

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
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 # 30606

Name: Murfin Drilling Company, Inc.

Address 1: 250 N Water, Suite 300

Address 2: _____

City: Wichita State: KS Zip: 67202 + _____

Contact Person: Francis Hirschmann

Phone: (316) 267-3241

CONTRACTOR: License # 30606

Name: Murfin Drilling Company, Inc.

Wellsite Geologist: Brad Rine

Purchaser: MV Purchasing, LLC

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

<u>10/29/2013</u>	<u>11/08/2013</u>	<u>11/25/2013</u>
Spud Date or	Date Reached TD	Completion Date or
Recompletion Date		Recompletion Date

API No. 15 - 153-20957-00-00

Spot Description: _____

S2 SW SW Sec. 23 Twp. 01 S. R. 36 East West

330 Feet from North / South Line of Section

660 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____

(e.g. xxx.xxxxx)

(e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: Rawlins

Lease Name: Burk Trust D Well #: 2-23

Field Name: East Fork

Producing Formation: LKC

Elevation: Ground: 3258 Kelly Bushing: 3263

Total Vertical Depth: 4760 Plug Back Total Depth: 4700

Amount of Surface Pipe Set and Cemented at: 260 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: 1000 ppm Fluid volume: 1200 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

INSTRUCTIONS: The original 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. If confidentiality is requested and approved, side two of this form will be held confidential for a period of 2 years. Rules 82-3-130, 82-3-106 and 82-3-107 apply. Drill Stem Test, Cement Tickets and Geological Well Report must be attached.

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: Francis Hirschmann

Title: Production Engineer Date: 02/25/2014

KCC Office Use ONLY KCC WICHITA

Confidentiality Requested

Date: 02-25-2014

FEB 25 2014

Confidential Release Date: 02-25-2016

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: KJR

Date: 2-01-2017

RECEIVED

FEB 25 2014

RECEIVED

Operator Name: Murfin Drilling Company, Inc. Lease Name: Burk Trust D Well #: 2-23
 Sec. 23 Twp. 01 S. R. 36 East West County: Rawlins

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 Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 See Attachment

List All E. Logs Run:
 Dual Induction, Dual Compensated Porosity,
 Microresistivity, Borehole Compensated

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.2500	8.6250	23	260	Common	220	3%cc
Production	7.8750	5.5000	15.5	4730	SMD/EA2	250/200	

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 (Amount and Kind of Material Used)	Depth
4	4246 - 4256 LKC D	1000 gal 15% MCA	
4	4304 - 4316 LKC G	(G&LwrG) 300 gal 20% MCA, 750 gal 20% NEFE	
4	4334 - 4336 LWR G		
4	4395 - 4403 LKC J	300 gal 15% MCA, 1000 gal 20% NEFE	

TUBING RECORD: Size: 2.875 Set At: 4448 Packer At: NA Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. 1/14/2014
 Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10		118		32

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3810 - 3852</u>
--	--	--

Formation	MDCI Burk Trust 'D' #2-23 330' FSL 660' FWL Sec. 23-T1S-R36W 3263' KB						MDCI Burk Trust 'C' #3-22 330' FSL 400' FEL Sec. 22-T1S-R36W 3240' KB			Berexco Bernita #1-27 440' FNL 340' FEL Sec. 27-T1S-R36W 3229' KB	
	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum	Log Top	Datum	
Anhydrite	3150	+113	+11 / +6	3156	+107	+5 / --	3138	+102	3122	+107	
B/Anhydrite	3193	+70	+4 / +1	3190	+73	+7 / +4	3174	+66	3160	+69	
Neva	3640	-377	+10 / +8	3646	-383	+4 / +2	3627	-387	3614	-385	
Red Eagle	3702	-439	+9 / +7	3706	-443	+5 / +3	3688	-448	3675	-446	
Foraker	3751	-488	+9 / 6	3753	-490	+7 / +4	3737	-497	3723	-494	
Topeka	3970	-707	+9 / +5	3971	-708	+8 / +4	3956	-716	3941	-712	
Oread	4085	-822	+7 / +11	4086	-823	+6 / +10	4069	-829	4062	-833	
Lansing	4184	-921	+12 / +9	4190	-927	+6 / +3	4173	-933	4159	-930	
Stark	4396	-1133	+19 / +14	4407	-1144	+8 / +3	4392	-1152	4376	-1147	
BKC	4441	-1178	+20 / +14	4456	-1193	+5 / -1	4438	-1198	4421	-1192	
Pawnee	4572	--1309	NR / +8	4573	-1310	NR / +7	DNR		4546	-1317	
RTD	4760	-1497					4545	-1305	4600	-1371	
LTD				4765	-1502		4547	-1307	4599	-1370	

KCC WICHITA

FEB 25 2014

RECEIVED

ALLIED

OIL & GAS SERVICES, LLC

*acct.
Prod-LH*

INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 1395 08

Invoice Date: Oct 29, 2013

Voice: (817) 546-7282
Fax: (817) 246-3361

Page: 1 **KCC WICHITA**

Now Includes: **FEB 25 2014**



RECEIVED

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

Customer ID	Field/Ticket #	Payment Terms	
Murfin	61405	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 29, 2013	11/28/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Burk rust D #2-23		
220.00	CEMENT MATERIALS	Class A Common	17.90	3,938.00
8.00	CEMENT MATERIALS	Chloride	64.00	512.00
231.00	CEMENT SERVICE	Cubic Feet	2.48	572.88
958.50	CEMENT SERVICE	Ton Mileage	2.60	2,492.10
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
90.00	CEMENT SERVICE	Pump Truck Mileage	7.70	693.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
90.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	396.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	OPERATOR ASSISTANT	Adam Flipse		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		

DD

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

\$ 3636.93

ONLY IF PAID ON OR BEFORE
NOV 23 2013

Subtotal	10,391.23
Sales Tax	351.55
Total Invoice Amount	10,742.78
Payment/Credit Applied	
TOTAL	10,742.78

ALLIED OIL & GAS SERVICES, LLC 061405

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Oskley

KCC WICHITA

FEB 25 2014

RECEIVED

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
10-29-13	23	1	36			11:30 AM	12:00 AM
Burr Trust LEASE		WELL # 2-23	LOCATION McDonald 7N-1E-1N		COUNTY Rowles	STATE KS	
OLD OR (NEW) (Circle one)			1E 1N 1/4 E 1N 1/4 W. Minto				

CONTRACTOR <u>Murfin 8</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u> TD. <u>260'</u>	AMOUNT ORDERED <u>220 lbs com</u>
CASING SIZE <u>8 3/8</u> DEPTH <u>260'</u>	<u>3% cc</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>220 lbs</u> @ <u>12.90</u> <u>3938.00</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSO. <u>15'</u>	GEL @
PERFS.	CHLORIDE <u>8 lbs</u> @ <u>64.00</u> <u>512.00</u>
DISPLACEMENT <u>15.60 BBL</u>	ASC @

EQUIPMENT	
PUMP TRUCK CEMENTER. <u>Andrew Ferstl</u>	
# <u>422</u> HELPER. <u>Terry Heinrich</u>	
BULK TRUCK DRIVER <u>Adam Fipse</u> <u>Brandon</u>	
# <u>818</u> DRIVER <u>Dickinson</u>	
BULK TRUCK DRIVER	
HANDLING <u>2.31 cu/ft</u> @ <u>2.48</u> <u>572.88</u>	
MILEAGE <u>2.60</u> @ <u>16.50</u> <u>42.90</u>	
TOTAL <u>7514.88</u>	

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB <u>260'</u>	
PUMP TRUCK CHARGE <u>1572.25</u>	
EXTRA FOOTAGE @	
MILEAGE <u>9.2 miles</u> @ <u>7.20</u> <u>662.40</u>	
MANIFOLD head @ <u>375.00</u>	
Light vehicle @ <u>440</u> <u>396.00</u>	
TOTAL <u>2874.25</u>	

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
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.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 10,391.23

DISCOUNT 3,636.93 IF PAID IN 30 DAYS

6,754.30 Net

SWIFT



Services, Inc.

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

Acety

cc: WF
cc: Liz
cc: L-1

Invoice

DATE	INVOICE #
11/9/2013	25785

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

APPROVED JTR

- Acidizing KCC WICHITA
- Cement FEB 25 2014
- Tool Rental RECEIVED

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-23	Burke Trust D	Rawlins	Murfin Drilling	Oil	Development	5-1/2" LongString	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				140	Miles	6.00	840.00
579D	Pump Charge - Top To Bottom LongString				1	Job	2,000.00	2,000.00
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				14	Each	90.00	1,260.00T
413-5	5 1/2" Roto Wall Scratcher				15	Each	40.00	600.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
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				100	Lb(s)	4.50	450.00T
290	D-Air				5	Gallon(s)	42.00	210.00T
325	Standard Cement				200	Sacks	14.50	2,900.00T
330	Swift Multi-Density Standard (MIDCON II)				300	Sacks	18.50	5,550.00T
581D	Service Charge Cement				500	Sacks	2.00	1,000.00
583D	Drayage				3,552.85	Ton Miles	1.00	3,552.85
Subtotal								21,665.35
Sales Tax Rawlins County							7.90%	1,127.53
We Appreciate Your Business!						Total		\$22,792.88



CHARGE TO: **MURFIN DRILLING**
 ADDRESS:
 CITY, STATE, ZIP CODE:

