



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1072841
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
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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: _____

1072841

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
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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
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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> _____
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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: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 26, 2012

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-153-20890-00-00
Ruda 'A' 1-9
NW/4 Sec.09-05S-33W
Rawlins County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Leon Rodak

Ruda 'A' #1-9 1500' FNL 1400' FWL Sec. 9-T5S-R33W 3102' KB							Curtin #1 Nielson Enterprises Sec. 10-5S-33W 3092' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2799	+303	-41	2800	+302	-42	2748	+344
B/Anhydrite	2840	+262	-47	2836	+266	-43	2783	+309
Topeka	3816	-714	-12	3832	-730	-28	3794	-702
Heebner	3995	-893	-25	3996	-894	-26	3960	-868
Lansing	4048	-946	-30	4045	-943	-27	4008	-916
Stark	4232	-1130	-26	4233	-1131	-27	4196	-1104
BKC	4282	-1180	-27	4284	-1182	-29	4245	-1153
Pawnee	4415	-1313	-35	4405	-1303	-25	4370	-1278
Cherokee	4490	-1388	-36	4483	-1381	-29	4444	-1352
Mississippi	4625	-1523	-29	4640	-1538	-44	4586	-1494
RTD	4717						4632	
LTD				4720				

GEOLOGISTS' REPORT

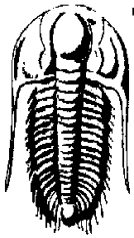
OPERATOR MURFIN DRILLING COMPANY INC.			ELEVATIONS		
LEASE #1-9 RUDA 'A'			KB 3102'		
LOCATION 1500' FNL 1400' FWL			GL 3097'		
SEC. 9 TWPSP T5S RGE R33W			ALL MEASUREMENTS FROM K.B.		
COUNTY RAWLINS STATE KANSAS			FIELD WILCOAT		
CONTRACTOR MURFIN DRILLING CO. RIG NO. #8			CASING RECORD		
COMMENTED DEC 21, 2011 COMPLETED JAN 4, 2012			CONDUCTOR		
MUD DISPLACED 3890' MUD TYPE CHEMICAL			SURFACE 8 5/8" @ 250'		
DRILLING TIME (ERT) FROM 3700' TO 4717'			PRODUCTION		
SAMPLES SAVED FROM 3830' TO 4717'			SAMPLER EXAMINED FROM 3700' TO 4717'		
GEOLOGICAL SUPERVISION FROM 3740' TO 4717'			ELECTRICAL SURVEYS:		
GEOLOGIST ON WELL STEPHEN J MILLER			LOG TECH		
FORMATION			DUAL IND.		
NAME	LOG	TOP	DATE	TOP	DATE
ANHYDRITE		2800	+302	2840	+303
B/ ANHYDRITE		2836	+285	2840	+282
TOPEKA LIME		3832	-730	3816	-714
HEEBNER SHALE		4045	-894	4048	-893
LANISING LIME		4233	-1131	4232	-1130
STARK SHALE		4284	-1182	4282	-1180
B/ KC LIME		4483	-1381	4480	-1388
CHEROKEE SHALE		4640	-1538	4625	-1523
MISSISSIPPIAN		4720	-1618	4717	-1615
TOTAL DEPTH					

API 15-153-20890
Drilling Fluids: MORGAN MUD
Drill Stem Testing: TRILOBITE TESTING
Gas Trailer: NONE
Reserve Pit Chlorides: 21.000 ppm

DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
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DRILL TIME (MIN/FT)	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
	2800		2800 ANHYDRITE 2800 +302
	2836		B/ ANHYDRITE 2836 +266 2850
	3816		TOPEKA LIME 3816 -714
	3995		HEEBNER SHALE 3995 -893 DST #1 4000-4060 30-60-30-60 w 5 low 10' / no b low Rec 10' Mud FP 20-25# 21-24# SIP 76-45#
	4026		TORONTO LIME 4026 -924
	4048		LANISING LIME 4048 -946 DST #2 4056-4102 30-60-30-60 no b low (flush) / no b low Rec 62' Mud 62' MCW FP 20-25# 26-35# SIP 1134-1146#
	4104		LANISING LIME 4104-4150 30-60-30-60 5' low / BOB 60min Rec 62' Mud 62' MCW FP 21-89# 94-158# SIP 1319-1312#
	4232		STARK SHALE 4232 -1130
	4282		B/ KANSAS CITY 4282 -1180
	4415		PAWNEE LIME 4415 -1313 DST #4 4429-4543 30-60-30-60 8'OB 30 sec / BOB 5 min Rec 186' MW Mud 186' MW 50% W 2028' SW 49500 ppm FP 1042-1071# 1054-1073# SIP 1071-1076#
	4626		MISSISSIPPIAN 4626 -1524
	4717		TOTAL DEPTH 4717 -1615

Operator: MURFIN DRILLING COMPANY INC.
Lease: #1-9 RUDA 'A'
Location: 1500' FNL 1400' FWL SEC. 9 TWPSP T5S RGE R33W
County: RAWLINS State: KANSAS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita Ks. 67202
ATTN: Steve Miller

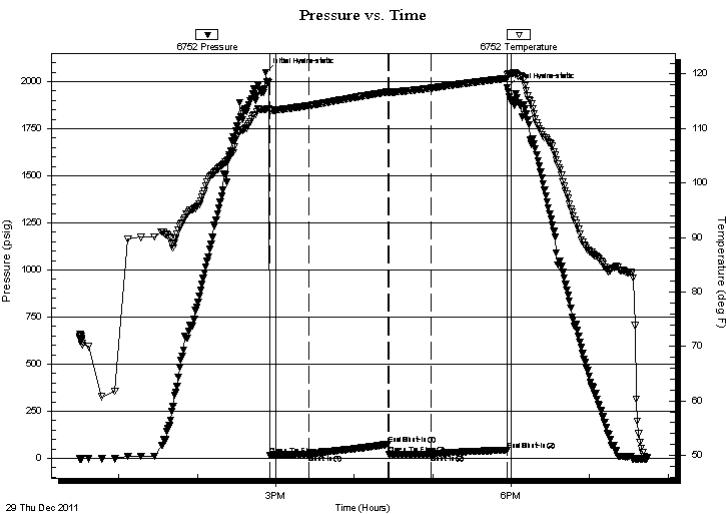
9 5 33w Rawlins Ks.
Ruda A #1-9
Job Ticket: 042956 **DST#: 1**
Test Start: 2011.12.29 @ 12:30:00

GENERAL INFORMATION:

Formation: Tor-LKC-A			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 14:55:30		Tester: Chuck Kreuzer Jr.	
Time Test Ended: 19:44:00		Unit No: 36	
Interval: 4000.00 ft (KB) To 4060.00 ft (KB) (TVD)		Reference Elevations: 3102.00 ft (KB)	
Total Depth: 4060.00 ft (KB) (TVD)		3097.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft	

