



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1219323
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

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 #: _____

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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1219323

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Jones 'B' 3-9
Doc ID	1219323

All Electric Logs Run

DIL
DUCP
MEL
BHCS



INVOICE

*acct.
Prod-MC*

PO Box 93999
Southlake, TX 76092

Invoice Number: 143264

Invoice Date: May 15, 2014

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62073	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 15, 2014	6/14/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Jones B #3-9		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
210.00	CEMENT SERVICE	Cubic Feet Charge	2.48	520.80
960.00	CEMENT SERVICE	Ton Mileage Charge	2.60	2,496.00
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
100.00	CEMENT SERVICE	Pump Truck Mileage	7.70	770.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
100.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	440.00
1.00	CEMENT SUPERVISOR	Talon Jones		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

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

\$ 3,514.43 *gh*

ONLY IF PAID ON OR BEFORE

Jun 9, 2014

Subtotal	10,042.05
Sales Tax	328.28
Total Invoice Amount	10,370.33
Payment/Credit Applied	
TOTAL	10,370.33

OK

- 3,514.43
6855.90

ALLIED OIL & GAS SERVICES, LLC 062073

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley KS

DATE <u>5-15-14</u>	SEC. <u>9</u>	TWP. <u>1</u>	RANGE <u>37</u>	CALLED OUT	ON LOCATION <u>1230am</u>	JOB START <u>1am</u>	JOB FINISH <u>1300am</u>
LEASE <u>Jones B</u>	WELL# <u>3-9</u>	LOCATION <u>Bardcity N to RLEE E to</u>		COUNTY <u>Wagoner</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)				<u>Rd Imis E into</u>			

CONTRACTOR Murkin #14 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 226 ft

CASING SIZE 8 5/8 DEPTH 223 ft

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 ft

PERFS.

DISPLACEMENT 13.63

CEMENT AMOUNT ORDERED 200 sks com

3% C

EQUIPMENT

PUMP TRUCK CEMENTER Tarben Jones

422 HELPER Wayne McElroy

BULK TRUCK

818 DRIVER Scott CWS

BULK TRUCK

DRIVER

COMMON 200 sks @ 17.90 3,580.00

POZMIX @

GEL @

CHLORIDE 7 sks @ 64.00 448.00

ASC @

Material Total @ 4028.00

(1409.80/358)

HANDLING 210 cuft @ 2.48 520.00

MILEAGE 9.68 hrs @ 100mi @ 2.60 2496.00

TOTAL

REMARKS:
mix 200sk @ 226 ft
Cement did not circulate

SERVICE

DEPTH OF JOB 226 ft 1512.25

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @

MILEAGE H.V 100mi @ 7.70 770.00

MANIFOLD Sweeper @ 275.00

L.V 100mi @ 4.40 440.00

CHARGE TO: Murkin drilling

STREET

CITY STATE ZIP

(2104.63/358)

TOTAL 6,013.25

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

(070)

TOTAL

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any)

TOTAL CHARGES 10,041.25

DISCOUNT 3,514.43/358 IF PAID IN 30 DAYS

6,526.81 Net

PRINTED NAME Chris L. Smith

SIGNATURE Chris L. Smith



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



Invoice

DATE	INVOICE #
5/23/2014	25549

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#3-9	Jones B	Cheyenne		Oil	Development	5-1/2" Top To B...	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				160	Miles	6.00	960.00
579D	Pump Charge - Top To Bottom LongString				1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
290	D-Air				10	Gallon(s)	42.00	420.00T
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
276	Flocele				125	Lb(s)	2.50	312.50T
283	Salt				1,000	Lb(s)	0.20	200.00T
284	Calseal				9	Sack(s)	35.00	315.00T
285	CFR-1				150	Lb(s)	4.50	675.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				4,068.5	Ton Miles	1.00	4,068.50
	Subtotal							22,226.00
	Sales Tax Cheyenne County						8.15%	1,157.10
USED FOR <u>IC 103</u>								
APPROVED <u>JK MC</u>								
We Appreciate Your Business!							Total	\$23,383.10



CHARGE TO: Murphy
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

TICKET 25549

PAGE 1 OF 2

1. SERVICE LOCATIONS	WELL/PROJECT NO. <u>3-9</u>	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
	<u>Hays Ks</u>	<u>Jones "B"</u>	<u>Cheyenne</u>	<u>Ks</u>		<u>5-23-14</u>	
2. <u>Ness City Ks</u>	TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
	<input checked="" type="checkbox"/> SERVICE			<input checked="" type="checkbox"/> CT	<u>6054720</u>		
3. <u>021</u>	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
	<u>021</u>	<u>Development</u>	<u>ST 2 Top to Bottom</u>		<u>Sec 9, Twp 15, R 37W</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>					MILEAGE	<u>160</u>	<u>m.</u>			<u>6.00</u>	<u>960.00</u>
<u>579</u>					Pump Charge Top to Bottom	<u>1</u>	<u>ea</u>			<u>2000.00</u>	<u>2000.00</u>
<u>221</u>					Ligwa KCL	<u>4</u>	<u>gal</u>			<u>25.00</u>	<u>100.00</u>
<u>281</u>					Mud Ploss	<u>500</u>	<u>gal</u>			<u>1.25</u>	<u>625.00</u>
<u>290</u>					D-Ar	<u>10</u>	<u>gal</u>			<u>42.00</u>	<u>420.00</u>
<u>403</u>					Cement Bucket	<u>3</u>	<u>ea</u>		<u>5^{1/2}</u>	<u>300.00</u>	<u>900.00</u>
<u>406</u>					Latch Down Plug + Saddle	<u>1</u>	<u>ea</u>			<u>275.00</u>	<u>275.00</u>
<u>407</u>					Insert Float Valve w/Auto Fill	<u>1</u>	<u>ea</u>			<u>375.00</u>	<u>375.00</u>
<u>409</u>					Turbolizer	<u>15</u>	<u>ea</u>			<u>90.00</u>	<u>1350.00</u>
<u>419</u>					Rotating Head Rental	<u>1</u>	<u>ea</u>			<u>200.00</u>	<u>200.00</u>

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

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

DATE SIGNED: 5-23-14 TIME SIGNED: 0600 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 BREADDOWN?	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 SERVICE?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL: 7205
 PAGE TOTAL: 15021
 Subtotal: 22,326.00
 Cheyenne Tax: 1,157.10
 TOTAL: 23,383.10

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

SWIFT OPERATOR: [Signature] APPROVAL: _____

Thank You!



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

TICKET CONTINUATION

TICKET No. 25549

CUSTOMER *Murphy* WELL *Dones* "B" 3-9

DATE 5/23/11 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M	QTY	U/M			
325		2				Standard Cement EA2	200	SKS			14.50	2900.00	
330		2				Swift Multi Density	300	SKS			18.50	5550.00	
276		2				Flocele	125	Lbs			2.50	312.50	
283		2				5-1H	1000	Lbs			20.00	2000.00	
284		2				L-1 Seal	9	SKS			35.00	315.00	
285		2				CPA-1	150	Lbs			4.50	675.00	
581		2				SERVICE CHARGE					2.00	1000.00	
583		2				MILEAGE CHARGE					1.00	4068.50	
							TOTAL WEIGHT	50855					
							LOADED MILES	160					
							CUBIC FEET	500					
							TON MILES	4068.5					
CONTINUATION TOTAL												15021.00	

JOB LOG

SWIFT Services, Inc.

DATE 5-23-14 PAGE NO.

CUSTOMER Murkin WELL NO. B-9 LEASE Jones "B" JOB TYPE 5 1/2 Top to Bottom TICKET NO. 25549

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							on location
								TD 4740 SS 19 FP 4732 Insert 4713 Centralizers 1-13, 34, 44 Baskets 11, 35, 45
	0645							Start Pipe Break circulation 1/2 way in Finish running pipe
	0920							Drop Ball circulate lost circulation
	1030							plug RH 30skt MH 20skt 50w Start Mud Flush NO Circulation 50w Start KCL 40w Start SMD 250 SKS 40w Start EA-2 200 SKS
	1040							Drop Plug Wash out Pump + Lines
	1143	6	20					Start Displacement w/20bbl KCL flush Finish Displacement w/H ₂ O Circulate cement NO Circulation
	1200		112.1				1400 1700	land plug Hold Release Dry Wash up pack up Job Complete Thank You Josh, Brian, Craig, Jared

Jones 'B' #3-9
 Daily Drilling Report
 Page Two.

5/21/14 Depth 4410'. Cut 100'. DT: None. CT: 17½ hrs. Dev.: None. **DST #3 4307-4405 (LKC H-J)**: 30-60-60-90. IF: surf blw built to BOB in 8mins. FF: surf blw built to BOB in 21mins. Rec.: 292'OSWM (65%M, 35%W, oil spts), 846'MW (5%M, 95%W). HP: 2162-2082. FP: 36/360, 361/534. SIP: 681-678. BHT: 144°.