KCC WICHT?.
 FEB 25 2014
 RECEIVED

TICKET 25785

PAGE 1 OF 2

SERVICE LOCATIONS 1. NESS CITY, KS	WELL/PROJECT NO. D-2-23	LEASE BURKE TRUST	COUNTY/PARISH RAWLINS	STATE KS.	CITY MCDONALD, KS	DATE 9 NOV 13	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR MURFIN DRILLING RIG # 8	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5' LONG STRING	WELL PERMIT NO.	WELL LOCATION 7N, 1E, 1N, 1/2 E, 2N, 1/2 W, N 1/2 D		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACGT	DF			U/M			
575					MILEAGE #115	140	mi	6.00		840.00
579					PUMP CHARGE	1	FSB	2000.00		2000.00
403					CEMENT BASKETS	3	EA.	300.00		900.00
406					LATCH DOWN PLUG & RAFFLE	1	EA	275.00		275.00
407					INSERT FLOAT SHOE W/AUTO FILL	1	EA	375.00		375.00
409					TURBO LIZERS.	14	EA.	90.00		1260.00
413					ROTO WALL SCRATCHERS.	15	EA.	40.00		600.00
419					ROTATING HEAD RENTAL	1	HR	200.00		200.00
281					MUD FLUSH	500	gal	1.25		625.00
221					LIVID KCL	4	gal	25.00		100.00

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

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

X *Buck Sales*
 DATE SIGNED **9 Nov 13** 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	PAGE TOTAL 1	7175.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2	14,490.35
WE UNDERSTOOD AND MET YOUR NEEDS?				sub total	21,665.35
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Rawlins TAX 17.9%	1127.53
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	22,792.88
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

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

SWIFT OPERATOR *[Signature]*

APPROVAL *[Signature]* Thank You!



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

TICKET CONTINUATION

TICKET No. 25785

CUSTOMER **MILREIN DRILLING** WELL **BURKE TRUST D 2-23** DATE **9 Nov 13** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QUANTITY				UNIT PRICE	AMOUNT
		LOC	ACCT	DE			QTY	UM	QTY	UM		
276						FLDCFLC	125	lbs			2.50	312.50
283						SALT	1000	lbs			.20	200.00
284						CALBEAL	9	SX			35.00	315.00
285						CFR-1	100	lbs			4.50	450.00
290						D-AIR	5	SX			42.00	210.00
<p>KCC WICHITA FEB 25 2014 RECEIVED</p>												
325						STANDARD CEMENT EA-2	200	SX			14.50	2900.00
330						SMD CEMENT	300	SX			18.50	5550.00
581						SERVICE CHARGE					2.00	1000.00
583						MILEAGE CHARGE					1.00	3552.85

CONTINUATION TOTAL 14,490.55

JOB LOG

SWIFT Services, Inc.

DATE 9/20/13 PAGE NO.

CUSTOMER MURPHY DRILLING

WELL NO. D-2-93

LEASE BURKE TRUST

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 25785

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							ON LOCATION
	1100							KCC WICHITA FEB 25 2014 RECEIVED START PIPE - 5 1/2" - 15.5 H RTD @ 4760 SET @ 4730 SHAFT. 21.40' CENTRALIZERS 1,3,5,6,7,8,9,10,11,12,13,14,37,56. BASKETS 15,38,57
	1314							DROP BALL CIRCULATE.
	1410	6	12		✓		300	Pump 500 gal MUD FLUSH
		6	20		✓		300	Pump 20 BBL KCL FLUSH
	1416		7.5					PLUG RH-30sx, MH-20sx
	1421	6	138		✓			MIX 250sx SMD
		6	48		✓			MIX 200sx EA-2
	1503							WASH OUT Pump & LINES.
	1506	6			✓			START DISPLACING PLUG.
	1525	Ø	112		✓		1800	PLUG DOWN. LATCH IN.
	1528				✓			RELEASE PSI - DRY
	1530							WASH TRUCK
	1600							JOB COMPLETE THANKS #115 JASON DUSTY DAUG JOHN

The image shows a vertical table with multiple columns and rows. The text is very small and dense, making it difficult to read. It appears to be a ledger or a data sheet with various columns for recording information.

KCC WICHITA

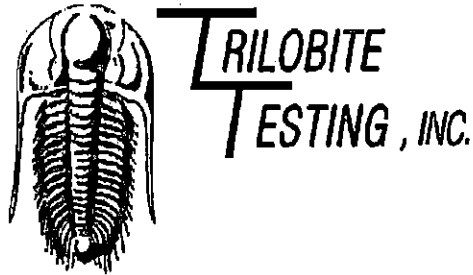
FEB 25 2014

RECEIVED

KCC WICHITA

FEB 25 2014

RECEIVED



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Brad Rine

Burk Trust 'D' #2-23

23-1s-36w Rawlins KS

Start Date: 2013.11.03 @ 13:00:00

End Date: 2013.11.03 @ 22:53:45

Job Ticket #: 55012 DST #: 1

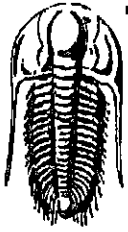
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.12 @ 09:13:27

Murfin Drilling Co., Inc. 23-1s-36w Rawlins KS Burk Trust 'D' #2-23 DST # 1 Oread 2013.11.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'D' #2-23

Job Ticket: 55012

DST#: 1

ATTN: Brad Rine

KCC WICHITA

Test Start: 2013.11.03 @ 13:00:00

GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:35:00
 Time Test Ended: 22:53:45

FEB 25 2014

RECEIVED

Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 57

Interval: **4050.00 ft (KB) To 4096.00 ft (KB) (TVD)**
 Total Depth: 4096.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3263.00 ft (KB)
 3258.00 ft (CF)
 KB to GR/CF: 5.00 ft

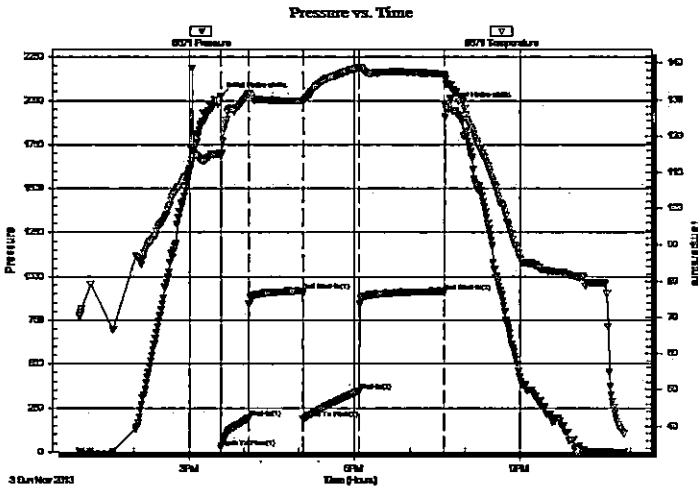
Serial #: 8671

Inside

Press@RunDepth: 346.70 psig @ 4051.00 ft (KB)
 Start Date: 2013.11.03 End Date: 2013.11.03
 Start Time: 13:00:05 End Time: 22:53:45

Capacity: 8000.00 psig
 Last Calib.: 2013.11.03
 Time On Btm: 2013.11.03 @ 15:34:45
 Time Off Btm: 2013.11.03 @ 19:38:45

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 13 1/2 min.
 60 - IS: No blow back
 60 - FF: Blow built to BOB in 15 3/4 min.
 90 - FS: Blow back built to 5 1/4"



PRESSURE SUMMARY

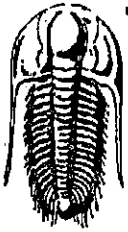
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.05	115.26	Initial Hydro-static
1	25.58	114.46	Open To Flow (1)
31	190.91	131.31	Shut-In(1)
90	917.16	129.57	End Shut-In(1)
90	187.23	129.30	Open To Flow (2)
151	346.70	138.59	Shut-In(2)
242	915.00	136.76	End Shut-In(2)
244	1972.09	135.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	Water w/Oil spots 92%w, 5%m, 3%o	0.91
190.00	MOCW 70%w, 12%o mix, 11%m, 7%g	2.67
287.00	GOCWM 49%m, 32%w, 10%g, 9%o mix	4.03
30.00	MVCO 75%o, 13%w, 10%m, 2%g	0.42
45.00	SMCO 84%o, 8%m, 8%g	0.63
0.00	GIP = 140'	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.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

KCC WICHITA

Burk Trust 'D' #2-23

Job Ticket: 55012

DST#: 1

ATTN: Brad Rine

FEB 25 2014

Test Start: 2013.11.03 @ 13:00:00

Tool Information

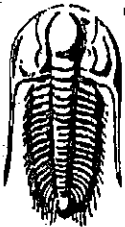
RECEIVED

Drill Pipe:	Length: 3851.00 ft	Diameter: 3.80 inches	Volume: 54.02 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 54.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4050.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Hit a bridge 9 or 10 stands off bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4027.00	
Hydraulic tool	5.00			4032.00	
Jars	5.00			4037.00	
Safety Joint	3.00			4040.00	
Packer	5.00			4045.00	28.00 Bottom Of Top Packer
Packer	5.00			4050.00	
Packer - Shale	0.00			4050.00	
Stubb	1.00			4051.00	
Recorder	0.00	8671	Inside	4051.00	
Recorder	0.00	8320	Outside	4051.00	
Perforations	9.00			4060.00	
Blank Spacing	33.00			4093.00	
Bullnose	3.00			4096.00	46.00 Bottom Packers & Anchor

Total Tool Length: 74.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

KCC WICHITA

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

FEB 25 2014

Burk Trust 'D' #2-23

Job Ticket: 55012

DST#: 1

ATTN: Brad Rine

RECEIVED

Test Start: 2013.11.03 @ 13:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 6.38 in³
Resistivity: ohm.m
Salinity: 700.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 23.6 deg API
Water Salinity: 44000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water w/Oil spots 92%w, 5%m, 3%o	0.915
190.00	MOCW 70%w., 12%o mix, 11%m, 7%g	2.665
287.00	GOCWM 49%m, 32%w, 10%g, 9%o mix	4.026
30.00	MVCO 75%o, 13%w, 10%m, 2%g	0.421
45.00	SMCO 84%o, 8%m, 8%g	0.631
0.00	GIP = 140'	0.000

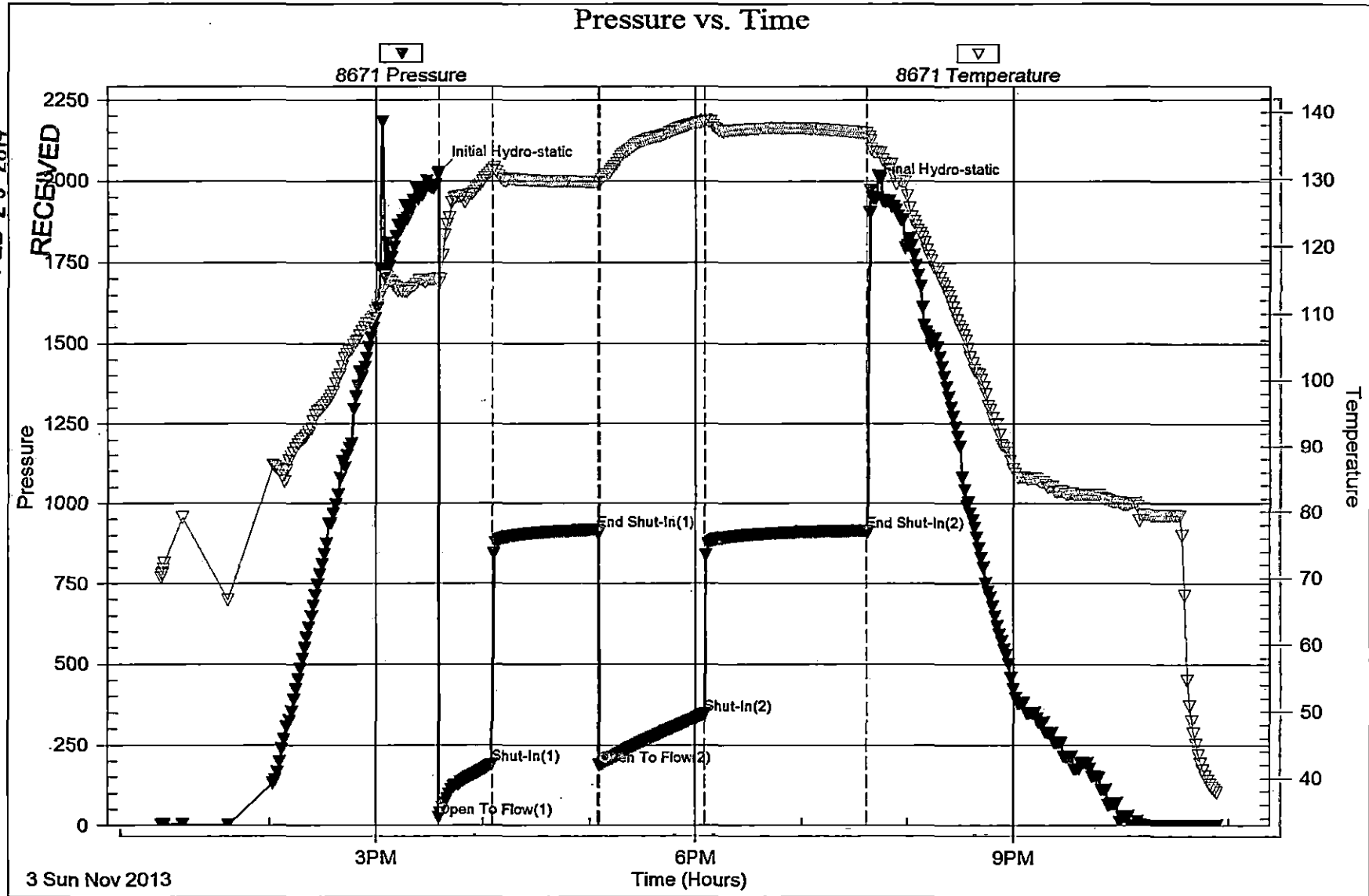
Total Length: 738.00 ft Total Volume: 8.658 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 21.8 api @ 42 deg F
RW = .265 ohms @ 44.5 deg F

KCC WICHITA
FEB 25 2014



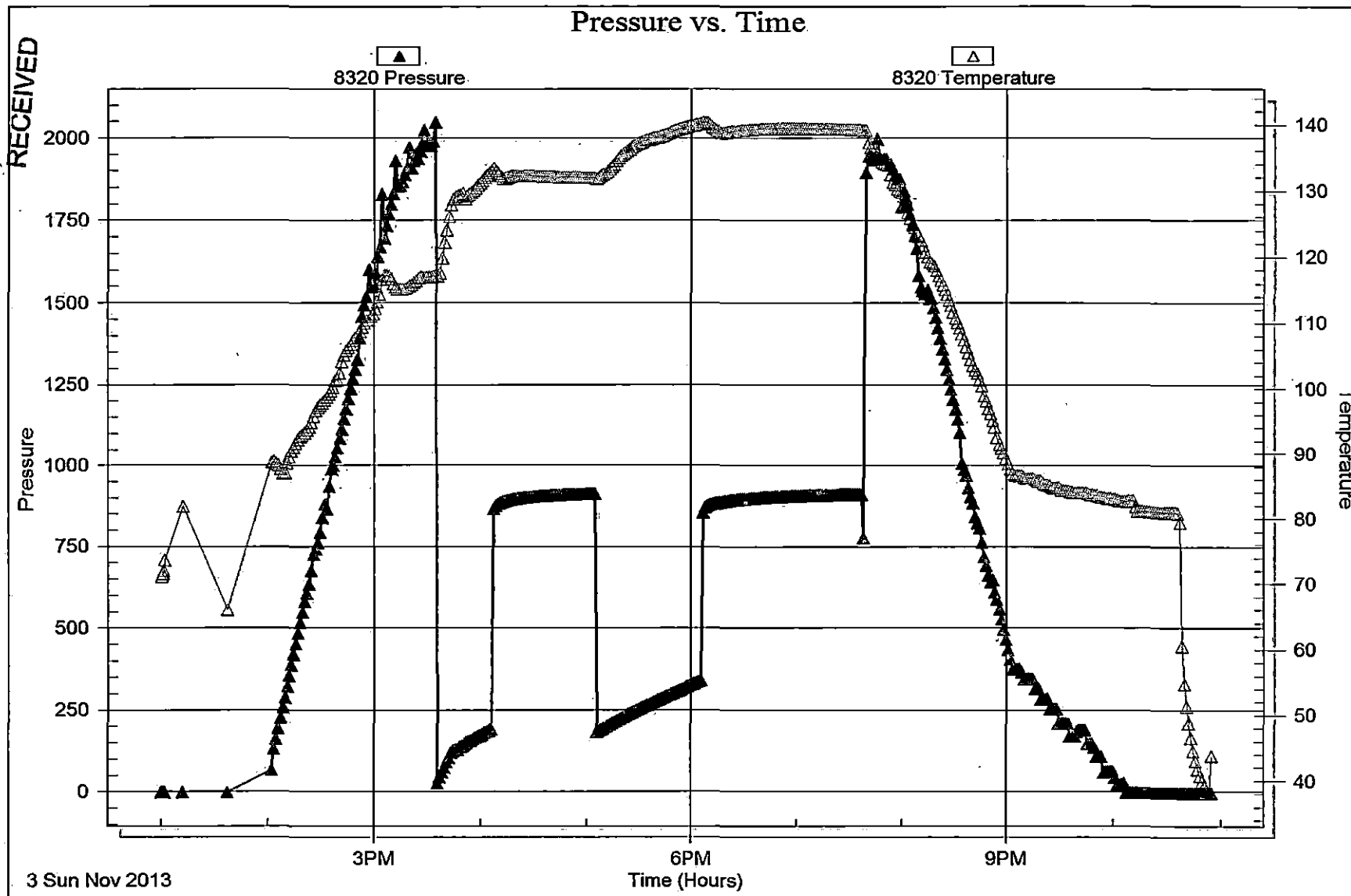
Serial #: 8320

Outside Murfin Drilling Co., Inc.