Serial #: 6752	Inside		
Press @ Run Depth: 23.52 psig @ 4001.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2011.12.29	End Date: 2011.12.29	Last Calib.: 2011.12.29	
Start Time: 12:30:05	End Time: 19:43:59	Time On Btm: 2011.12.29 @ 14:52:30	
		Time Off Btm: 2011.12.29 @ 17:57:00	

TEST COMMENT: IF: Weak blow, Died in 10 mins.
 IS: No blow back over 60 mins.
 FF: No blow over 30 mins.
 FS: No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2048.98	113.46	Initial Hydro-static
3	17.71	113.37	Open To Flow (1)
33	21.14	114.21	Shut-In(1)
94	75.95	116.69	End Shut-In(1)
94	21.46	116.68	Open To Flow (2)
126	23.52	117.40	Shut-In(2)
184	44.52	119.19	End Shut-In(2)
185	1966.63	119.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud-100%	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 5 33w Rawlins Ks.

250 N. Water Ste. 300
Wichita Ks. 67202

Ruda A #1-9

Job Ticket: 042956

DST#: 1

ATTN: Steve Miller

Test Start: 2011.12.29 @ 12:30:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud-100%	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

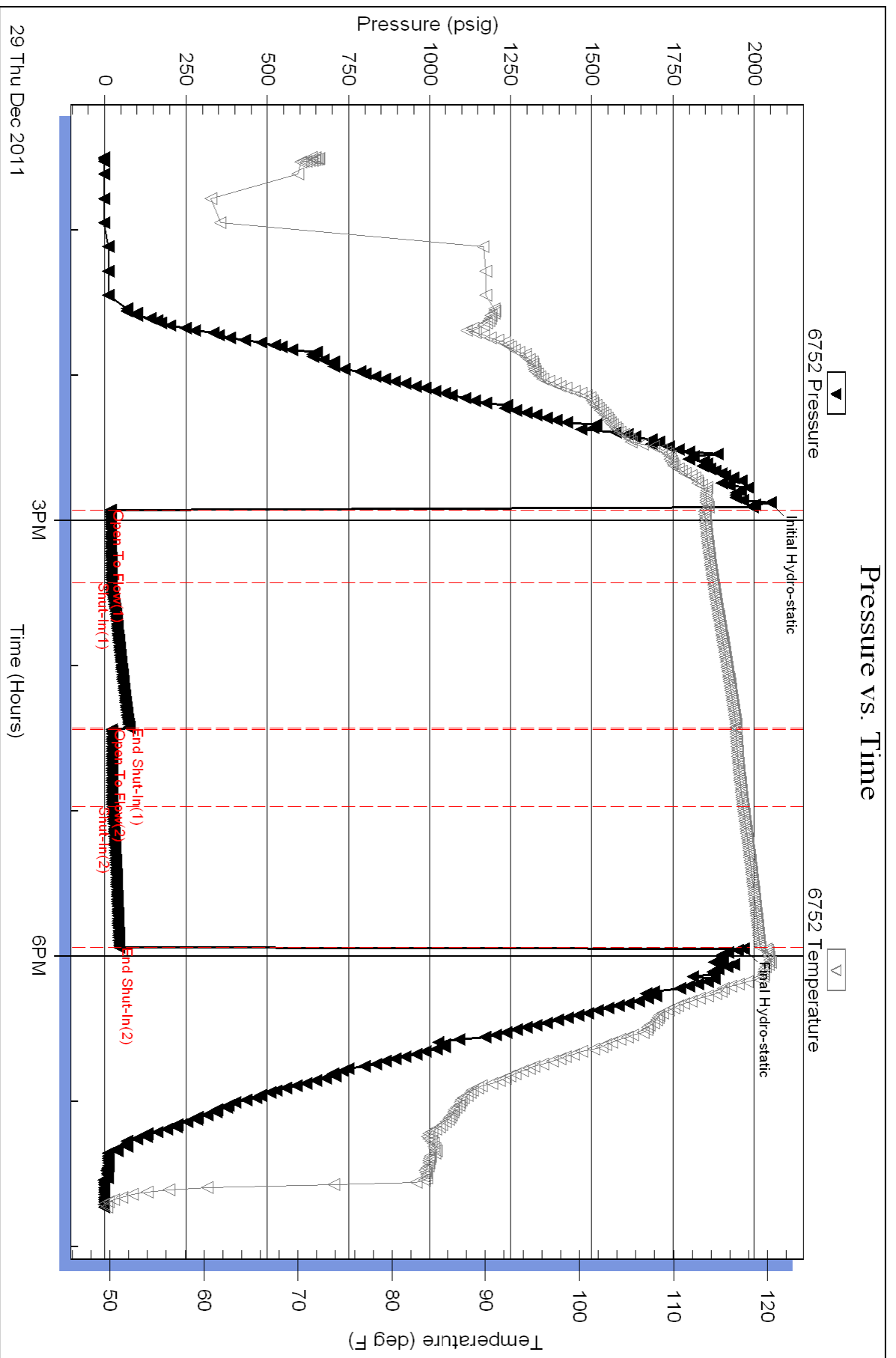
Serial #: 6752

Inside

Murfin Drilling Co.

Ruda A #1-9

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 042956

Printed: 2011.12.30 @ 08:36:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita Ks. 67202
ATTN: Steve Miller

9 5 33w Rawlins Ks.
Ruda A #1-9
Job Ticket: 042957 **DST#: 2**
Test Start: 2011.12.30 @ 05:05:00

GENERAL INFORMATION:

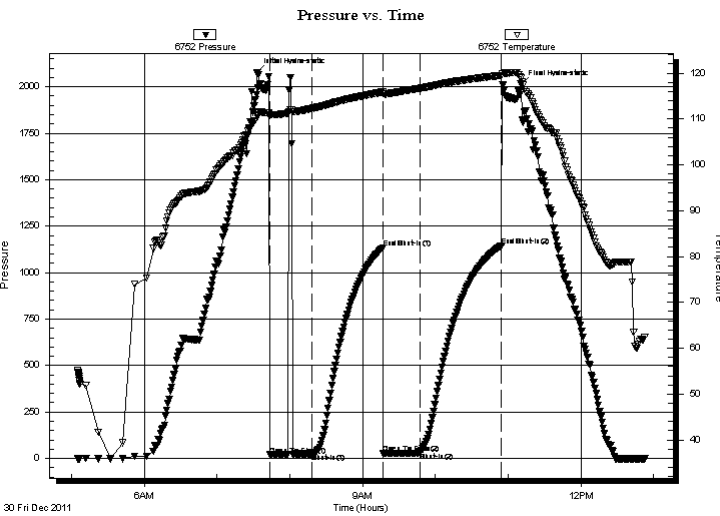
Formation: **LKC-B**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:43:30
Time Test Ended: 12:52:30
Interval: **4056.00 ft (KB) To 4102.00 ft (KB) (TVD)**
Total Depth: 4102.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Reference Elevations: 3102.00 ft (KB)
3097.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 36

