4522	-1727		NDE			NDE	NDE
RTD	4524	-1729					3948	-1166
LTD				4527	-1732		3949	-1167

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ALLIED CEMENTING CO., LLC. 035172A

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

SERVICE POINT:

OAKLEY

DATE <u>1-4-11</u>	SEC <u>18</u>	TWP <u>2S</u>	RANGE <u>29W</u>	CALLED OUT	ON LOCATION <u>12:30PM</u>	JOB START <u>2:30PM</u>	JOB FINISH <u>3:00 PM</u>
LEASE <u>MAY</u>	WELL# <u>1-18</u>	LOCATION <u>OBERLIN 5W-3 1/2 N-E INTO</u>			COUNTY <u>DECATUR</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURFIN DRUG REG # 3

TYPE OF JOB SURFACC

HOLE SIZE 12 1/4" T.D. 260'

CASING SIZE 8 5/8" DEPTH 260'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15 1/2 BBLs

OWNER SAME

CEMENT AMOUNT ORDERED

185 SKS 60M390CC 28.9EL

COMMON	<u>185 SKS</u>	@	<u>15 1/2</u>	<u>2858 25</u>
POZMIX		@		
GEL	<u>4 SKS</u>	@	<u>20 80</u>	<u>83 20</u>
CHLORIDE	<u>7 SKS</u>	@	<u>58 30</u>	<u>407 40</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>196 SKS</u>	@	<u>2 40</u>	<u>470 40</u>
MILEAGE	<u>104 PER SK / MILE</u>			<u>1078 25</u>
TOTAL				<u>4897 25</u>

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EQUIPMENT

PUMP TRUCK CEMENTER TERRY

431 HELPER DARRIN

BULK TRUCK

396 DRIVER JERRY

BULK TRUCK

DRIVER

REMARKS:
CEMENT DID CIRC.

SERVICE

DEPTH OF JOB 260'

PUMP TRUCK CHARGE 1018 00

EXTRA FOOTAGE @

MILEAGE 55 MZ @ 7 20 385 00

MANIFOLD @

TOTAL 1403 00

CHARGE TO: MURFIN DRUG, CO.

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

8 5/8" SURFACE PLUG 68 00

@

@

@

@

TOTAL 68 00

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

PRINTED NAME

SIGNATURE Kurt Van Ruy

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT

PAID IN 30 DAYS

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Accty -

cc: WT
cc: Leon J. I
Scan: his



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



Invoice

DATE	INVOICE #
1/25/2011	19395

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

KCC
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- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-18	May	Decatur	Company Rig	Oil	Development	Cement Port Collar	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				100	Miles	5.00	500.00
576D-D	Pump Charge - Port Collar				1	Job	1,100.00	1,100.00
290	D-Air				3	Gallon(s)	35.00	105.00T
330	Swift Multi-Density Standard (MIDCON II)				220	Sacks	15.00	3,300.00T
276	Flocele				110	Lb(s)	1.50	165.00T
581D	Service Charge Cement				300	Sacks	1.50	450.00
583D	Drayage				1,542.5	Ton Miles	1.00	1,542.50
	Subtotal							7,162.50
	Sales Tax Decatur County						7.30%	260.61
<p>USED FOR <u>NEW WELL</u></p> <p>APPROVED <u>ST R</u></p>								

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Thank You For Your Business In 2010!
We Look Forward To Serving You In 2011!

Total \$7,423.11



CHARGE TO: Martin Drilling Co
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

KCC
APR 20 2011
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 KCC WICHITA

TICKET
 19395

PAGE 1 OF 1

1. <u>Hays, KS</u>	WELL/PROJECT NO. <u>1-18</u>	LEASE <u>May</u>	COUNTY/PARISH <u>Decatur</u>	STATE <u>KS</u>	CITY	DATE <u>1-25-11</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co-Ris</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>W/Oberlin, KS</u>	ORDER NO.	
3.	WELL TYPE <u>dil</u>	WELL CATEGORY <u>Wildcat</u>	JOB PURPOSE <u>Concrete Port Collar</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>		<u>1</u>			<u>MILEAGE #113</u>	<u>100</u>	<u>mi</u>			<u>5.00</u>	<u>500.00</u>
<u>576 D</u>		<u>1</u>			<u>Pump Charge - cont Port Collar</u>	<u>1</u>	<u>pc</u>			<u>1100.00</u>	<u>1100.00</u>
<u>290</u>		<u>1</u>			<u>D-Aia</u>	<u>3</u>	<u>bal</u>			<u>35.00</u>	<u>105.00</u>
<u>330</u>		<u>2</u>			<u>SMD cont.</u>	<u>220</u>	<u>SKS</u>			<u>15.00</u>	<u>3300.00</u>
<u>276</u>		<u>2</u>			<u>Floccle</u>	<u>110</u>	<u>lbs</u>	<u>1/2 #/SK</u>		<u>1.50</u>	<u>165.00</u>
<u>581</u>		<u>2</u>			<u>Service Charge - cont</u>	<u>300</u>	<u>SKS</u>	<u>29850/lbs</u>		<u>1.50</u>	<u>450.00</u>
<u>583</u>		<u>2</u>			<u>Drayage</u>	<u>1512.5</u>	<u>Tm</u>	<u>30850/lbs</u>		<u>1.00</u>	<u>1512.50</u>

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 Bruce Schae
 DATE SIGNED 1-25-11 TIME SIGNED 10:30 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?				<u>7162.50</u>
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				<u>Decatur TAX 7.3%</u>
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				<u>260.61</u>
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL
				<u>7423.11</u>

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!