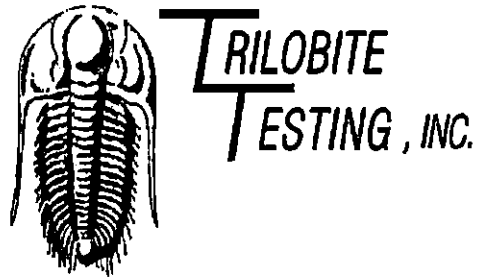
Burk Trust 'D' #2-23

DST Test Number: 1

KCC WICHITA
FEB 25 2014



KCC WICHITA
FEB 25 2014
RECEIVED



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Brad Rine

Burk Trust 'D' #2-23

23-1s-36w Rawlins KS

Start Date: 2013.11.04 @ 16:25:00

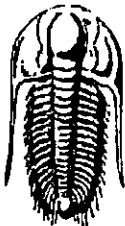
End Date: 2013.11.05 @ 07:12:45

Job Ticket #: 55852 DST #: 2

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

Printed: 2013.11.12 @ 09:13:03

Murfin Drilling Co., Inc. 23-1s-36w Rawlins KS Burk Trust 'D' #2-23 DST # 2 LKC "D" 2013.11.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

KCC WICHITA

Burk Trust 'D' #2-23

FEB 25 2014

Job Ticket: 55852

DST#: 2

ATTN: Brad Rine

Test Start: 2013.11.04 @ 16:25:00

RECEIVED

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:06:30

Time Test Ended: 07:12:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 57

Interval: **4201.00 ft (KB) To 4276.00 ft (KB) (TVD)**

Reference Elevations: 3263.00 ft (KB)

Total Depth: 4276.00 ft (KB) (TVD)

3258.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 741.62 psig @ 4209.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.04

End Date: 2013.11.05

Last Calib.: 2013.11.05

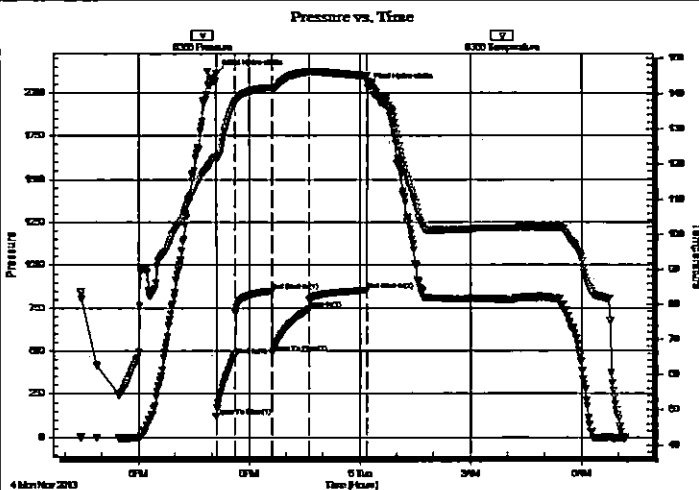
Start Time: 16:25:05

End Time: 07:12:45

Time On Btm: 2013.11.04 @ 20:06:15

Time Off Btm: 2013.11.05 @ 00:13:30

TEST COMMENT: I.F. - 30 - BOB in 2 min 10 sec
I.S.I. - 60 - Blow back built to 8 1/2"
F.F. - 60 - BOB in 3 min 45 sec
F.S.I. - 90 - Blow back started at 10 min. built to BOB in 75 min



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.73	122.18	Initial Hydro-static
1	120.77	121.49	Open To Flow (1)
31	472.62	137.38	Shut-In(1)
91	849.53	141.60	End Shut-In(1)
91	488.83	141.49	Open To Flow (2)
152	741.62	146.18	Shut-In(2)
246	853.38	145.10	End Shut-In(2)
248	2035.14	142.94	Final Hydro-static

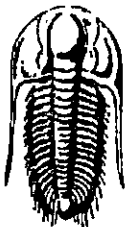
Recovery

Length (ft)	Description	Volume (bbl)
189.00	SOWCM 2% OIL 40% WATER 58% MUD	0.96
260.00	SWMCGO 2% WATER 5% MUD 15% GAS 3.65 OIL	
1200.00	CLEAN OIL 100%	16.83
0.00	GIP 220'	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

KCC WICHITA

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

FEB 25 2014

Burk Trust 'D' #2-23

Job Ticket: 55852

DST#: 2

ATTN: Brad Rine

RECEIVED

Test Start: 2013.11.04 @ 16:25:00

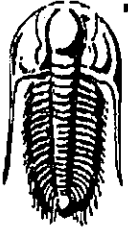
Tool Information

Drill Pipe:	Length: 4005.00 ft	Diameter: 3.80 inches	Volume: 56.18 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 57.09 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4201.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 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			4178.00	
Hydraulic tool	5.00			4183.00	
Jars	5.00			4188.00	
Safety Joint	3.00			4191.00	
Packer	5.00			4196.00	28.00 Bottom Of Top Packer
Packer	5.00			4201.00	
Packer - Shale	0.00			4201.00	
Stubb	1.00			4202.00	
Perforations	6.00			4208.00	
Change Over Sub	1.00			4209.00	
Recorder	0.00	8366	Inside	4209.00	
Recorder	0.00	8320	Outside	4209.00	
Drill Pipe	63.00			4272.00	
Change Over Sub	1.00			4273.00	
Bullnose	3.00			4276.00	75.00 Bottom Packers & Anchor

Total Tool Length: 103.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

KCC WICHITA

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

FEB 25 2014

Burk Trust 'D' #2-23

Job Ticket: 55852

DST#: 2

ATTN: Brad Rine

RECEIVED

Test Start: 2013.11.04 @ 16:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.79 in³
Resistivity: ohm.m
Salinity: 900.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 23 deg API
Water Salinity: 56000 ppm

Recovery Information

Recovery Table

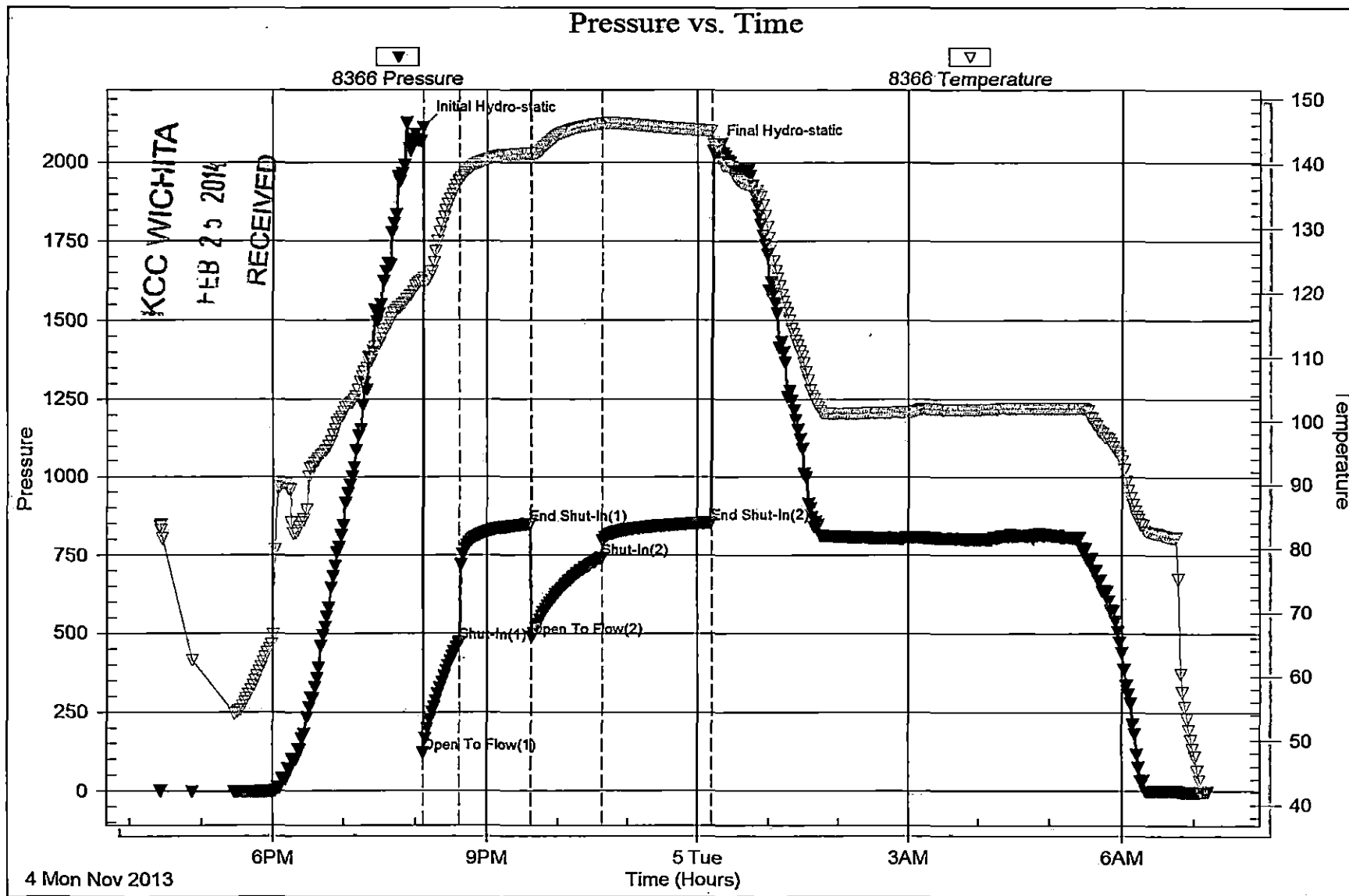
Length ft	Description	Volume bbl
189.00	SOWCM 2% OIL 40% WATER 58% MUD	0.957
260.00	SWMCGO 2% WATER 5% MUD 15% GAS 73%	3.647
1200.00	CLEAN OIL 100%	16.833
0.00	GIP 220'	0.000

Total Length: 1649.00 ft Total Volume: 21.437 bbl

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

Laboratory Name: Laboratory Location:

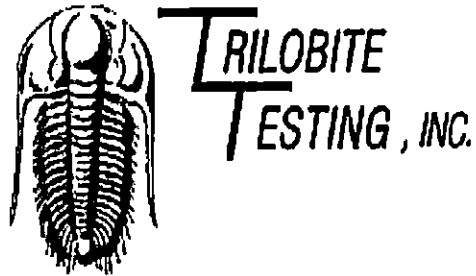
Recovery Comments: GRAVITY = 22.0 API @ 50 F
R.W. = .285 OHMS @ 45 F



KCC WICHITA

FEB 25 2014

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DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Brad Rine

Burk Trust 'D' #2-23

23-1s-36w Rawlins KS

Start Date: 2013.11.05 @ 17:50:00

End Date: 2013.11.06 @ 05:03:00

Job Ticket #: 5853 DST #: 3

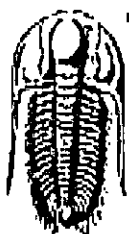
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.14 @ 08:23:10

Murfin Drilling Co., Inc. 23-1s-36w Rawlins KS Burk Trust 'D' #2-23 DST # 3 LKC "G" 2013.11.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

Burk Trust 'D' #2-23

ATTN: Brad Rine

KCC WICHITA

Job Ticket: 5853

DST#: 3

Test Start: 2013.11.05 @ 17:50:00

FEB 25 2014

RECEIVED

GENERAL INFORMATION:

Formation: LKC "G"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:56:30
Time Test Ended: 05:03:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 57

Interval: 4270.00 ft (KB) To 4328.00 ft (KB) (TVD)
Total Depth: 4328.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3263.00 ft (KB)
3258.00 ft (CF)
KB to GR/CF: 5.00 ft

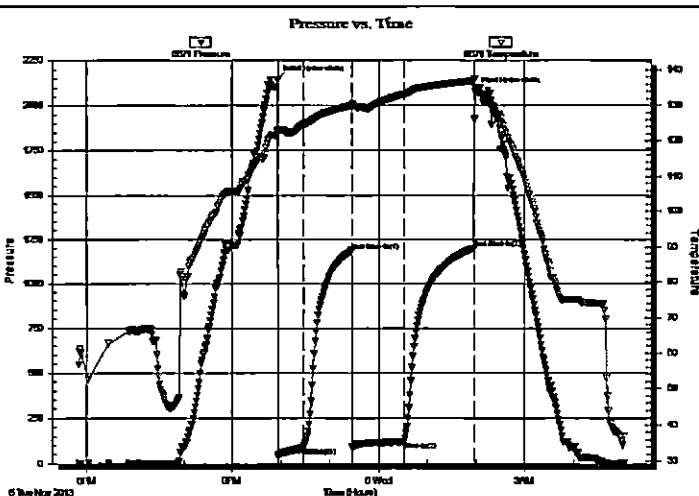
Serial #: 8671

Inside

Press@RunDepth: 122.31 psig @ 4310.00 ft (KB)
Start Date: 2013.11.05 End Date: 2013.11.06
Start Time: 17:50:05 End Time: 05:03:00

Capacity: 8000.00 psig
Last Calib.: 2013.11.06
Time On Btm: 2013.11.05 @ 21:56:00
Time Off Btm: 2013.11.06 @ 01:58:59

TEST COMMENT: I.F. - 30 - Weak surface blow built to 6"
I.S.I. - 60 - Blow back started at 17 min built to 1/2"
F.F. - 60 - BOB in 60 min
F.S.I. - 90 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.31	122.68	Initial Hydro-static
1	42.59	122.50	Open To Flow (1)
31	87.22	124.52	Shut-In(1)
91	1186.40	130.01	End Shut-In(1)
91	92.15	129.45	Open To Flow (2)
155	122.31	133.14	Shut-In(2)
242	1201.89	136.91	End Shut-In(2)
243	2081.10	134.95	Final Hydro-static

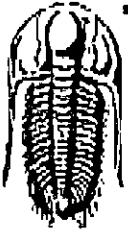
Recovery

Length (ft)	Description	Volume (bbl)
120.00	H,M,C,O 25% MUD 75% OIL	0.59
63.00	M,C,O, 10% MUD 90% OIL	0.31
22.00	S,M,C,O, 2% MUD 98% OIL	0.28
10.00	CLEAN OIL 100%	0.14
0.00	GP 30'	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

**KCC WICHITA
FEB 25 2014**

Burk Trust 'D' #2-23

Job Ticket: 5853

DST#: 3

ATTN: Brad Rine

Test Start: 2013.11.05 @ 17:50:00

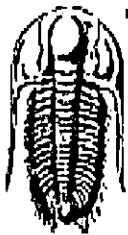
Tool Information

Drill Pipe:	Length: 4071.00 ft	Diameter: 3.80 inches	Volume: 57.11 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 58.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4270.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

RECEIVED

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4247.00	
Hydraulic tool	5.00			4252.00	
Jars	5.00			4257.00	
Safety Joint	3.00			4260.00	
Packer	5.00			4265.00	28.00 Bottom Of Top Packer
Packer	5.00			4270.00	
Packer - Shale	0.00			4270.00	
Stubb	1.00			4271.00	
Perforations	5.00			4276.00	
Change Over Sub	1.00			4277.00	
Drill Pipe	32.00			4309.00	
Change Over Sub	1.00			4310.00	
Recorder	0.00	8671	Inside	4310.00	
Recorder	0.00	8366	Outside	4310.00	
Perforations	15.00			4325.00	
Bullnose	3.00			4328.00	58.00 Bottom Packers & Anchor
Total Tool Length:	86.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

**KCC WICHITA
FEB 25 2014**

Burk Trust 'D' #2-23

Job Ticket: 5853

DST#: 3

ATTN: Brad Rine

Test Start: 2013.11.05 @ 17:50:00

RECEIVED

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25.7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 90.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	H,M,C,O 25% MUD 75% OIL	0.590
63.00	M,C,O, 10% MUD 90% OIL	0.310
22.00	S,M,C,O, 2% MUD 98% OIL	0.281
10.00	CLEAN OIL 100%	0.140
0.00	GIP 30'	0.000

Total Length: 215.00 ft Total Volume: 1.321 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

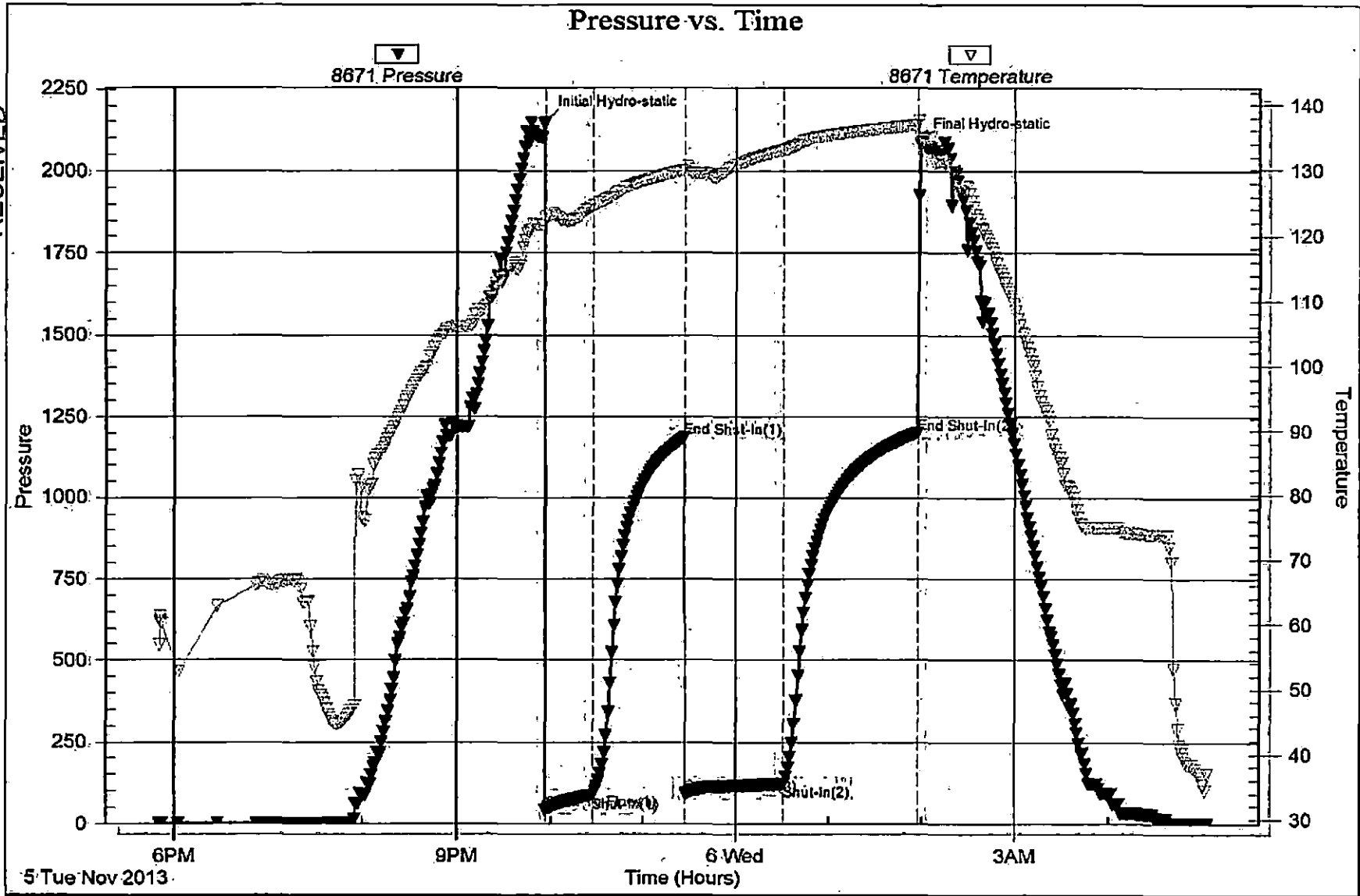
Laboratory Location:

Recovery Comments: GRAVITY = 24.5 API @ 48 F

KCC WICHITA

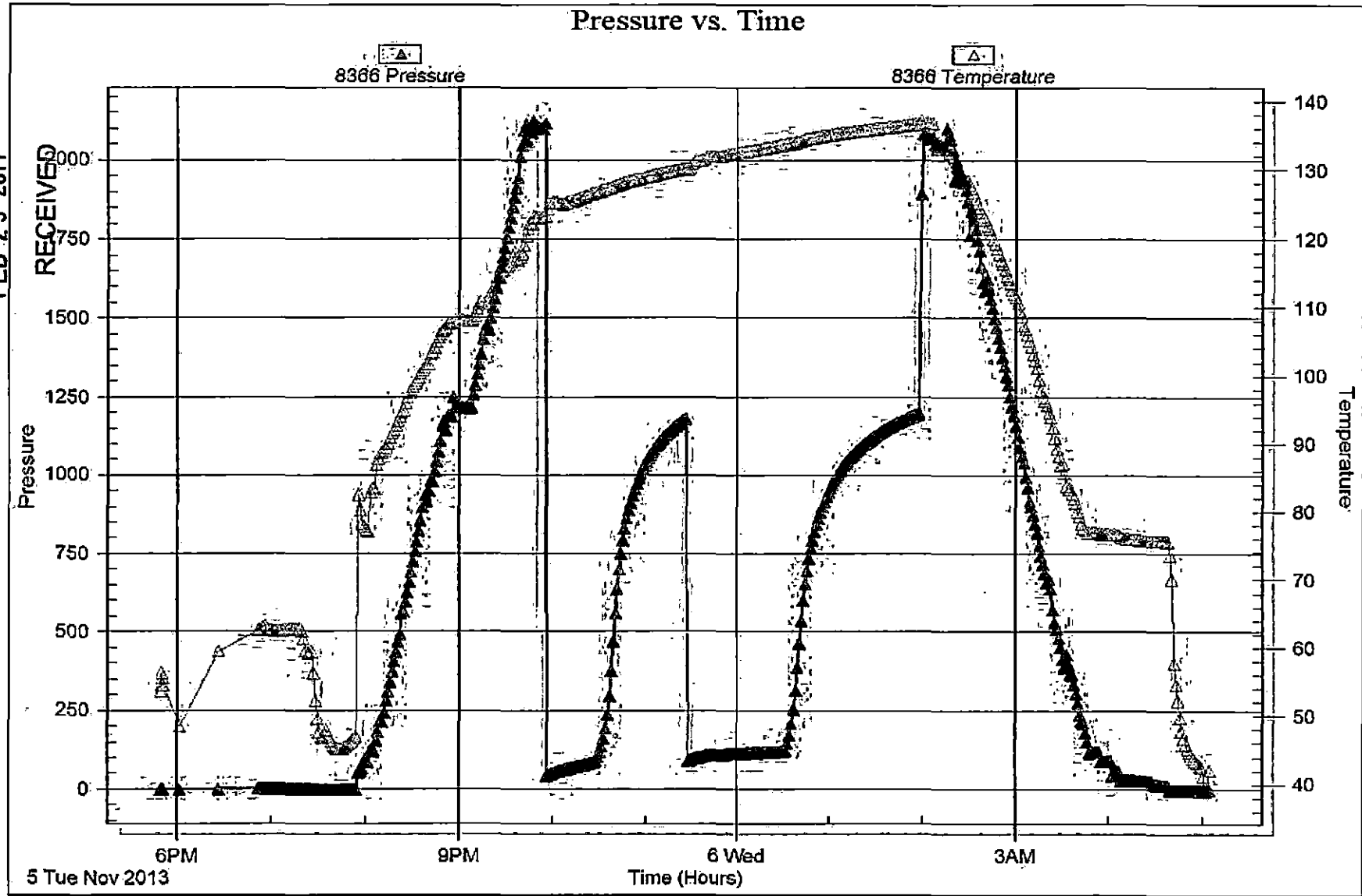
FEB 25 2014

RECEIVED

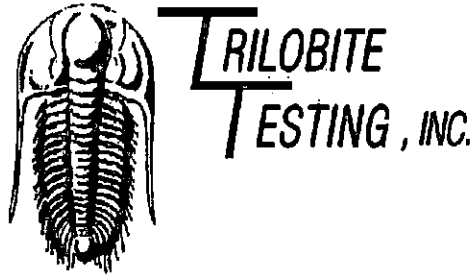


KCC WICHITA

FEB 25 2014



KCC WICHITA
FEB 25 2014
RECEIVED



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Brad Rine

Burk Trust 'D' #2-23

23-1s-36w Rawlins KS

Start Date: 2013.11.06 @ 18:45:00

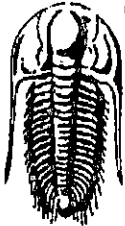
End Date: 2013.11.07 @ 04:49:30

Job Ticket #: 55854 DST #: 4

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

Printed: 2013.11.12 @ 09:11:23

Murfin Drilling Co., Inc. 23-1s-36w Rawlins KS Burk Trust 'D' #2-23 DST # 4 LKC "I - J" 2013.11.06



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

KCC WICHITA

Burk Trust 'D' #2-23

Job Ticket: 55854

DST#: 4

ATTN: Brad Rine

FEB 25 2014

Test Start: 2013.11.06 @ 18:45:00

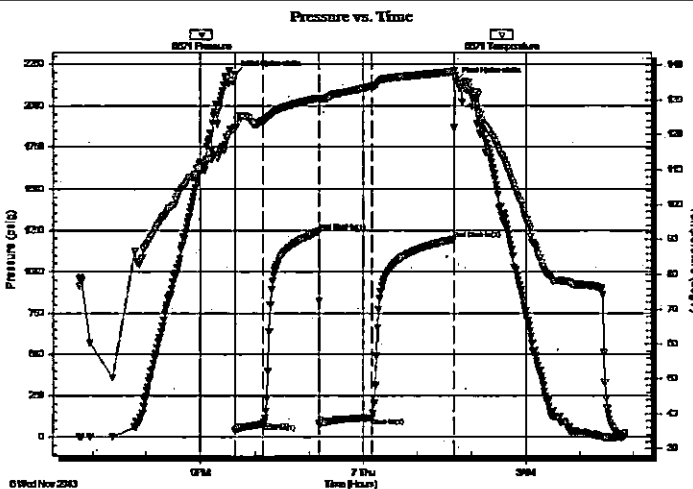
GENERAL INFORMATION:

RECEIVED

Formation: **LKC "I - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:38:00
 Time Test Ended: 04:49:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 57
 Interval: **4351.00 ft (KB) To 4410.00 ft (KB) (TVD)**
 Total Depth: 4351.00 ft (KB) (TVD)
 Reference Elevations: 3263.00 ft (KB)
 3258.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8671 Inside
 Press@RunDepth: 119.32 psig @ 4391.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.06 End Date: 2013.11.07 Last Calib.: 2013.11.07
 Start Time: 18:45:05 End Time: 04:49:30 Time On Btm: 2013.11.06 @ 21:37:30
 Time Off Btm: 2013.11.07 @ 01:42:15

TEST COMMENT: I.F. - 30 - Blow built to 3 1/2"
 I.S.I. - 60 - Blow back built to 1/4"
 F.F. - 60 - Weak surface blow started at 4 min built to 10"
 F.S.I. - 90 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2185.65	121.96	Initial Hydro-static
1	42.58	121.36	Open To Flow (1)
32	80.83	124.04	Shut-In(1)
93	1244.98	130.50	End Shut-In(1)
94	83.88	130.04	Open To Flow (2)
153	119.32	133.90	Shut-In(2)
243	1194.67	138.10	End Shut-In(2)
245	2150.68	135.25	Final Hydro-static

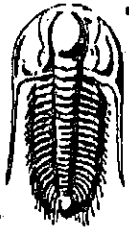
Recovery

Length (ft)	Description	Volume (bbl)
189.00	S,M,C,G,O, 5%MUD 10%GAS 85%OIL	0.96
20.00	C/O 100% CLEAN OIL	0.28
0.00	43 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

KCC WICHITA

Burk Trust 'D' #2-23

Job Ticket: 55854

DST#: 4

ATTN: Brad Rine

FEB 25 2014

Test Start: 2013.11.06 @ 18:45:00

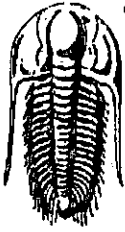
Tool Information

RECEIVED

Drill Pipe:	Length: 4157.00 ft	Diameter: 3.80 inches	Volume: 58.31 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 59.22 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4351.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	87.00 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			4328.00	
Hydraulic tool	5.00			4333.00	
Jars	5.00			4338.00	
Safety Joint	3.00			4341.00	
Packer	5.00			4346.00	28.00 Bottom Of Top Packer
Packer	5.00			4351.00	
Packer - Shale	0.00			4351.00	
Stubb	1.00			4352.00	
Perforations	6.00			4358.00	
Change Over Sub	1.00			4359.00	
Drill Pipe	32.00			4391.00	
Recorder	0.00	8671	Inside	4391.00	
Recorder	0.00	8320	Outside	4391.00	
Change Over Sub	2.00			4393.00	
Perforations	14.00			4407.00	
Bullnose	3.00			4410.00	59.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