Serial #: 6752

Inside

Press @ Run Depth: 34.74 psig @ 4057.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.12.30 End Date: 2011.12.30 Last Calib.: 2011.12.30
Start Time: 05:05:05 End Time: 12:52:29 Time On Btm: 2011.12.30 @ 07:33:00
Time Off Btm: 2011.12.30 @ 11:10:30

TEST COMMENT: IF: Tool opened just a few bubbles, Flushed tool, a few bubbles and then dead.
IS!: No blow over 60 mins.
FF: No blow over 30 mins.
FS!: No blow back over 60 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.22	110.85	Initial Hydro-static
11	19.54	110.88	Open To Flow (1)
45	25.07	112.28	Shut-In(1)
104	1134.21	115.86	End Shut-In(1)
104	25.76	115.58	Open To Flow (2)
134	34.74	116.67	Shut-In(2)
202	1145.56	119.52	End Shut-In(2)
218	2013.83	118.93	Final Hydro-static

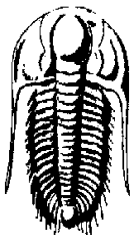
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil specs	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita Ks. 67202
ATTN: Steve Miller

9 5 33w Rawlins Ks.
Ruda A #1-9
Job Ticket: 042957 **DST#: 2**
Test Start: 2011.12.30 @ 05:05:00

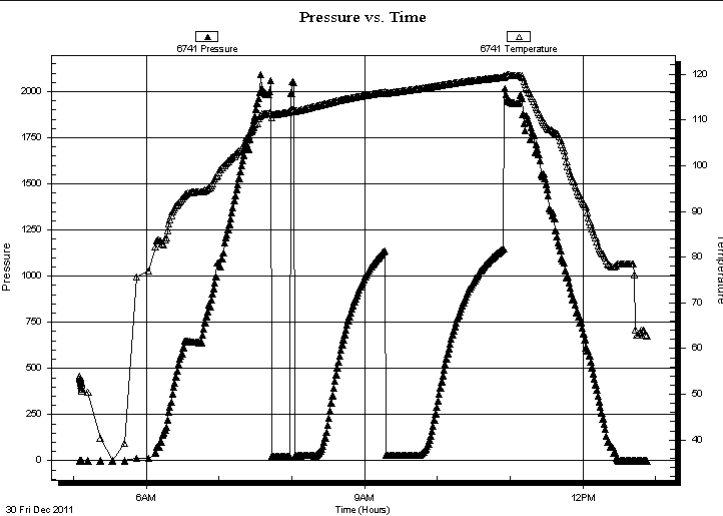
GENERAL INFORMATION:

Formation: LKC-B			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:	ft (KB)		Tester: Chuck Kreutzer Jr.
Time Tool Opened: 07:43:30			Unit No: 36
Time Test Ended: 12:52:30			
Interval: 4056.00 ft (KB) To 4102.00 ft (KB) (TVD)		Reference Elevations: 3102.00 ft (KB)	
Total Depth: 4102.00 ft (KB) (TVD)		3097.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft	

Serial #: 6741 Outside

Press @ Run Depth: psig @	4057.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2011.12.30	End Date: 2011.12.30	Last Calib.: 2011.12.30
Start Time: 05:05:05	End Time: 12:52:29	Time On Btm:
		Time Off Btm:

TEST COMMENT: IF: Tool opened just a few bubbles, Flushed tool, a few bubbles and then dead.
IS: No blow over 60 mins.
FF: No blow over 30 mins.
FS: No blow back over 60 mins.



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil specs	0.02

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 5 33w Rawlins Ks.

250 N. Water Ste. 300
Wichita Ks. 67202

Ruda A #1-9

Job Ticket: 042957

DST#: 2

ATTN: Steve Miller

Test Start: 2011.12.30 @ 05:05:00

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil specs	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

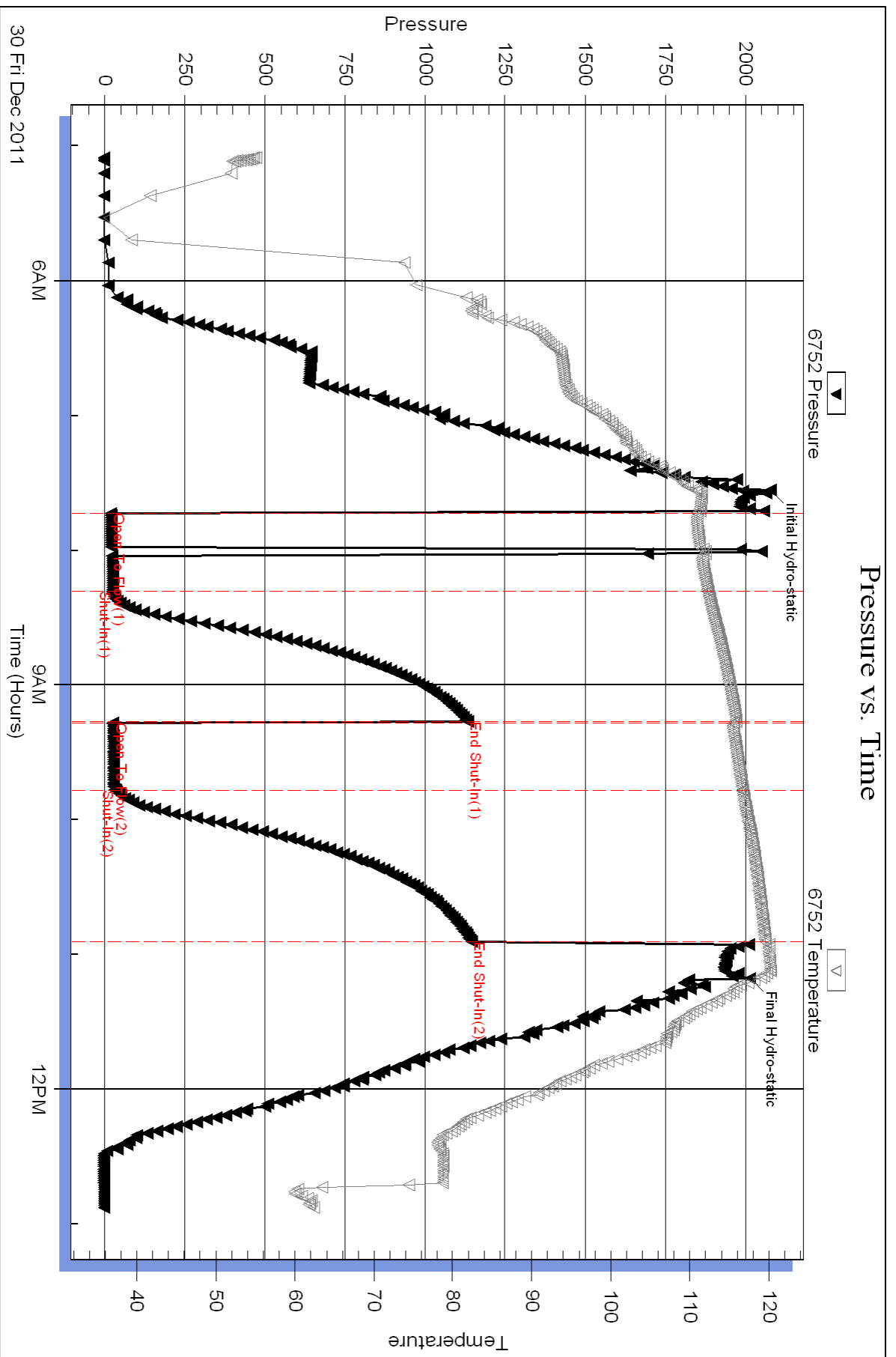
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