KCC
APR 20 2011

SWIFT Services, ~~CONFIDENTIAL~~

DATE: 4-25-11 PAGE NO. 1

JOB LOG

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Mudwin Drilling Co.		1-18		Mudwin		Cement Port Collar		19395	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	10:15					238	5 1/2	On location - Setup - Test	
	10:35					1000	1000	P.C @ 25-40' - Test closed - OK	
		3	3			Chase	500	Open P.C - inj rate - Have Bbl	
								e Hook to 2 3/8" top - Close Ann	
		3				500		Fast Had Ahead - (8/10)	
			5			500		Have cir - Start SMD cont.	
		3	85			500	800	@ 8.5 BBI - losing returns (155 SKS)	
			110					@ 200 SKS mixed - Shut Down - NO returns	
								Wait 10 min.	
		3				500	800	Start tail in cut @ 13.5 gal (20 SKS)	
			117			500	800	Fin cont - shut Down 10 min.	
			8 1/2			500	800	Displ 8 1/2 BBI - NO returns	
						1000	1000	Close P.C - Test closed - OK	
								Ris run 5 Jts.	
		7 1/2					900	Rec-out 2 Pkgs	
								Fin Rec-out.	
	12:00		25					Job complete	
								Washup & Racked	
								<p>Thanks Dan, Doug & Frank</p> <p>cont did not circ.</p> <p>CIR same tho after mud</p>	

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

Aechy ✓

cc:WF
cc:Lean p1
Scan Liz

Invoice

DATE	INVOICE #
1/16/2011	19389

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>NEW WELL</u> <u>SK</u>
APPROVED _____

- Acidizing **KCC**
- Cement **APR 20 2011**
- Tool Rental **CONFIDENTIAL**

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-18	May	Decatur	Murfin Drilling #3	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				100	Miles	5.00	500.00
578D-L	Pump Charge - Long String - 4247 Feet				1	Job	1,400.00	1,400.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
402-5	5 1/2" Centralizer				15	Each	55.00	825.00T
403-5	5 1/2" Cement Basket				2	Each	200.00	400.00T
404-5	5 1/2" Port Collar				1	Each	1,900.00	1,900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	275.00	275.00T
413-5	5 1/2" Roto Wall Scratcher				15	Each	40.00	600.00T
419-5	5 1/2" Rotating Head Rental				1	Each	150.00	150.00T
325	Standard Cement				200	Sacks	12.00	2,400.00T
276	Flocele				50	Lb(s)	1.50	75.00T
283	Salt				1,000	Lb(s)	0.15	150.00T
284	Calseal				10	Sack(s)	30.00	300.00T
285	CFR-1				141	Lb(s)	4.00	564.00T
581D	Service Charge Cement				200	Sacks	1.50	300.00
583D	Drayage				1,046.55	Ton Miles	1.00	1,046.55
Subtotal								12,530.55
Sales Tax Decatur County							7.30%	677.73

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KCC WICHITA

Thank You For Your Business In 2010!
We Look Forward To Serving You In 2011!

Total \$13,208.28



CHARGE TO: Murkin Drilling Co.
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

KGC
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 APR 25 2011
 KGC WICHITA

TICKET
 19389

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Hays, Ks</u>	WELL/PROJECT NO. <u>1-18</u>	LEASE <u>May</u>	COUNTY/PARISH <u>Decatur</u>	STATE <u>Ks.</u>	CITY	DATE <u>1-16-11</u>	OWNER
2. <u>Ness City, Ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Murkin Drilling</u>	RIG NAME/NO. <u>#3</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Nes/Dobertin, Ks.</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Wildcat</u>	JOB PURPOSE <u>Cement Logging</u>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #112	100		mi		5.00	500.00
578		1			Pump Charge - cement Logging	1ea	42-47	ft.		1400.00	1400.00
821		1			Liquid HCL	4		gal		25.00	100.00
880		1			Flocheck-21	500		gal		2.50	1250.00
890		1			D-Air	2		gal		35.00	70.00
402		1			Centralizers	15		ea	5 1/2 in	55.00	825.00
403		1			Cement Baskets	2		ea	5 1/2 in	200.00	400.00
404		1			Port Collar	1		ea	5 1/2 in	1900.00	1900.00
406		1			Latch Down Plug & Baffle	1		ea	5 1/2 in	225.00	225.00
407		1			Insert (Port Shoe w/ Anti-Roll	1		ea	5 1/2 in	275.00	275.00
413		1			Rot Wall Scratchers	15		ea	5 ft.	40.00	600.00
419		1			Rotating Head Rental	1		ea	5 1/2 in	150.00	150.00

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 Buck Mos
 DATE SIGNED 1-16-11 TIME SIGNED 8:40 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	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				P.1	7695.00
WE UNDERSTOOD AND MET YOUR NEEDS?				P.2	4835.55
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	12530.55
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Decatur TAX 7.3%	677.73
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	13,208.28
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

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

SWIFT OPERATOR [Signature] APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7-16-11 PAGE NO. 7

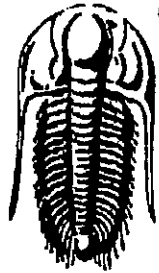
CUSTOMER Mechin Drilling Co. WELL NO. 1-18 LEASE Map JOB TYPE Cement Lugs/strings TICKET NO. 19389

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	D345							TD 4524'
	0600							5 1/2" On location with Flood Equip. R/LDDC
								Start 5 1/2" 15.5#/ft casing - 102 JTs
								75 Ft. of Scraperbars (15')
								Insert float shoe w/ Auto RCP
								LD, Baffle - 35, 22' - Cut Baskets - 40 & 41
								Cont - 1 thru 14 and #40
								P.C. @ 2541' #41
	D725							Drop Ball start run over Abrasive
	0730							Circulate 15 min
	0745							Cont Run Casing
	0815							Fin Run Casing
	0830							Ein + Rotate 1 HR
	0900							Fin Lin
		6	15				400	Pump 15 BBL KCL Flush
		5 1/2	12				400	Pump 40 gal Flock 21
		6	05				400	Pump #5 BBL KCL
		5					350	Start 155' SKS EA-2 cont
		5	38				Var	Fin cont.
								Wash out Pump Lines
		9					700	Drop LD. Plug - Start Disp
		9	20				400	1 SE 20 BBL KCL wtr.
		9					400	Cont. Disp (100 1/2)
		8	75				500	Catight cont - slow rate
		7	65				400	slow rate
		5 1/2	95				450	slow rate
	D945		100 1/2				350	Plug Down - Hold - Release & Hold
	1000						150	Job complete
								Wash up & Breakup Tite

KCC
APR 20 2011
CONFIDENTIAL

Thanks
 A. Jones, Doug H. Davenport

RECEIVED
 APR 25 2011
 KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolzle

18/2s/29w Decatur KS

May #1-18

Start Date: 2011.01.09 @ 13:48:00

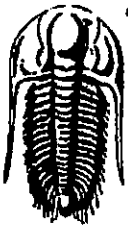
End Date: 2011.01.09 @ 21:51:30

Job Ticket #: 040777 DST #: 1

**KCC
APR 20 2011
CONFIDENTIAL**

**RECEIVED
APR 25 2011
KCC WICHITA**

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040777

DST#: 1

ATTN: Bob Stolze

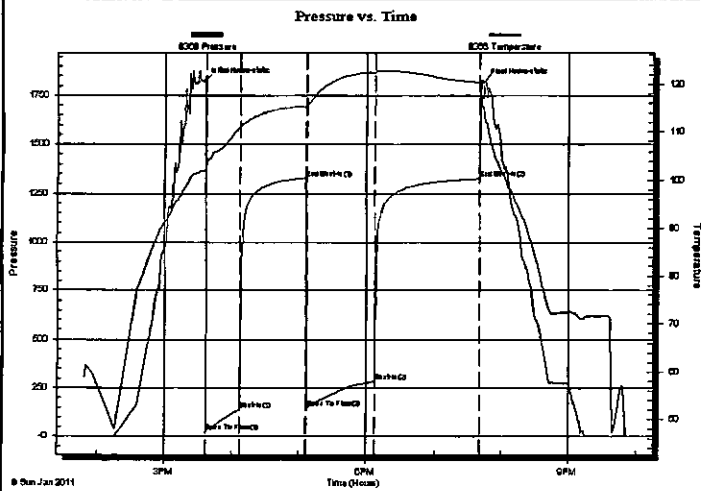
Test Start: 2011.01.09 @ 13:48:00

GENERAL INFORMATION:

Formation: Lans. "A"
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:36:30
 Time Test Ended: 21:51:30
 Interval: 3744.00 ft (KB) To 3820.00 ft (KB) (TVD)
 Total Depth: 3820.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2795.00 ft (KB)
 2790.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8366 Inside
 Press@RunDepth: 284.42 psig @ 3745.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.09 End Date: 2011.01.09 Last Calib.: 2011.01.09
 Start Time: 13:48:05 End Time: 21:51:29 Time On Btm: 2011.01.09 @ 15:34:30
 Time Off Btm: 2011.01.09 @ 19:43:45

TEST COMMENT: IF: Blow built to BOB in 22 min. (Diesel in bucket)
 ISI: Bled off, Weak surface blow back for a couple min., then dead
 FF: Blow built to BOB in 31 min.
 FSI: Bled off, Weak surface blow back for a co



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.59	101.90	Initial Hydro-static
2	25.34	102.66	Open To Flow (1)
33	138.41	110.94	Shut-In(1)
92	1328.52	115.31	End Shut-In(1)
92	147.51	115.35	Open To Flow (2)
153	284.42	122.36	Shut-In(2)
247	1324.74	120.37	End Shut-In(2)
250	1819.97	115.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
570.00	MCW 92%w, 8% m	3.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040777

DST#: 1

ATTN: Bob Stolze

Test Start: 2011.01.09 @ 13:48:00

Tool Information

Drill Pipe:	Length: 3208.00 ft	Diameter: 3.80 inches	Volume: 45.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 516.00 ft	Diameter: 2.25 inches	Volume: 2.54 bbl	Weight to Pull Loose: 64000.00 lb
			Total Volume: 47.54 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3744.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	104.00 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			3721.00	
Hydraulic tool	5.00			3726.00	
Jars	5.00			3731.00	
Safety Joint	3.00			3734.00	
Packer	5.00			3739.00	28.00 Bottom Of Top Packer
Packer	5.00			3744.00	
Stubb	1.00			3745.00	
Recorder	0.00	8366	Inside	3745.00	
Recorder	0.00	8320	Outside	3745.00	
Perforations	8.00			3753.00	
Blank Spacing	64.00			3817.00	
Bullnose	3.00			3820.00	76.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040777 DST#: 1

ATTN: Bob Stolzle

Test Start: 2011.01.09 @ 13:48:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	26000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 600.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

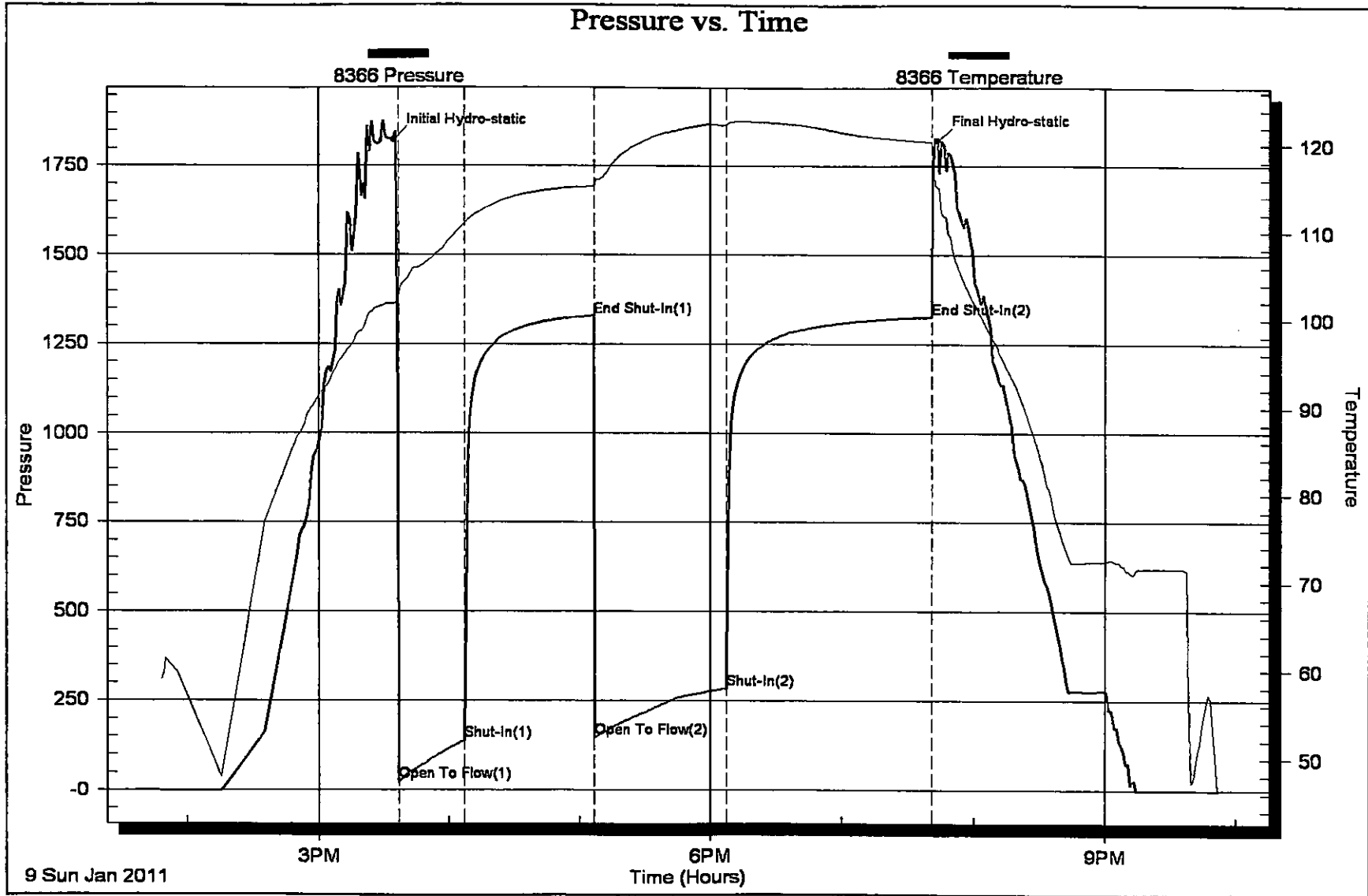
Length ft	Description	Volume bbl
570.00	MCW 92%w, 8%m	3.295

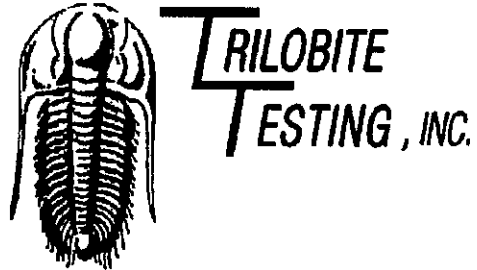
Total Length: 570.00 ft Total Volume: 3.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .365 ohms @ 51.5 deg F Chlorides = 26,000 ppm





DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolze

18/2s/29w Decatur KS

May #1-18

Start Date: 2011.01.10 @ 09:45:00

End Date: 2011.01.10 @ 17:51:30

Job Ticket #: 040778 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

May #1-18

18/2s/29w Decatur KS

DST # 2

Lans. "D-G"

2011.01.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Bob Stolze

May #1-18
18/2s/29w Decatur KS
Job Ticket: 040778 DST#: 2
Test Start: 2011.01.10 @ 09:45:00

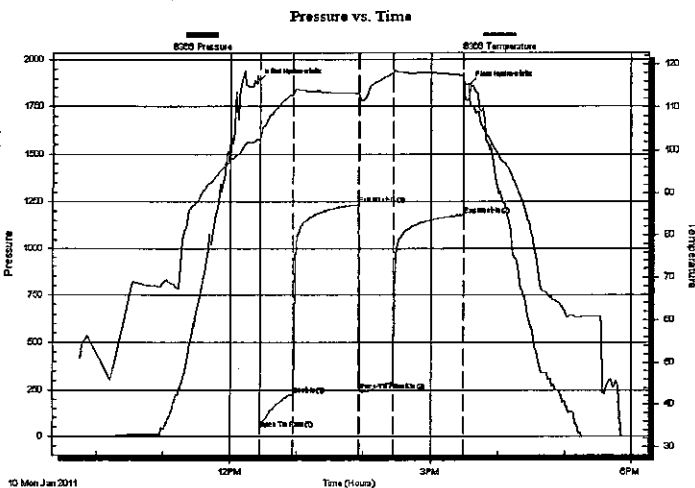
GENERAL INFORMATION:

Formation: **Lans. "D - G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:26:45
 Time Test Ended: 17:51:30
 Interval: **3810.00 ft (KB) To 3900.00 ft (KB) (TVD)**
 Total Depth: 3900.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2795.00 ft (KB)
 2790.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: **8366** Inside
 Press@RunDepth: 288.28 psig @ 3811.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.10 End Date: 2011.01.10 Last Calib.: 2011.01.10
 Start Time: 09:45:05 End Time: 17:51:29 Time On Btm: 2011.01.10 @ 12:24:00
 Time Off Btm: 2011.01.10 @ 15:33:45

TEST COMMENT: IF: 3" blow at open, built to BOB in 5 1/2 min.
 IS: Blow back built to 9 1/2" (Diesel in Bucket)
 FF: Blow built to BOB in 8 min.
 FS: Blow back built to BOB in 16 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.59	102.36	Initial Hydro-static
3	43.65	102.47	Open To Flow (1)
33	224.63	113.05	Shut-In(1)
92	1231.78	113.26	End Shut-In(1)
93	243.63	112.83	Open To Flow (2)
123	288.28	117.95	Shut-In(2)
185	1181.02	117.47	End Shut-In(2)
190	1863.83	111.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 66% _m , 20% _g , 14% _o	0.30
150.00	MCO 60% _o , 35% _m , 5% _g	0.74
460.00	GMCO 63% _o , 22% _g , 15% _m	3.67
40.00	MCO 86% _o , 12% _m , 2% _g	0.56
0.00	GIP = 395'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040778

DST#: 2

ATTN: Bob Stolze

Test Start: 2011.01.10 @ 09:45:00

Tool Information

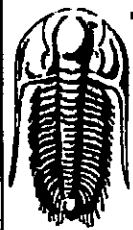
Drill Pipe:	Length: 3271.00 ft	Diameter: 3.80 inches	Volume: 45.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 516.00 ft	Diameter: 2.25 inches	Volume: 2.54 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3810.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool slid 8' to bottom before open and chased 2' at open - No mud loss

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3787.00	
Hydraulic tool	5.00			3792.00	
Jars	5.00			3797.00	
Safety Joint	3.00			3800.00	
Packer	5.00			3805.00	28.00 Bottom Of Top Packer
Packer	5.00			3810.00	
Stubb	1.00			3811.00	
Recorder	0.00	8366	Inside	3811.00	
Recorder	0.00	8320	Outside	3811.00	
Perforations	22.00			3833.00	
Blank Spacing	64.00			3897.00	
Bullnose	3.00			3900.00	90.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040778

DST#: 2

ATTN: Bob Stolze

Test Start: 2011.01.10 @ 09:45:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37.6 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.38 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1000.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

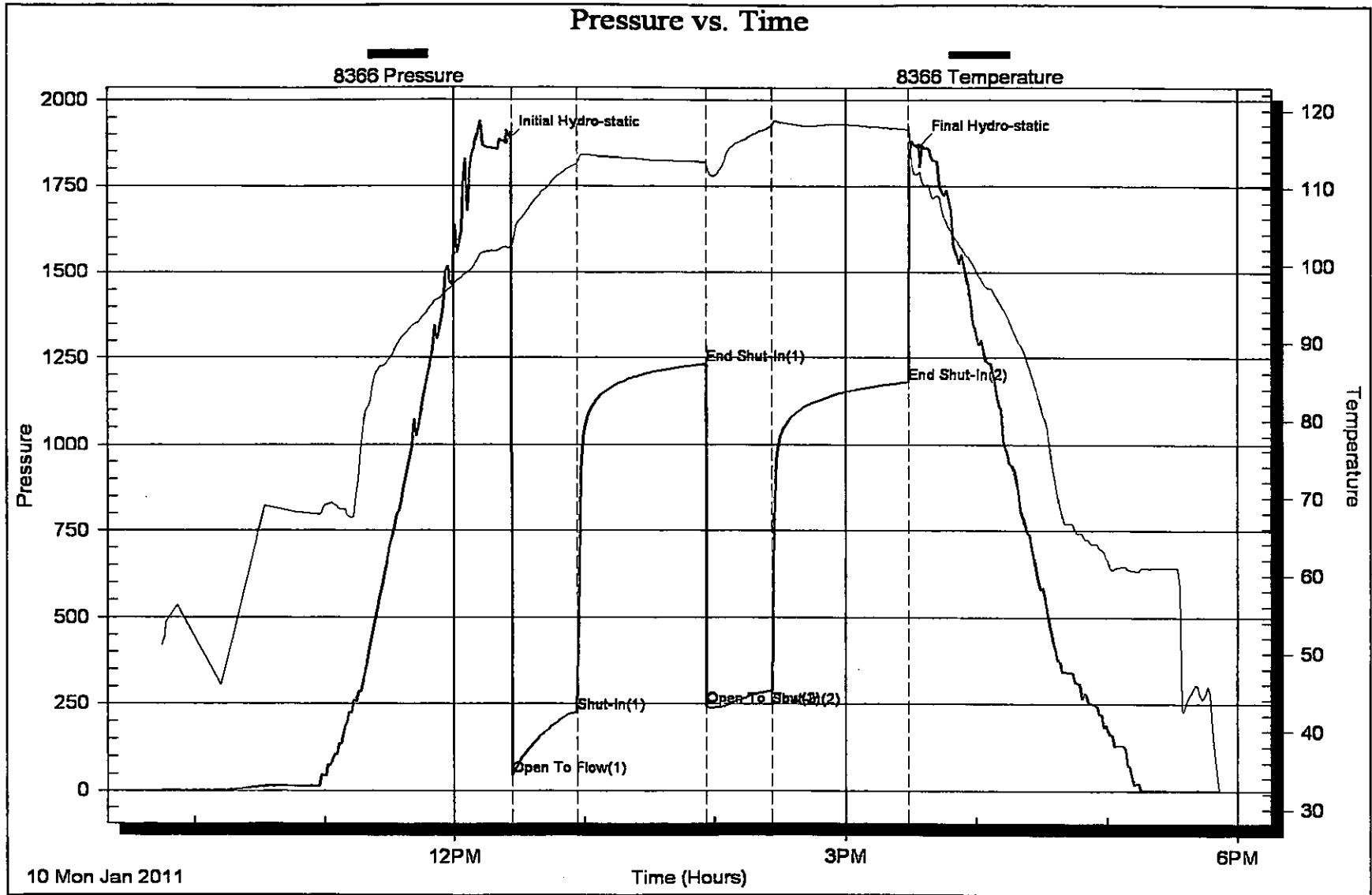
Length ft	Description	Volume bbl
60.00	GOCM 66% <i>m</i> , 20% <i>g</i> , 14% <i>o</i>	0.295
150.00	MCO 60% <i>o</i> , 35% <i>m</i> , 5% <i>g</i>	0.738
460.00	GMCO 63% <i>o</i> , 22% <i>g</i> , 15% <i>m</i>	3.665
40.00	MCO 86% <i>o</i> , 12% <i>m</i> , 2% <i>g</i>	0.561
0.00	GIP = 395'	0.000

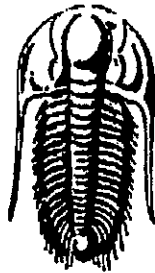
Total Length: 710.00 ft Total Volume: 5.259 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 33.2 api @ 16 deg F Corrected Gravity = 37.6 api





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolze

18/2s/29w Decatur KS

May #1-18

Start Date: 2011.01.12 @ 20:36:00

End Date: 2011.01.13 @ 07:05:45

Job Ticket #: 040779 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

May #1-18

18/2s/29w Decatur KS

DST # 3

Lans. "J"

2011.01.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolze

May #1-18

18/2s/29w Decatur KS

Job Ticket: 040779

DST#: 3

Test Start: 2011.01.12 @ 20:36:00

GENERAL INFORMATION:

Formation: Lans. "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:02:15

Time Test Ended: 07:05:45

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3917.00 ft (KB) To 3950.00 ft (KB) (TVD)

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2795.00 ft (KB)

2790.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 286.13 psig @ 3918.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.12

End Date: 2011.01.13

Last Calib.: 2011.01.13

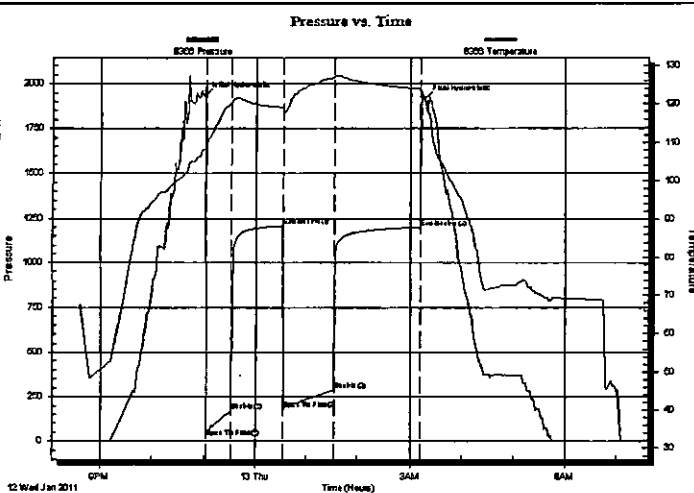
Start Time: 20:36:05

End Time: 07:05:45

Time On Btm: 2011.01.12 @ 23:00:15

Time Off Btm: 2011.01.13 @ 03:16:45

TEST COMMENT: IF: Blow built to BOB in 6 1/4 min. (Diesel in Bucket)
IS: Blow back built to BOB in 48 min., dying back before end of SI
FF: Blow built to BOB in 11 min.
FSI: Blow back built to BOB in 18 min., dy



PRESSURE SUMMARY

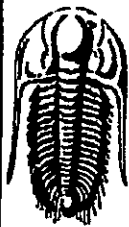
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1933.59	108.19	Initial Hydro-static
2	25.25	108.34	Open To Flow (1)
32	173.61	120.06	Shut-In(1)
92	1208.62	119.14	End Shut-In(1)
93	183.91	118.57	Open To Flow (2)
152	286.13	126.74	Shut-In(2)
252	1202.28	123.88	End Shut-In(2)
257	1917.27	121.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
13.00	CO 99%o, 1%m	0.06
382.00	GO 68%o, 28%g, 4%m	1.88
180.00	SMCO 94%o, 6%m	1.42
160.00	GOCM 65%o, 24%g, 11%g	2.24
0.00	GIP = 550'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040779

DST#: 3

ATTN: Bob Stolze

Test Start: 2011.01.12 @ 20:36:00

Tool Information

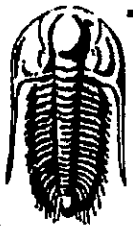
Drill Pipe:	Length: 3396.00 ft	Diameter: 3.80 inches	Volume: 47.64 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 516.00 ft	Diameter: 2.25 inches	Volume: 2.54 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3917.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Dropped Bar to reverse out - pin didn't break (bent some - changed pin)

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3894.00	
Hydraulic tool	5.00			3899.00	
Jars	5.00			3904.00	
Safety Joint	3.00			3907.00	
Packer	5.00			3912.00	28.00 Bottom Of Top Packer
Packer	5.00			3917.00	
Stubb	1.00			3918.00	
Recorder	0.00	8366	Inside	3918.00	
Recorder	0.00	8320	Outside	3918.00	
Perforations	29.00			3947.00	
Bullnose	3.00			3950.00	33.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040779 DST#: 3

ATTN: Bob Stolze

Test Start: 2011.01.12 @ 20:36:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	37.4 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

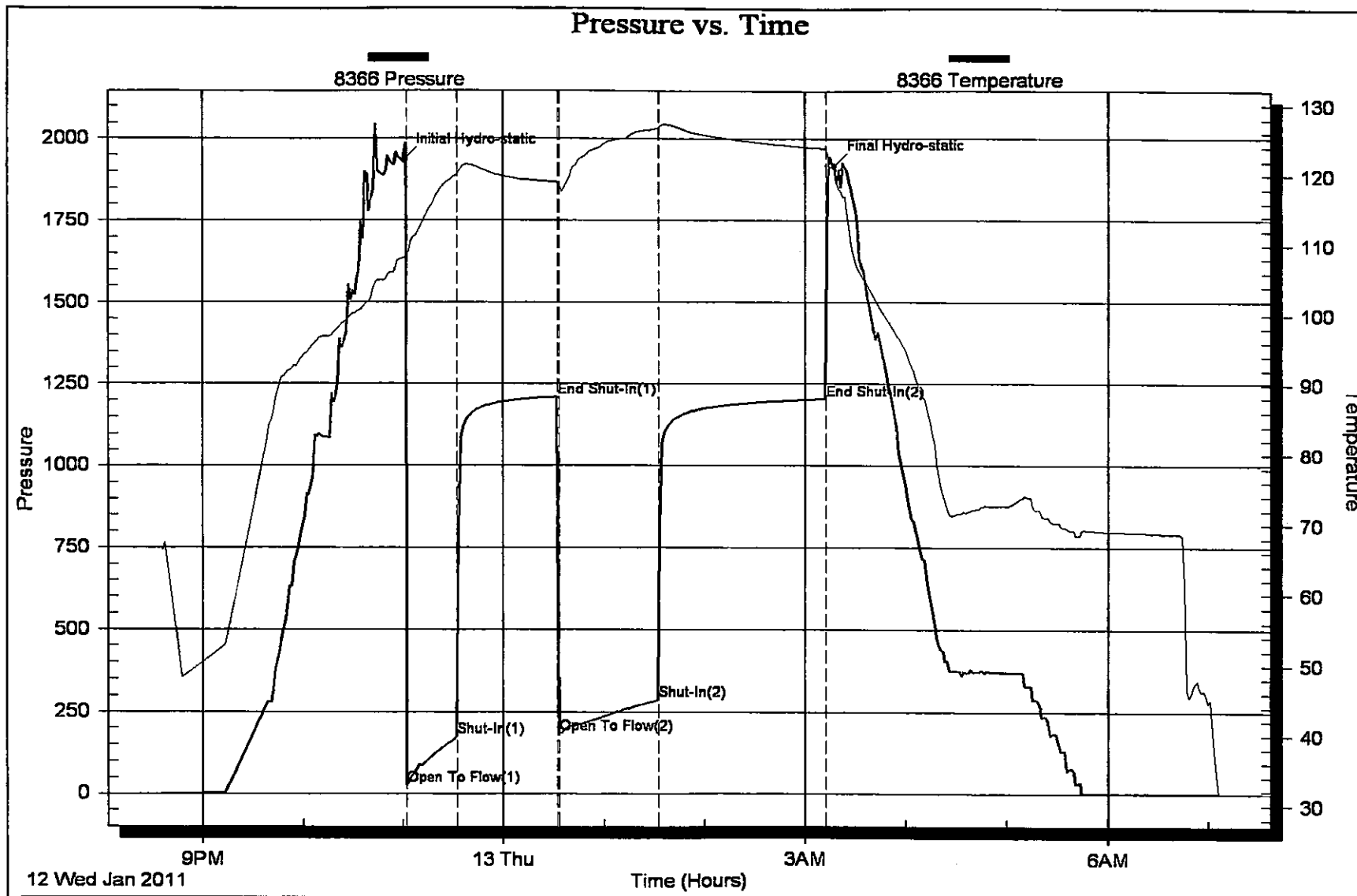
Length ft	Description	Volume bbl
13.00	CO 99%o, 1%m	0.064
382.00	GO 68%o, 28%g, 4%m	1.879
180.00	SMCO 94%o, 6%m	1.423
160.00	GOCM 65%m, 24%o, 11%g	2.244
0.00	GIP = 550'	0.000

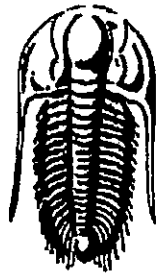
Total Length: 735.00 ft Total Volume: 5.610 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 33.8 api @ 24 deg F Corrected Gravity = 37.4 api





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Bob Stolze

18/2s/29w Decatur KS

May #1-18

Start Date: 2011.01.13 @ 19:25:00

End Date: 2011.01.14 @ 03:28:15

Job Ticket #: 040780 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Murfin Drilling Co., Inc.

May #1-18

18/2s/29w Decatur KS

DST # 4

LKC "K & L"

2011.01.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

ATTN: Bob Stolze

Job Ticket: 040780 DST#: 4

Test Start: 2011.01.13 @ 19:25:00

GENERAL INFORMATION:

Formation: **LKC "K & L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:24:00

Time Test Ended: 03:28:15

Test Type: Conventional Bottom Hole

Tester: James Winder

Unit No: 46

Interval: 3959.00 ft (KB) To 4020.00 ft (KB) (TVD)

Total Depth: 4020.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2795.00 ft (KB)

2790.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 32.69 psig @ 3960.00 ft (KB)

Start Date: 2011.01.13

End Date: 2011.01.14

Start Time: 19:25:05

End Time: 03:28:14

Capacity: 8000.00 psig

Last Calib.: 2011.01.14

Time On Btm: 2011.01.13 @ 21:22:00

Time Off Btm: 2011.01.14 @ 01:29:45

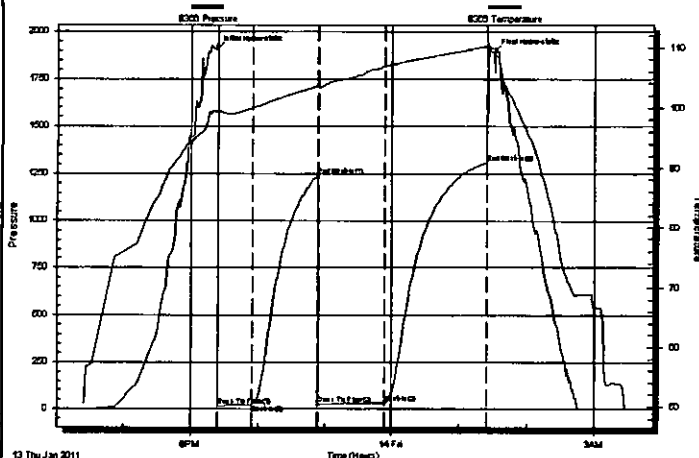
TEST COMMENT: IF: Blow built to 1 1/2" (Diesel in bucket)

IS: Blow back at 18 min., built to 1/8"

FF: Blow built to 3/4"

FSt: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

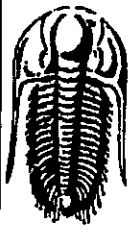
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.40	99.36	Initial Hydro-static
2	16.78	98.78	Open To Flow (1)
32	22.34	99.95	Shut-In(1)
92	1240.88	103.62	End Shut-In(1)
92	25.93	103.31	Open To Flow (2)
152	32.69	106.90	Shut-In(2)
243	1308.53	110.13	End Shut-In(2)
248	1891.68	109.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/trace oil 100%m	0.15

Gas Rates

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



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TOOL DIAGRAM

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18/2s/29w Decatur KS

Job Ticket: 040780

DST#: 4

ATTN: Bob Stolze

Test Start: 2011.01.13 @ 19:25:00

Tool Information

Drill Pipe:	Length: 3427.00 ft	Diameter: 3.80 inches	Volume: 48.07 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 516.00 ft	Diameter: 2.25 inches	Volume: 2.54 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 50.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3959.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	89.00 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			3936.00	
Hydraulic tool	5.00			3941.00	
Jars	5.00			3946.00	
Safety Joint	3.00			3949.00	
Packer	5.00			3954.00	28.00 Bottom Of Top Packer
Packer	5.00			3959.00	
Stubb	1.00			3960.00	
Recorder	0.00	8366	Inside	3960.00	
Recorder	0.00	8320	Outside	3960.00	
Perforations	24.00			3984.00	
Blank Spacing	32.00			4016.00	
Perforations	1.00			4017.00	
Bullnose	3.00			4020.00	61.00 Bottom Packers & Anchor

Total Tool Length: 89.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

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May #1-18

250 N. Water Suite 300
Wichita, KS 67202

18/2s/29w Decatur KS

Job Ticket: 040780 DST#: 4

ATTN: Bob Stolze

Test Start: 2011.01.13 @ 19:25:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w /trace oil 100%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