5/22/14 Depth 4596'. Cut 186'. DT: None. CT: 11½ hrs. Dev.: None. **Pawnee**: Ls, off white, grainstone, oolitic foss, pr-fr inter gran & pp por, some bug por, scat stn, fr SFO, gas bubbles, sl odor. **DST #4 4550-4596 (Pawnee)**: 30-60-30-60. IF: surf blw built to ¼". FF: No surf blw. Rec.: 6'OSM (100%M, oil spts). HP: 2282-2224. FP: 21/25, 30/32. SIP: 1087-939. BHT: 138°

5/23/14 RTD: 4740. Cut 144'. DT: None. CT: 18hrs. Dev.: 1 ¼° @ 4740'. HC @ 2:10PM. Pioneer logged 5:30PM – 10:00PM 5/22. LTD 4737'. Run Csg.

5/24/14 RTD: 4740'. CT: 9hrs. Ran 113jts of 15.5# 5 ½" prod csg, set @ 4732'. Swift cmt w/300sxs SMD, 200sxs EA-2. PD @ 12:00PM 5/23. 30sxs RH, 20sxs MH. Did not circ. RR @ 4:00PM 5/23. FINAL REPORT

MDCI Jones B #3-9 660' FNL 1980' FWL Sec. 9-T1S-R37W 3212' KB							Bereco Mears 'A' #4-9 660' FNL 1980' FEL Sec. 9-T1S-R37W 3153' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	3180	+32	-11	3179	+33	-10	3110	+43
B/Anhydrite	3215	-3	-12	3212	0	-9	3144	+9
Neva	3640	-428	-15	3636	-424	-11	3565	-412
Red Eagle	3706	-494	-17	3700	-488	-11	3630	-477
Foraker	3751	-539	-13	3748	-536	-10	3679	-526
Topeka	3972	-760	-14	3969	-757	-11	3899	-746
Oread	4107	-895	-16	4104	-892	-13	4032	-879
Lansing	4186	-974	-12	4183	-971	-9	4115	-962
Stark	4400	-1188	-11	4399	-1187	-10	4330	-1177
BKC	4457	-1245	-11	4457	-1245	-11	4387	-1234
Pawnee	4576	-1364	-11	4576	-1364	-11	4506	-1353
Cherokee	4671	-1459	-15	4664	-1452	-8	4597	-1444
RTD	4740	-1528					4620	-1467
LTD				4737	-1525		4635	-1482



DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Ken Wallace

Jones B #3-9

9-1s-37w Cheyenne,KS

Start Date: 2014.05.19 @ 01:46:00

End Date: 2014.05.19 @ 09:47:00

Job Ticket #: 58302 DST #: 1

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

Printed: 2014.05.27 @ 10:21:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water, Ste 300
Wichita KS 67202
ATTN: Ken Wallace

9-1s-37w Cheyenne,KS

Jones B #3-9

Job Ticket: 58302

DST#: 1

Test Start: 2014.05.19 @ 01:46:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:45:30

Time Test Ended: 09:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4201.00 ft (KB) To 4256.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4256.00 ft (KB) (TVD)

3202.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press@RunDepth: 66.40 psig @ 4202.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19

End Date:

2014.05.19

Last Calib.:

2014.05.19

Start Time: 01:46:05

End Time:

09:46:59

Time On Btm:

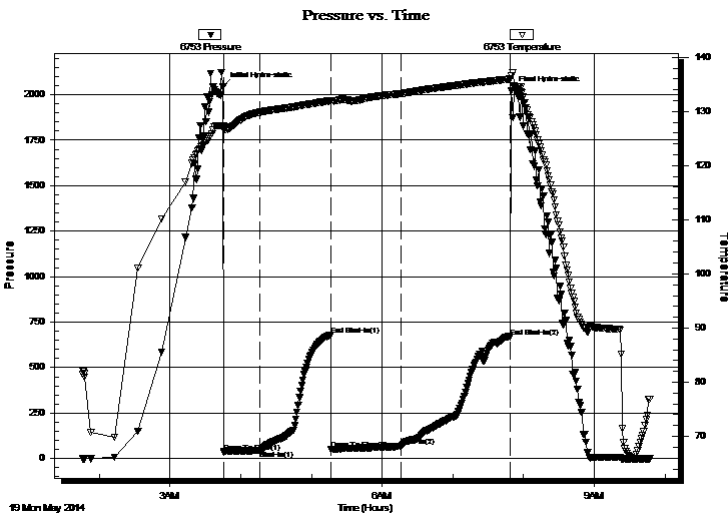
2014.05.19 @ 03:45:15

Time Off Btm:

2014.05.19 @ 07:49:45

TEST COMMENT: 30 - IF - Surface blow built to 6 1/4"
60 - ISI - No Return
60 - FF - Weak surface started 4 mins in and built to 1 1/4"
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2046.27	127.39	Initial Hydro-static
1	33.31	126.59	Open To Flow (1)
31	44.68	129.83	Shut-In(1)
91	679.63	131.97	End Shut-In(1)
92	49.73	131.84	Open To Flow (2)
151	66.40	133.25	Shut-In(2)
244	669.07	135.97	End Shut-In(2)
245	2022.04	136.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
94.00	GOCM - 50M - 40o - 10G	0.46
15.00	Free Oil	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58302

DST#: 1

ATTN: Ken Wallace

Test Start: 2014.05.19 @ 01:46:00

Tool Information

Drill Pipe:	Length: 3619.19 ft	Diameter: 3.80 inches	Volume: 50.77 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 559.02 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.21 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4201.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4179.00	
Hydraulic tool	5.00			4184.00	
Jars	5.00			4189.00	
Safety Joint	3.00			4192.00	
Packer	4.00			4196.00	27.00 Bottom Of Top Packer
Packer	5.00			4201.00	
Stubb	1.00			4202.00	
Recorder	0.00	8368	Inside	4202.00	
Recorder	0.00	6753	Inside	4202.00	
Perforations	17.00			4219.00	
Change Over Sub	1.00			4220.00	
Drill Pipe	31.00			4251.00	
Change Over Sub	1.00			4252.00	
Bullnose	4.00			4256.00	55.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58302

DST#: 1

ATTN: Ken Wallace

Test Start: 2014.05.19 @ 01:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
94.00	GOCM - 50M - 40o - 10G	0.462
15.00	Free Oil	0.074

Total Length: 109.00 ft

Total Volume: 0.536 bbl

Num Fluid Samples: 0

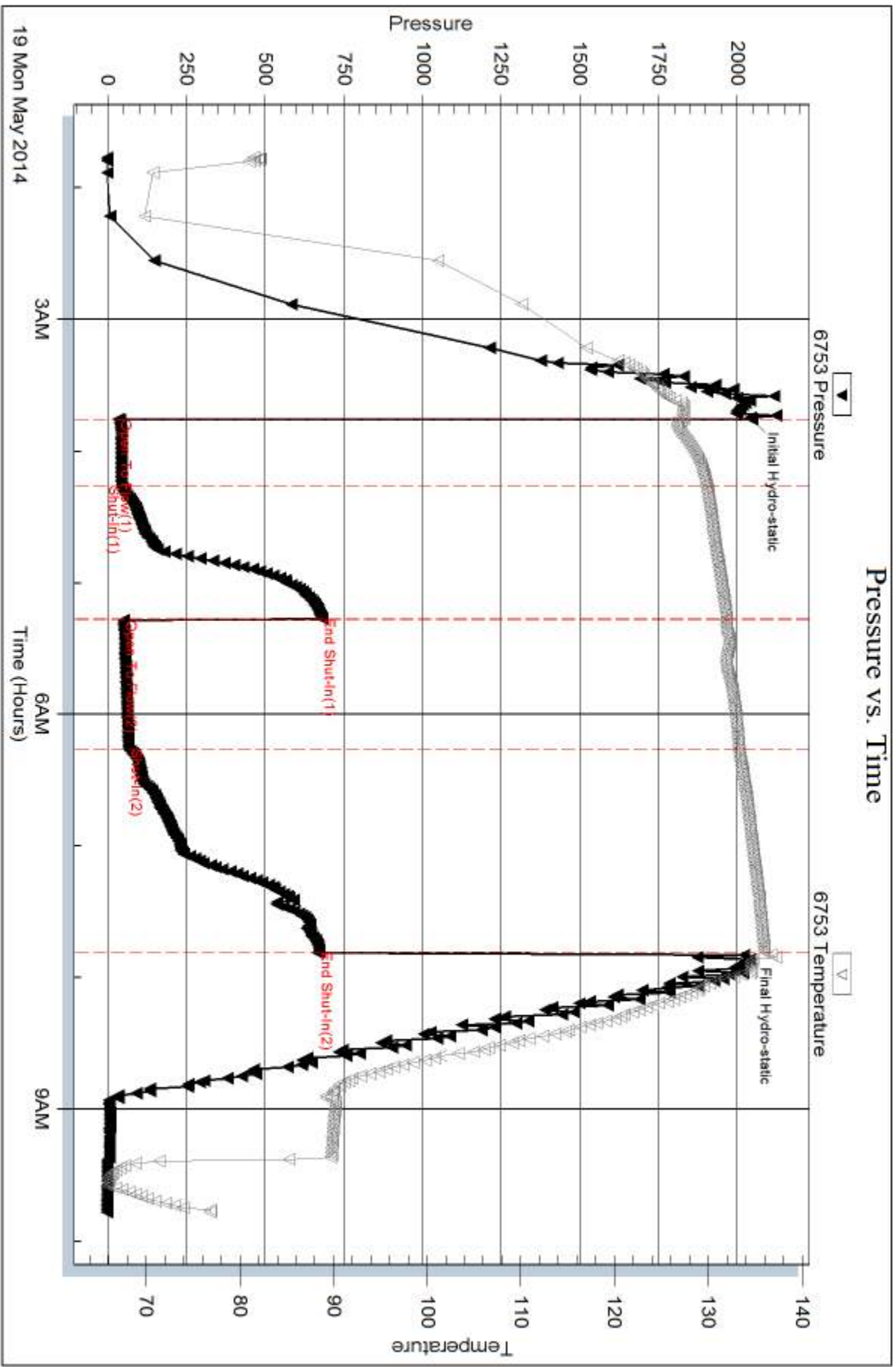
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Ken Wallace