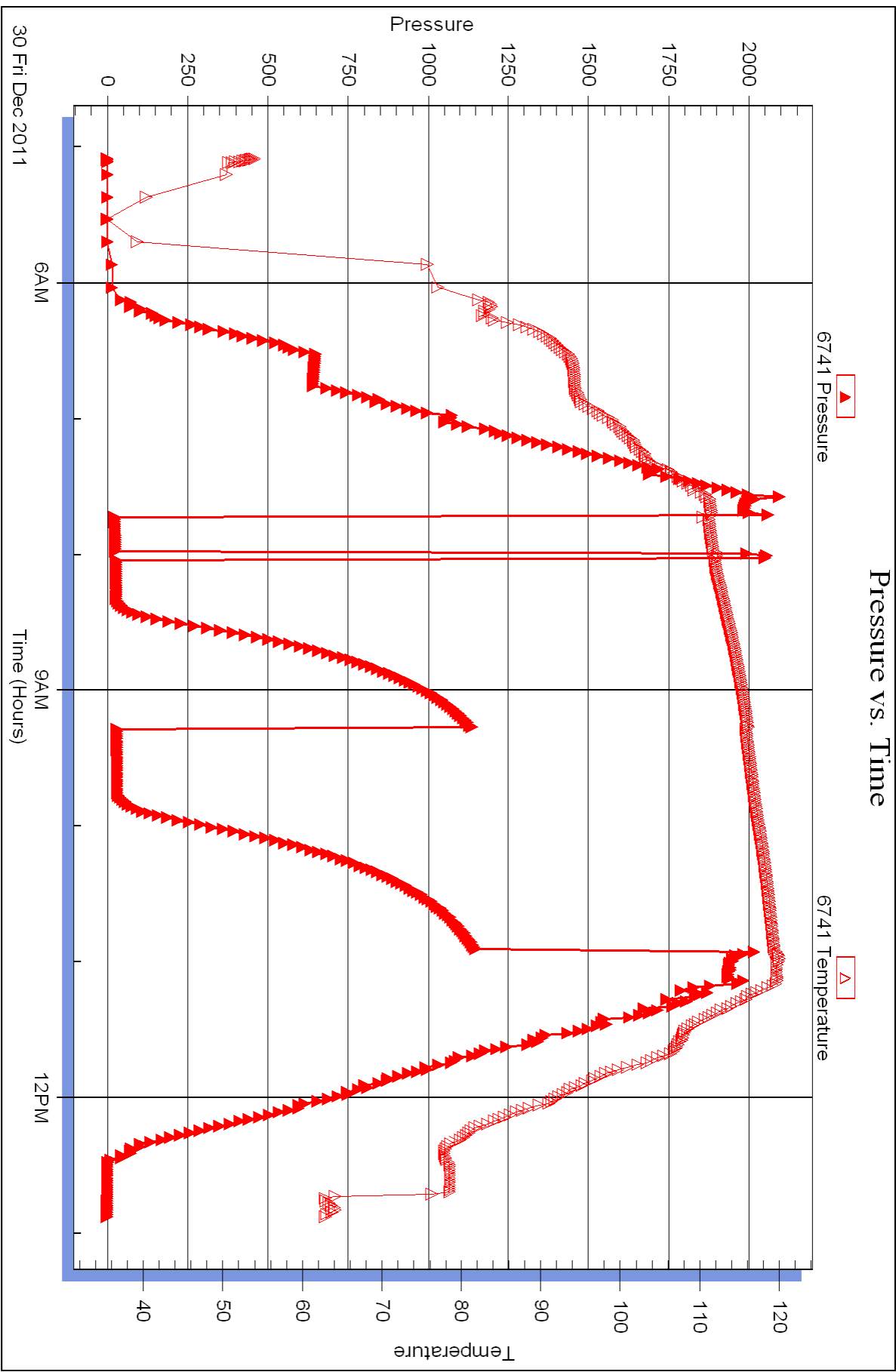


Serial #: 6741

Outside Murfin Drilling Co.

Ruda A #1-9

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita Ks. 67202
ATTN: Steve Miller

9 5 33w Rawlins Ks.
Ruda A #1-9
Job Ticket: 042958 **DST#: 3**
Test Start: 2011.12.30 @ 21:30:00

GENERAL INFORMATION:

Formation: **LKC-E,F,G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:51:30
Time Test Ended: 06:13:00
Interval: **4104.00 ft (KB) To 4150.00 ft (KB) (TVD)**
Total Depth: 4150.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 3102.00 ft (KB)
3097.00 ft (CF)
KB to GR/CF: 5.00 ft

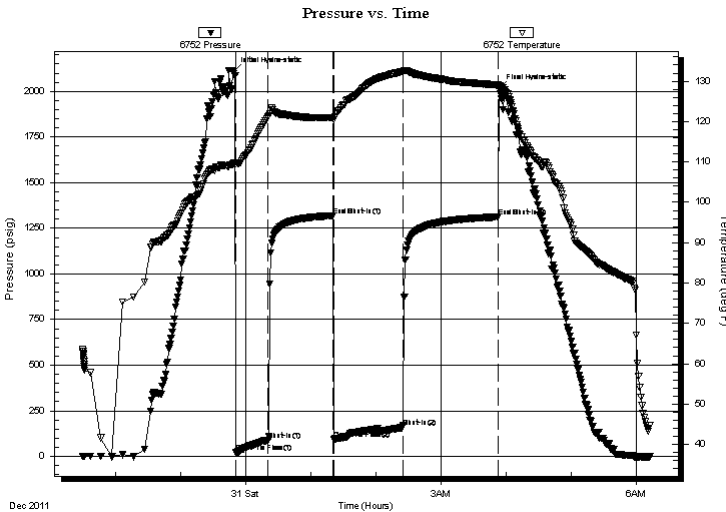
Serial #: 6752

Inside

Press @ Run Depth: 158.71 psig @ 4105.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.12.30 End Date: 2011.12.31 Last Calib.: 2011.12.31
Start Time: 21:30:05 End Time: 06:13:00 Time On Btm: 2011.12.30 @ 23:49:00
Time Off Btm: 2011.12.31 @ 03:54:00

