

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

4/5/13

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: Jeff Christian
Purchaser: MV Purchasing

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

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
12/12/10 12/22/10 01/05/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 109-20965-0000
Spot Description: _____
SW NE NE NW Sec. 35 Twp. 12 S. R. 32 East West
335 Feet from North / South Line of Section
2200 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: Kuhlman D Well #: 1-35
Field Name: Unnamed
Producing Formation: LKC and Johnson
Elevation: Ground: 2985 Kelly Bushing: 2990
Total Depth: 4730 Plug Back Total Depth: 4703
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2520 Feet
If Alternate II completion, cement circulated from: 2520
feet depth to: surface w/ 225 sx cmt.

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

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

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.
Signature: _____
Title: VP Production Date: 04/05/2011

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RECEIVED
Date: 4/5/11 - 4/5/13 APR 06 2011
 Letter of Confidentiality Received
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: _____ Date: 4-5-11

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Operator Name: Murfin Drilling Company, Inc. Lease Name: Kuhlman D Well #: 1-35
 Sec. 35 Twp. 12 S. R. 32 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;"> KCC APR 05 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	221	Common	165	3% cc, 2% gel
Production		5 1/2	15.5	4727	EA2	175	

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4089 - 4100 LKC "E"	300 gal 15% MCA	
4	4573 - 4578 Johnson	750 gal 15% MCA	

TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>4609</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>01/07/2011</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>88</u>	Gas Mcf _____ Water Bbls. <u>16</u> Gas-Oil Ratio _____ Gravity <u>28.2</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)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4089 - 4578</u>
---	--	--

MDCI Kuhlman 'D' #1-35 335' FNL 2200' FWL Sec. 35-T12S-R32W 2990' KB							Grand Mesa Oper. Anderson 'G' #2-26 356' FSL 2585' FWL Sec. 26-T12S-R32W 2995' KB	
Formation	SampleTops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	2505	+485	-2	2505	+485	-2	2508	+487
B/Anhydrite	2528	+462	-2	2528	+462	-2	2531	+464
Topeka	3743	-753	-3	3742	-752	-2	3745	-750
Heebner	3967	-977	+1	3969	-979	-1	3973	-978
Lansing	4006	-1016	+2	4012	-1022	-4	4013	-1018
Stark	4234	-1244	+3	4241	-1251	-4	4242	-1247
Up Pawnee	4446	-1456	+3	4450	-1460	-1	4454	-1459
Johnson	4569	-1579		4571	-1581	-3	4573	-1578
B Penn Lm							4596	-1601
Mississippi	4620	-1630	+6	4620	-1630	+6	4631	-1636
RTD	4730						4664	
LTD				4704			4660	

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PO BOX 31 Russell, KS 67665

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Sup. acct.
INVOICE

Invoice Number: 125627
 Invoice Date: Dec 12, 2010
 Page: 1

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

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

*operator pay
 MDC
 Bn*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Kuhlman D #1-35	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 12, 2010	1/11/11

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	15.45	2,549.25
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
174.00	SER	Handling	2.40	417.60
1.00	SER	Handling Mileage Charge	312.00	312.00
1.00	SER	Surface	1,018.00	1,018.00
10.00	SER	Pump Truck Mileage	7.00	70.00

Account	Trk Hig	W L	No.	Amount	Description

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

\$ 1672.46

ONLY IF PAID ON OR BEFORE
 Jan 6, 2011

Subtotal	4,778.45
Sales Tax	216.14
Total Invoice Amount	4,994.59
Payment/Credit Applied	
TOTAL	4,994.59

OK M
- 1672.46
[Signature]

ALLIED CEMENTING CO., LLC. 035167#

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

SERVICE POINT:
OAKLEY

DATE <u>12-12-10</u>	SEC. <u>35</u>	TWP. <u>125</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>9:00 PM</u>	JOB START <u>9:15 PM</u>	JOB FINISH <u>10:15 PM</u>
LEASE <u>KUHLMAN #10</u>	WELL # <u>1-35</u>		LOCATION <u>OAKLEY 105-14E-5-1N</u>		COUNTY <u>LOGAN</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)				KCC			

CONTRACTOR MURFIN ORLS #24

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 221'

CASING SIZE 8 5/8" DEPTH 221'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 13 BBLs

OWNER SAME APR 05 2011

CEMENT AMOUNT ORDERED 165 SKS COM 3% CC 2% GEL

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EQUIPMENT

PUMP TRUCK CEMENTER TERRY

423-281 HELPER LAREN E

BULK TRUCK

396 DRIVER ~~ANTHONY~~ DARREN

BULK TRUCK

_____ DRIVER _____

COMMON	<u>165 SKS</u>	@	<u>15 45</u>	<u>2549 25</u>
POZMIX	_____	@	_____	_____
GEL	<u>3 SKS</u>	@	<u>20 80</u>	<u>62 40</u>
CHLORIDE	<u>6 SKS</u>	@	<u>58 22</u>	<u>349 20</u>
ASC	_____	@	_____	_____
@ RECEIVED				
@ APR 06 2011				
@ KCC WICHITA				
HANDLING	<u>174 SKS</u>	@	<u>2 40</u>	<u>417 60</u>
MILEAGE	<u>MINIMUM CHARGE</u>			<u>212 00</u>
				TOTAL <u>3690 45</u>

REMARKS:
CEMENT did circ.

THANK YOU

CHARGE TO: MURFIN ORLS, CO

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>221'</u>	
PUMP TRUCK CHARGE		<u>1018 00</u>
EXTRA FOOTAGE	@	_____
MILEAGE	<u>10 MI @ 7 00</u>	<u>70 00</u>
MANIFOLD	@	_____
TOTAL <u>1088 00</u>		

PLUG & FLOAT EQUIPMENT

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

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

PRINTED NAME Anthony Martin

SIGNATURE *Anthony Martin*

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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



Acct by — cc: w r
cc: Liz
cc: Leon p. 1

Invoice

DATE	INVOICE #
12/29/2010	19501

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	#1-35	Kuhlman D	Logan	Company Tools	Oil	Development	Port Collar	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar				1	Job	1,100.00	1,100.00
279	Bentonite Gel				1	Sack(s)	25.00	25.00T
290	D-Air				3	Gallon(s)	35.00	105.00T
330	Swift Multi-Density Standard (MIDCON II)				225	Sacks	15.00	3,375.00T
276	Flocele				100	Lb(s)	1.50	150.00T
581D	Service Charge Cement				400	Sacks	1.50	600.00
583D	Drayage				1,564	Ton Miles	1.00	1,564.00
	Subtotal							7,319.00
	Sales Tax Logan County						7.80%	285.09
USED FOR <u>NEW WELLS</u>								
APPROVED <u>[Signature]</u>								
RECEIVED								
APR 06 2011								
KCC WICHITA								

<p>Thank You For Your Business In 2010! We Look Forward To Serving You In 2011!</p>	<p>Total \$7,604.09</p>
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CHARGE TO: Murfin Dlg Co Inc
 ADDRESS:
 CITY, STATE, ZIP CODE