Jones B #3-9

9-1s-37w Cheyenne,KS

Start Date: 2014.05.19 @ 21:47:00

End Date: 2014.05.20 @ 04:54:00

Job Ticket #: 58303 DST #: 2

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

Printed: 2014.05.27 @ 10:20:34



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58303

DST#: 2

ATTN: Ken Wallace

Test Start: 2014.05.19 @ 21:47:00

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:53:45

Time Test Ended: 04:54:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4267.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

3202.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press@RunDepth: 21.22 psig @ 4268.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19

End Date:

2014.05.20

Last Calib.:

2014.05.20

Start Time: 21:47:05

End Time:

04:53:59

Time On Btm:

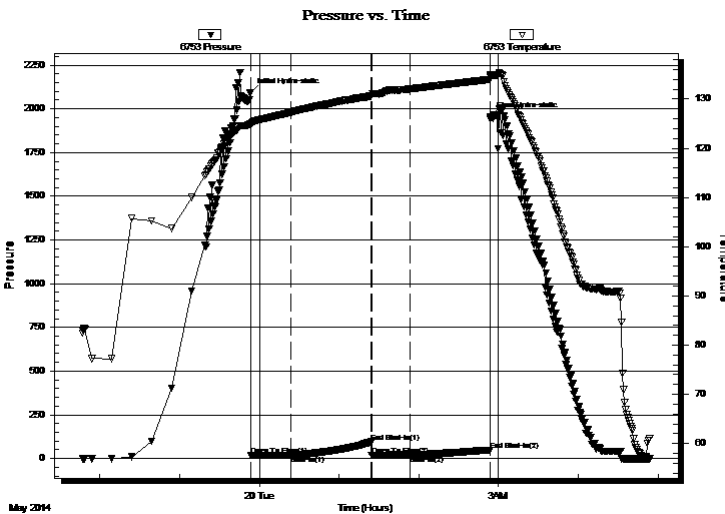
2014.05.19 @ 23:53:15

Time Off Btm:

2014.05.20 @ 02:54:00

TEST COMMENT: 30 - IF - No Surface blow
60 - ISI - No Return
30 - FF - No Surface blow
60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2091.14	125.02	Initial Hydro-static
1	16.66	124.66	Open To Flow (1)
31	18.28	127.32	Shut-In(1)
91	95.71	130.58	End Shut-In(1)
92	20.46	130.61	Open To Flow (2)
121	21.22	132.06	Shut-In(2)
181	49.08	133.98	End Shut-In(2)
181	1955.00	134.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OSM - 100M - oil spots	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58303

DST#: 2

ATTN: Ken Wallace

Test Start: 2014.05.19 @ 21:47:00

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:53:45

Time Test Ended: 04:54:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4267.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

3202.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press@RunDepth: psig @ 4268.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19

End Date:

2014.05.20

Last Calib.:

2014.05.20

Start Time: 21:47:05

End Time:

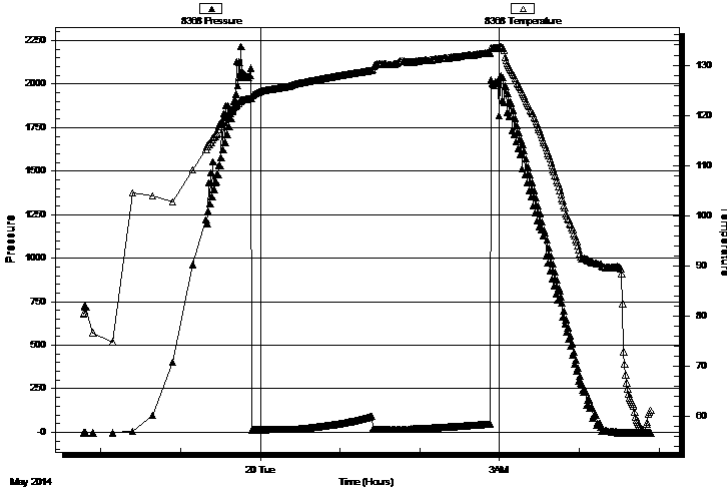
04:53:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - No Surface blow
60 - ISI - No Return
30 - FF - No Surface blow
60 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OSM - 100M - oil spots	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58303

DST#: 2

ATTN: Ken Wallace

Test Start: 2014.05.19 @ 21:47:00

Tool Information

Drill Pipe:	Length: 3713.98 ft	Diameter: 3.80 inches	Volume: 52.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 559.02 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4267.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4245.00	
Hydraulic tool	5.00			4250.00	
Jars	5.00			4255.00	
Safety Joint	3.00			4258.00	
Packer	4.00			4262.00	27.00 Bottom Of Top Packer
Packer	5.00			4267.00	
Stubb	1.00			4268.00	
Recorder	0.00	8368	Inside	4268.00	
Recorder	0.00	6753	Inside	4268.00	
Perforations	5.00			4273.00	
Change Over Sub	1.00			4274.00	
Drill Pipe	31.00			4305.00	
Change Over Sub	1.00			4306.00	
Bullnose	4.00			4310.00	43.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58303

DST#: 2

ATTN: Ken Wallace

Test Start: 2014.05.19 @ 21:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	OSM - 100M - oil spots	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

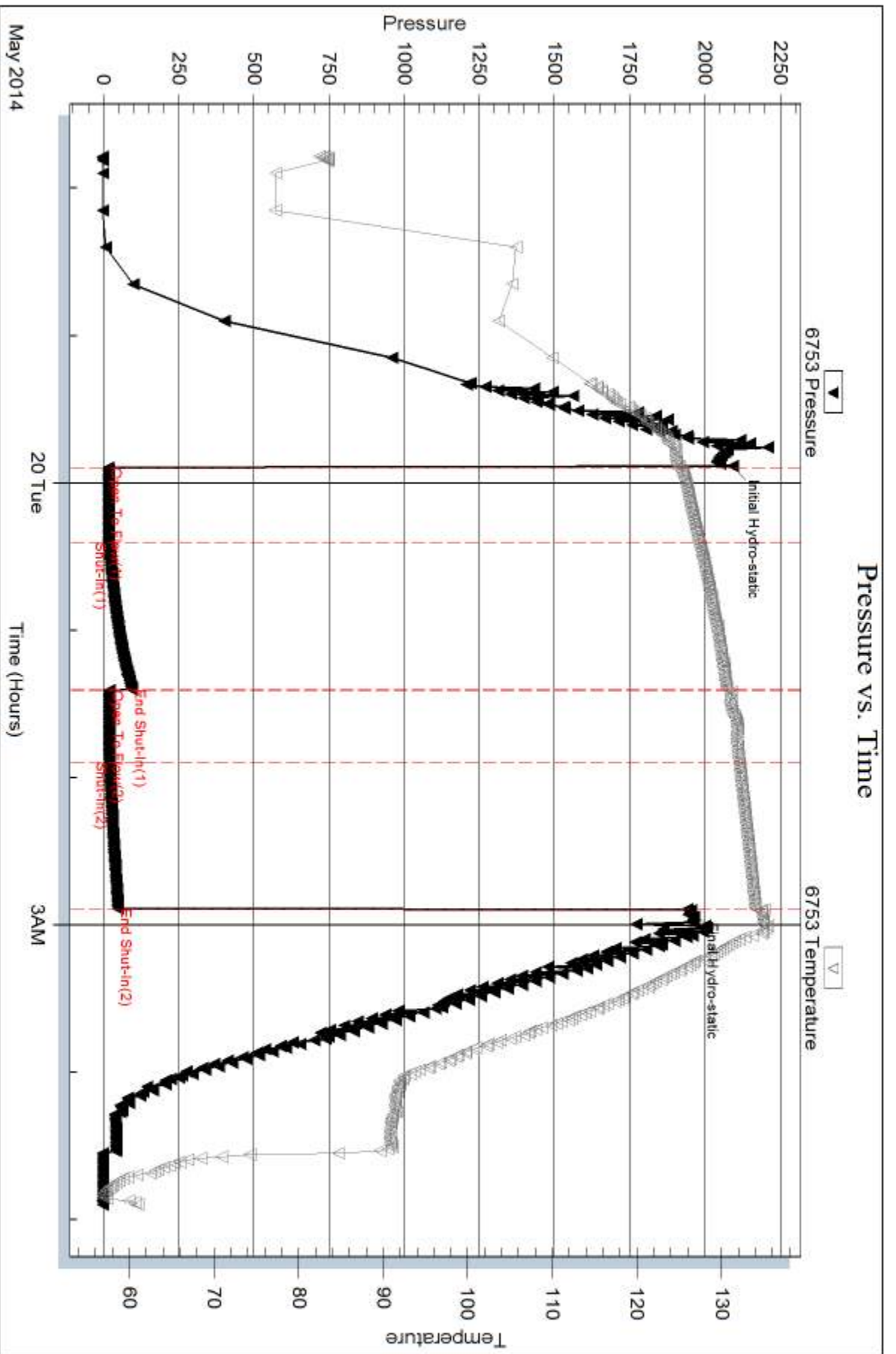
Num Gas Bombs: 0

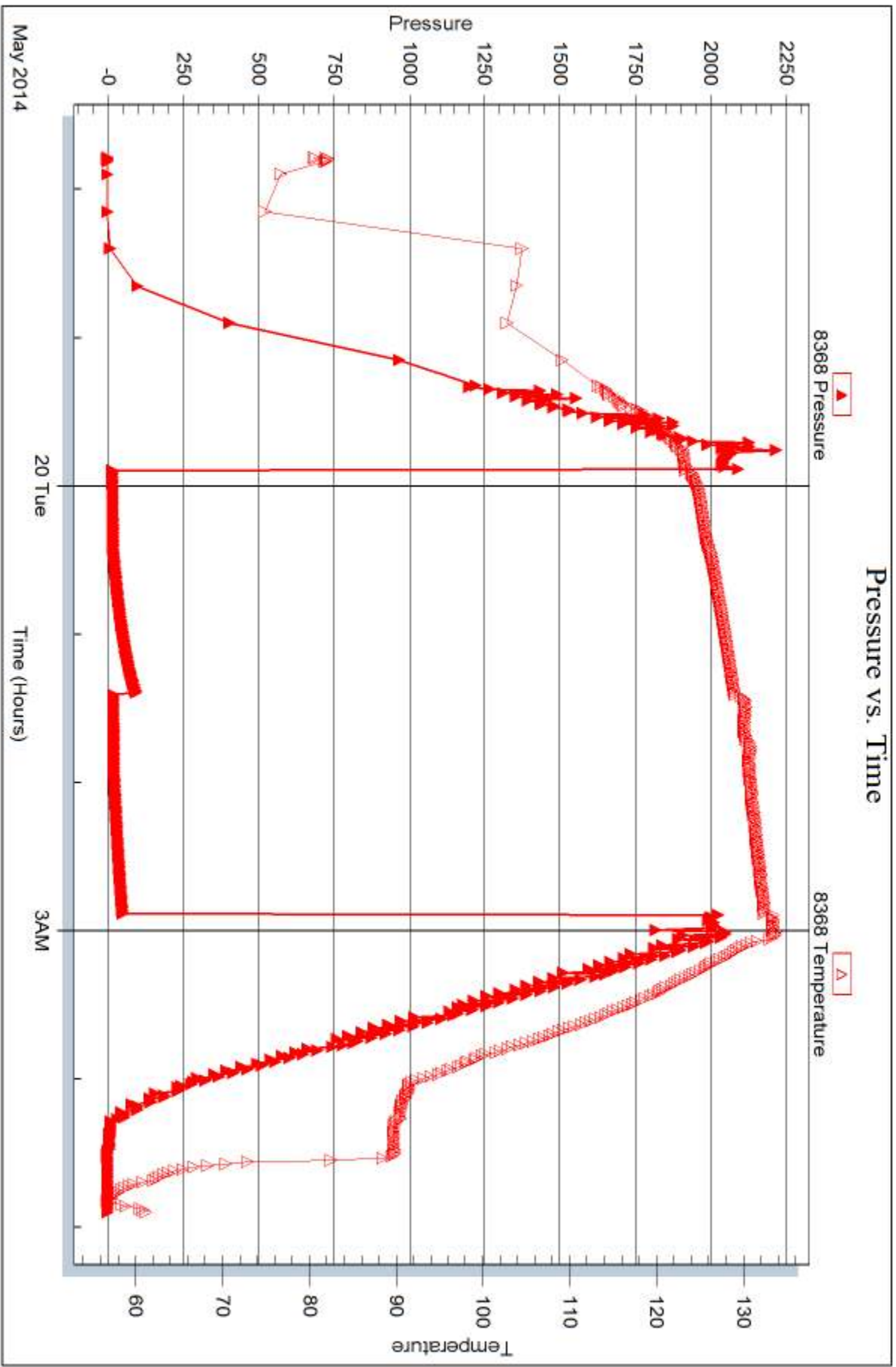
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Ken Wallace

Jones B #3-9

9-1s-37w Cheyenne,KS

Start Date: 2014.05.20 @ 18:52:00

End Date: 2014.05.21 @ 03:53:00

Job Ticket #: 58304 DST #: 3

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

Printed: 2014.05.27 @ 10:19:59



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water, Ste 300
Wichita KS 67202
ATTN: Ken Wallace

9-1s-37w Cheyenne,KS

Jones B #3-9

Job Ticket: 58304

DST#: 3

Test Start: 2014.05.20 @ 18:52:00

GENERAL INFORMATION:

Formation: **LKC 'J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:59:00
 Time Test Ended: 03:53:00
 Interval: **4307.00 ft (KB) To 4405.00 ft (KB) (TVD)**
 Total Depth: 4405.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3212.00 ft (KB)
 3202.00 ft (CF)
 KB to GR/CF: 10.00 ft

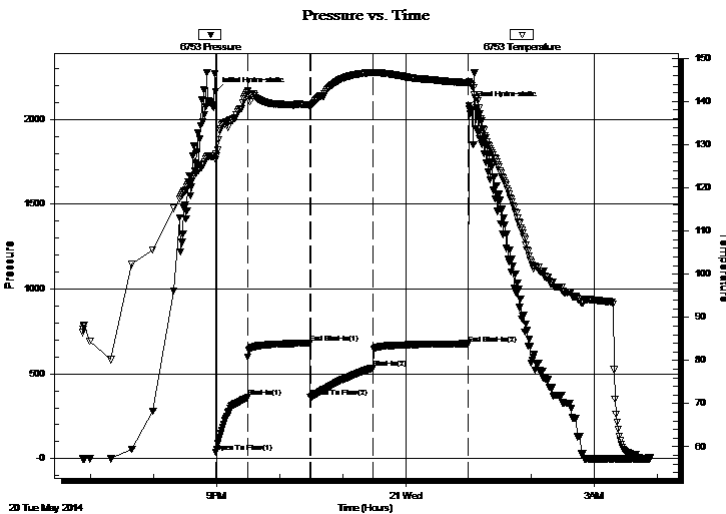
Serial #: 6753

Inside

Press@RunDepth: 534.41 psig @ 4308.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.20 End Date: 2014.05.21 Last Calib.: 2014.05.21
 Start Time: 18:52:05 End Time: 03:53:00 Time On Btm: 2014.05.20 @ 20:58:45
 Time Off Btm: 2014.05.21 @ 01:00:30

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 8 mins
 60 - ISI - No Return
 60 - FF - Surface blow built to bottom of bucket in 21 mins.
 90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.32	127.78	Initial Hydro-static
1	36.11	126.45	Open To Flow (1)
31	360.41	142.23	Shut-In(1)
91	680.71	139.11	End Shut-In(1)
91	361.18	138.94	Open To Flow (2)
151	534.41	146.67	Shut-In(2)
241	677.57	144.33	End Shut-In(2)
242	2081.73	144.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
846.00	MW - 5M - 95W	6.77
292.00	OSWM - 65M - 35W - oil spots	4.10

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

ATTN: Ken Wallace

Job Ticket: 58304

DST#: 3

Test Start: 2014.05.20 @ 18:52:00

GENERAL INFORMATION:

Formation: LKC 'J'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:59:00

Time Test Ended: 03:53:00

Interval: 4307.00 ft (KB) To 4405.00 ft (KB) (TVD)

Total Depth: 4405.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Reference Elevations: 3212.00 ft (KB)

3202.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press@RunDepth: psig @ 4308.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 18:52:05

End Time:

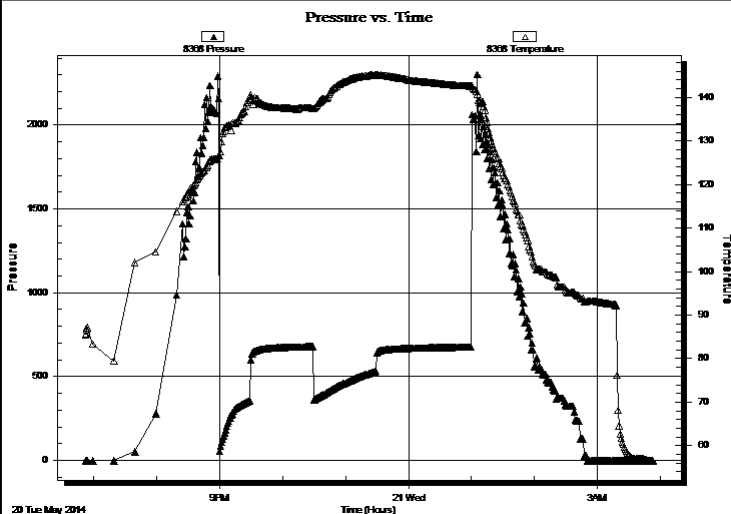
03:53:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 8 mins
60 - ISI - No Return
60 - FF - Surface blow built to bottom of bucket in 21 mins.
90 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
846.00	MW - 5M - 95W	6.77
292.00	OSWM - 65M - 35W - oil spots	4.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58304

DST#: 3

ATTN: Ken Wallace

Test Start: 2014.05.20 @ 18:52:00

Tool Information

Drill Pipe:	Length: 3746.11 ft	Diameter: 3.80 inches	Volume: 52.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 559.02 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 88000.00 lb
			<u>Total Volume: 55.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.13 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4307.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	125.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Jars	5.00			4295.00	
Safety Joint	3.00			4298.00	
Packer	4.00			4302.00	27.00 Bottom Of Top Packer
Packer	5.00			4307.00	
Stubb	1.00			4308.00	
Recorder	0.00	8368	Inside	4308.00	
Recorder	0.00	6753	Inside	4308.00	
Perforations	28.00			4336.00	
Change Over Sub	1.00			4337.00	
Drill Pipe	63.00			4400.00	
Change Over Sub	1.00			4401.00	
Bullnose	4.00			4405.00	98.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58304

DST#: 3

ATTN: Ken Wallace

Test Start: 2014.05.20 @ 18:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

75000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
846.00	MW - 5M - 95W	6.775
292.00	OSWM - 65M - 35W - oil spots	4.096

Total Length: 1138.00 ft

Total Volume: 10.871 bbl

Num Fluid Samples: 0

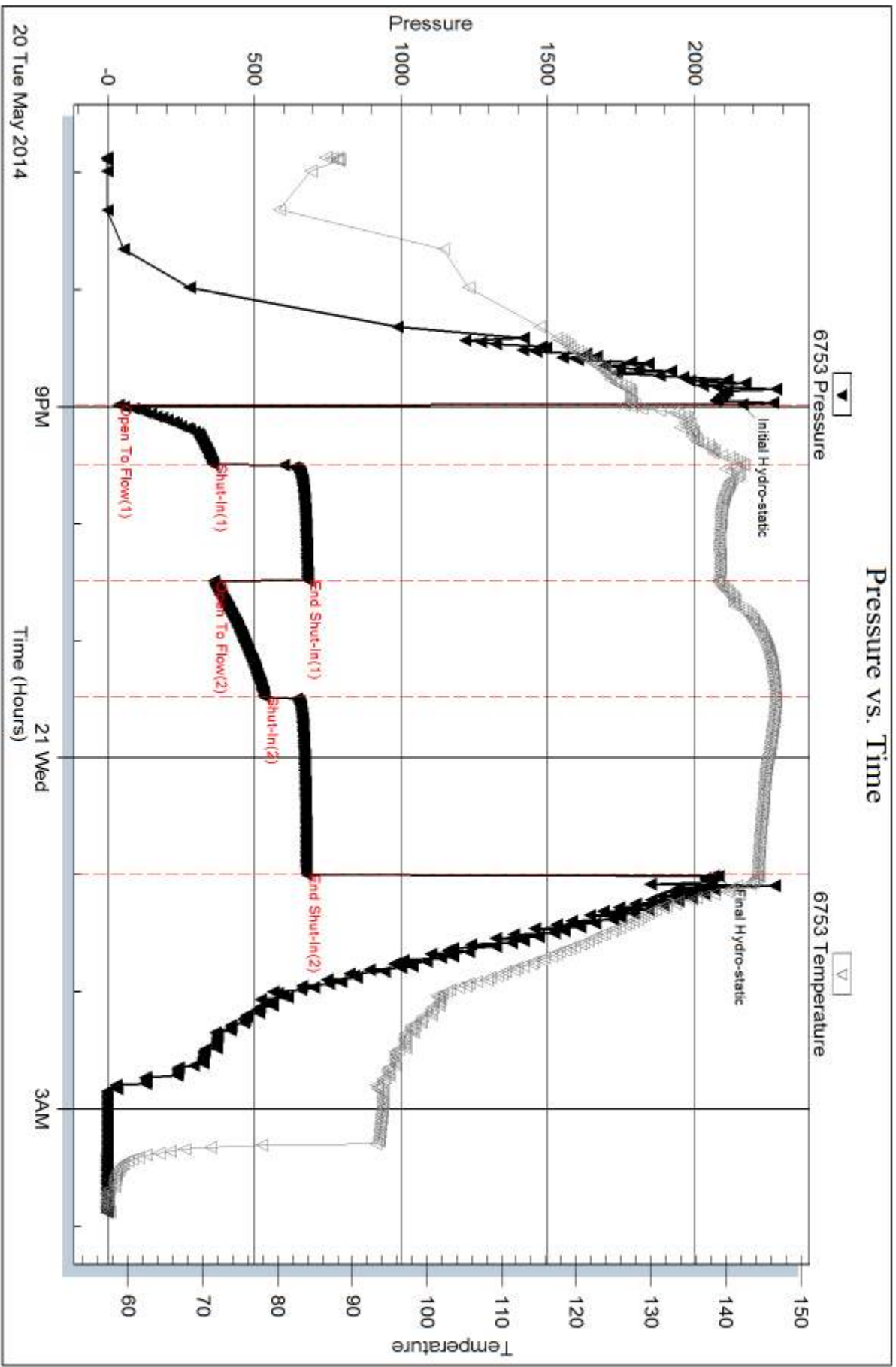
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



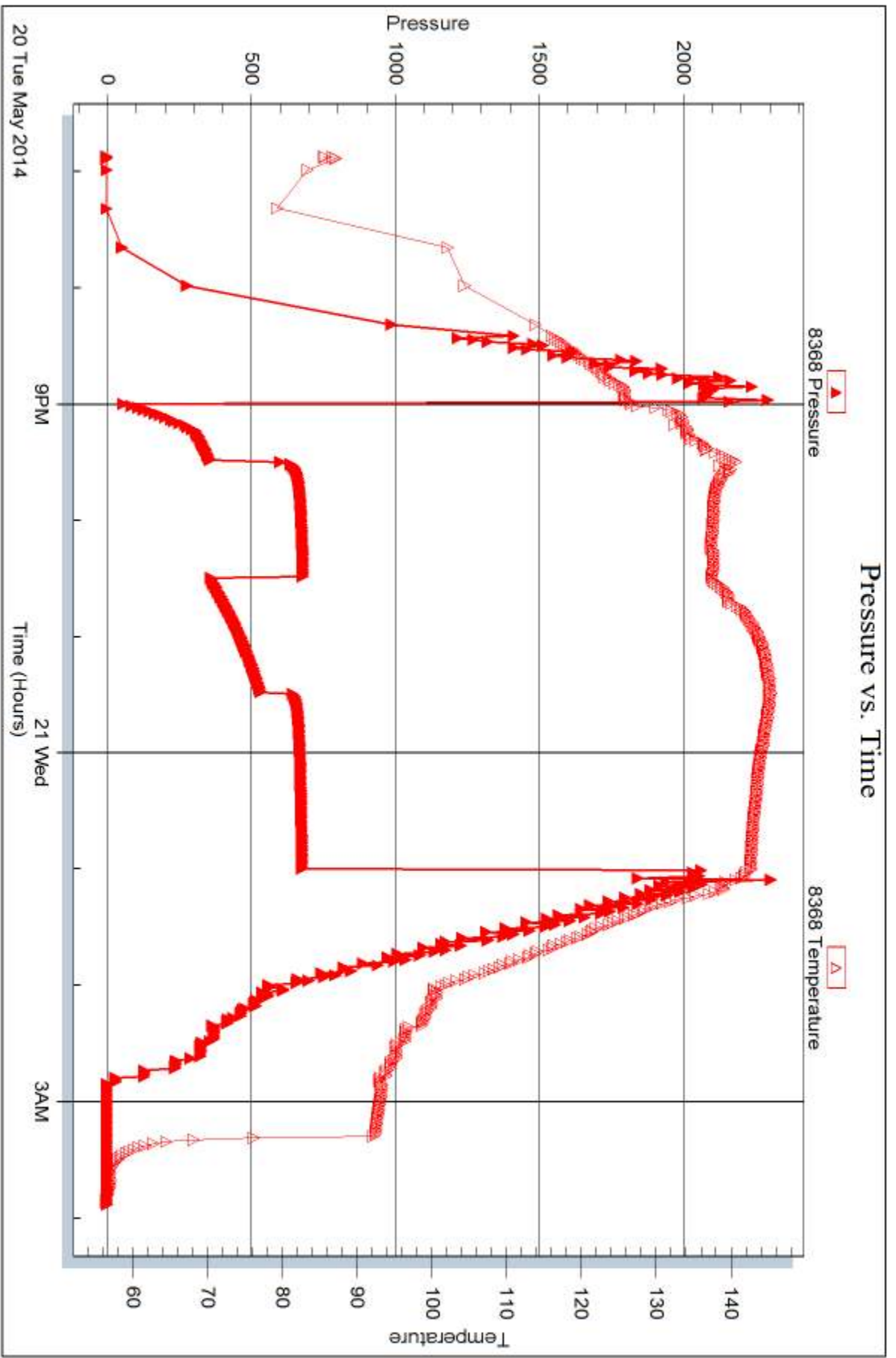
Serial #: 8368

Inside

Murfin Drilling Co., Inc.

Jones B#3-9

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58304

Printed: 2014.05.27 @ 10:20:00



DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita KS 67202

ATTN: Ken Wallace

Jones B #3-9

9-1s-37w Cheyenne,KS

Start Date: 2014.05.21 @ 22:21:00

End Date: 2014.05.22 @ 05:14:15

Job Ticket #: 58305 DST #: 4

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

Printed: 2014.05.27 @ 10:19:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58305

DST#: 4

ATTN: Ken Wallace

Test Start: 2014.05.21 @ 22:21:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:21:45

Time Test Ended: 05:14:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4550.00 ft (KB) To 4596.00 ft (KB) (TVD)

Reference Elevations: 3212.00 ft (KB)

Total Depth: 4596.00 ft (KB) (TVD)

3202.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6753

Inside

Press@RunDepth: 31.79 psig @ 4551.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.22

Last Calib.:

2014.05.22

Start Time: 22:21:05

End Time:

05:14:14

Time On Btm:

2014.05.22 @ 00:21:30

Time Off Btm:

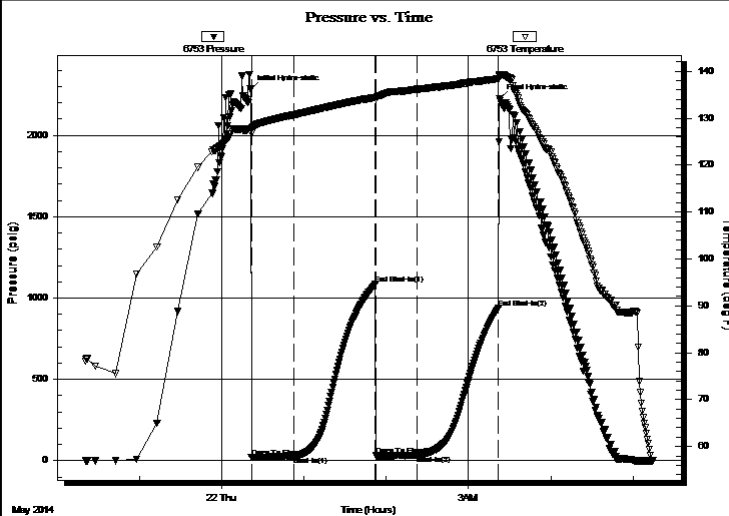
2014.05.22 @ 03:22:45

TEST COMMENT: 30 - IF - Surface blow built to 1/4"

60 - ISI - No Return

30 - FF - No Surface blow

60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.53	127.80	Initial Hydro-static
1	20.53	126.81	Open To Flow (1)
31	25.18	130.70	Shut-In(1)
91	1087.13	134.44	End Shut-In(1)
91	30.37	134.02	Open To Flow (2)
122	31.79	136.19	Shut-In(2)
181	938.67	138.36	End Shut-In(2)
182	2224.29	139.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	OSM - 100M - Oil Spots	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58305

DST#: 4

ATTN: Ken Wallace

Test Start: 2014.05.21 @ 22:21:00

Tool Information

Drill Pipe:	Length: 3968.04 ft	Diameter: 3.80 inches	Volume: 55.66 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 559.02 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 58.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.06 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4550.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4528.00	
Hydraulic tool	5.00			4533.00	
Jars	5.00			4538.00	
Safety Joint	3.00			4541.00	
Packer	4.00			4545.00	27.00 Bottom Of Top Packer
Packer	5.00			4550.00	
Stubb	1.00			4551.00	
Recorder	0.00	8368	Inside	4551.00	
Recorder	0.00	6753	Inside	4551.00	
Perforations	8.00			4559.00	
Change Over Sub	1.00			4560.00	
Drill Pipe	31.00			4591.00	
Change Over Sub	1.00			4592.00	
Bullnose	4.00			4596.00	46.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

9-1s-37w Cheyenne,KS

250 N. Water, Ste 300
Wichita KS 67202

Jones B #3-9

Job Ticket: 58305

DST#: 4

ATTN: Ken Wallace

Test Start: 2014.05.21 @ 22:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	OSM - 100M - Oil Spots	0.030

Total Length: 6.00 ft Total Volume: 0.030 bbl

Num Fluid Samples: 0

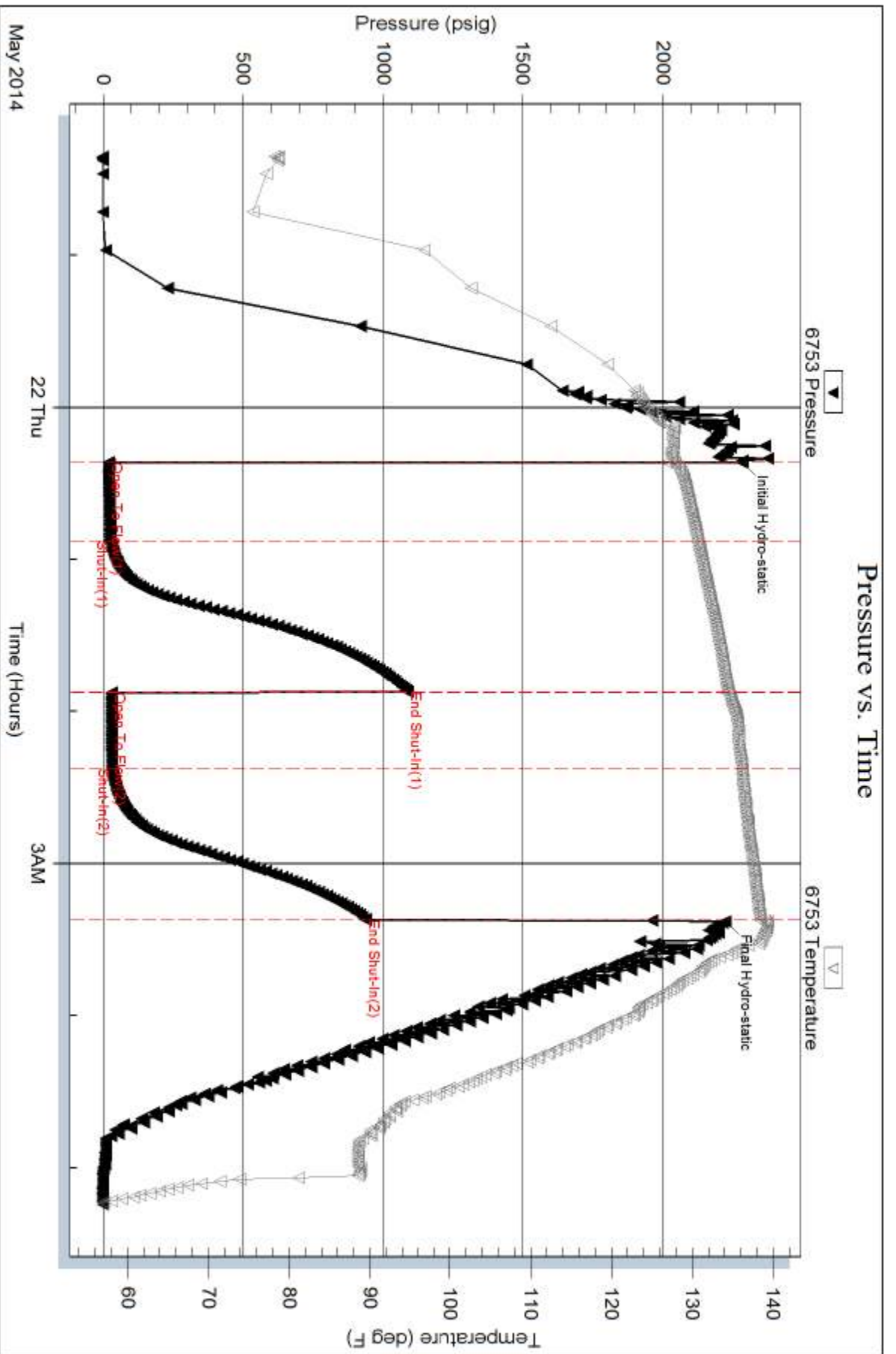
Num Gas Bombs: 0

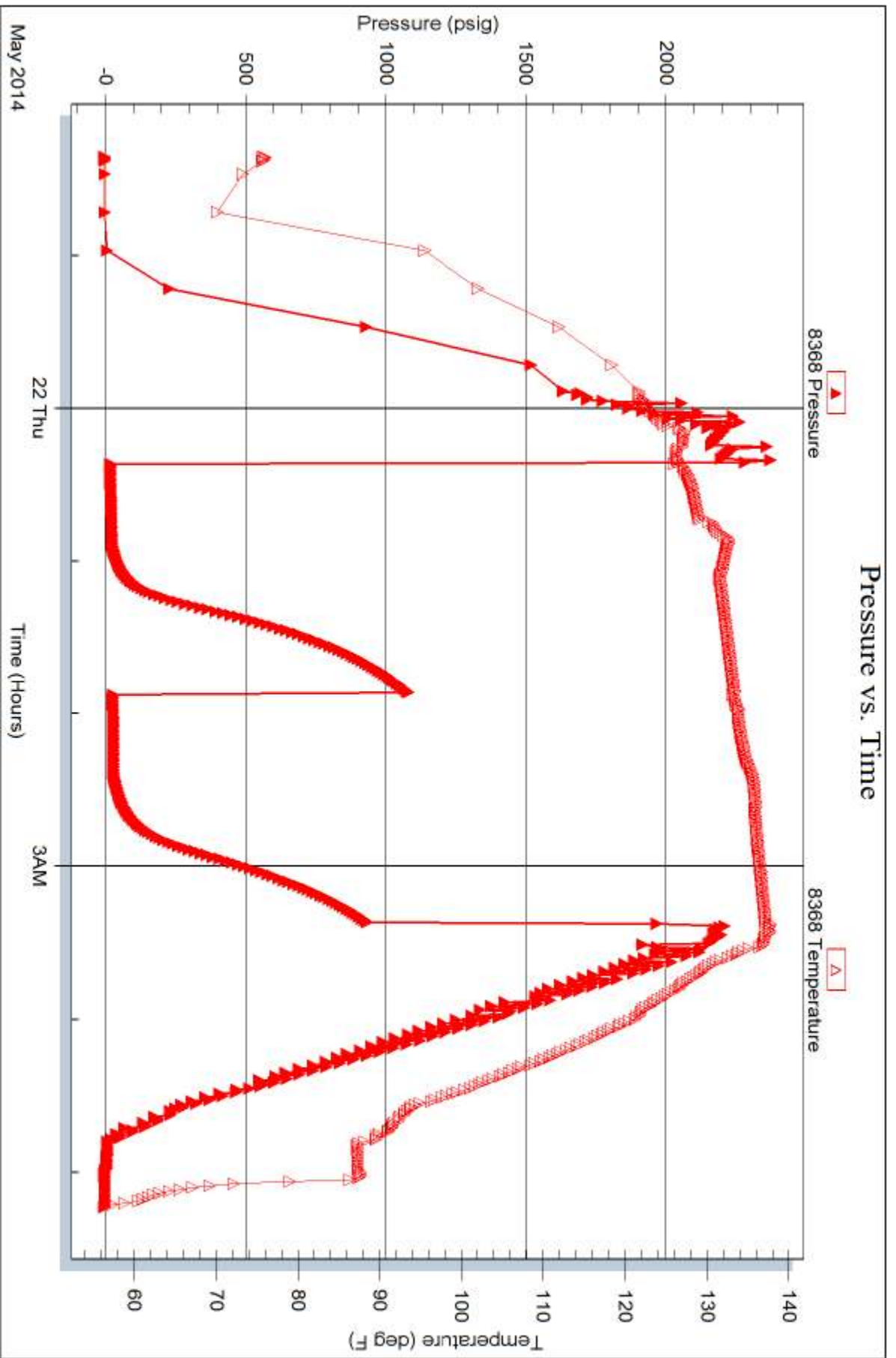
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58302

4/10

Well Name & No. Jones B #3-9 Test No. 1 Date 5-19-14
 Company Murfin Drilling Co., Inc. Elevation 3212 KB 3202 GL
 Address 250 N. Water, Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Ken Wallace Rig Murfin #14
 Location: Sec. 9 Twp. 1 Rge. 37W Co. Cheyenne State KS

Interval Tested 4201-4256 Zone Tested Lans-O
 Anchor Length 55' Drill Pipe Run 3619.19' Mud Wt. 9.2
 Top Packer Depth 4196 Drill Collars Run 559.02' Vis 62
 Bottom Packer Depth 4201 Wt. Pipe Run 0 WL 6.0
 Total Depth 4256 Chlorides 600 ppm System LCM 3#

Blow Description IF - surface blow built to 6 1/4"
ISI - No Return
FF - Weak surface blow started 4 mins into - built to 1 1/4"
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>94'</u>	<u>60cm</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>15'</u>	<u>Free Oil</u>		<u>100</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 109 BHT 136°F Gravity 30@60°F API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2046 Test 1250 T-On Location 12:15am
 (B) First Initial Flow 33 Jars 250 T-Started 1:46am
 (C) First Final Flow 44 Safety Joint 75 T-Open 3:45am
 (D) Initial Shut-In 679 Circ Sub N/C T-Pulled 7:45am
 (E) Second Initial Flow 49 Hourly Standby T-Out 9:47am
 (F) Second Final Flow 66 Mileage 150 R/T 232.50 Comments
 (G) Final Shut-In 669 Sampler
 (H) Final Hydrostatic 2022 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 0
 Total 1807.50
 MP/DST Disc't
 Sub Total 1807.50

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58303**

4/10

Well Name & No. Jones B #3-9 Test No. 2 Date 5-19-14
 Company Murfin Drilling Co, Inc. Elevation 3212 KB 3202 GL
 Address 250 N. Water, Ste. 300 Wichita Ks 67202
 Co. Rep / Geo. Ken Wallace Rig Murfin #14
 Location: Sec. 9 Twp. 1 Rge. 37W Co. Cheyenne State KS

Interval Tested 4267-4310 Zone Tested Lans - 'G'
 Anchor Length ~~4267~~ 43' Drill Pipe Run 3713.98 Mud Wt. 9.3
 Top Packer Depth 4262 Drill Collars Run ~~559.02~~ Vis 57
 Bottom Packer Depth 4267 Wt. Pipe Run 0 WL 6.0
 Total Depth 4310 Chlorides 600 ppm System LCM 2#

Blow Description IF - No surface blow
ISI - No Return
FF - No surface blow
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>asm</u>	<u>spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2' BHT 134°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2091 Test 1250 T-On Location 9:00 pm
 (B) First Initial Flow 16 Jars 250 T-Started 9:47 pm
 (C) First Final Flow 18 Safety Joint 75 T-Open 11:53 pm
 (D) Initial Shut-In 95 Circ Sub N/C T-Pulled 2:53 am
 (E) Second Initial Flow 20 Hourly Standby _____ T-Out 4:54 am
 (F) Second Final Flow 21 Mileage 150 R/T 232.50 Comments _____
 (G) Final Shut-In 49 Sampler _____
 (H) Final Hydrostatic 1955 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1807.50
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 1807.50

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58304**

Well Name & No. Jones B #3-9 Test No. 3 Date 5-20-14
 Company Murfin Drilling Co., Inc. Elevation 3212 KB 3202 GL
 Address 250 N. Water, Ste 300 #1 Wichita KS 67202
 Co. Rep / Geo. Ken Wallace Rig Murfin #4
 Location: Sec. 9 Twp. 1 Rge. 37W Co. Cheyenne State KS

Interval Tested 4307 - 4405 Zone Tested Lansing 'J'
 Anchor Length 98' Drill Pipe Run 3746.11 Mud Wt. 9.2
 Top Packer Depth 4302 Drill Collars Run 559.02 Vis 56
 Bottom Packer Depth 4307 Wt. Pipe Run 0 WL 5.2
 Total Depth 4405 Chlorides 800 ppm System LCM 8#
 Blow Description IF - surface blow built to bottom of bucket in 8 mins.
ISI - No Return
FF - Bottom surface blow built to bottom of bucket in 21 mins.
FST - No Return

Rec	Feet of	%gas	spots	%oil	%water	%mud
<u>292'</u>	<u>OSWM</u>			<u>35</u>	<u>65</u>	
<u>846'</u>	<u>MW</u>			<u>95</u>	<u>5</u>	

Rec Total 1138' BHT 144 Gravity _____ API RW 121 @ 60 ° F Chlorides 35000 ppm
 (A) Initial Hydrostatic 2162 Test 1250 T-On Location 6:25pm
 (B) First Initial Flow 36 Jars 250 T-Started 6:52pm
 (C) First Final Flow 360 Safety Joint 75 T-Open 8:59pm
 (D) Initial Shut-In 680 Circ Sub NIC T-Pulled 12:59am
 (E) Second Initial Flow 361 Hourly Standby _____ T-Out 3:53am
 (F) Second Final Flow 534 Mileage 150 RIT 232.50 Comments _____
 (G) Final Shut-In 677 Sampler _____
 (H) Final Hydrostatic 2081 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1807.50
 Total 1807.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

TriLOBITE Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **58305**

4/10

Well Name & No. Jones B # 3-9 Test No. 4 Date 5-21-14
 Company Murfin Drilling Co., Inc. Elevation 3212 KB 3202 GL
 Address 250 N. Water, Ste 300 Wichita KS 67202
 Co. Rep / Geo. Ken Wallace Rig Murfin #14
 Location: Sec. 9 Twp. 1 Rge. 37 W Co. Cheyenne State KS

Interval Tested 4550 - 4596 Zone Tested Pawnee
 Anchor Length 46' Drill Pipe Run 3968.04 Mud Wt. 9.2
 Top Packer Depth 4545 Drill Collars Run 559.02 Vis 69
 Bottom Packer Depth 4550 Wt. Pipe Run 0 WL 5.6
 Total Depth 4596 Chlorides 1500 ppm System LCM 6 #
 Blow Description IF - Surface blow built to 1/4"
ISI - No Return
FF - No Surface Blow
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>6'</u>	<u>QSM</u>	<u>Spots</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 6' BHT 138°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2281</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>10:10pm</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:21pm</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>12:22am</u>
(D) Initial Shut-In <u>1087</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>3:22am</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:14am</u>
(F) Second Final Flow <u>31</u>	<input checked="" type="checkbox"/> Mileage <u>150 R/T</u> 232.50	Comments <u>Picked up tool after test but not released.</u>
(G) Final Shut-In <u>938</u>	<input type="checkbox"/> Sampler _____	<u>Released 5-22-14 in afternoon</u>
(H) Final Hydrostatic <u>2224</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1807.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1807.50</u>	

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

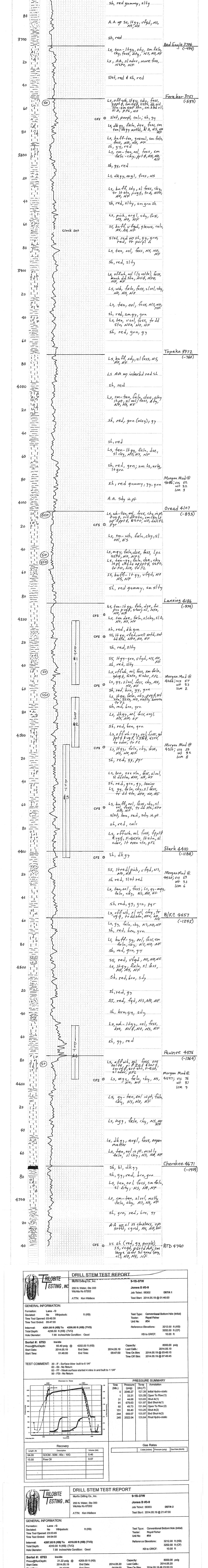
Operator: Murfen Drilling Co., Inc.	Job No: # 359	Well Name: 60 FN1 + 1980' F/WL	Location: 60 FN1 + 1980' F/WL
Lease: Stark	Area: 19	Section: 18	Range: 37W
County: Cherokee	State: OK	City: Wagoner	Field: 9
CONTRACTOR: Murfen Drilling Co., Inc.	Contractor No: 819	Job No: 359	Well Name: 60 FN1 + 1980' F/WL
LOG #1: 5/14/14	LOG #2: 5/14/14	LOG #3: 5/14/14	LOG #4: 5/14/14

REMARKS: Production casing was set to further evaluate zones of interest. Ken Wallace

5/12/14 - off rain
5/13/14 - Han load
5/14/14 - Finish mix
5/14/14 - Depth 2226' set surface casing:
5/16/14 - Depth 2490, dev 1/2 @ 1235'
5/17/14 - Depth 3585, dev 1/2 @ 3580'
5/18/14 - Depth 4065
5/19/14 - Depth 4425, DST #1 (25 zone)
5/20/14 - Depth 4930, DST #2 (66 zone)
5/21/14 - Depth 4410, DST #3 (475 zone)
5/22/14 - Depth 4570, DST #4 (Pawnee)
5/23/14 - RTD 4740, Ken Log, Set casing

LEGEND: Arty Shale, Soft, Sandstone, Shale, Clay sh, Limestone, Dolomite, Chert, Columnar

SCALE: 1" = 100'



3520		
40		
60		
80		
3600		
20		
40		
60		
80		
3700		
20		
40		
60		
80		
5800		
20		
40		
60		
80		
3900		
20		
40		
60		
80		
4000		
20		
40		
60		
80		
4100		
20		
40		
60		
80		
4200		
20		
40		
60		
80		
4300		
20		
40		
60		
80		
4400		
20		
40		
60		
80		
4500		
20		
40		
60		
80		
4600		
20		
40		
60		
80		
4700		
20		
40		
60		
80		

DRILL STEM TEST REPORT

Murfen Drilling Co., Inc. 250 N. Water, Site 300 Wichita, KS 67202

9-15-37W Jones B #3-9 Job Ticket: 58302 DST#1 Test Start: 2014.05.19 @ 01:46:00

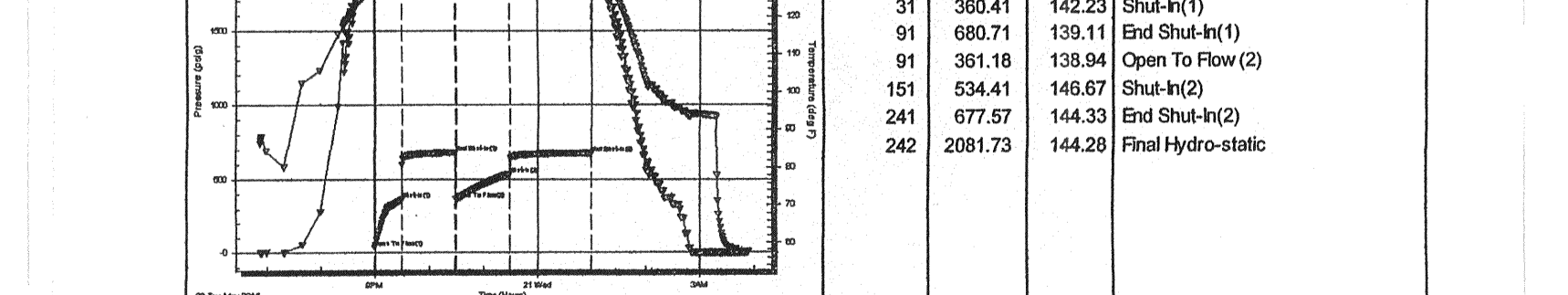
GENERAL INFORMATION: Formation: Lams - W Deviated: No Whipstock: 0 ft (KB) Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 03:43:30 Time Test Ended: 09:47:00 Tester: Royal Fisher Unit No: #54

Interval: 4201.00 ft (KB) To 4258.00 ft (KB) (TVD) Reference Elevations: 3212.00 ft (KB) 3202.00 ft (CF) Hole Diameter: 7.88 inches Hole Condition: Good KB to GRFCF: 10.00 ft

Serial #: 6753 Inside Interval: 21.22 psig @ 4202.00 ft (KB) Capacity: 8000.00 psig Press@RunDepth: 2014.05.19 End Date: 2014.05.21 Last Calls: 2014.05.22

Start Date: 2014.05.21 End Time: 2014.05.19 @ 03:45:15 09:47:00 Time On Blm: 2014.05.19 @ 02:21:30 Time Off Blm: 2014.05.19 @ 07:49:45

TEST COMMENT: 30 - F - Surface blow built to 6 1/4" 60 - ISI - No Return 60 - FF - Weak surface started 4 mins in and built to 1 1/4" 90 - FSI - No Return



Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.97	127.30	Initial Hydro-static
1	34.61	126.59	Open To Flow (1)
31	46.38	123.83	Shut-in (1)
91	679.63	131.97	End Shut-in (1)
92	40.73	131.84	Open To Flow (2)
151	66.40	133.25	Shut-in (2)
244	669.07	135.97	End Shut-in (2)
245	2022.04	135.64	Final Hydro-static

Length (ft)	Description	Volume (bbl)
34.00	OCBM - 50M - 400 - 10G	0.46
15.00	Free Oil	0.07

Length (ft)	Description	Volume (bbl)
2.00	OSM - 100M - oil spots	0.01

Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.53	127.76	Initial Hydro-static
1	30.41	126.45	Open To Flow (1)
31	36.01	142.23	Shut-in (1)
91	650.71	133.61	End Shut-in (1)
92	40.73	131.84	Open To Flow (2)
151	534.41	148.67	Shut-in (2)
241	677.57	144.33	End Shut-in (2)
242	2081.73	144.28	Final Hydro-static

Length (ft)	Description	Volume (bbl)
84.00	MV - 5M - OSW	5.77
292.00	OSVM - 65M - 35W - oil spots	4.10

Length (ft)	Description	Volume (bbl)
6.00	OSM - 100M - Oil Spots	0.03

Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.22	127.76	Initial Hydro-static
1	36.11	126.45	Open To Flow (1)
31	39.04	142.23	Shut-in (1)
91	650.71	133.61	End Shut-in (1)
92	40.73	131.84	Open To Flow (2)
151	534.41	148.67	Shut-in (2)
241	677.57	144.33	End Shut-in (2)
242	2081.73	144.28	Final Hydro-static

Length (ft)	Description	Volume (bbl)
2.00	OSM - 100M - oil spots	0.01

Length (ft)	Description	Volume (bbl)
6.00	OSM - 100M - Oil Spots	0.03

Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.53	127.76	Initial Hydro-static
1	30.41	126.45	Open To Flow (1)
31	36.01	142.23	Shut-in (1)
91	650.71	133.61	End Shut-in (1)
92	40.73	131.84	Open To Flow (2)
151	534.41	148.67	Shut-in (2)
241	677.57	144.33	End Shut-in (2)
242	2081.73	144.28	Final Hydro-static