TEST COMMENT: IF: Fair blow, Built to 5 in. over 30 mins.
IS: Blow back after 5 mins. Built to 1/8 in. over 60 mins.
FF: Fair blow, Built to B.O.B over 60 mins.
FS: No blow back over 90 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.33	109.57	Initial Hydro-static
3	20.85	109.55	Open To Flow (1)
32	88.91	121.21	Shut-In(1)
92	1319.35	120.90	End Shut-In(1)
93	94.20	120.53	Open To Flow (2)
156	158.71	132.43	Shut-In(2)
244	1312.12	129.05	End Shut-In(2)
245	2014.45	128.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw -10% m90% w	0.59
61.00	mcw -25% m75% w	0.30
62.00	w cm-50% w 50% m	0.87
62.00	mud-100%	0.87
0.00	1. @50* =8500	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.
 250 N. Water Ste. 300
 Wichita Ks. 67202
 ATTN: Steve Miller

9 5 33w Rawlins Ks.
Ruda A #1-9
 Job Ticket: 042958 **DST#: 3**
 Test Start: 2011.12.30 @ 21:30:00

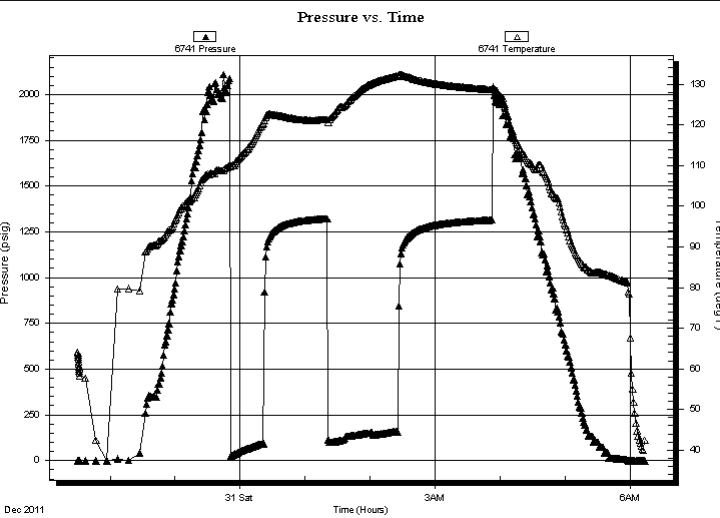
GENERAL INFORMATION:

Formation: **LKC-E,F,G**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 23:51:30 Tester: Chuck Kreutzer Jr.
 Time Test Ended: 06:13:00 Unit No: 36
Interval: 4104.00 ft (KB) To 4150.00 ft (KB) (TVD)
 Reference Elevations: 3102.00 ft (KB)
 Total Depth: 4150.00 ft (KB) (TVD) 3097.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6741 Outside

Press @ Run Depth: psig @ 4105.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.12.30 End Date: 2011.12.31 Last Calib.: 2011.12.31
 Start Time: 21:30:05 End Time: 06:13:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Fair blow , Built to 5 in. over 30 mins.
 IS: Blow back after 5 mins. Built to 1/8 in. over 60 mins.
 FF: Fair blow , Built to B.O.B over 60 mins.
 FS: No blow back over 90 mins.



PRESSURE SUMMARY

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

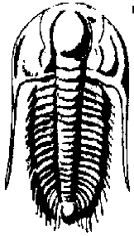
Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw -10%m90%w	0.59
61.00	mcw -25%m75%w	0.30
62.00	w cm-50%w 50%m	0.87
62.00	mud-100%	0.87
0.00	1.@50*=8500	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 5 33w Rawlins Ks.

250 N. Water Ste. 300
Wichita Ks. 67202

Ruda A #1-9

Job Ticket: 042958

DST#: 3

ATTN: Steve Miller

Test Start: 2011.12.30 @ 21:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

8500 ppm

Viscosity: 7.20 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	mcw -10%m90%w	0.590
61.00	mcw -25%m75%w	0.300
62.00	w cm-50%w 50%m	0.870
62.00	mud-100%	0.870
0.00	1. @50*=8500	0.000

Total Length: 305.00 ft

Total Volume: 2.630 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

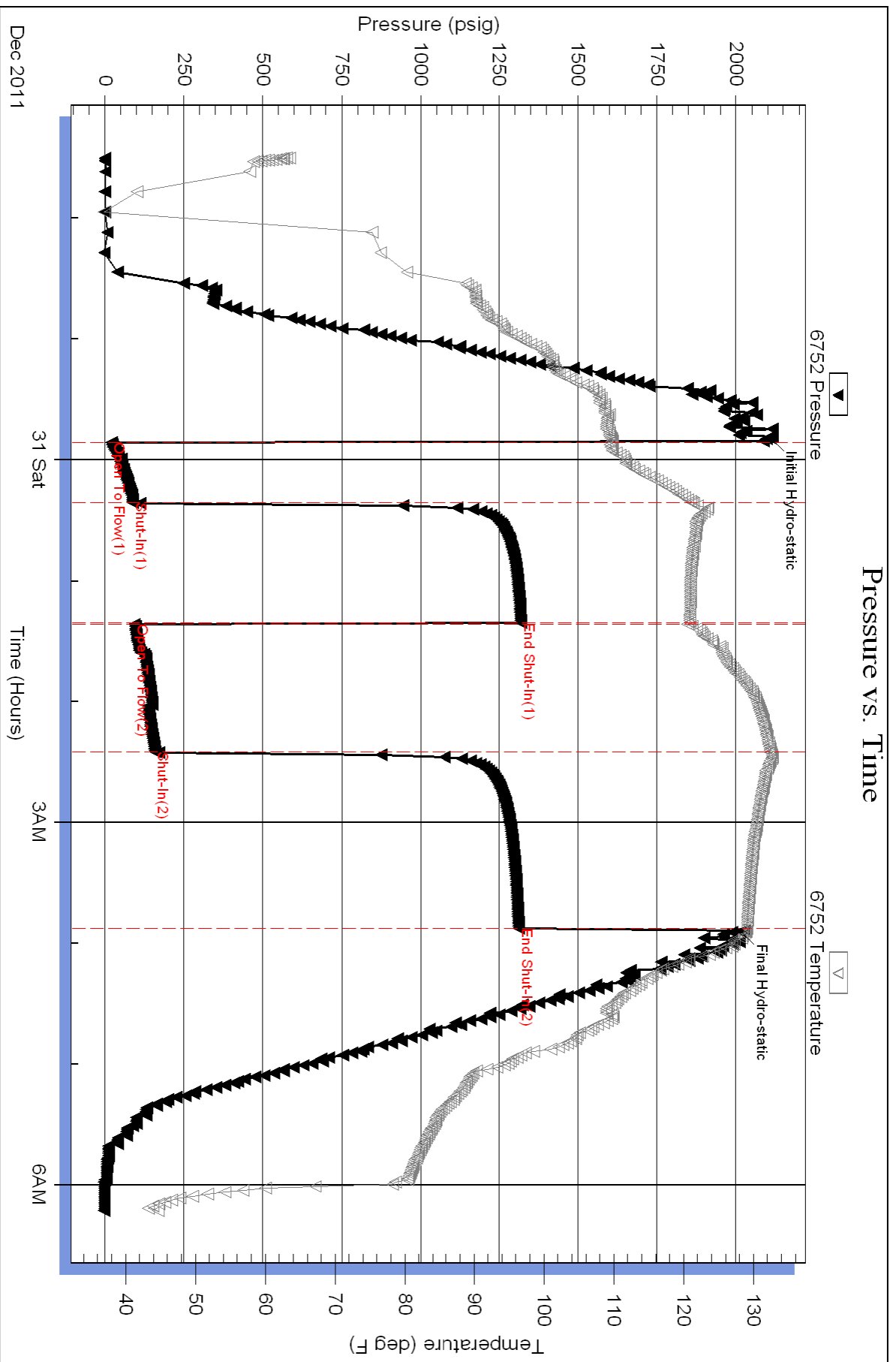
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