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TICKET
 19501
 PAGE 1 OF 1

1. Hay, KS WELL PROJECT NO: #1-35 LEASE: Kohlman "D" COUNTY/PARISH: Logan STATE: KS CITY: Local
 2. Ness City, KS CONTRACTOR: Lo Tels RIG NAME/NO.: Part C/111 SHIPPED: WFT DELIVERED TO: Local
 3. WELL TYPE: Oil WELL CATEGORY: Development JOB PURPOSE: Part C/111 WELL PERMIT NO.:
 4. REFERRAL LOCATION: INVOICE INSTRUCTIONS:

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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
			ACCT	DF								
575		1			#111	80 mi.					5.00	400.00
576 D		1			Pump Charge (Part C/111)	1 PM					1100.00	1100.00
229		1			Bakelite	1 skt					25.00	25.00
290		1			D-Air	3 gal					35.00	105.00
330		2			SMD Cement	285 lbs					15.00	3375.00
276		2			Fluocel	100 lb					150.00	150.00
581		2			Cement Service Charge	400 sks					1.50	600.00
583		2			Dayage	1564 TM					1.00	1564.00
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.						REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560						
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS						SURVEY						
DATE SIGNED: <u>12-29-10</u> TIME SIGNED: <u>11:20</u>						OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE?						
X						<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND <input type="checkbox"/> YES <input type="checkbox"/> NO						
DATE SIGNED: <u>12-29-10</u> TIME SIGNED: <u>11:20</u>						PAGE TOTAL: <u>7319.00</u>						
DATE SIGNED: <u>12-29-10</u> TIME SIGNED: <u>11:20</u>						TOTAL: <u>7004.09</u>						

SWIFT OPERATOR: Neil [Signature] APPROVAL: [Signature]
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 12-24-10 PAGE NO. 7

CUSTOMER *Martin Drilling Co Inc*

WELL NO. # *1-35*

LEASE *Kuhlman "D"*

JOB TYPE *Port Collar*

TICKET NO. *19501*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0910							on loc setup Trks
								KCC APR 05 2011 CONFIDENTIAL 2 3/8" X 5 1/2" P.C. @ 2520'
	0930						1000	Test Csg
	0950	3.5	3				800	Open P.C. Take injection rate
	1000	3.5	0				800	start gel
	1002	4	6/0				700	Start Cement 225sk SMD
		4	110				600	Circulate Cement/raise weight
		4	117/0				600	End Cement/start Displacement
	1030		9				700	Cement Displaced
								Close P.C.
	1035						1000	Test Csg
								Run 5j's
	1050	3	0					Reverse out
	1057		20					Hole Clean
								1 sk gel 225sk SMD circ 25sk to pit

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Thank you KCC WICHITA
Nick, Josh F, & Rob



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



cc: Liz
cc: Leon page 1

Invoice

DATE	INVOICE #
12/22/2010	19267

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	#1-35	Kuhlman D	Logan	Murfin Drilling #24	Oil	Development	LongString	Dave
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
578D-L	Pump Charge - Long String				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				225	Sacks	12.00	2,700.00T
276	Flocele				56	Lb(s)	1.50	84.00T
283	Salt				1,125	Lb(s)	0.15	168.75T
284	Calseal				11	Sack(s)	30.00	330.00T
285	CFR-1				150	Lb(s)	4.00	600.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				943.24	Ton Miles	1.00	943.24
Subtotal								12,758.49
Sales Tax Logan County							7.80%	754.86

USED FOR NEW WELLS

APPROVED JTK

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Thank You For Your Business &
Best Wishes For A Wonderful Holiday Season!!

Total \$13,513.35



Services, Inc.

CHARGE TO: MURKIN DRUG
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

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TICKET
 19267

PAGE 1 OF 2

SERVICE LOCATIONS: 14KS WELL/PROJECT NO.: 1-35 LEASE: Hulkman D COUNTY/PARISH: LOGAN STATE: KS CITY: _____
 1. NESS TICKET TYPE: SERVICE CONTRACTOR: _____ RIG NAME/NO.: _____ SHIPPED VIA: GT DELIVERED TO: _____ ORDER NO.: 19-2210 OWNER: _____
 2. _____ WELLS TYPE: _____ WELL CATEGORY: MURKIN DRUG 424 JOB PURPOSE: _____ WELL PERMIT NO.: _____
 3. _____ WELL TYPE: Oil WELL LOCATION: _____
 4. _____ INVOICE INSTRUCTIONS: _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
525					MILEAGE 4112	80	MI			5.00	400.00
578					FUNGUS SERVICE	1	EA			1400.00	1400.00
221					LABORANCE	4	HR			25.00	100.00
280					ELECTRICAL	500	GAH			2.50	1250.00
290					DAIR	2	LNK			35.00	70.00
402					CENTRALIZED	15	EA			55.00	825.00
404					BATTERY	2	EA			200.00	400.00
406					PORT CUM	1	EA			1900.00	1900.00
407					LATERAL FLOW ASSEMBLY	1	EA			225.00	225.00
413					TRUCK RENTALS 1/2 HOUR FRI	1	EA			275.00	275.00
415					ROCKHILL SCARPER	15	EA			40.00	600.00
					ROUTINE MAINT ROUTE	1	EA			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 Burch Deibel
 DATE SIGNED: 12-22-10 TIME SIGNED: 0800
 A.M. P.M.

REMIT PAYMENT TO:

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICES?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

SWIFT OPERATOR: Dave Ash APPROVAL: _____
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: _____ The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!

PAGE TOTAL	7595.00
SUB TOTAL	5163.49
TAX	75.48
TOTAL	5238.97



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 19267

CUSTOMER *Purpus Oil*

WELL *1-15, Williams*

DATE *12-22-20*

PAGE *2* OF *2*

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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	UM	QTY		
325		2				S20 E12 CMT	225	SY		12.00	2700.00
276		2				FLOCEL	56	LB		1.50	84.00
283		2				SALT	115	LB		.85	98.75
284		2				CASER	11	SY		30.00	330.00
285		2				CR-1	150	LB		4.00	600.00
581		1				SERVICE CHARGE	225	SY		1.50	337.50
583		2				DIYVAC	943.24	TM		1.00	943.24
						SERVICE CHARGE					
						MILEAGE CHARGE					
						TOTAL WEIGHT					
						LOADED MILES					
						CUBIC FEET					
						TON MILES					

CONTINUATION TOTAL *5,163.49*

JOB LOG

SWIFT Services, Inc.

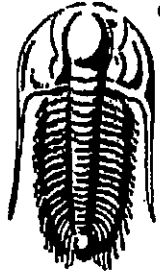
DATE 1-22-10 PAGE NO. 1

CUSTOMER MURPHY DRUG WELL NO. 1-35 LEASE HULLMAN D JOB TYPE LONGSTRING TICKET NO. 19267

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0800							ON LOCATION CMT 1 225 STD EA-2 RYD 4730, SET PIPE 4727 ST 21.50, INSIDE 4725 5 1/2 IS, 5 1/2 IN. PORT COLUMN ON TOP * 53, 2522 FT CENT 1-14, SA BASKET 52, 53, ROTARY SCRAMBLER 1500 JOINTS OUT 6 * 114, 115, 116, 117, 118, 119
	1015							START CS&O FLOAT EQV 1/2 WAY IN, 3/8 IN. CIRC 1115 TAG - DROP BALL
	1230							3/8 IN. CIRC BASKET P.R.
	1330		7.5					PLUG RH 30, MH 25
	1335		15		✓		200	KCL FLUSH
			12		✓			FROTHED 21 500 GAL
			5		✓			KCL FLUSH
	1350		43.5		✓			EA-2 CMT 180.50 DROPPED PLUG, WASHOUT PL
	1355	6.0	0		✓		200	START DISP w/ 20000 2 1/2 IN.
			69		✓		300	CMT ON BOTTOM
			95		-		500	
			100		-		700	
			105		-		800	
	1415	4.5	110		-		1500	LAND PLUG RELEASE - DRY
	1500							JOB COMPLETE THANK YOU! DAVE, JESAB, CAME

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KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

35-12s-32w Logan,KS

Kuhlman D #1-35

Start Date: 2010.12.17 @ 00:28:01

End Date: 2010.12.17 @ 08:25:01

Job Ticket #: 040550 DST #: 1

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APR 05 2011
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KCC WICHITA**

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

Murfin Drilling Co Inc

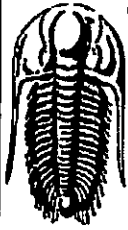
Kuhlman D #1-35

35-12s-32w Logan,KS

DST # 1

C

2010.12.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

Kuhlman D #1-35

35-12s-32w Logan,KS

Job Ticket: 040550 DST#: 1

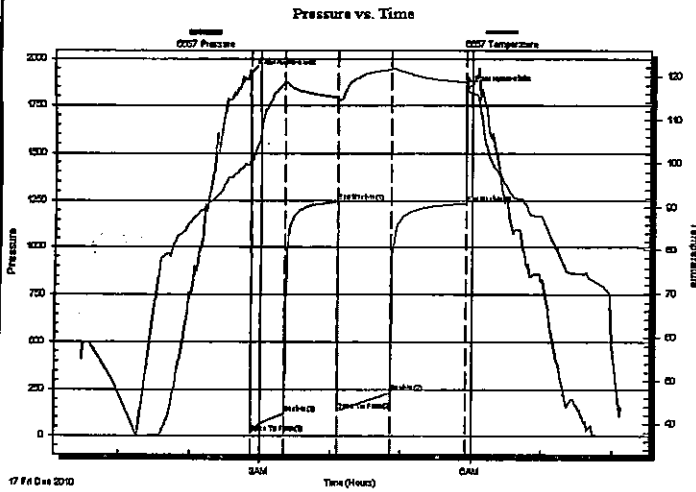
Test Start: 2010.12.17 @ 00:28:01

GENERAL INFORMATION:

Formation: C
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 02:51:31
 Time Test Ended: 08:25:01
 Interval: 4032.00 ft (KB) To 4056.00 ft (KB) (TVD)
 Total Depth: 4056.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40
 Reference Elevations: 2990.00 ft (KB)
 2985.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6667 Outside
 Press@RunDepth: 230.57 psig @ 4033.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.12.17 End Date: 2010.12.17 Last Calib.: 2010.12.17
 Start Time: 00:28:01 End Time: 08:09:01 Time On Btm: 2010.12.17 @ 02:51:16
 Time Off Btm: 2010.12.17 @ 05:55:16

TEST COMMENT: B.O.B. in 25 min.
 No return
 B.O.B. in 30 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.85	100.71	Initial Hydro-static
1	14.33	100.39	Open To Flow (1)
31	120.58	118.46	Shut-In(1)
75	1245.49	115.20	End Shut-In(1)
76	138.79	114.76	Open To Flow (2)
120	230.57	121.60	Shut-In(2)
184	1236.45	118.73	End Shut-In(2)
184	1838.08	118.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	water 100%w	3.11
90.00	m c w 20%m 80%w	1.26

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 040550

DST#: 1

ATTN: Jeff Christian

Test Start: 2010.12.17 @ 00:28:01

Tool Information

Drill Pipe:	Length: 3897.00 ft	Diameter: 3.80 inches	Volums: 54.66 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volums: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volums: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4032.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			4013.00	
Shut In Tool	5.00			4018.00	
Hydraulic tool	5.00			4023.00	
Packer	5.00			4028.00	20.00 Bottom Of Top Packer
Packer	4.00			4032.00	
Stubb	1.00			4033.00	
Recorder	0.00	6771	Inside	4033.00	
Recorder	0.00	6667	Outside	4033.00	
Perforations	18.00			4051.00	
Bulinose	5.00			4056.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 040550 DST#: 1

ATTN: Jeff Christian

Test Start: 2010.12.17 @ 00:28:01

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:	25500 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.14 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	water 100%w	3.106
90.00	m c w 20% m 80% w	1.262

Total Length: 390.00 ft Total Volume: 4.368 bbl

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

Laboratory Name: Laboratory Location:

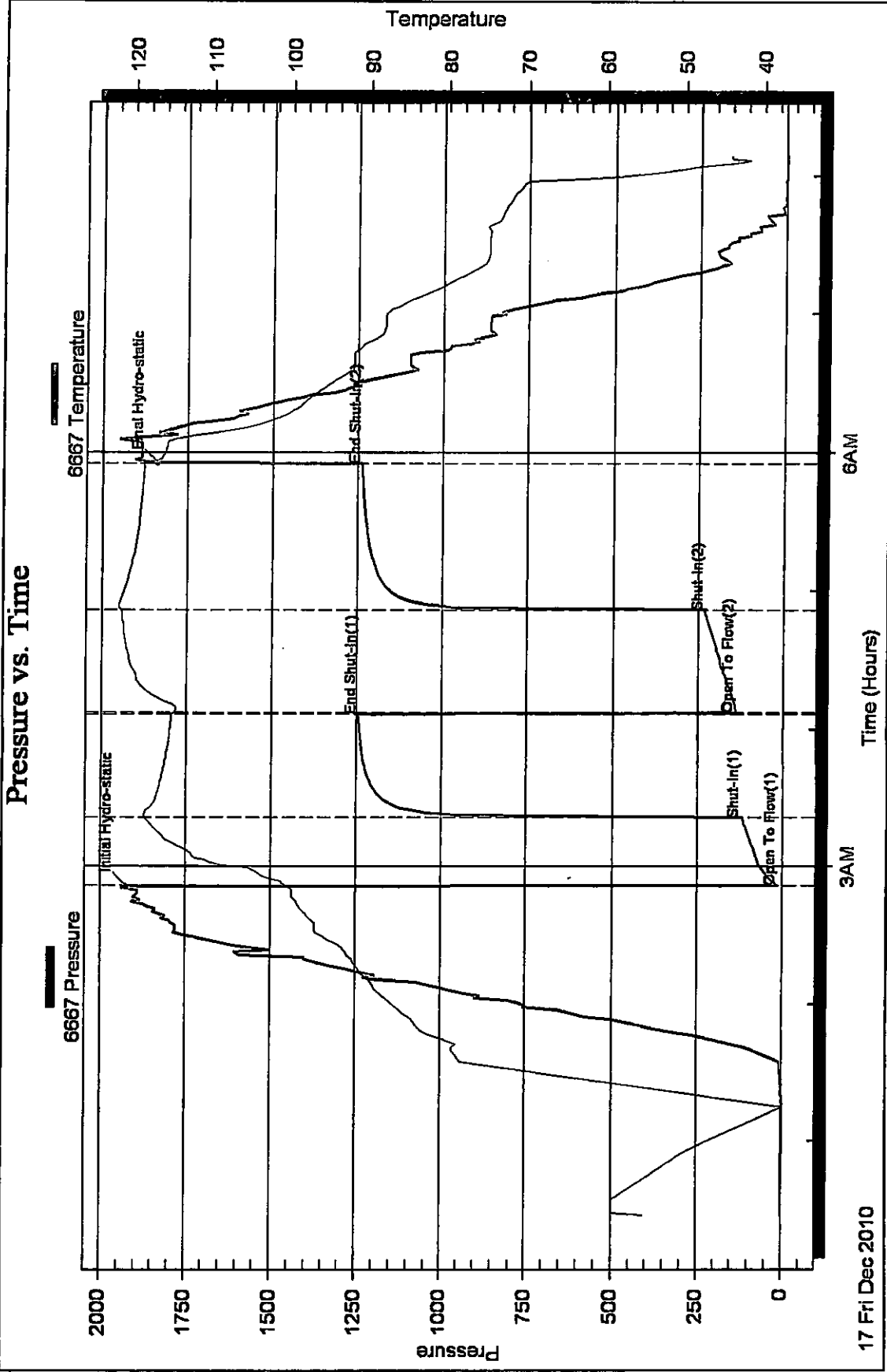
Recovery Comments: rw .358 @ 55' = 25,500 chlor