23-1s-36w Rawlins KS

250 N. Water STE 300
Wichita, KS 67202

**KCC WICHITA
FEB 25 2014
RECEIVED**

Burk Trust 'D' #2-23

Job Ticket: 55854

DST#: 4

ATTN: Brad Rine

Test Start: 2013.11.06 @ 18:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 7.80 in³
Resistivity: ohm.m
Salinity: 1600.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 24 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	S,M,C,G,O. 5%MUD 10%GAS 85%OIL	0.957
20.00	C/O 100% CLEAN OIL	0.281
0.00	43 GIP	0.000

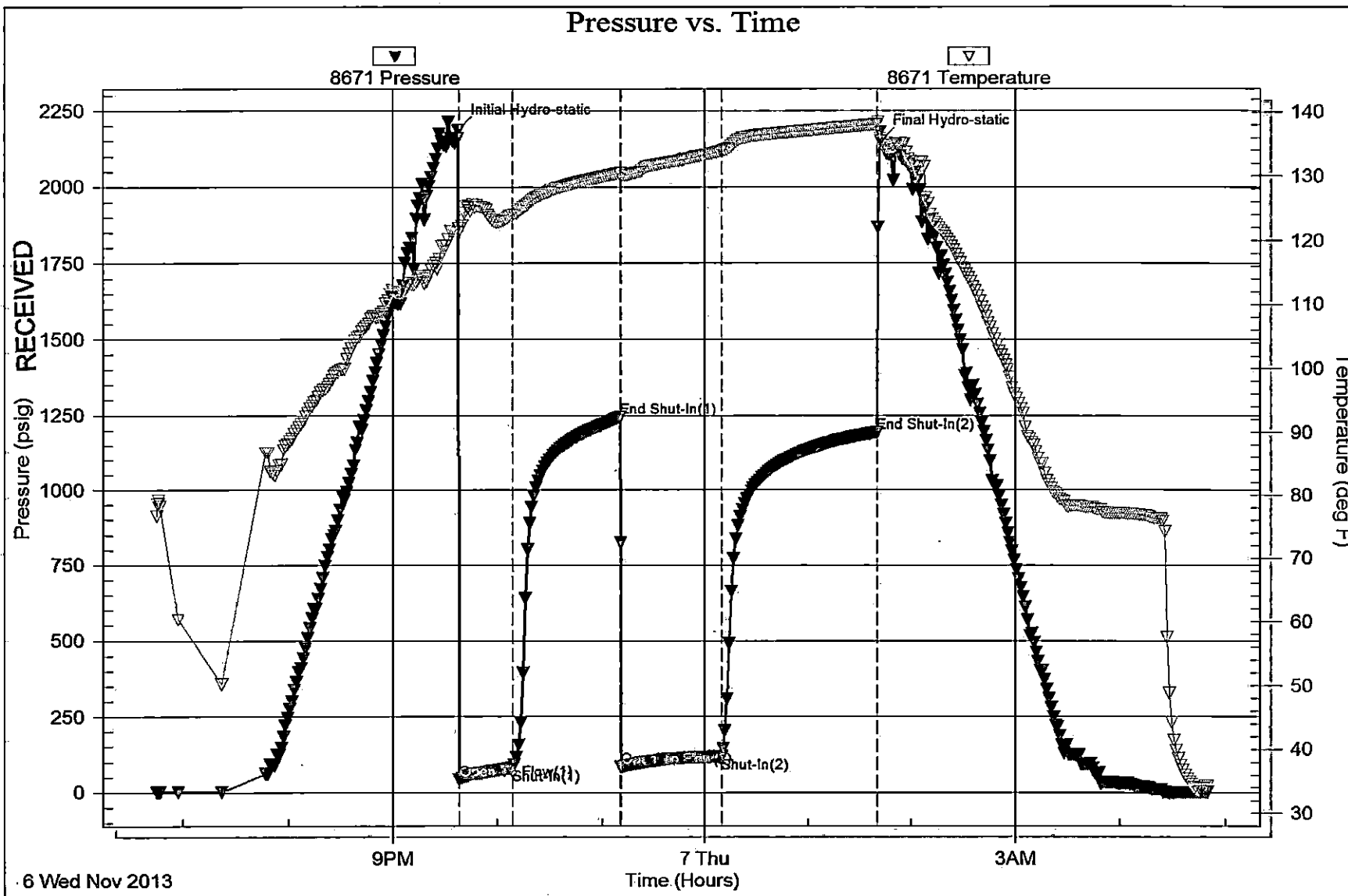
Total Length: 209.00 ft Total Volume: 1.238 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: GRAVITY = 23.0 API @ 50 F

KCC WICHITA
FEB 25 2014



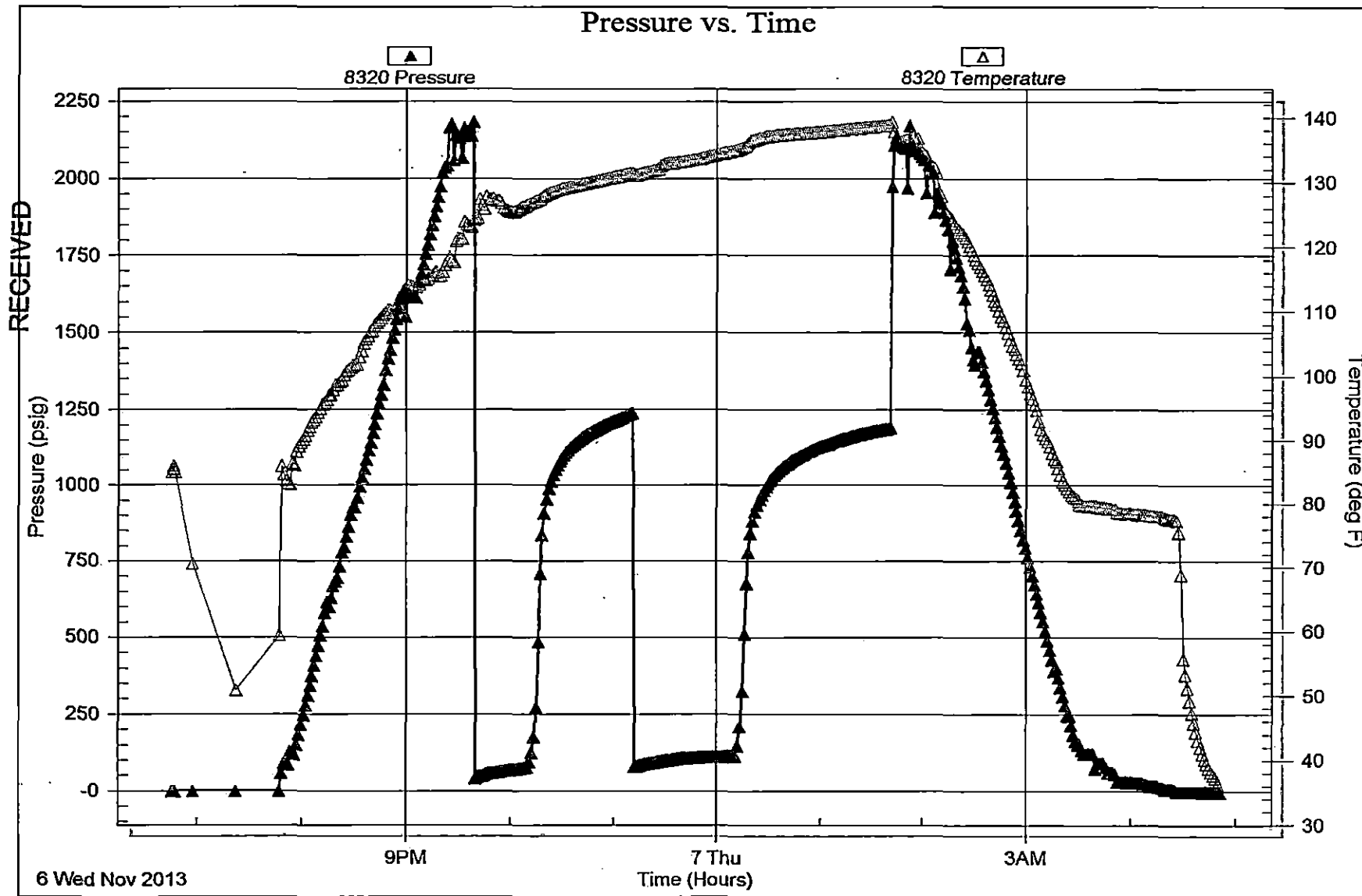
Serial #: 8320

Outside Murfin Drilling Co., Inc.

Burk Trust 'D' #2-23

DST Test Number: 4

KCC WICHITA
FEB 25 2014





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

KCC WICHITA

FEB 25 2014

RECEIVED

Test Ticket

NO. 55012

Well Name & No. Burk Trust "D" #2-23 Test No. 1 Date 11-23-13
 Company Murfin Drilling Co., Inc. Elevation 3263 KB 3258 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Brad Rine Rig Murfin #8
 Location: Sec. 23 Twp. 1s Rge. 36w Co. Rawlins State KS

Interval Tested 4050 - 4096 Zone Tested Oread
 Anchor Length 46 Drill Pipe Run 3851 Mud Wt. 9.1
 Top Packer Depth 4045 Drill Collars Run 186 Vis 58
 Bottom Packer Depth 4050 (shale) Wt. Pipe Run - WL 6.4
 Total Depth 4096 Chlorides 700 ppm System LCM 10
 Blow Description IF: Blow built to BOB (11") in 13 1/2 min.
ISI: No blowback
FF: Blow built to BOB in 15 3/4 min.
FSI:

Rec <u>45</u>	Feet of <u>SMCO</u>	<u>8</u> %gas	<u>84</u> %oil	<u>-</u> %water	<u>8</u> %mud
Rec <u>30</u>	Feet of <u>MWCO</u>	<u>2</u> %gas	<u>75</u> %oil	<u>13</u> %water	<u>10</u> %mud
Rec <u>287</u>	Feet of <u>GOCWM (oil in mixture / ^{oil} sand)</u>	<u>10</u> %gas	<u>9</u> %oil	<u>32</u> %water	<u>49</u> %mud
Rec <u>190</u>	Feet of <u>MOCW (oil in mixture / ^{oil} sand)</u>	<u>7</u> %gas	<u>12</u> %oil	<u>70</u> %water	<u>11</u> %mud
Rec <u>186</u>	Feet of <u>water w/oil spots</u>	<u>-</u> %gas	<u>3</u> %oil	<u>92</u> %water	<u>5</u> %mud

Rec Total 738 Fluid 140' EIP BHT 137 Gravity 23.6 API RW .265 @ 44.5 °F Chlorides 44,000 ppm

(A) Initial Hydrostatic 2025 Test 1250 T-On Location 5:00/12:15
 (B) First Initial Flow 26 Jars 250 T-Started 13:00
 (C) First Final Flow 191 Safety Joint 75 T-Open 15:35
 (D) Initial Shut-In 917 Circ Sub NA T-Pulled 19:36
 (E) Second Initial Flow 187 Hourly Standby 1/2 hr 50 T-Out 22:45
 (F) Second Final Flow 347 Mileage 108 RT x 2 334.80
 (G) Final Shut-In 915 Sampler
 (H) Final Hydrostatic 1972 Straddle
 Shale Packer 250
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Comments Pulled tight had to run another short trip - went home to wait

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 60 Ruined Packer
 Final Flow 60 Extra Copies
 Final Shut-In 90 Sub Total 0
 Total 2209.80
 MP/DST Disc't _____
 Sub Total 2209.80

Approved By Brad Rine Our Representative James Winder

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

KCC WICHITA

FEB 25 2014

Test Ticket

RECEIVED

NO. **55852**

Well Name & No. Buck trust "0" #2-23 Test No. 2 Date 11-4-13
 Company Murphy Drilling Co. Elevation 3263 KB 3258 GL
 Address 250 N. Water Suite 300 Wichita Ks. 67202
 Co. Rep / Geo. Brad Rine Rig Murphy Rig 8
 Location: Sec. 23 Twp. 01-S Rge. 36-W Co. Rawlins State KS

Interval Tested 4201-4276 Zone Tested han. "0"
 Anchor Length 75 Drill Pipe Run 4,005 Mud Wt. 9.0
 Top Packer Depth 4196 Drill Collars Run 186 Vis 48
 Bottom Packer Depth 4201 Wt. Pipe Run _____ WL 7.8
 Total Depth 4276 Chlorides 900 ppm System LCM 7.0

Blow Description I.F. - 30-1/2 INT. Blow Built to B.O.B. in (2 min 10 sec.)
I.S.I - 60 - W.S.B.B. Started @ 6 min. Built to 8" in 60 min
E.F - 60 - 1/2 INT. Blow. Built to B.O.B. in (3 min 45 sec.)
E.S.I - 90 - W.S.B.B. Started @ 10 min. Built to B.O.B. in (1 hr, 15 min)

Rec	Feet of	%gas	%oil	%water	%mud
<u>220</u>	<u>G.P.</u>	<u>100</u>			
<u>1200</u>	<u>Clean oil</u>		<u>100</u>		
<u>260</u>	<u>SWC, mcg, d. @ 45 min</u>	<u>15</u>	<u>73</u>	<u>2</u>	<u>5</u>
<u>189</u>	<u>SOSW, m</u>		<u>2</u>	<u>40</u>	<u>58</u>

Roc Total 1,649 BHT 143 Gravity 2.3 API RW 285 @ 45 °F Chlorides 56,000 ppm

(A) Initial Hydrostatic <u>2,109</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>15:15:00</u>
(B) First Initial Flow <u>121</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:25:00</u>
(C) First Final Flow <u>473</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:13:00</u>
(D) Initial Shut-In <u>850</u>	<input checked="" type="checkbox"/> Circ Sub <u>Dropped Bar 50</u>	T-Pulled <u>00:13:00</u>
(E) Second Initial Flow <u>489</u>	<input checked="" type="checkbox"/> Hourly Standby <u>600</u>	T-Out <u>07:21:00</u>
(F) Second Final Flow <u>742</u>	<input checked="" type="checkbox"/> Mileage <u>108 R.T. 167.40</u>	Comments <u>Waiting on truck</u>
(G) Final Shut-In <u>853</u>	<input type="checkbox"/> Sampler _____	<u>From 02:00 to 4:15</u>
(H) Final Hydrostatic <u>2036</u>	<input type="checkbox"/> Straddle _____	<u>thank-you</u>

Initial Open <u>36</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>2642.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2642.40</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

KCC WICHITA

FEB 25 2014

Test Ticket

NO. **55858**

RECEIVED

Well Name & No. Murfin Drilling Co. Burkast 022 Test No. 3 Date 11-5-13
 Company Murfin Drilling Company Elevation 3263 KB 3,258 GL
 Address 250 N. Water Suite 300 Wichita KS 67202
 Co. Rep / Geo. Brad Rine Rig Murfin Drilling 8
 Location: Sec. 23 Twp. 01-S Rge. 36-W Co. Rawlins State KS

Interval Tested 4270-4328 Zone Tested Ln. 6"
 Anchor Length 58 Drill Pipe Run 4071 Mud Wt. 9.1
 Top Packer Depth 4265 Drill Collars Run 186 Vis 90
 Bottom Packer Depth 4270 Wt. Pipe Run _____ WL 11.0
 Total Depth 4328 Chlorides 8,000 ppm System LCM 9.0

Blow Description I.F. - 30-1/4 INT Blm Built to (6" in 30 min)
I.S.I - 60-W.S.B.B. started @ 17 min Built to (1/2 in 60 min)
F.F. - 60-INT Blow started @ 3 min Built to 3/8 in 60 min
F.S.I - 90 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>G.I.P</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>10</u>	<u>C/O</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>22</u>	<u>S.M.C.O</u>	<u>98</u>	<u>0</u>	<u>2</u>	<u>0</u>
<u>63</u>	<u>M.C.O</u>	<u>90</u>	<u>0</u>	<u>10</u>	<u>0</u>
<u>126</u>	<u>H.M.C.O</u>	<u>75</u>	<u>0</u>	<u>25</u>	<u>0</u>

Rec Total 222 BHT 136 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,147 Test 1250 T-On Location 17:15:00
 (B) First Initial Flow 43 Jars 250 T-Started 17:50:00
 (C) First Final Flow 87 Safety Joint 75 T-Open 22:00:00
 (D) Initial Shut-In 1,186 Circ Sub T-Pulled 02:00:00
 (E) Second Initial Flow 92 Hourly Standby T-Out 05:03:00
 (F) Second Final Flow 122 Mileage 108 Rt. 167.40 Comments _____
 (G) Final Shut-In 1,202 Sampler _____
 (H) Final Hydrostatic 2,084 Straddle _____
 Shale Packer 250 Ruined Shale Packer 350
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 30 Sub Total 0
 Initial Shut-In 60 Total 2342.40
 Final Flow 60 MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1992.40

Approved By _____ Our Representative Brad Rine

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

KCC WICHITA

FEB 25 2014

Test Ticket

NO. 55854

RECEIVED

Well Name & No. Buck Trust "O" 2-23 Test No. 4 Date 11-6-13
 Company Murfin Drilling Co. Elevation 3,263 KB 3,258 GL
 Address 250 N. Water Suite 300 Wichita KS. 67202
 Co. Rep / Geo. Brad Pine Rig Murfin Rig 8
 Location: Sec. 23 Twp. 01-S Rge. 36-W Co. Rawlins State KS.

Interval Tested 4351-4410 Zone Tested hans. "I-J"
 Anchor Length 59 Drill Pipe Run 4,351 Mud Wt. 9.2
 Top Packer Depth 4346 Drill Collars Run 186 Vis 48
 Bottom Packer Depth 4351 Wt. Pipe Run _____ WL 2.8
 Total Depth 4410 Chlorides 1,600 ppm System LCM 9.0

Blow Description I.F-30-1/4 INT. Blow Built to (3 1/2" in 30min)
I.S.I-60-W.S.B. started @ 10min Built to (1/4" in 60min)
E.F-60-W.S.B. started @ 4min Built to (10" in 60min)
F.S.I-90- No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>43</u>	<u>GIP</u>	<u>100</u>	<u>0</u>		
<u>20</u>	<u>C/O</u>		<u>100</u>		
<u>189</u>	<u>S, m, c, g, v</u>	<u>10</u>	<u>85</u>		<u>5</u>

Rec Total 209 BHT 135 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,186 Test 1250 T-On Location 17:30:00
 (B) First Initial Flow 43 Jars 250 T-Started 18:45:00
 (C) First Final Flow 81 Safety Joint 75 T-Open 21:39:00
 (D) Initial Shut-In 1245 Circ Sub _____ T-Pulled 01:39:00
 (E) Second Initial Flow 84 Hourly Standby _____ T-Out 04:50:00
 (F) Second Final Flow 119 Mileage 108 R.T 334.80 Comments Loaded tool @
9:45 A.M. (11-8-13)
 (G) Final Shut-In 1,195 Sampler _____ "Thank you"
 (H) Final Hydrostatic 2,151 Straddle _____ Ruined Shale Packer 350
 Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 800
 Final Flow 60 Day Standby 1d 5h Total 3309.80
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 2159.80

Approved By _____ Our Representative [Signature]

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