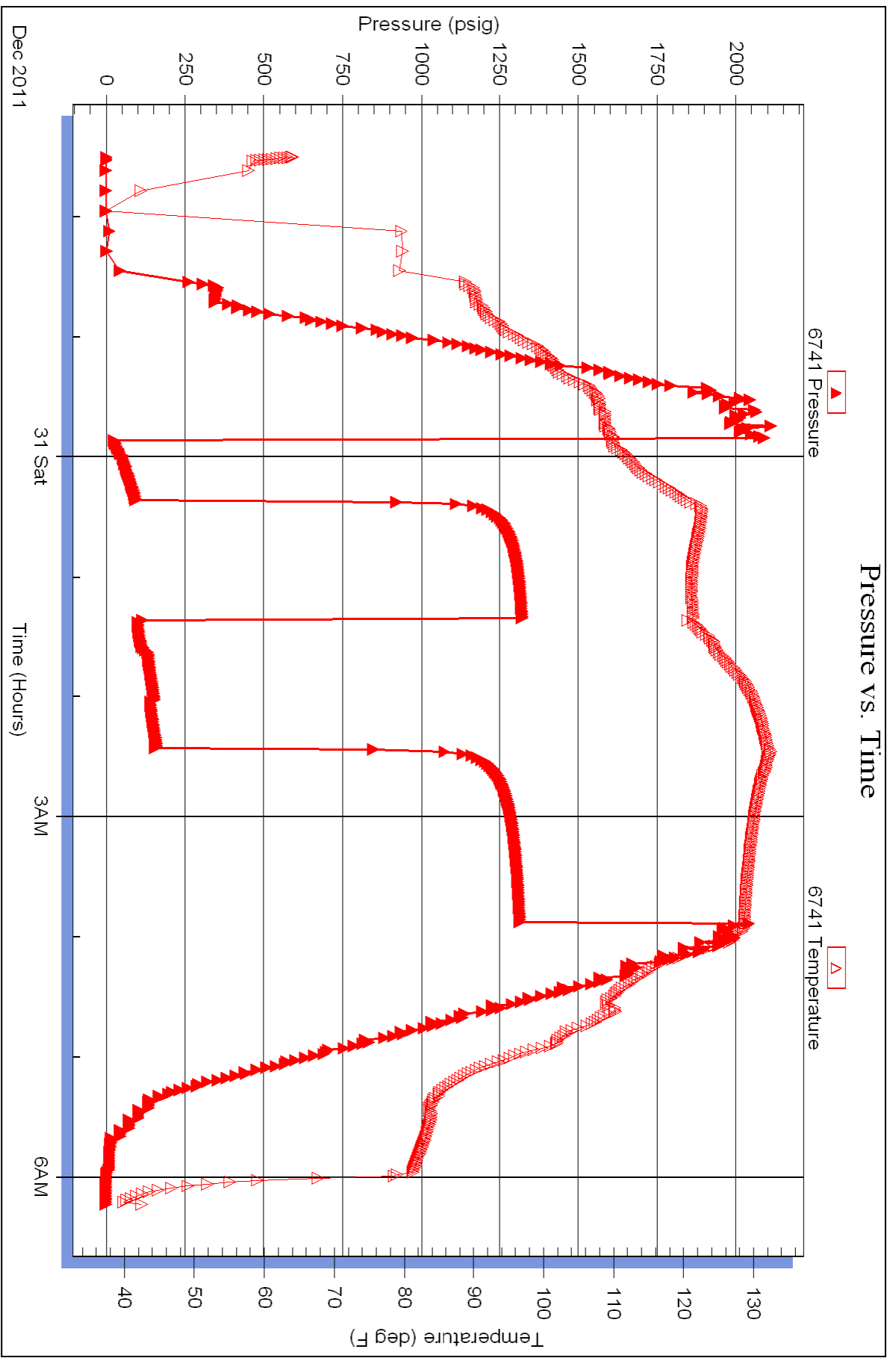


Serial #: 6741

Outside Murfin Drilling Co.