Serial #: 6667

Outside Murfin Drilling Co Inc

35-12s-32w Logan,KS

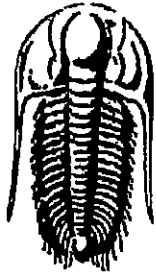
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 040550

Printed: 2010.12.29 @ 20:04:25 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

35-12s-32w Logan,KS

Kuhlman D #1-35

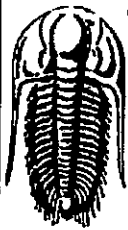
Start Date: 2010.12.17 @ 16:35:49

End Date: 2010.12.18 @ 01:20:19

Job Ticket #: 041126 DST #: 2

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

Kuhlman D #1-35

35-12s-32w Logan, KS

Job Ticket: 041126

DST#: 2

Test Start: 2010.12.17 @ 16:35:49

GENERAL INFORMATION:

Formation: E
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:32:04
 Time Test Ended: 01:20:19

Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40

Interval: 4072.00 ft (KB) To 4100.00 ft (KB) (TVD)
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2990.00 ft (KB)
 2985.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6667

Outside

Press@RunDepth: 124.09 psig @ 4073.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.12.17

End Date: 2010.12.18

Last Calib.: 2010.12.18

Start Time: 16:35:49

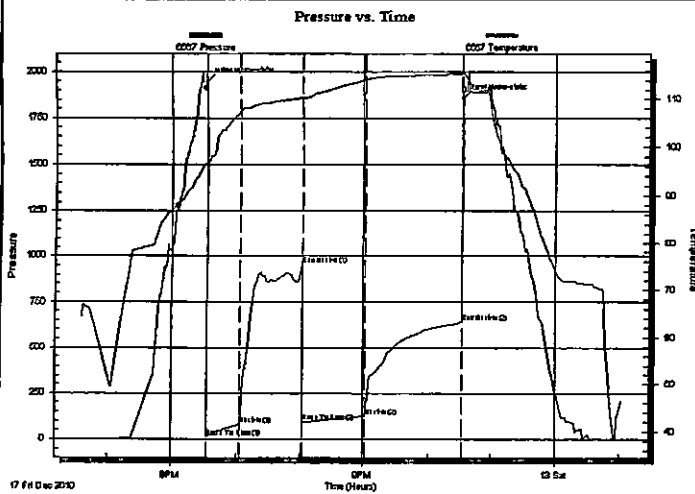
End Time: 01:02:19

Time On Btm: 2010.12.17 @ 18:31:49

Time Off Btm: 2010.12.17 @ 22:32:19

TEST COMMENT: 8" in blow
 Surface return in 10 min., died in 30 min.
 9" in blow
 1/4" in+ return blow, died in 40 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.81	96.94	Initial Hydro-static
1	13.20	96.30	Open To Flow (1)
31	80.18	107.45	Shut-In(1)
90	954.08	110.33	End Shut-In(1)
90	93.91	110.11	Open To Flow (2)
150	124.09	114.08	Shut-In(2)
241	639.39	115.35	End Shut-In(2)
241	1856.22	115.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
121.00	s m c w 10% m 90% w oil scum	0.60
90.00	s o & w c m 10% o 25% w 65% m trace of	0.72
60.00	c g o 5% g 95% o	0.84
0.00	150' weak gas in pipe	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

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041126

DST#: 2

ATTN: Jeff Christian

Test Start: 2010.12.17 @ 16:35:49

Tool Information

Drill Pipe:	Length: 3898.00 ft	Diameter: 3.80 inches	Volume: 54.68 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: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 55.57 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4072.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4053.00	
Shut In Tool	5.00			4058.00	
Hydraulic tool	5.00			4063.00	
Packer	5.00			4068.00	20.00 Bottom Of Top Packer
Packer	4.00			4072.00	
Stubb	1.00			4073.00	
Recorder	0.00	6771	Inside	4073.00	
Recorder	0.00	6667	Outside	4073.00	
Perforations	22.00			4095.00	
Bullnose	5.00			4100.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041126

DST#: 2

ATTN: Jeff Christian

Test Start: 2010.12.17 @ 16:35:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

31500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.14 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
121.00	s m c w 10% m 90% w oil scum	0.595
90.00	s o & w c m 10% o 25% w 65% m trace of gas	0.716
60.00	c g o 5% g 95% o	0.842
0.00	150' weak gas in pipe	0.000

Total Length: 271.00 ft

Total Volume: 2.153 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .292 @ 51'f = 31,500 chlor

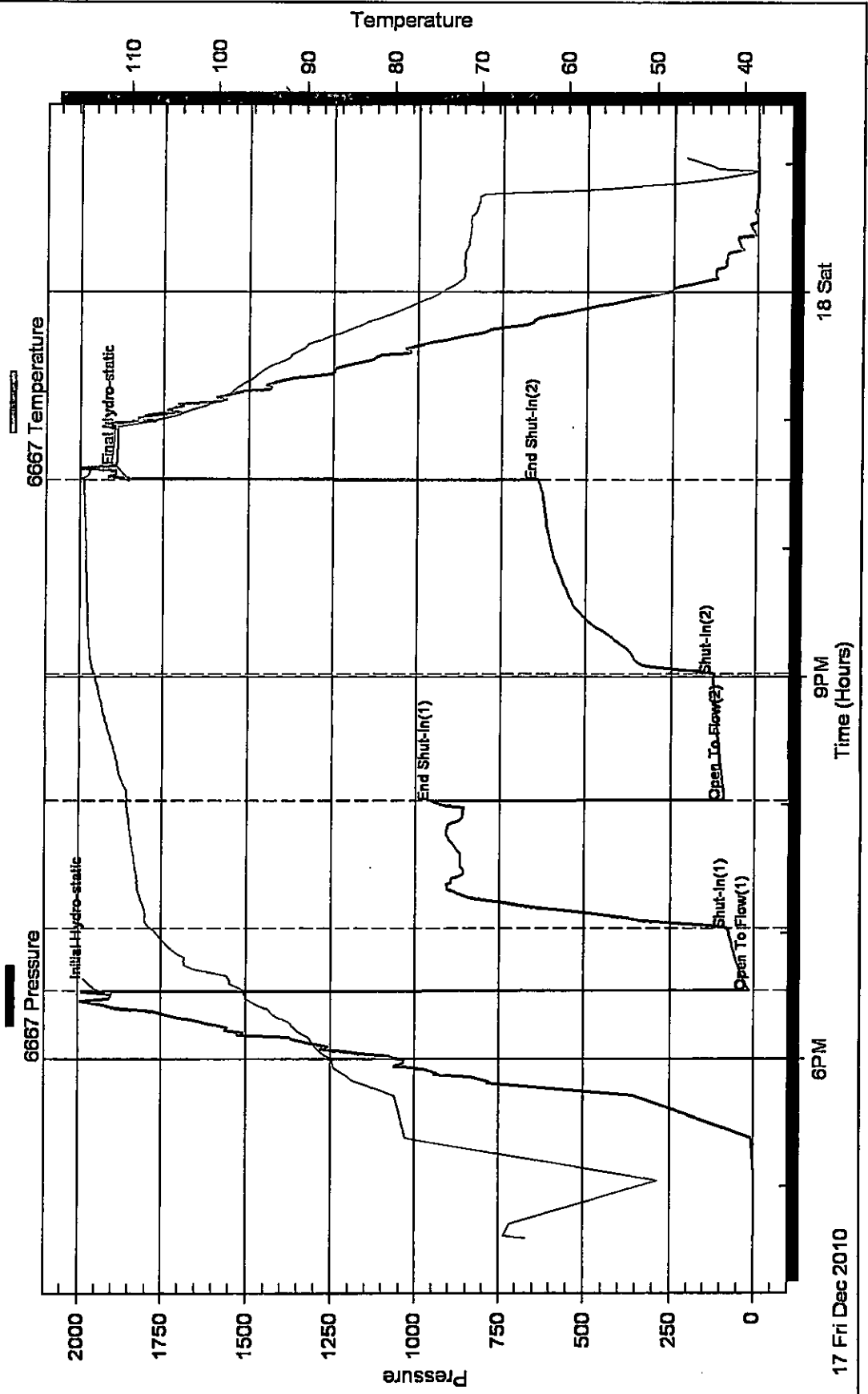
Serial #: 6667

Outside Murfin Drilling Co Inc

35-12s-32w Logan, KS

DST Test Number: 2

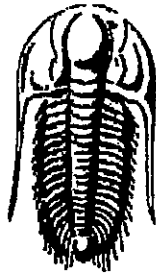
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 041126

Printed: 2010.12.29 @ 20:05:04 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

35-12s-32w Logan,KS

Kuhlman D #1-35

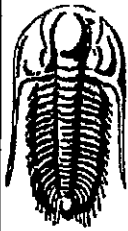
Start Date: 2010.12.18 @ 16:20:50

End Date: 2010.12.19 @ 00:37:50

Job Ticket #: 041127 DST #: 3

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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041127 DST#: 3

ATTN: Jeff Christian

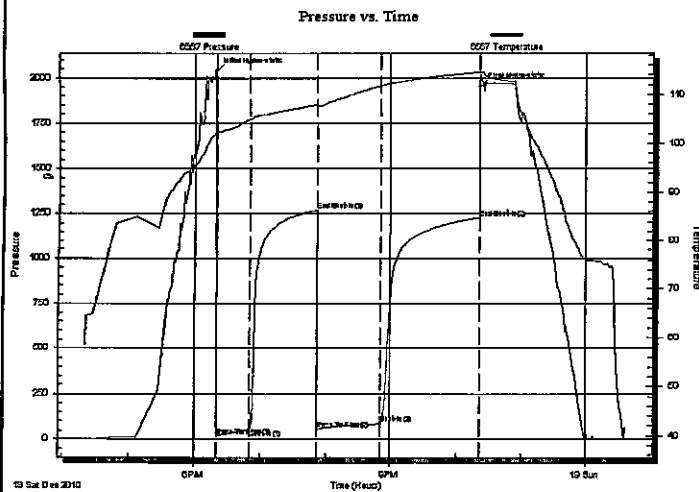
Test Start: 2010.12.18 @ 16:20:50

GENERAL INFORMATION:

Formation: I-J
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:19:50
 Time Test Ended: 00:37:50
 Interval: 4186.00 ft (KB) To 4232.00 ft (KB) (TVD)
 Total Depth: 4232.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40
 Reference Elevations: 2990.00 ft (KB)
 2985.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6667 Outside
 Press@RunDepth: 83.17 psig @ 4187.00 ft (KB)
 Start Date: 2010.12.18 End Date: 2010.12.19
 Start Time: 16:21:05 End Time: 00:37:50
 Capacity: 8000.00 psig
 Last Calib.: 2010.12.19
 Time On Btm: 2010.12.18 @ 18:19:35
 Time Off Btm: 2010.12.18 @ 22:21:50

TEST COMMENT: 3" in blow
 No return
 4" in blow
 No return



PRESSURE SUMMARY

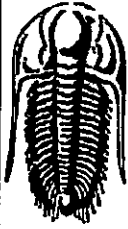
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2035.73	102.47	Initial Hydro-static
1	15.78	101.93	Open To Flow (1)
31	50.57	104.90	Shut-In(1)
92	1268.45	107.86	End Shut-In(1)
93	54.75	107.51	Open To Flow (2)
152	83.17	111.73	Shut-In(2)
242	1228.93	114.46	End Shut-In(2)
243	1952.25	114.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
148.00	o & w c m 5% o 30% w 65% m	0.97
3.00	c o 100% o	0.04

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041127

DST#: 3

ATTN: Jeff Christian

Test Start: 2010.12.18 @ 16:20:50

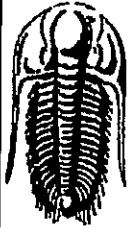
Tool Information

Drill Pipe:	Length: 4053.00 ft	Diameter: 3.80 inches	Volume: 56.85 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4186.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4167.00	
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00			4177.00	
Packer	5.00			4182.00	20.00 Bottom Of Top Packer
Packer	4.00			4186.00	
Stubb	1.00			4187.00	
Recorder	0.00	6771	Inside	4187.00	
Recorder	0.00	6667	Outside	4187.00	
Perforations	7.00			4194.00	
Change Over Sub	1.00			4195.00	
Drill Pipe	31.00			4226.00	
Change Over Sub	1.00			4227.00	
Bullnose	5.00			4232.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041127

DST#: 3

ATTN: Jeff Christian

Test Start: 2010.12.18 @ 16:20:50

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:

26000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
148.00	o & w c m 5%o 30%w 65%m	0.974
3.00	c o 100%o	0.042

Total Length: 151.00 ft

Total Volume: 1.016 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .399 @ 45*f = 26,000 chlor

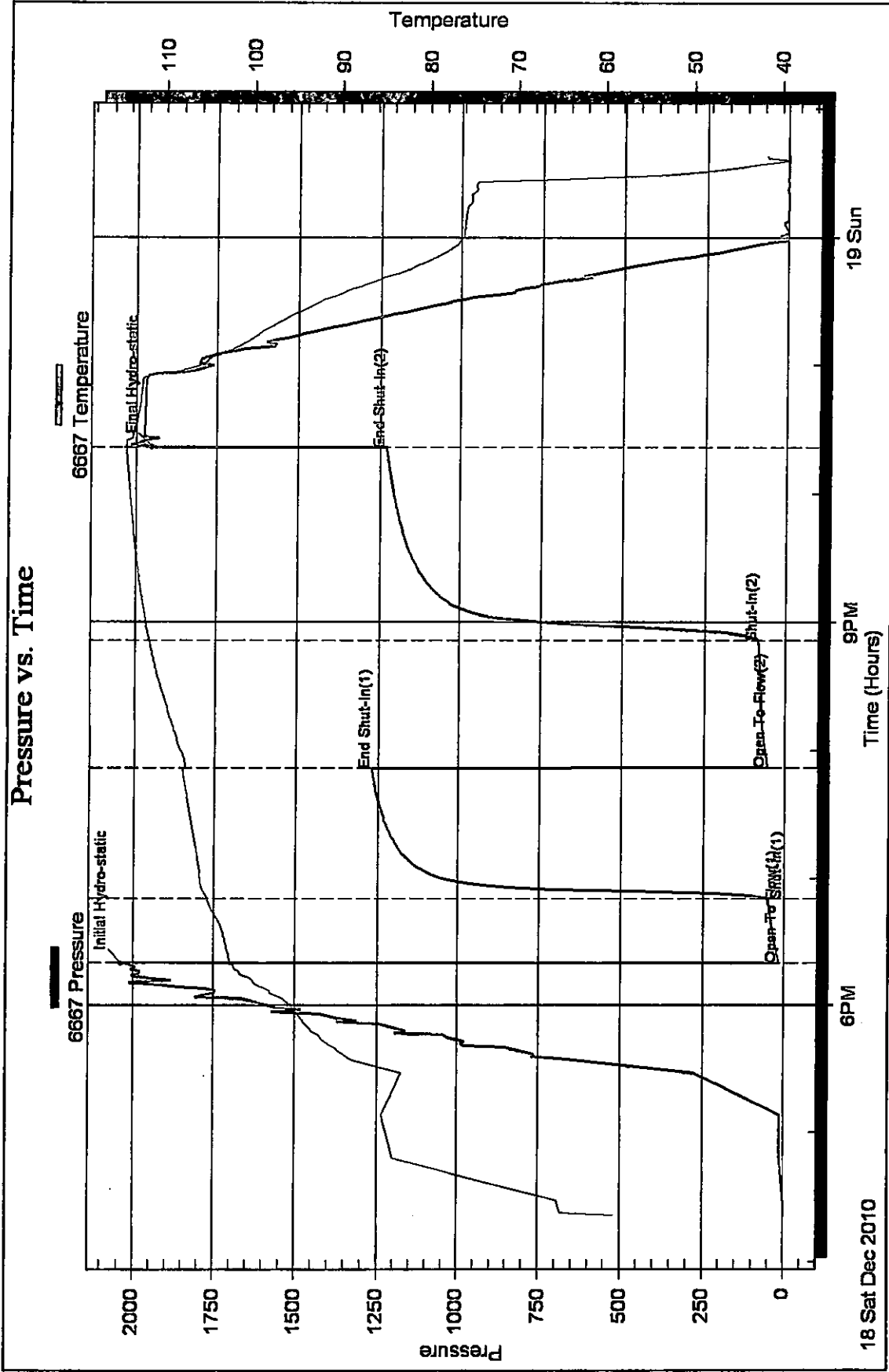
Serial #: 6667

Outside Murrin Drilling Co Inc

35-12s-32w Logan, KS

DST Test Number: 3

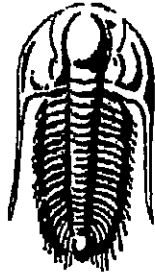
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 041127

Printed: 2010.12.29 @ 20:05:53 Page 5



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

35-12s-32w Logan,KS

Kuhlman D #1-35

Start Date: 2010.12.19 @ 08:55:56

End Date: 2010.12.19 @ 16:30:56

Job Ticket #: 041128 DST #: 4

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

Kuhlman D #1-35

35-12s-32w Logan,KS

Job Ticket: 041128 DST#: 4

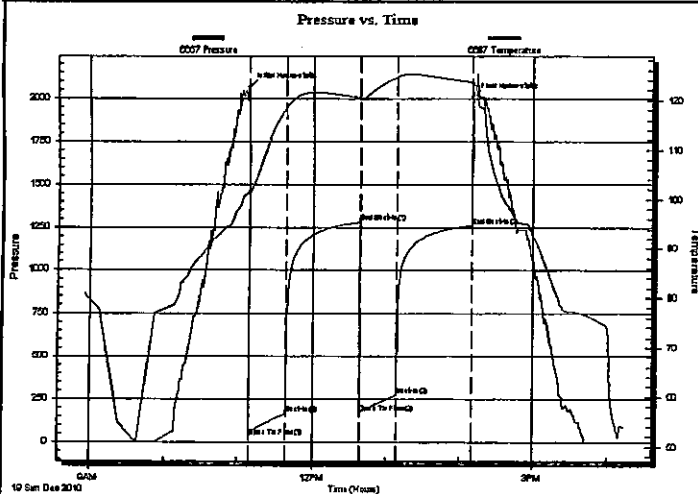
Test Start: 2010.12.19 @ 08:55:56

GENERAL INFORMATION:

Formation: K
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 11:08:56
 Time Test Ended: 16:30:56
 Interval: 4236.00 ft (KB) To 4270.00 ft (KB) (TVD)
 Total Depth: 4270.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Shane McBride
 Unit No: 40
 Reference Elevations: 2990.00 ft (KB)
 2985.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6667 Outside
 Press@RunDepth: 272.76 psig @ 4237.00 ft (KB)
 Start Date: 2010.12.19 End Date: 2010.12.19
 Start Time: 08:55:56 End Time: 16:14:56
 Capacity: 8000.00 psig
 Last Calib.: 2010.12.19
 Time On Btm: 2010.12.19 @ 11:08:41
 Time Off Btm: 2010.12.19 @ 14:10:56

TEST COMMENT: B.O.B. in 11 1/2 min.
 No return
 B.O.B. in 15 1/2 min.
 1/8" in return blow



PRESSURE SUMMARY

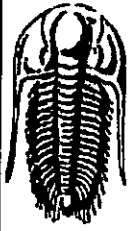
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2067.90	101.90	Initial Hydro-static
1	33.95	101.49	Open To Flow (1)
30	167.19	118.38	Shut-In(1)
90	1283.74	120.55	End Shut-In(1)
90	175.11	120.20	Open To Flow (2)
120	272.76	124.49	Shut-In(2)
182	1264.21	123.61	End Shut-In(2)
183	2012.16	123.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
481.00	s m c w 5% m 95% w	5.64
57.00	s o & m c w 3% o 30% m 67% w	0.80
3.00	c o 100% o	0.04
0.00	60' weak gas in pipe	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

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041128

DST#: 4

ATTN: Jeff Christian

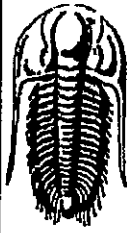
Test Start: 2010.12.19 @ 08:55:56

Tool Information

Drill Pipe:	Length: 4117.00 ft	Diameter: 3.80 inches	Volume: 57.75 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4236.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 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			4217.00	
Shut In Tool	5.00			4222.00	
Hydraulic tool	5.00			4227.00	
Packer	5.00			4232.00	20.00 Bottom Of Top Packer
Packer	4.00			4236.00	
Stubb	1.00			4237.00	
Recorder	0.00	6771	Inside	4237.00	
Recorder	0.00	6667	Outside	4237.00	
Perforations	28.00			4265.00	
Bullnose	5.00			4270.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041128 DST#: 4

ATTN: Jeff Christian

Test Start: 2010.12.19 @ 08:55:56

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 5.98 in⁹
Resistivity: 0.00 ohm.m
Salinity: 2200.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 0 deg API
Water Salinity: 38000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
481.00	s m c w 5% m 95% w	5.645
57.00	s o & m c w 3% o 30% m 67% w	0.800
3.00	c o 100% o	0.042
0.00	60' weak gas in pipe	0.000

Total Length: 541.00 ft Total Volume: 6.487 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw .260 @ 53*f = 38,000 chlor

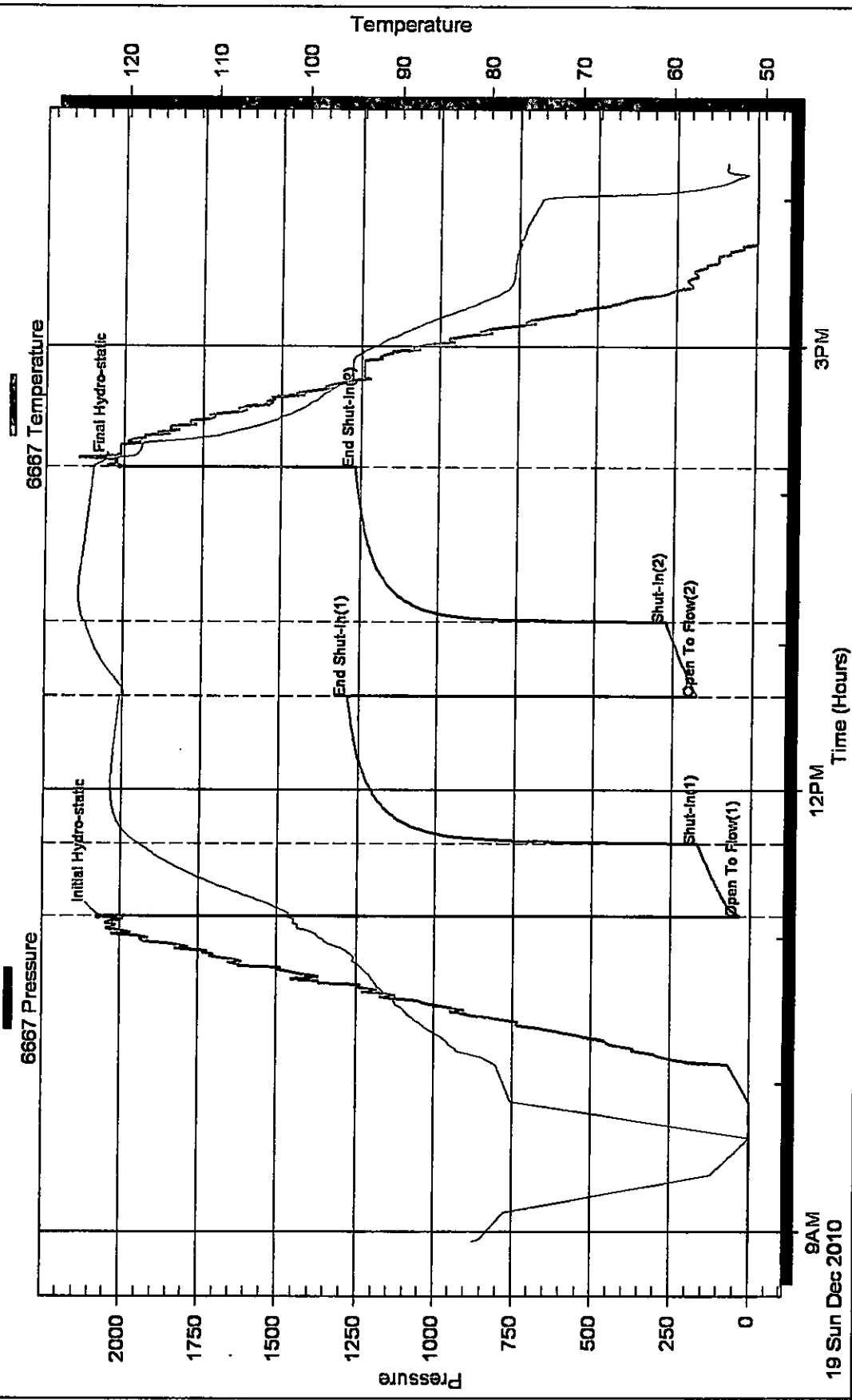
Serial #: 6667

Outside Murrin Drilling Co Inc

35-12s-32w Logan,KS

DST Test Number: 4

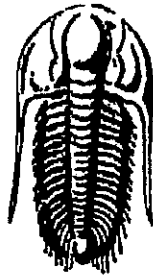
Pressure vs. Time



Tribotite Testing, Inc

Ref. No: 041128

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

35-12s-32w Logan,KS

Kuhlman D #1-35

Start Date: 2010.12.20 @ 19:00:17

End Date: 2010.12.21 @ 04:25:32

Job Ticket #: 041129 DST #: 5

RECEIVED
APR 06 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

250 N Water Ste300
Wichita, KS 67202

ATTN: Jeff Christian

Kuhlman D #1-35

35-12s-32w Logan,KS

Job Ticket: 041129

DST#: 5

Test Start: 2010.12.20 @ 19:00:17

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:55:17

Time Test Ended: 04:25:32

Test Type: Conventional Bottom Hole

Tester: Shane McBride

Unit No: 40

Interval: 4546.00 ft (KB) To 4590.00 ft (KB) (TVD)

Total Depth: 4590.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2990.00 ft (KB)

2985.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6667

Outside

Press@RunDepth: 236.34 psig @ 4547.00 ft (KB)

Start Date: 2010.12.20

End Date:

2010.12.21

Start Time: 19:00:17

End Time:

