

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**

OPERATOR: License # 30606  
Name: Murfin Drilling Company  
Address 1: 250 N Water, Suite 300  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67202 + \_\_\_\_\_  
Contact Person: Leon Rodak  
Phone: (315) 267-3241  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Company  
Wellsite Geologist: Brad Rine  
Purchaser: MV Purchasing

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

<u>03/16/2007</u>	<u>03/23/2007</u>	<u>04/24/2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 163-23591-0000

Spot Description: \_\_\_\_\_  
S2\_NW\_SW\_NE Sec. 5 Twp. 9 S. R. 18  East  West  
1740 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Rooks  
Lease Name: Gertrude Well #: 1-5  
Field Name: Wildcat

Producing Formation: LKC, Arbuckle  
Elevation: Ground: 2055 Kelly Bushing: 2060  
Total Depth: 3575 Plug Back Total Depth: 3553  
Amount of Surface Pipe Set and Cemented at: 208 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1477 Feet  
If Alternate II completion, cement circulated from: 1477  
feet depth to: surface w/ 100 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: *Richard Heibel*  
Title: Production Assistant Date: 05/03/2011

**KCC Office Use ONLY**

Letter of Confidentiality Received    **RECEIVED**  
Date: \_\_\_\_\_  
 Confidential Release Date: MAY 05 2011  
 Wireline Log Received  
 Geologist Report Received    **KCC WICHITA**  
 UIC Distribution  
ALT  I  II  III Approved by: DJG Date: 5/9/11

Operator Name: Murfin Drilling Company Lease Name: Gertrude Well #: 1-5  
 Sec. 5 Twp. 9 S. R. 18  East  West County: Rooks

**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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction, Dual Compensated and Microresistivity</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum  See Attached
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface		8 5/8	24	208	Common	150	
Production		5 1/2	15.5	3574	EA2	150	10% salt-5% calseal

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	3316 - 3322 LKC "G"	250 gal 15% MCA, 500 gal 15% DSFE	
4	3470 - 3480 Arbuckle	500 gal 15% MCA, 250 gal 15% NEFE	

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3521</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	RECEIVED MAY 05 2011 KCC WICHITA
Date of First, Resumed Production, SWD or ENHR: <u>05/10/2007</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>47</u>	Gas Mcf	Water Bbls. <u>1</u>	Gas-Oil Ratio	Gravity <u>35.5</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>3316 - 3480</u>
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Gertrude #1-5  
 2310 FEL 1740 FNL  
 Sec. 5-T9S-R18W  
 2060' KB

Mosher Farms #1-4  
 1770 FNL 500 FWL  
 Sec. 4-T9S-R18W  
 2021' KB

Formations	Sample Tops	Datum	Ref	Log Tops	Datum	Ref	Log Tops	Datum
Anhydrite	1445	+615	-4	1444	+616	-3	1402	+619
B/Anhydrite	1485	+575	-8	1484	+576	-7	1438	+583
Topeka	2980	-920	+3	2975	-915	+8	2944	-923
Heebner	3182	-1122	+10	3180	-1120	+12	3153	-1132
Toronto	3202	-1142	+11	3203	-1143	+10	3174	-1153
Lansing	3224	-1164	+9	3220	-1160	+13	3194	-1173
BKC	3442	-1382	+7	3439	-1379	+10	3410	-1389
Arbuckle	3475	-1413	+24	3468	-1408	+29	3458	-1437
TD	3575			3575			3548	

RECEIVED  
 MAY 05 2011  
 KCC WICHITA

Allied Cementing Co., Inc  
 P.O. Box 31

Russell, KS 67665

4-1907 *file acct*  
 \*\*\*\*\*  
 \* I N V O I C E \*  
 \*\*\*\*\*

Invoice Number: 107014

Invoice Date: 03/22/07

Sold Murfin Drilling Co.  
 To: 250 N. Water, St. #300  
 Wichita, KS  
 67202

COPY

Cust I.D.....: Murfin  
 P.O. Number...: Gertrude 1-5  
 P.O. Date....: 03/22/07

Due Date.: 04/21/07  
 Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	150.00	SKS	10.6500	1597.50	T
Gel	3.00	SKS	16.6500	49.95	T
Chloride	5.00	SKS	46.6000	233.00	T
Handling	158.00	SKS	1.9000	300.20	E
Mileage	55.00	MILE	14.2200	782.10	E
158 sks @.09 per sk per mi					
Surface	1.00	JOB	815.0000	815.00	E
Mileage pmp trk	55.00	MILE	6.0000	330.00	E
Plug	1.00	EACH	60.0000	60.00	T

All Prices Are Net, Payable 30 Days Following  
 Date of Invoice. 1 1/2% Charged Thereafter.  
 If Account CURRENT take Discount of 416.77  
 ONLY if paid within 30 days from Invoice Date

Subtotal: 4167.75  
 Tax.....: 102.84  
 Payments: 0.00  
 Total....: 4270.59

416.77

3853.82

Account	Unit	W	No.	Amount	Description
	Rig	L			
03600	008	W	2801	4270.59	Cement S. Co.
				(416.77)	

RECEIVED  
 MAY 05 2011  
 WCC WICHITA

# ALLIED CEMENTING CO., INC.

32885

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

SERVICE POINT:

Russell

DATE <u>3-16-07</u>	SEC. <u>5</u>	TWP. <u>9</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00</u>	JOB FINISH <u>6:45PM</u>
LEASEE <u>Gertrude</u>		WELL # <u>1-5</u>		LOCATION <u>Plainville W. To RD 14</u>		COUNTY <u>ROCKS</u>	STATE <u>KANSAS</u>
OLD OR <u>NEW</u> (Circle one)		LOCATION <u>5 N 1/2 E 1/2 SE INTO</u>					

CONTRACTOR MURFIN Rig #8

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 208

CASING SIZE 8 3/8 New DEPTH 200

TUBING SIZE 2 3/8 DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12 1/4 / 86L

OWNER

CEMENT

AMOUNT ORDERED 150 SK Comm

2% GEL

3% CC

COMMON	<u>150</u>	@	<u>10.5</u>	<u>1597.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>1665</u>	<u>4995</u>
CHLORIDE	<u>5</u>	@	<u>4650</u>	<u>233.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>150</u>	@	<u>1.90</u>	<u>300.20</u>
MILEAGE	<u>55</u>			<u>782.50</u>
				<u>2962.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER Glenn

# 390 HELPER GARY

BULK TRUCK

# 345 DRIVER Doug

BULK TRUCK

# DRIVER

REMARKS:

Cement Circulated

THANKS

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 815.00

EXTRA FOOTAGE @

MILEAGE 55 @ 6.00 330.00

MANIFOLD @

TOTAL 1145.00

PLUG & FLOAT EQUIPMENT

8 5/8 Wiper Plug 60.00

@

@

@

@

TOTAL 60.00

CHARGE TO: MURFIN Drilling Co.

STREET

CITY STATE ZIP

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Larry Pickner

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

LARRY PICKNER  
PRINTED NAME

RECEIVED  
MAY 05 2011  
KCC WICHITA



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



# Invoice

DATE	INVOICE #
4/17/2007	11905

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130
USED FOR
APPROVED

- Acidizing
- Cement

USED FOR NEWELL  
APPROVED J. Sals Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-5	Gertrude	Rooks	Company Tools	Oil	Development	Cement Port Collar	Roger
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	4.00	160.00
578D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
581D	Service Charge Cement				175	Sacks	1.10	192.50
583D	Drayage				348	Ton Miles	1.00	348.00
330	Swift Multi-Density Standard (MIDCON II)				100	Sacks	14.00	1,400.00T
276	Flocele				44	Lb(s)	1.25	55.00T
	Subtotal							3,405.50
	Sales Tax Rooks County						5.30%	77.12

Account	Unit Rig	W L	No.	Amount	Description
03601	000	L	2695A	3482.62	Cement port collar

**We Appreciate Your Business!**

**Total RECEIVED \$3,482.62**

MAY 05 2011

KCC WICHITA



TICKET

Nº 11905

PAGE 1 OF 1

CHARGE TO: Murfin Drilling Co  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

LOCATIONS 4-12 WELL/PROJECT NO. 1-5 LEASE Gertrude COUNTY/PARISH Rooks STATE Ks. CITY \_\_\_\_\_ DATE 4-17-07 OWNER Same  
 TICKET TYPE  SERVICE  SALES CONTRACTOR Co. Tools RIG NAME/NO. \_\_\_\_\_ SHIPPED VIA CIT DELIVERED TO Loc. ORDER NO. \_\_\_\_\_  
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cont. Port Collar WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION \_\_\_\_\_

RECEIVED  
MAY 05 2011

KCC WICHITA

RICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			U/M			
						40	mil	4	160	00
75		1			MILEAGE #106	1	ca	1250	1250	00
78		1			Pump Service					
		1						1	192	50
31		1			Service Charge	175	sk	1	348	00
83		1			Drayage	348	Ton miles	1	1400	00
30		1			S.M.D.C.	100	sk	1	55	00
76		1			Flocele	44	#			

**AL TERMS:** Customer hereby acknowledges and agrees to terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and TED WARRANTY** provisions.  
 BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO DELIVERY OF WORK OR DELIVERY OF GOODS  
 SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  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	3470 3405
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?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	3482.62

Rooks TAX 5.3% 77.12

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

Thank You!

OPERATOR Don B. Helsted APPROVAL John Helsted



CHARGE TO: Murfin Dalg. Co  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET No 11905  
 PAGE 1 OF 1

RECEIVED  
 MAY 05 2011  
 KCC WICHITA

LOCATIONS 1-5 WELL/PROJECT NO. 1-5 LEASE Gertrude COUNTY/PARISH Rooks STATE Ks. CITY \_\_\_\_\_ DATE 4-17-07 OWNER Same  
 TICKET TYPE  SERVICE  SALES CONTRACTOR Co. Tools RIG NAME/NO. \_\_\_\_\_ SHIPPED VIA CIT DELIVERED TO Loc. ORDER NO. \_\_\_\_\_  
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cont. Port Collar WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION \_\_\_\_\_

RICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
					MILEAGE #106	40	mi			4.00	160	.00
75		1				1	ca			1250.00	1250	.00
78		1			Pump Service							
		1								1.50	192	.50
81		1			Service Charge	175	sk			1.00	348	.00
83		1			Drayage	348	TON	mi		14.00	1400	.00
30		1			S.M.D.C.	100	sk			1.25	55	.00
76		1			Flocele	44	#					

**TERMS:** Customer hereby acknowledges and agrees to terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.  
 TO BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO DELIVERY OF WORK OR DELIVERY OF GOODS  
 SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  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	3410.50
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	3482.62

Rooks TAX 5.3% 77.12

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

OPERATOR Kevin B. Helbert

APPROVAL John Helbert

Thank You!



# SWIFT



Services, Inc.

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



## Invoice

DATE	INVOICE #
3/23/2007	11281

BILL TO
Murfin Drilling Co Inc P. O. Box 130 Hill City, KS 67642-0130
USED FOR <u>NEW WELL</u>
APPROVED <u>[Signature]</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-5	Gertrude	Rooks	Murfin Drilling Ri...	Oil	Development	LongString	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	40	Miles	4.00	160.00
578D-L	Pump Charge (Long String)	1	Job	1,250.00	1,250.00
281	Mud Flush	500	Gallon(s)	0.75	375.00T
290	D-Air	1	Gallon(s)	32.00	32.00T
402-5	5 1/2" Centralizer	10	Each	80.00	800.00T
403-5	5 1/2" Cement Basket	1	Each	280.00	280.00T
404-5	5 1/2" Port Collar	1	Each	2,300.00	2,300.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	235.00	235.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	310.00	310.00T
413-5	5 1/2" Roto Wall Scratcher	20	Each	35.00	700.00T
419-5	5 1/2" Rotating Head Rental	1	Each	250.00	250.00T
325	Standard Cement	175	Sacks	11.50	2,012.50T
276	Flocele	44	Lb(s)	1.25	55.00T
283	Salt	900	Lb(s)	0.20	180.00T
284	Calseal	8	Sack(s)	30.00	240.00T
285	CFR-1	82	Lb(s)	4.00	328.00T
581D	Service Charge Cement	175	Sacks	1.10	192.50
583D	Drayage	456.9	Ton Miles	1.00	456.90
Subtotal					10,156.90
Sales Tax Rooks County				5.30%	429.17

Account	Unit	W	No.	Amount	Description
	Rig	L			
03601	000	L	2695A	10 586.07	Cement prod req

Thank You For Your Business!	Total	\$10,586.07
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MAY 05 2011  
KCC WICHITA

JOB LOG

SWIFT Services, Inc.

DATE 03-23-07 PAGE NO. 1

CUSTOMER MURFIN DRUG WELL NO. 1-5 LEASE GERTRUDE JOB TYPE LONGSTRIKES TICKET NO. 11281

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1600							ON LOCATION, DISCUSS JOB
								175 SKS EA-2 CMT
								5 1/2 15.5 1/4 CS6 NEW PORT COLLAR OUTOP* 50, H82
								CENT 1, 2, 3, 4, 5, 7, 9, 14, 20, 57, BARET 50
								TD 3575, SET 3574, SS 15.35, ZIGLITE 3556
	1700							TRUCKS ON LOCATION
	1650							START CS6 & FLOATED U
	1835							TAG BOTTOM
	1840							DROP BALL
	1845							HOOBUP
	1845							BREAK CIRC & ROTATE PIPE
	1940		3					PLUG RH
	1945	5.0	3.0		✓		200	ST. FLUSH H2O
			12.0		-			ST. MUD FLUSH SOCKETS
			3.0		-			ST. FLUSH H2O
		5.0	0		-		200	ST. EA-2 CMT
			42		-			END CMT
								WASH OUT PL
								DROP PLUG
	2005	6.0	0		✓		100	ST. DISP w/H2O
		6.0	45		✓		200	CMT ON BOTTOM
		6.0	60		✓		400	
		6.0	70		✓		500	
		6.0	75		-		675	
		6.0	80		✓		900	
	2020	6.0	84.5		-		1500	LAND PLUG
	2025							RELEASE - DRY
								WASH UP
								BACKUP
								TICKETS
	2100							JOB COMPLETE

RECEIVED  
MAY 05 2011

KCC WICHITA

THANK YOU!  
DAVE, BEAUNE, RYAN



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

TICKET CONTINUATION

TICKET No. 11281

CUSTOMER MURPHY DRUG WELL 1-5 GERTRUDE DATE 03-23-07 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		UM	UNIT PRICE	AMOUNT	
		LOC	ACCT	DR			QTY	UM				
325		2				EA-2 CMT	175	SK		11.50	2012	50
276		2				FLOCECE	44	LB		1.25	55	00
283		2				SALT	900	LB		1.20	180	00
284		2				CALSEAL	8	SK		30.00	240	00
285		2				CFR	82	LB		4.00	328	00
?1		2				SERVICE CHG CMT	175	SK		1.10	192	50
583		2				DRAYAGE	4569	Tm		1.00	456	90
						SERVICE CHARGE				CUBIC FEET		
						MISFEAR CHARGE	TOTAL WEIGHT		LOADED MILES	TON MILES		

RECEIVED  
MAY 05 2011  
KCC WICHITA



CHARGE TO: MURFIN DRUG  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

RECEIVED  
 MAY 05 2011  
 KCC WICHITA

TICKET  
 No 11281  
 PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>HAYS</u>	WELL/PROJECT NO. <u>1-5</u>	LEASE <u>GERTRUDE</u>	COUNTY/PARISH <u>Rooks</u>	STATE <u>KS</u>	CITY	DATE <u>03-23-07</u>	OWNER
2. <u>NESS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <u>MURFINDRUG RIG 8</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>3/20, 5/1, 1/2, Sinto PLAINVILLE KS</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Develop</u>	JOB PURPOSE <u>LONG STRING</u>	WELL PERMIT NO. <u>15-163-23591</u>	WELL LOCATION <u>SS, 78, R18u</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF			U/M			
575		1			MILEAGE #105	40	MI		4.00	160.00
578		1			PUMP SERVICE	1	EA		1250.00	1250.00
281		1			MUD FLUSH	500	GAL		175	375.00
290		1			D-AIR	1	GAL		32.00	32.00
402		1			CENTRALIZER	10	EA	5 1/2 in	80.00	800.00
403		1			CMT BASKET	1	EA	5 1/2 in	280.00	280.00
404		1			PORT COLLAR @ 1482 FT	1	EA	5 1/2 in	2300.00	2300.00
406		1			LATCH DOWN PLUG BOFFEE	1	EA	5 1/2 in	235.00	235.00
407		1			INSERT FLOAT SMOKE 1/4 AUTO FLOW	1	EA	5 1/2 in	310.00	310.00
413		1			ROTO WASH SCRATCHERS 100 FT	20	EA		35.00	700.00
419		1			ROTATING HEAD RENTAL	1	EA	5 1/2 in	250.00	250.00

**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.  
 DATE SIGNED 03-23-07 TIME SIGNED 1600  A.M.  P.M.

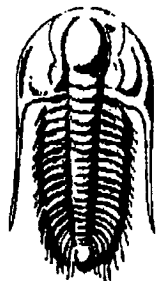
REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	Pg-1 PAGE TOTAL	6692.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				Pg-2	3464.90
WE UNDERSTOOD AND MET YOUR NEEDS?				sub	
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TOTAL	10156.90
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Rooks TAX 5.3%	429.17
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	10,586.07
<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 DAVEASH APPROVAL Wade King

Thank You!



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**5 9S 18W Rooks KS**

**Gertrude # 1-5**

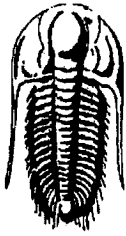
Start Date: 2007.03.19 @ 16:03:49

End Date: 2007.03.20 @ 00:21:19

Job Ticket #: 27547                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

RECEIVED  
MAY 05 2011  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling CO Inc

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27547

DST#: 1

Test Start: 2007.03.19 @ 16:03:49

## GENERAL INFORMATION:

Formation: **Tor.-L.Kc.-A,B,C.D.**

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

Time Tool Opened: 18:10:19

Time Test Ended: 00:21:19

Test Type: **Conventional Bottom Hole**

Tester: **John Schmidt**

Unit No: **31**

Interval: **3178.00 ft (KB) To 3285.00 ft (KB) (TVD)**

Total Depth: **3285.00 ft (KB) (TVD)**

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

Reference Elevations: **2062.00 ft (KB)**

**2057.00 ft (CF)**

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

Serial #: **6669** Inside

Press@RunDepth: **101.15 psig @ 3181.00 ft (KB)**

Start Date: **2007.03.19**

End Date: **2007.03.20**

Capacity: **7000.00 psig**

Last Calib.: **2007.03.20**

Start Time: **16:03:54**

End Time: **00:21:18**

Time On Btm: **2007.03.19 @ 16:03:54**

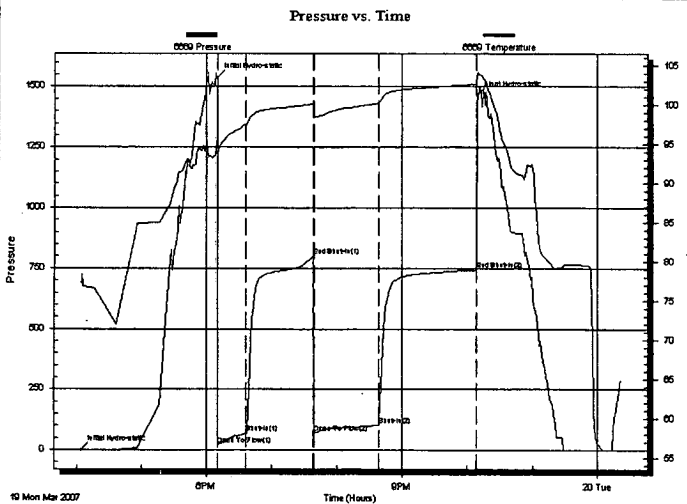
Time Off Btm: **2007.03.19 @ 22:09:19**

TEST COMMENT: **IF Weak to fair built to 6 "**

**ISI Dead**

**FF Strong BOB 23 min.**

**FSI Blow back built 2 "**



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	-1.08	77.25	Initial Hydro-static
126	1537.21	95.65	Initial Hydro-static
127	20.79	93.63	Open To Flow (1)
153	67.82	97.53	Shut-In(1)
215	802.65	100.14	End Shut-In(1)
216	70.60	98.57	Open To Flow(2)
275	101.15	100.20	Shut-In(2)
365	743.57	102.64	End Shut-In(2)
366	1463.23	103.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
165.00	OCM 25%O 75%M	0.81
55.00	Clean Oil	0.59

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27547

**DST#: 1**

ATTN: Shauna Gunzelman

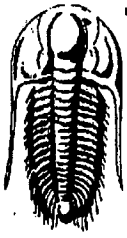
Test Start: 2007.03.19 @ 16:03:49

**Tool Information**

Drill Pipe:	Length: 2984.00 ft	Diameter: 3.80 inches	Volume: 41.86 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>42.77 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3178.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	107.00 ft			
Tool Length:	130.00 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			3156.00	
Shut In Tool	5.00			3161.00	
Hydraulic tool	5.00			3166.00	
Safety Joint	3.00			3169.00	
Packer	4.00			3173.00	23.00 Bottom Of Top Packer
Packer	5.00			3178.00	
Stubb	1.00			3179.00	
Perforations	1.00			3180.00	
Change Over Sub	1.00			3181.00	
Recorder	0.00	6669	Inside	3181.00	
Blank Spacing	30.00			3211.00	
Recorder	0.00	11084	Outside	3211.00	
Blank Spacing	61.00			3272.00	
Change Over Sub	1.00			3273.00	
Perforations	9.00			3282.00	
Bullnose	3.00			3285.00	107.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>130.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27547

**DST#: 1**

ATTN: Shauna Gunzelman

Test Start: 2007.03.19 @ 16:03:49

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
165.00	OCM 25%O 75%M	0.811
55.00	Clean Oil	0.589

Total Length: 220.00 ft      Total Volume: 1.400 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

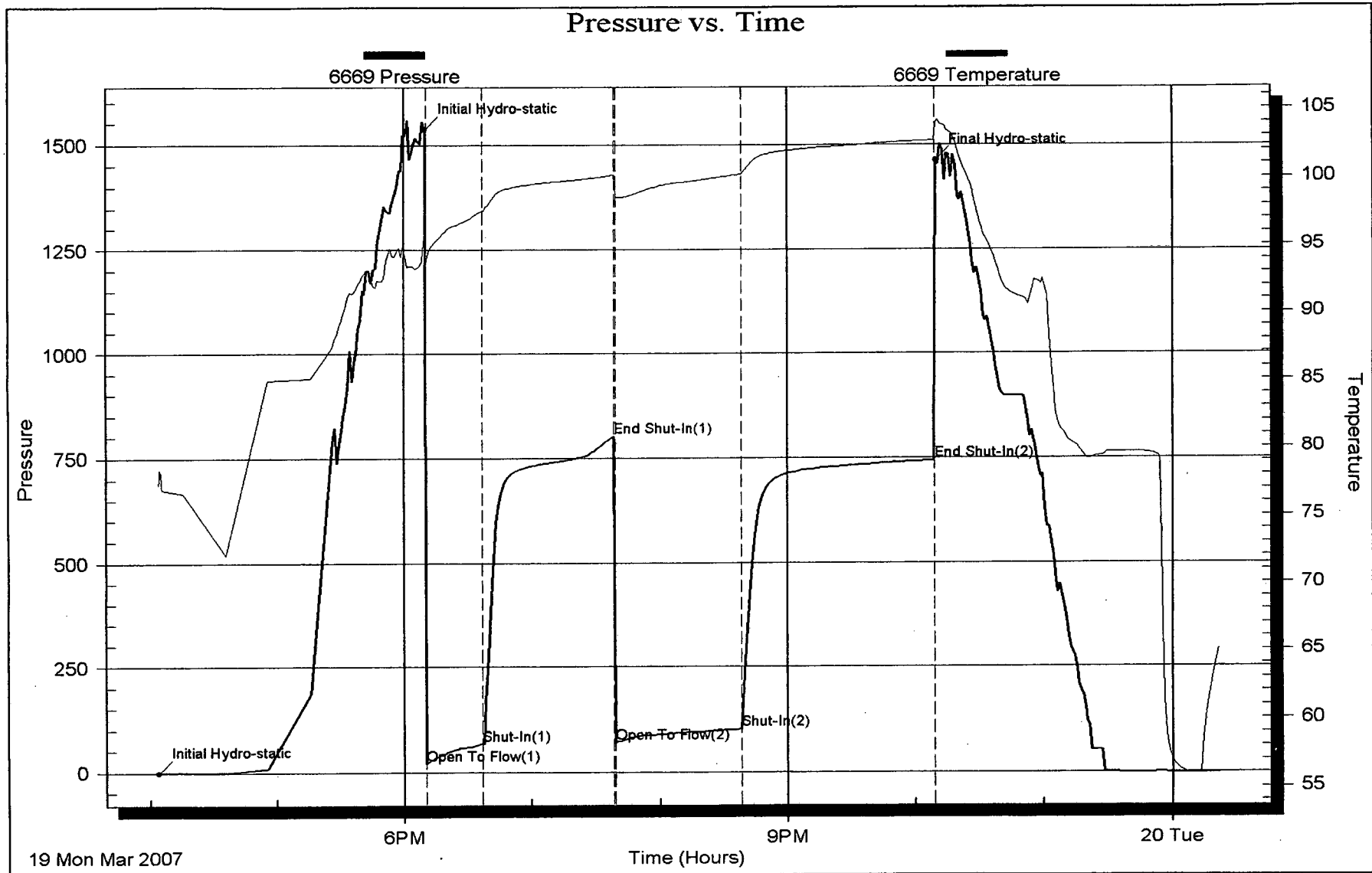
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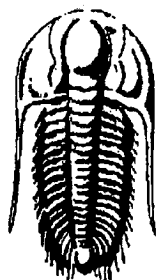
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**5 9S 18W Rooks KS**

**Gertrude # 1-5**

Start Date: 2007.03.20 @ 11:04:55

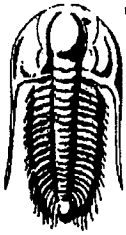
End Date: 2007.03.20 @ 18:52:55

Job Ticket #: 27548                      DST #: 2

Trilobite Testing, Inc

PO Box 362 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

ATTN: Shauna Gunzelman

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27548

**DST#: 2**

Test Start: 2007.03.20 @ 11:04:55

## GENERAL INFORMATION:

Formation: **L.Kc.-E,F,G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:39:25

Time Test Ended: 18:52:55

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3288.00 ft (KB) To 3328.00 ft (KB) (TVD)**

Reference Elevations: 2062.00 ft (KB)

Total Depth: 3328.00 ft (KB) (TVD)

2057.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6669** Inside

Press@RunDepth: 555.85 psig @ 3295.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.20

End Date: 2007.03.20

Last Calib.: 2007.03.20

Start Time: 11:05:00

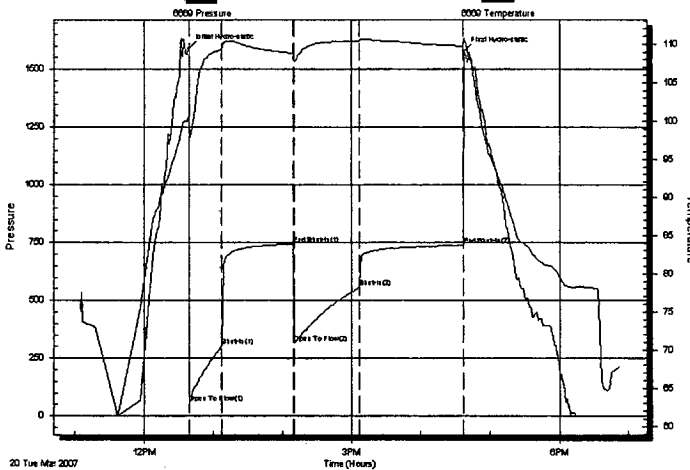
End Time: 18:52:54

Time On Btm: 2007.03.20 @ 12:38:55

Time Off Btm: 2007.03.20 @ 16:37:25

**TEST COMMENT:** IF Strong BOB 2 min.  
ISI Strong BOB 13 min.  
FF Strong BOB 3 min.  
FSI Strong BOB 12 min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1588.69	100.52	Initial Hydro-static
1	56.07	97.70	Open To Flow (1)
29	303.05	109.35	Shut-In (1)
90	743.45	108.81	End Shut-In (1)
91	312.27	107.85	Open To Flow (2)
148	555.85	110.41	Shut-In (2)
238	739.26	109.73	End Shut-In (2)
239	1577.23	110.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
735.00	Salt water	8.62
60.00	SOCW-2%O-98%W	0.84
60.00	GOCW 5%G 10%O 85%W	0.84
60.00	GOCW 10%G 30%O 60%W	0.84
280.00	Gassy Oil 10%G 90%O	3.93
0.00	870 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling CO Inc  
250 N Water Ste 300  
Wichita KS 67202

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27548

**DST#: 2**

ATTN: Shauna Gunzelman

Test Start: 2007.03.20 @ 11:04:55

**Tool Information**

Drill Pipe:	Length: 3105.00 ft	Diameter: 3.80 inches	Volume: 43.55 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>44.46 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3288.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	63.00 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			3266.00	
Shut In Tool	5.00			3271.00	
Hydraulic tool	5.00			3276.00	
Safety Joint	3.00			3279.00	
Packer	4.00			3283.00	23.00 Bottom Of Top Packer
Packer	5.00			3288.00	
Stubb	1.00			3289.00	
Perforations	6.00			3295.00	
Recorder	0.00	6669	Inside	3295.00	
Perforations	30.00			3325.00	
Recorder	0.00	11084	Outside	3325.00	
Bullnose	3.00			3328.00	40.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27548

**DST#: 2**

ATTN: Shauna Gunzelman

Test Start: 2007.03.20 @ 11:04:55

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
735.00	Salt water	8.625
60.00	SOCW-2%O-98%w	0.842
60.00	GOCW 5%G 10%O 85%W	0.842
60.00	GOCW 10%G 30%O 60%W	0.842
280.00	Gassy Oil 10%G 90%O	3.928
0.00	870 GIP	0.000

Total Length: 1195.00 ft

Total Volume: 15.079 bbl

Num Fluid Samples: 0

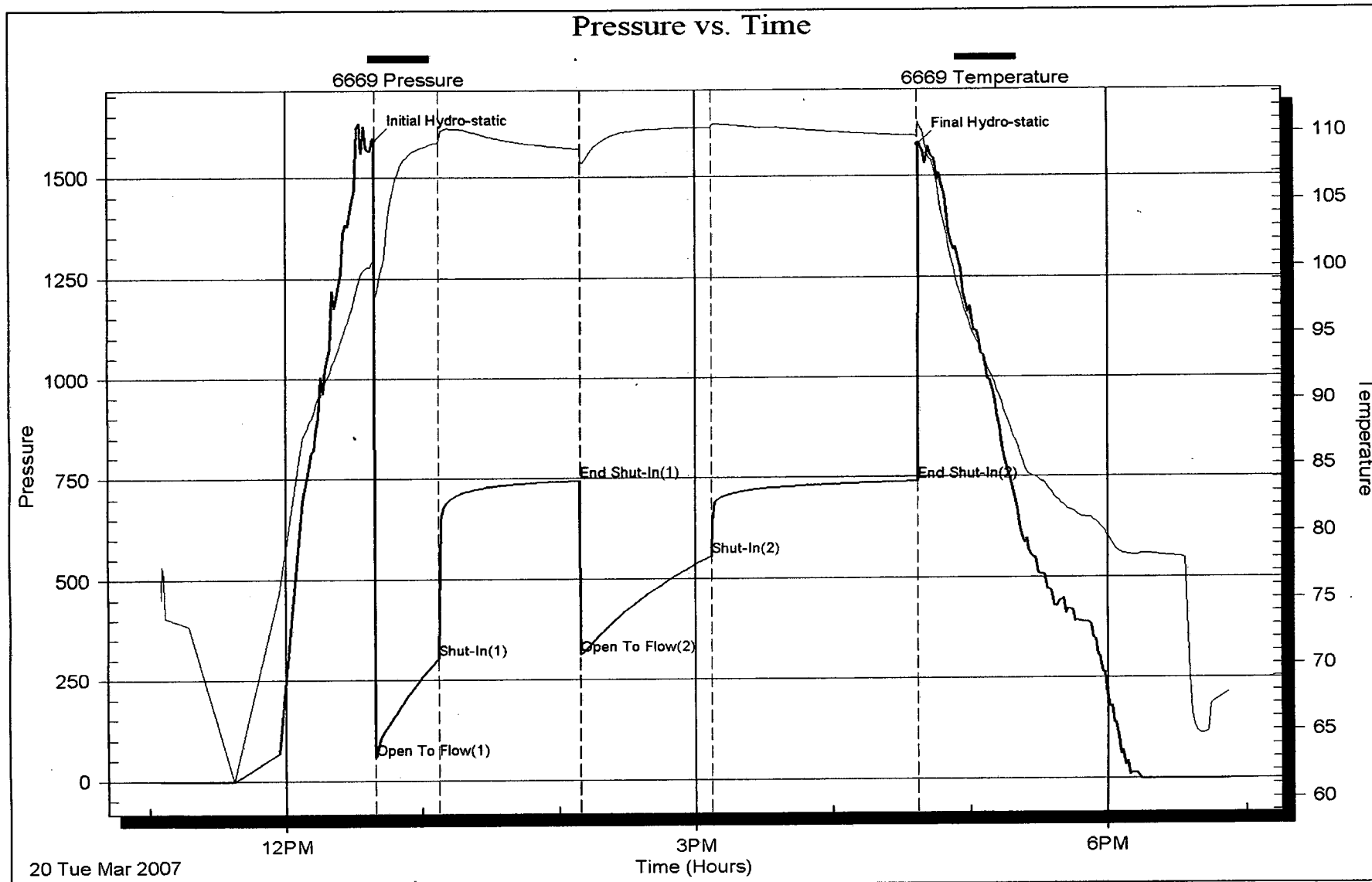
Num Gas Bombs: 0

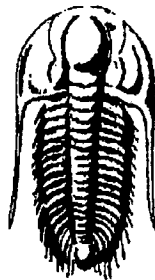
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**5 9S 18W Rooks KS**

**Gertrude # 1-5**

Start Date: 2007.03.21 @ 08:00:56

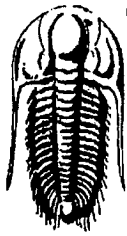
End Date: 2007.03.21 @ 15:56:26

Job Ticket #: 27550                      DST #: 3

Trilobite Testing, Inc

PO Box 362 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

ATTN: Shauna Gunzelman

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27550

**DST#: 3**

Test Start: 2007.03.21 @ 08:00:56

## GENERAL INFORMATION:

Formation: **L.Kc.-H,I,J,K,L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:58:26

Time Test Ended: 15:56:26

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3333.00 ft (KB) To 3442.00 ft (KB) (TVD)**

Total Depth: 3442.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6669** Inside

Press@RunDepth: 105.21 psig @ 3336.00 ft (KB)

Start Date: 2007.03.21

End Date: 2007.03.21

Start Time: 08:01:01

End Time: 15:56:25

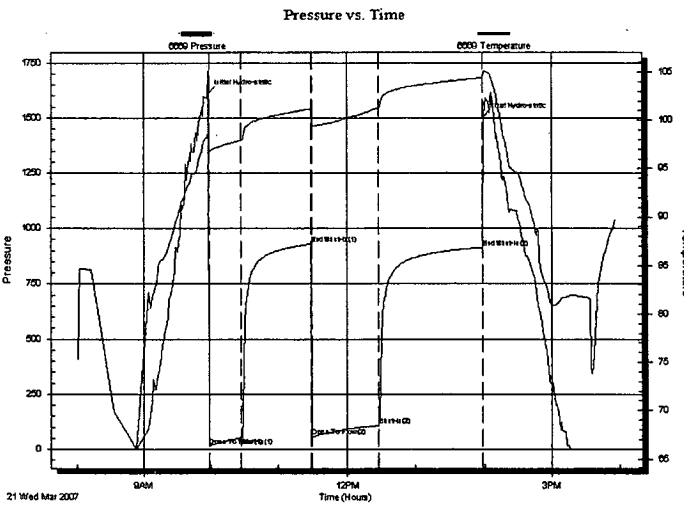
Capacity: 7000.00 psig

Last Calib.: 2007.03.21

Time On Btm: 2007.03.21 @ 09:57:56

Time Off Btm: 2007.03.21 @ 13:59:25

TEST COMMENT: IF Weak built to 3 "  
ISI Dead  
FF Weak built to 2 "  
FSI Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1611.73	99.22	Initial Hydro-static
1	15.18	96.60	Open To Flow (1)
29	51.68	97.92	Shut-In (1)
91	929.67	101.19	End Shut-In (1)
91	56.18	99.37	Open To Flow (2)
150	105.21	101.26	Shut-In (2)
241	914.17	104.40	End Shut-In (2)
242	1506.18	105.10	Final Hydro-static

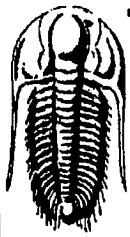
## Recovery

Length (ft)	Description	Volume (bbl)
195.00	DM few Oil spots	1.05

## 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

**Gertrude # 1-5**  
**5 9S 18W Rooks KS**  
Job Ticket: 27550      **DST#: 3**  
Test Start: 2007.03.21 @ 08:00:56

ATTN: Shauna Gunzelman

**Tool Information**

Drill Pipe:	Length: 3137.00 ft	Diameter: 3.80 inches	Volume: 44.00 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 44.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3333.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	109.00 ft				
Tool Length:	132.00 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			3311.00	
Shut In Tool	5.00			3316.00	
Hydraulic tool	5.00			3321.00	
Safety Joint	3.00			3324.00	
Packer	4.00			3328.00	23.00      Bottom Of Top Packer
Packer	5.00			3333.00	
Stubb	1.00			3334.00	
Perforations	1.00			3335.00	
Change Over Sub	1.00			3336.00	
Recorder	0.00	6669	Inside	3336.00	
Blank Spacing	30.00			3366.00	
Recorder	0.00	11084	Outside	3366.00	
Blank Spacing	62.00			3428.00	
Change Over Sub	1.00			3429.00	
Perforations	10.00			3439.00	
Bullnose	3.00			3442.00	109.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>132.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling CO Inc

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27550

**DST#: 3**

Test Start: 2007.03.21 @ 08:00:56

**Mud and Cushion Information**

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
195.00	DM few Oil spots	1.050

Total Length: 195.00 ft      Total Volume: 1.050 bbl

Num Fluid Samples: 0

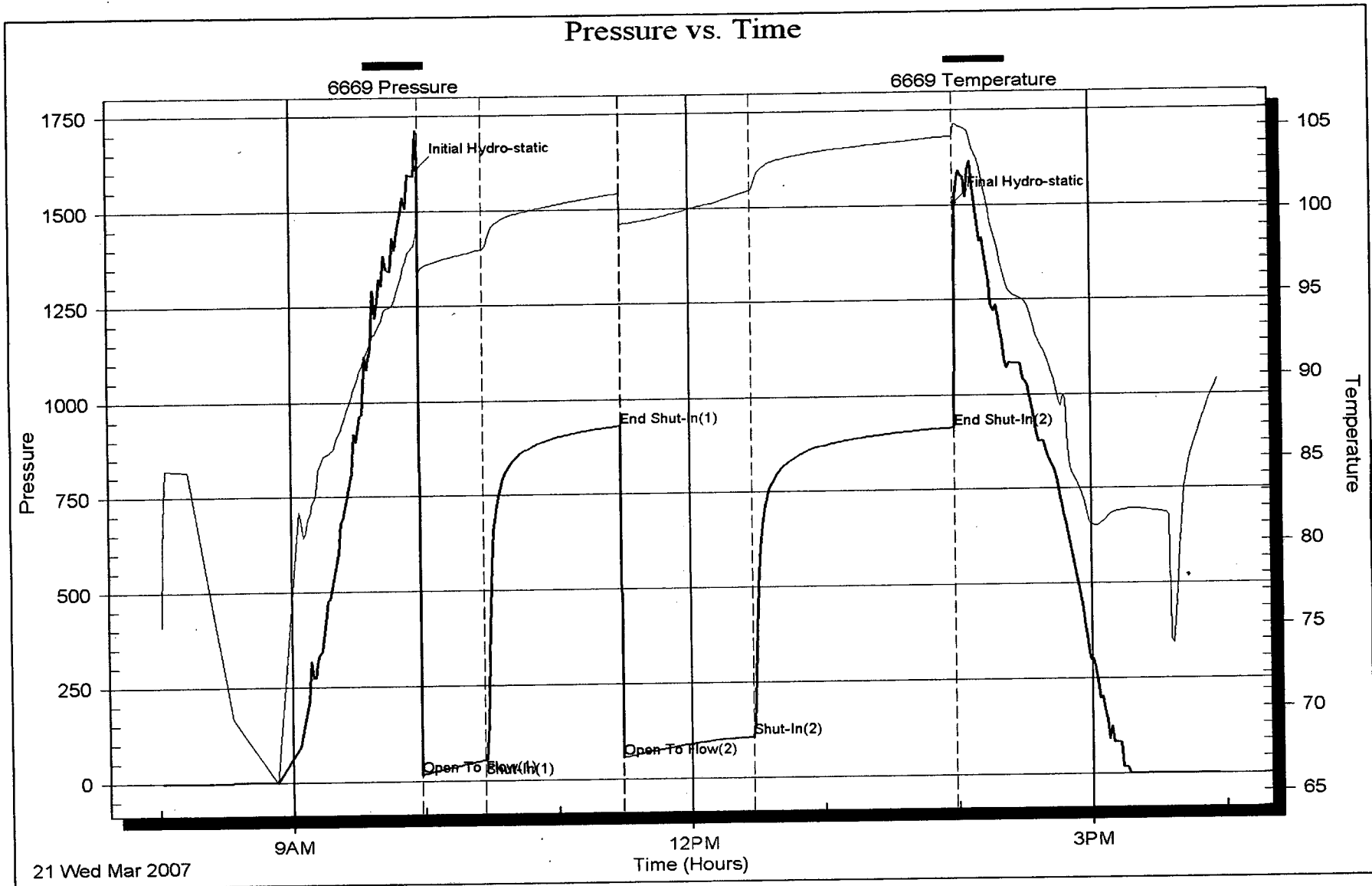
Num Gas Bombs: 0

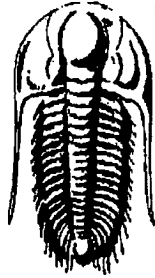
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**5 9S 18W Rooks KS**

**Gertrude # 1-5**

Start Date: 2007.03.21 @ 23:53:42

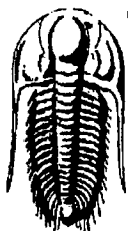
End Date: 2007.03.22 @ 08:23:12

Job Ticket #: 27426      DST #: 4

Trilobite Testing, Inc

PO Box 362 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

ATTN: Shauna Gunzelman

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27426

DST#: 4

Test Start: 2007.03.21 @ 23:53:42

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:59:42

Time Test Ended: 08:23:12

Interval: **3440.00 ft (KB) To 3485.00 ft (KB) (TVD)**

Total Depth: 3485.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Reference Elevations: 2062.00 ft (KB)

2057.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6669** Inside

Press@RunDepth: 105.94 psig @ 3443.00 ft (KB)

Start Date: 2007.03.21

End Date: 2007.03.22

Start Time: 23:53:47

End Time: 08:23:11

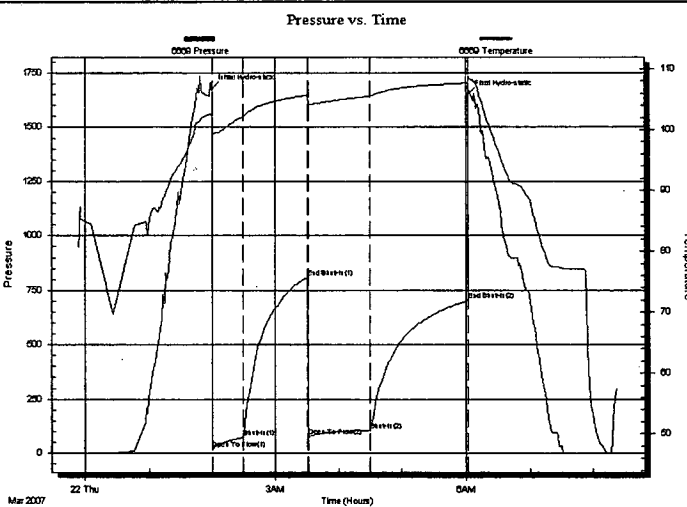
Capacity: 7000.00 psig

Last Calib.: 2007.03.22

Time On Btm: 2007.03.22 @ 01:59:12

Time Off Btm: 2007.03.22 @ 06:01:42

TEST COMMENT: IF Weak to fair built to 5 "  
ISI Dead  
FF Weak to fair built to 4 "  
FSI Dead



## PRESSURE SUMMARY

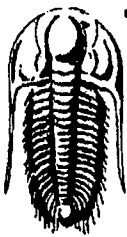
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.41	102.29	Initial Hydro-static
1	18.14	99.57	Open To Flow (1)
31	72.72	102.23	Shut-In(1)
92	808.54	105.68	End Shut-In(1)
92	78.21	104.15	Open To Flow (2)
151	105.94	105.51	Shut-In(2)
242	701.84	107.71	End Shut-In(2)
243	1652.61	108.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	OMCW 10%O 30%M 60%W	0.32
60.00	OMCW 10%O 45%M 45%W	0.30
60.00	OCM 15%O 85%M	0.30
10.00	Clean Oil	0.14

## 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

ATTN: Shauna Gunzelman

**Gertrude # 1-5**

**5 9S 18W Rooks KS**

Job Ticket: 27426

**DST#: 4**

Test Start: 2007.03.21 @ 23:53:42

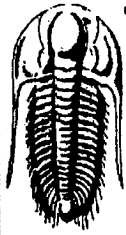
**Tool Information**

Drill Pipe:	Length: 3258.00 ft	Diameter: 3.80 inches	Volume: 45.70 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3440.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 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			3418.00	
Shut In Tool	5.00			3423.00	
Hydraulic tool	5.00			3428.00	
Safety Joint	3.00			3431.00	
Packer	4.00			3435.00	23.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Perforations	1.00			3442.00	
Change Over Sub	1.00			3443.00	
Recorder	0.00	6669	Inside	3443.00	
Blank Spacing	31.00			3474.00	
Recorder	0.00	11084	Outside	3474.00	
Change Over Sub	1.00			3475.00	
Perforations	7.00			3482.00	
Bullnose	3.00			3485.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27426

**DST#: 4**

ATTN: Shauna Gunzelman

Test Start: 2007.03.21 @ 23:53:42

## 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:

18000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	OMCW 10%O 30%M 60%W	0.320
60.00	OMCW 10%O 45%M 45%W	0.295
60.00	OCM 15%O 85%M	0.295
10.00	Clean Oil	0.140

Total Length: 195.00 ft

Total Volume: 1.050 bbl

Num Fluid Samples: 0

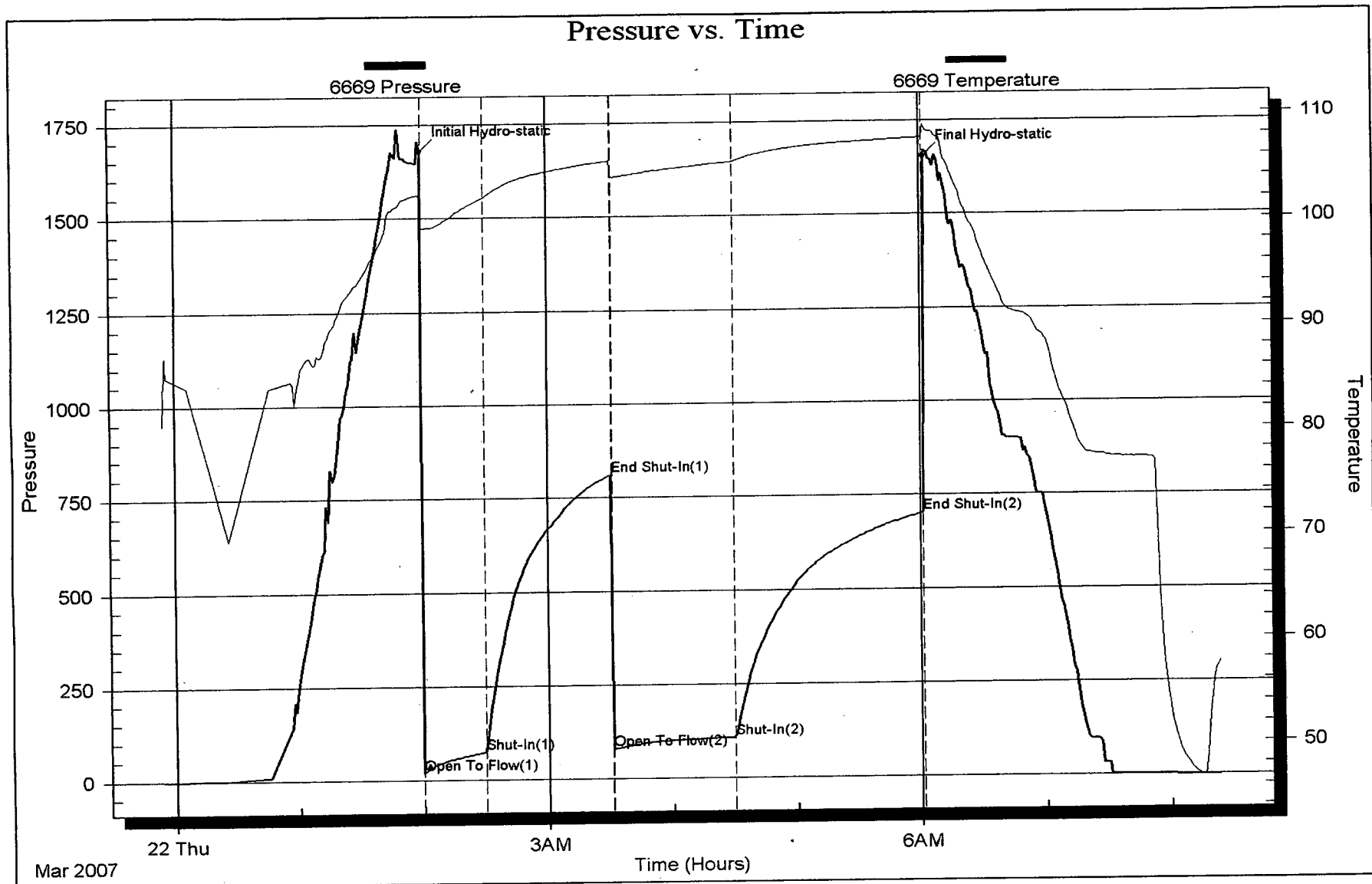
Num Gas Bombs: 0

Serial #:

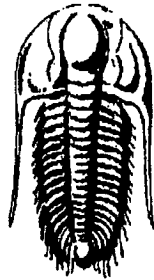
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling CO Inc**

250 N Water Ste 300  
Wichita KS 67202

ATTN: Shauna Gunzelman

**5 9S 18W Rooks KS**

**Gertrude # 1-5**

Start Date: 2007.03.22 @ 14:08:33

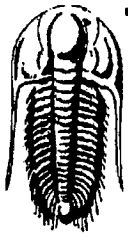
End Date: 2007.03.22 @ 20:24:03

Job Ticket #: 27427                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27427

**DST#: 5**

ATTN: Shauna Gunzelman

Test Start: 2007.03.22 @ 14:08:33

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 16:12:33  
 Time Test Ended: 20:24:03

Test Type: **Conventional Bottom Hole**  
 Tester: **John Schmidt**  
 Unit No: **31**

Interval: **3485.00 ft (KB) To 3495.00 ft (KB) (TVD)**  
 Total Depth: **3495.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2062.00 ft (KB)**  
**2057.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

## Serial #: 6669

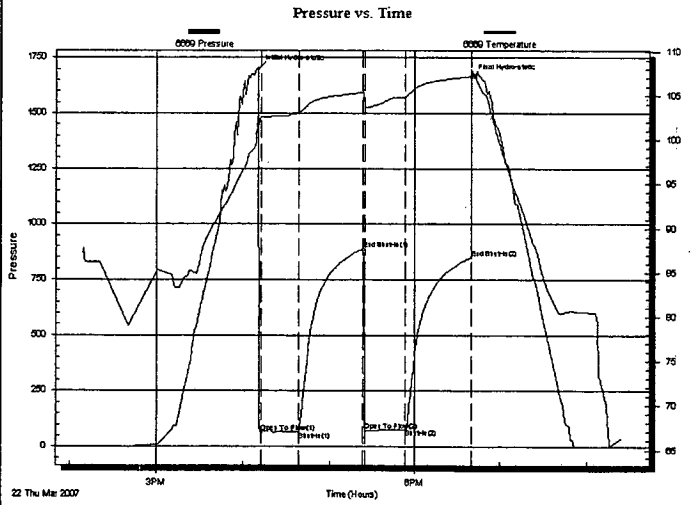
**Inside**

Press@RunDepth: **78.20 psig @ 3487.00 ft (KB)**  
 Start Date: **2007.03.22** End Date: **2007.03.22**  
 Start Time: **14:08:38** End Time: **20:24:02**

Capacity: **7000.00 psig**  
 Last Calib.: **2007.03.22**  
 Time On Btm: **2007.03.22 @ 16:10:33**  
 Time Off Btm: **2007.03.22 @ 18:40:03**

## TEST COMMENT: IF Weak surface dead in 25 min.

ISI Dead  
 FF Dead  
 FSI Dead **Tool slid 8' to bottom lo**



## PRESSURE SUMMARY

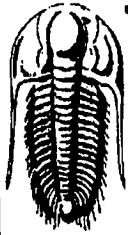
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.12	103.01	Initial Hydro-static
2	63.99	102.52	Open To Flow (1)
28	67.36	103.06	Shut-In(1)
73	888.91	105.35	End Shut-In(1)
74	70.59	103.60	Open To Flow (2)
103	78.20	104.84	Shut-In(2)
149	847.23	107.17	End Shut-In(2)
150	1657.44	108.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	Oil spotted DM	0.34

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27427

**DST#: 5**

ATTN: Shauna Gunzelman

Test Start: 2007.03.22 @ 14:08:33

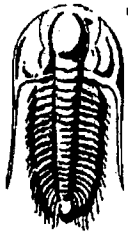
**Tool Information**

Drill Pipe:	Length: 3291.00 ft	Diameter: 3.80 inches	Volume: 46.16 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 50000.00 lb
		<b>Total Volume:</b>	<b>47.07 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3485.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	33.00 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			3463.00	
Shut In Tool	5.00			3468.00	
Hydraulic tool	5.00			3473.00	
Safety Joint	3.00			3476.00	
Packer	4.00			3480.00	23.00 Bottom Of Top Packer
Packer	5.00			3485.00	
Stubb	1.00			3486.00	
Perforations	1.00			3487.00	
Recorder	0.00	6669	Inside	3487.00	
Perforations	5.00			3492.00	
Recorder	0.00	13308	Outside	3492.00	
Bullnose	3.00			3495.00	10.00 Bottom Packers & Anchor

**Total Tool Length: 33.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling CO Inc

**Gertrude # 1-5**

250 N Water Ste 300  
Wichita KS 67202

**5 9S 18W Rooks KS**

Job Ticket: 27427

**DST#: 5**

ATTN: Shauna Gunzelman

Test Start: 2007.03.22 @ 14:08:33

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
70.00	Oil spotted DM	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