Ruda A #1-9

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.
250 N. Water Ste. 300
Wichita Ks. 67202
ATTN: Steve Miller

9 5 33w Rawlins Ks.
Ruda A #1-9
Job Ticket: 042959 **DST#: 4**
Test Start: 2012.01.02 @ 00:30:00

GENERAL INFORMATION:

Formation: **Pawnee, Fort scott,**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:53:30
Time Test Ended: 09:05:30
Interval: **4429.00 ft (KB) To 4543.00 ft (KB) (TVD)**
Total Depth: 4543.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 36
Reference Elevations: 3102.00 ft (KB)
3097.00 ft (CF)
KB to GR/CF: 5.00 ft

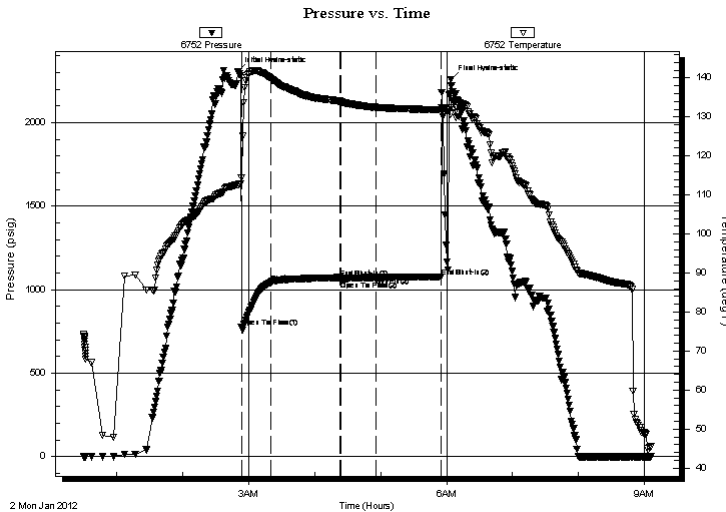
Serial #: 6752

Inside

Press @ Run Depth: 1072.71 psig @ 4430.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.01.02 End Date: 2012.01.02 Last Calib.: 2012.01.02
Start Time: 00:30:05 End Time: 09:05:30 Time On Btm: 2012.01.02 @ 02:50:30
Time Off Btm: 2012.01.02 @ 06:04:00

TEST COMMENT: IF: Strong blow , Built to B.O.B in 30 sec.
IS: No blow back over 60 mins.
FF: Fair blow , Built to B.O.B in 5 mins.
FS: No blow back over 60 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.35	112.67	Initial Hydro-static
3	773.83	114.50	Open To Flow (1)
30	1042.44	139.77	Shut-In(1)
93	1071.46	134.02	End Shut-In(1)
93	1054.49	134.00	Open To Flow (2)
125	1072.71	132.46	Shut-In(2)
184	1076.03	131.85	End Shut-In(2)
194	2258.46	132.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2028.00	water-100%w	26.80
186.00	w cm-50%w 50%m	2.61
186.00	mud-100%m	2.61
0.00	.8@56.3*=9500 chlorides	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

9 5 33w Rawlins Ks.

250 N. Water Ste. 300
Wichita Ks. 67202

Ruda A #1-9

Job Ticket: 042959

DST#: 4

ATTN: Steve Miller

Test Start: 2012.01.02 @ 00:30:00

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:

9500 ppm

Viscosity: 76.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2028.00	water-100%w	26.799
186.00	w cm-50%w 50%m	2.609
186.00	mud-100%m	2.609
0.00	.8@56.3*=9500 chlorides	0.000

Total Length: 2400.00 ft

Total Volume: 32.017 bbl

Num Fluid Samples: 0

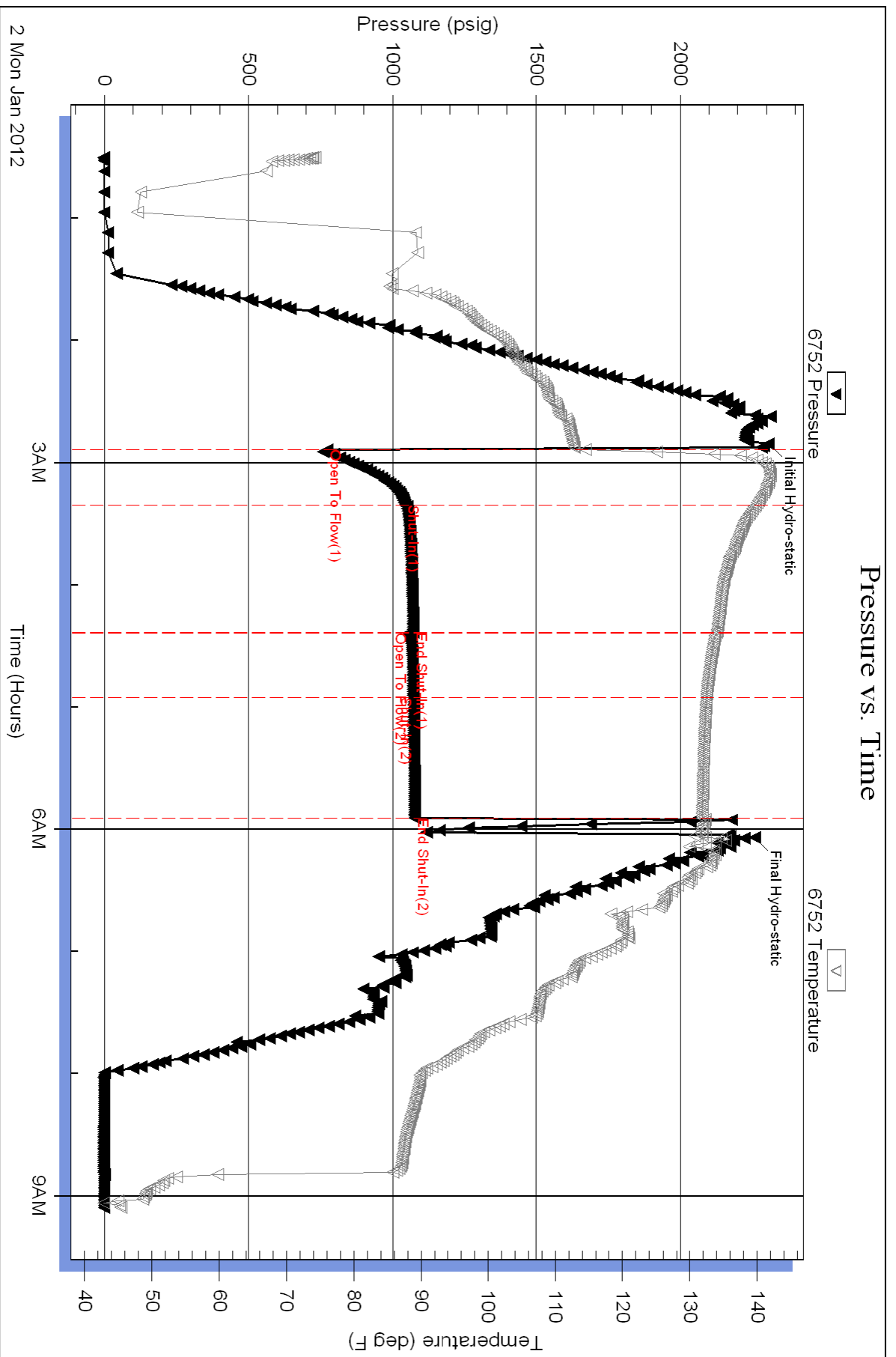
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





Inv. acct.