04:07:32

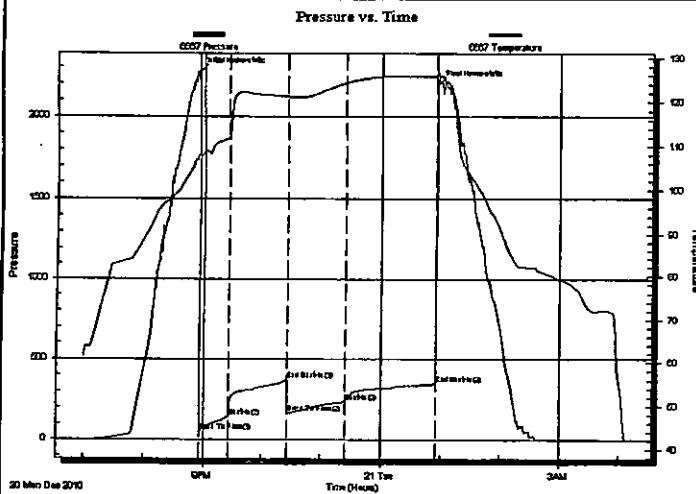
Capacity: 8000.00 psig

Last Calib.: 2010.12.21

Time On Btm: 2010.12.20 @ 20:55:02

Time Off Btm: 2010.12.21 @ 00:56:32

TEST COMMENT: B.O.B. in 4 min.
B.O.B. in 17 min. (return)
B.O.B. @ open
B.O.B. in 40 min. (return)



PRESSURE SUMMARY

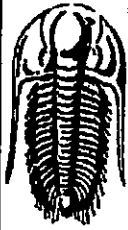
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.22	108.49	Initial Hydro-static
1	53.66	107.93	Open To Flow (1)
31	144.00	111.97	Shut-In(1)
91	370.89	121.42	End Shut-In(1)
91	165.28	121.28	Open To Flow (2)
150	236.34	124.43	Shut-In(2)
241	350.89	125.73	End Shut-In(2)
242	2192.68	126.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	g o c m 25%g 30%o 45%m	0.30
90.00	g m c o 20%g 30%m 50%o	0.71
420.00	c g o 20%g 80%o	5.89
0.00	1410' gas in pipe	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Kuhlman D #1-35

250 N Water Ste300
Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041129

DST#: 5

ATTN: Jeff Christian

Test Start: 2010.12.20 @ 19:00:17

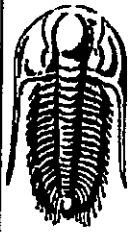
Tool Information

Drill Pipe:	Length: 4428.00 ft	Diameter: 3.80 inches	Volume: 62.11 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 62.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4546.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 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			4527.00	
Shut In Tool	5.00			4532.00	
Hydraulic tool	5.00			4537.00	
Packer	5.00			4542.00	20.00 Bottom Of Top Packer
Packer	4.00			4546.00	
Stubb	1.00			4547.00	
Recorder	0.00	6771	Inside	4547.00	
Recorder	0.00	6667	Outside	4547.00	
Perforations	5.00			4552.00	
Change Over Sub	1.00			4553.00	
Drill Pipe	31.00			4584.00	
Change Over Sub	1.00			4585.00	
Bullnose	5.00			4590.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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Wichita, KS 67202

35-12s-32w Logan,KS

Job Ticket: 041129

DST#: 5

ATTN: Jeff Christian

Test Start: 2010.12.20 @ 19:00:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	g o c m 25%g 30%o 45%m	0.295
90.00	g m c o 20%g 30%m 50%o	0.707
420.00	c g o 20%g 80%o	5.891
0.00	1410' gas in pipe	0.000

Total Length: 570.00 ft

Total Volume: 6.893 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

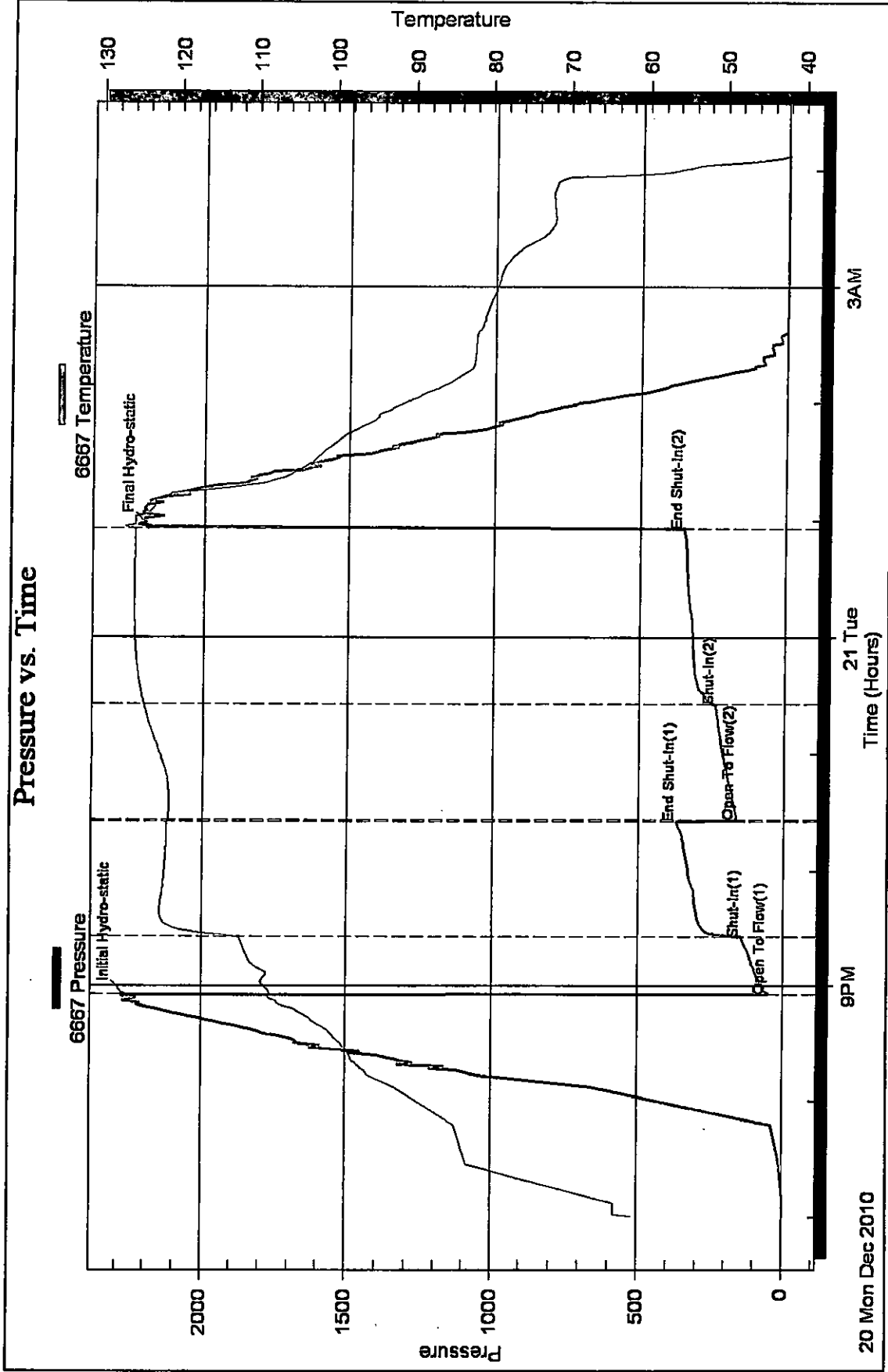
Serial #: 6667

Outside Murrfin Drilling Co Inc

35-12s-32w Logan, KS

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 041129

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