INVOICE

24 S. Lincoln Street
 P.O. Box 31
 Russell, KS 67665-2906
 Voice: (817) 546-7282
 Fax: (817) 246-3361

Invoice Number: 129693
 Invoice Date: Dec 21, 2011
 Page: 1

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

Federal Tax I.D.#: 20-5975804

*operator pay
 mpc
 m*

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Ruda A #1-9	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Dec 21, 2011	1/20/12

Quantity	Item	Description	Unit Price	Amount
210.00	MAT	Class A Common	16.25	3,412.50
8.00	MAT	Chloride	58.20	465.60
218.00	SER	Handling	2.25	490.50
45.00	SER	Mileage sx x mix .11	23.98	1,079.10
1.00	SER	Surface	1,125.00	1,125.00
45.00	SER	Pump Truck Mileage	7.00	315.00
1.00	SER	Manifold Swedge Rental	325.00	325.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Brandon Wilkinson		

Subtotal	7,392.70
Sales Tax	312.19
Total Invoice Amount	7,704.89
Payment/Credit Applied	
TOTAL	7,704.89

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1.12% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 2587.44

ONLY IF PAID ON OR BEFORE
Jan 15, 2012

0150 → **- 2587.44**

ALLIED CEMENTING CO., LLC. 036150

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Oakley, KS

DATE <u>12-21-11</u>	SEC. <u>9</u>	TWP. <u>5</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>7:45pm</u>	JOB START <u>7:30pm</u>	JOB FINISH <u>10:00pm</u>
LEASE <u>Rudal 194</u>	WELL # <u>1-9</u>		LOCATION <u>Colby, KS 17 1/2 N to Rd 6.</u>		COUNTY <u>Rauhan</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>1E 1 1/4 9 into</u>				

CONTRACTOR Marfyn #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 2381

CASING SIZE 8 7/8" DEPTH 2381

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 301

PERFS.

DISPLACEMENT 15,48661

OWNER Same

CEMENT AMOUNT ORDERED 210 sks com 320cc

EQUIPMENT

PUMP TRUCK CEMENTER Lakene

431 HELPER Darren

BULK TRUCK

404 DRIVER Brandon

BULK TRUCK DRIVER

COMMON 210 sks @ 16.25 3412.50

POZMIX @

GEL @

CHLORIDE 85 sks @ 58.20 4956.00

ASC @

HANDLING 210 sks @ 2.25 470.50

MILEAGE 118 sks/mile 1472.70

TOTAL 5447.70

REMARKS:
mix 210 sks cement
Displace with water
cement did circulate

Thank You

CHARGE TO: Marfyn Drilling Co

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @ _____

MILEAGE 45 @ 7.00 315.00

MANIFOLD swedge @ 325.00

LU. mileage @ 4.00 180.00

TOTAL 1945.00

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

PRINTED NAME _____

SIGNATURE Robyn Fan

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



PO Box 31
Russell, KS 67665

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

Acct. Del.

INVOICE

Invoice Number: 129811
Invoice Date: Jan 3, 2012
Page: 1

PROD COPY

Federal Tax I.D.#: 20-5975804

*operator pay
MPC
am*

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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Ruda A #1-9	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Jan 3, 2012	2/2/12

Quantity	Item	Description	Unit Price	Amount
135.00	MAT	Class A Common	16.25	2,193.75
90.00	MAT	Pozmix	8.50	765.00
8.00	MAT	Gel	21.25	170.00
56.00	MAT	Flo Seal	2.70	151.20
235.00	SER	Handling	2.25	528.75
45.00	SER	Mileage 235 sx @.11	25.85	1,163.25
1.00	SER	<u>Plug to Abandon</u>	1,250.00	1,250.00
45.00	SER	Pump Truck Mileage	7.00	315.00
45.00	SER	Light Vehicle Mileage	4.00	180.00
1.00	EQP	4.5 Top Wooden Plug	92.00	92.00
1.00	EQUIP OPER	Darren Racette		
1.00	CEMENTER	LaRene Wentz		
1.00	OPER ASSIST	Chris Helpingstine		

Account *10203* *4973.94* *PTA A #1-9*
3.6447.0001

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

\$ 2383.13

ONLY IF PAID ON OR BEFORE
Jan 28, 2012

Subtotal	6,808.95
Sales Tax	548.12
Total Invoice Amount	7,357.07
Payment/Credit Applied	
TOTAL	7,357.07

- 2383.13

4973.94

ALLIED CEMENTING CO., LLC. 036153

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Dakleyes

DATE <u>1-3-12</u>	SEC. <u>9</u>	TWP. <u>5</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>4:00pm</u>	JOB START <u>7:30pm</u>	JOB FINISH <u>8:30pm</u>
LEASE <u>Rada "A"</u>	WELL # <u>1-9</u>	LOCATION <u>Colby Ks 17 1/2 N 1 E</u>			COUNTY <u>Rauvenus</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>1 1/4 Suits</u>			

CONTRACTOR Murfin #8

TYPE OF JOB PTA

HOLE SIZE 2 7/8 T.D. 5034'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2819'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LBFT IN CSG. _____

PERFS. _____

DISPLACEMENT 36.53 bbl

OWNER same

CEMENT

AMOUNT ORDERED 225 sks 60/40
49 gal 100# flo seal

COMMON	<u>135</u>	@	<u>16.25</u>	<u>2193.75</u>
POZMIX	<u>90</u>	@	<u>8.50</u>	<u>765.00</u>
GEL	<u>8</u>	@	<u>21.25</u>	<u>170.00</u>
CHLORIDE		@		
ASC		@		
<u>flo seal</u>	<u>56 gal</u>	@	<u>2.26</u>	<u>126.20</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>235 sks</u>	@	<u>2.25</u>	<u>528.75</u>
MILEAGE	<u>114 sk/mile</u>	@		<u>1163.25</u>

EQUIPMENT

PUMP TRUCK CEMENTER Lakane

431 HELPER Darrin

BULK TRUCK

347 DRIVER Chris

BULK TRUCK

_____ DRIVER _____

TOTAL 4971.95

REMARKS:

Mix 25 sks at 2819'

mix 100 sks at 1997'

mix 40 sks at 40'

mix 10 sks w/ wooden plug in top of hole

plug mouse hole 20 sks

plug rat hole 30 sks

SERVICE

DEPTH OF JOB	<u>2819'</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>45</u>	@	<u>7.00</u> <u>315.00</u>
MANIFOLD		@	
<u>L.I. charge</u>		@	<u>4.00</u> <u>180.00</u>
		@	

CHARGE TO: Murfin Drilling Co.

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1745.00

PLUG & FLOAT EQUIPMENT

<u>1-Top wooden plug</u>	@	<u>92.00</u>
	@	
	@	
	@	

TOTAL 92.00

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

PRINTED NAME Travis Martin

SIGNATURE Travis Martin

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS