Confidentiality Requested: Yes No

KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1215597

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 #		API No. 15
Name:		Spot Description:
Address 1:		
Address 2:		Feet from North / South Line of Section
City: State: Zip):+	Feet from East / West Line of Section
Contact Person:		Footages Calculated from Nearest Outside Section Corner:
Phone: ()		
CONTRACTOR: License #		GPS Location: Lat:, Long:
Name:		(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84
Purchaser:		County:
Designate Type of Completion:		Lease Name: Well #:
New Well Re-Entry	Workover	Field Name:
		Producing Formation:
	SIOW	Elevation: Ground: Kelly Bushing:
		Total Vertical Depth: Plug Back Total Depth:
OG GSW GSW CM (Coal Bed Methane)	Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):		Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:		If yes, show depth set: Feet
Operator:		If Alternate II completion, cement circulated from:
Well Name:		feet depth to:w/sx cmt.
Original Comp. Date: Original To		
Deepening Re-perf. Conv. to EN	<u> </u>	Drilling Fluid Menonement Disp
	W Conv. to Producer	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:
		Location of huld disposal in hadred offsite.
		Operator Name:
		Lease Name: License #:
Spud Date or Date Reached TD	Completion Date or	QuarterSecTwpS. R East West
Recompletion Date	Recompletion Date	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:

	Page Two	1215597
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS. Chow important tang of formations populated	Dotail all cores Report all	final conject of drill stome taste giving interval tasted, time tool

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 (Attach Additional She	eets)	Yes No		-	on (Top), Depth ar		Sample
Samples Sent to Geolog	ical Survey	Yes No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING	RECORD Ne	w Used			
		Report all strings set-c	conductor, surface, inte	ermediate, producti	on, 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 / SQL	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	

Perforate	Top Bottom	71			
Protect Casing					
Plug Off Zone					
Did you perform a hydraulic	fracturing treatment	on this well?	Yes	No	(If No, skip questions 2 and 3)

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

(If No, skip questions 2 and 3) (If No, skip question 3)

No No

No

(If No, fill out Page Three of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval F		96			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	I Product	ion, SWD or ENH	٦.	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI		245.			METHOD	OF COMPLE			PRODUCTION IN	
Vented Solo (If vented, Su	d 🗌 l	Used on Lease		Open Hole Other <i>(Specify)</i>	Perf.	Dually (Submit)	Comp.	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Melba 1-34
Doc ID	1215597

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Boreole Compensated

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Melba 1-34
Doc ID	1215597

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.2500	8.6250	23	224	Common	3% CC, 2% Gel



DRILL STEM TEST REPORT

Prepared For:

Murfin Drilling Co., Inc.

20 N Water STE #300 Wichita, KS 67202

ATTN: Keith Reavis

Melba #1-34

34-4s-31w Rawlins,KS

 Start Date:
 2014.05.05 @ 06:21:00

 End Date:
 2014.05.05 @ 14:14:00

 Job Ticket #:
 56834
 DST #: 1

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

	DRILL STEM TES	T REP	ORT				
	Murfin Drilling Co., Inc.		34-4	4s-31w	Rawlins,I	KS	
ESTING , IN	2011 Water OTE #000		Ме	lba #1-3	34		
	Wichita, KS 67202		Job	Ticket: 56	6834	DST#:	1
	ATTN: Keith Reavis		Test	t Start: 20)14.05.05 @	06:21:00	
GENERAL INFORMATION:	+						
Formation:Toronto-LansingDeviated:NoWhipstock:Time Tool Opened:08:52:00Time Test Ended:14:14:00	ft (KB)		Test Test Unit	ter: I	Conventiona Kevin MAck 66	al Bottom Ho	le (Initial)
Interval:3905.00 ft (KB) ToTotal Depth:3990.00 ft (KB) (Hole Diameter:7.88 inches H			Refe	erence Ele KB t	evations: o GR/CF:	2940.00 2935.00 5.00	ft (CF)
Serial #: 8874 Inside Press@RunDepth: 53.57 psig Start Date: 2014.05.05 Start Time: 06:22:00 TEST COMMENT: 30 - IF- 1/4" BI 60 - ISI- No Re 30 - FF- No Bit 60 - FSI- No Re 30 - FF- No Bit	End Date: End Time: bw built to 1" turn	2014.05.05 14:14:00	Capacity: Last Calit Time On I Time Off	o.: Btm: 2	2014.05.05	8000.00 2014.05.05 @ 08:50:30 @ 11:54:00	
Pressure v	. Тіте				RE SUMM		
1574 Pressure	2874 Temperature	Time	Pressure	Temp	Annotatio		
2000		(Min.) 0	(psig) 1951.31	(deg F) 114.83	Initial Hydr	o-static	
		2	16.76	114.47	Open To F	low (1)	
		31 91	38.41 1228.68	115.35 117 22	Shut-In(1) End Shut-I		
		0.2	44.75		Open To F	. ,	
		121	53.57	118.31			
79 50 50 50 50 50 50 50 50 50 50		181 184	1209.92 1931.98	119.34 119.44	End Shut-I Final Hydro		
Recover	/		ļļ	Ga	s Rates		
Length (ft) Description	Volume (bbl)			Choke (i		ure (psig) Ga	as Rate (Mcf/d)
10.00 OSM 100M (oil spots)	0.05			•	I	!	
60.00 Mud 100M	0.39						
Trilobite Testing, Inc	Ref. No: 56834			Driptod	2014.05.09	0 44:44:44	

	DRILL STEM TES	ST REP	ORT			
RILOBITE	Murfin Drilling Co., Inc.		34-4s-31v	v Rawlins	KS	
ESTING , N			Melba #1	-34		
	Wichita, KS 67202		Job Ticket:	56834	DST	#: 1
	ATTN: Keith Reavis		Test Start:	2014.05.05 (@ 06:21:00)
GENERAL INFORMATION:	ł					
Formation:Toronto-LansingDeviated:NoWhipstock:Time Tool Opened:08:52:00Time Test Ended:14:14:00	ft (KB)		Test Type: Tester: Unit No:	Conventior Kevin MAc 66		Hole (Initial)
Interval:3905.00 ft (KB) ToTotal Depth:3990.00 ft (KB) (Hole Diameter:7.88 inches He			Reference KI	Elevations: B to GR/CF:	2935.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8653OutsidePress@RunDepth:psigStart Date:2014.05.05Start Time:06:22:00		2014.05.05 14:12:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2014.05.0	00 psig 05
TEST COMMENT: 30 - IF- 1/4" Bi 60 - ISI- No Re 30 - FF- No Bi 60 - FSI- No Re	urn w turn					
Pressure vs attal att	. Time A 8053 Temperature					
200 1750 1		Time (Min.)	Pressure Temp (psig) (deg F			
Recovery	,		G	as Rates		
Length (ft) Description	Volume (bbl)		Chok	e (inches) Pres	sure (psig)	Gas Rate (Mcf/d)
10.00 OSM 100M (oil spots) 60.00 Mud 100M	0.05 0.39					
	Bef No: 56834			d [.] 2014 05 0		

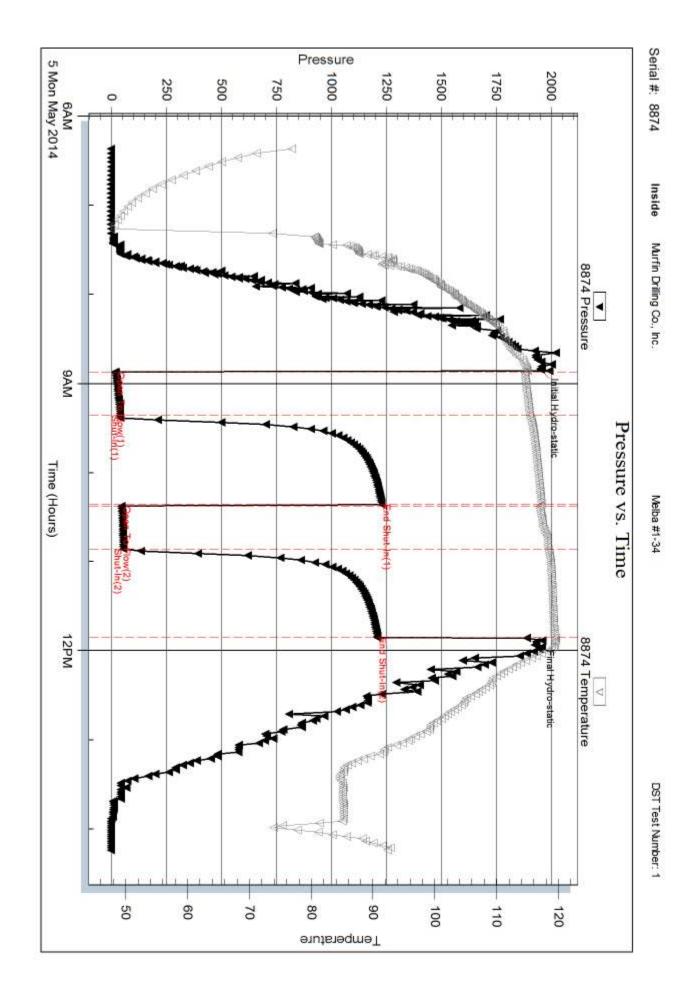
	ODITE	DRIL	L STE	MIESI	REPOR	Г	TOOL DIAGR
金巻き	OBITE	Murfin D	rilling Co., Inc	.		34-4s-31w Rawlins,	KS
	STING , INC	20 N Wa	ter STE#300)		Melba #1-34	
			KS 67202			Job Ticket: 56834	DST#:1
			Keith Reavis				-
		ATIN:	Keith Reavis			Test Start: 2014.05.05 @	106:21:00
Tool Information							
Drill Pipe: Leng	th: 3834.00 ft	Diameter:	3.80 in	ches Volume:	53.78 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Leng	th: 0.00 ft	Diameter:	0.00 ind	ches Volume:	0.00 bbl	Weight set on Packer	: 25000.00 lb
Drill Collar: Leng	th: 60.00 ft	Diameter:	2.25 in	ches Volume:	0.30 bbl	Weight to Pull Loose:	
Drill Pipe Above KB:	17.00 ft			Total Volume:	54.08 bbl	Tool Chased	ft
Depth to Top Packer:	3905.00 ft					String Weight: Initial	60000.00 lb
Depth to Bottom Packer						Final	60000.00 lb
Interval betw een Packe							
Tool Length:	113.00 ft						
-	2	Diameter:	6.75 in	ches			
Number of Packers:	2		00	01100			
Number of Packers: Tool Comments:						I	
Tool Comments: Tool Description		• • •	Serial No.	Position		cum. Lengths	
Tool Comments: Tool Description Change Over Sub		1.00			3878.00	cum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool		1.00 5.00			3878.00 3883.00	cum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool		1.00			3878.00	cum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars		1.00 5.00 5.00			3878.00 3883.00 3888.00	cum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint		1.00 5.00 5.00 5.00			3878.00 3883.00 3888.00 3893.00	cum. Lengths	Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer		1.00 5.00 5.00 5.00 3.00			3878.00 3883.00 3888.00 3893.00 3896.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		1.00 5.00 5.00 5.00 3.00 5.00			3878.00 3883.00 3888.00 3893.00 3896.00 3901.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool		1.00 5.00 5.00 5.00 3.00 5.00 4.00			3878.00 3883.00 3888.00 3893.00 3896.00 3901.00 3905.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder		1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00	Serial No.	Position	3878.00 3883.00 3888.00 3893.00 3896.00 3901.00 3905.00 3906.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder		1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00	Serial No. 8653	Position	3878.00 3883.00 3888.00 3893.00 3896.00 3901.00 3905.00 3906.00 3906.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations		1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 0.00	Serial No. 8653	Position	3878.00 3883.00 3883.00 3893.00 3896.00 3901.00 3905.00 3906.00 3906.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Perforations Change Over Sub		1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 0.00 15.00	Serial No. 8653	Position	3878.00 3883.00 3883.00 3893.00 3896.00 3901.00 3905.00 3906.00 3906.00 3906.00 3921.00		Bottom Of Top Pack
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 15.00 1.00	Serial No. 8653	Position	3878.00 3883.00 3883.00 3893.00 3896.00 3901.00 3905.00 3906.00 3906.00 3906.00 3921.00 3922.00		Bottom Of Top Pack

100		DRI	ILL STEM TEST REPORT		FI		
(2 ± 2)	RILOBITE	Murfin	Drilling Co., Inc.	34-4s-31w	Rawlins,KS		
	TRILOBITE TESTING , INC.		Vater STE #300 a, KS 67202	Melba #1-			
			Keith Reavis	Job Ticket: 56834 DST#:1 Test Start: 2014.05.05 @ 06:21:00			
. Berlin		ATTN.	Keiti reavis		2014.05.05 @ 06.2	21.00	
	ushion Information						
Mud Type: C Mud Weight: Viscosity: Water Loss: Resistivity: Salinity: Filter Cake:	Gel Chem 9.00 lb/gal 50.00 sec/qt 6.79 in ³ 0.00 ohm.m 1200.00 ppm 2.00 inches		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	deg API ppm	
Recovery I	nformation						
	I .		Recovery Table		Г		
	Leng ft		Description	Volume bbl			
		10.00	OSM 100M (oil spots) Mud 100M	0.049			
	Total Length:		0.00 ft Total Volume: 0.435 bbl	0.000	1		
	Laboratory Nan Recovery Com		Laboratory Location:				

Printed: 2014.05.09 @ 14:41:44

Ref. No: 56834

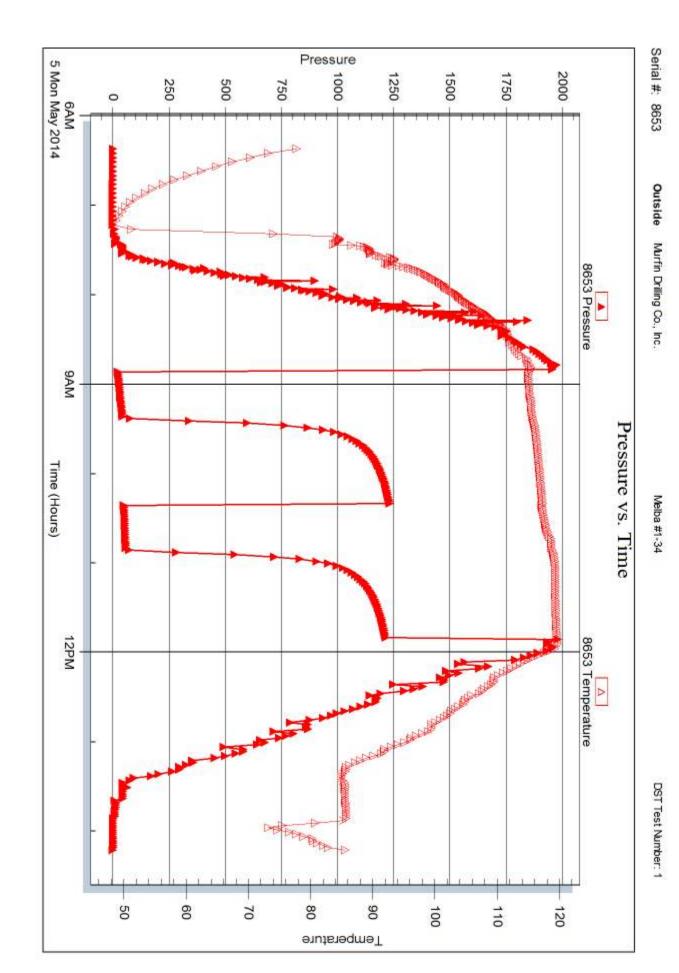
Trilobite Testing, Inc



Printed: 2014.05.09 @ 14:41:44

Ref. No: 56834

Trilobite Testing, Inc





DRILL STEM TEST REPORT

Prepared For:

Murfin Drilling Co., Inc.

20 N Water STE #300 Wichita, KS 67202

ATTN: Keith Reavis

Melba #1-34

34-4s-31w Rawlins,KS

 Start Date:
 2014.05.06 @ 00:50:00

 End Date:
 2014.05.06 @ 08:37:00

 Job Ticket #:
 56835
 DST #:
 2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 DST # 2

RILOBITE	DRILL STEM TES	ST	REPO	ORT				
	Murfin Drilling Co., Inc.			34-	-4s-31w	Rawlins	,KS	
ESTING , INC	20 N Water STE #300			Ме	elba #1-3	34		
	Wichita, KS 67202		Job Ticket: 56835			6835	DST	#:2
NON.	ATTN: Keith Reavis			Tes	t Start: 20	014.05.06 (@ 00:50:00)
GENERAL INFORMATION:								
Formation:LKC "F-G"Deviated:NoWhipstock:Time Tool Openeel:03:34:30Time Test Endeel:08:37:00	ft (KB)			Tes	ster:	Conventior Kevin Macl 66		Hole (Initial)
Interval:4008.00 ft (KB) To40Total Depth:4040.00 ft (KB) (ThHole Diameter:7.88 inches Hole				Ref	erence Ele KB t	evations: to GR/CF:	2935.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8653 Outside Press@RunDepth: 35.24 psig Start Date: 2014.05.06 Start Time: 00:51:00	End Date: End Time:	2	014.05.06 08:37:00	Capacity Last Cali Time On Time Off	ib.: Btm: 2		8000.0 2014.05.0 6 @ 03:32:3 6 @ 06:42:3	30
60 - ISI- No Retu 30 - FF- No Blow 60 - FSI- No Retu Pressure vs. 1	irn īme			P	RESSUF		MARY	
2000	803 Tempendure	t	Time	Pressure	Temp	Annota		
1790			(Min.) 0	(psig) 1947.00	(deg F) 116.17	Initial Hyd	Iro-static	
1500	110		2 40	23.04 29.78		Open To		
			40 95	29.78 1210.94		Shut-In(1 End Shut		
		Temp	96	31.81		Open To		
i y j		mperature	126 186	35.24 1193.46	120.14 121.31	· ·	,	
75 50 27 4 4 50 4 50 50 50 50 50 50 50 50 50 50	- 70 - 70 - 70 - 70 - 70 - 70 - 70 - 70		190	1907.48	120.96			
Recovery				ļ	Ga	s Rates		
Length (ft) Description	Volume (bbl)				Choke (i	inches) Pres	sure (psig)	Gas Rate (Mcf/d)
20.00 Mud 100M	0.10				-	I		

	DRILL STEM TES	ST REP	ORT			
RILOBITE	Murfin Drilling Co., Inc.		34-4s-31v	v Rawlins,	KS	
ESTING, INC.			Melba #1	-34		
	Wichita, KS 67202		Job Ticket:	56835	DST#	#:2
	ATTN: Keith Reavis		Test Start:	2014.05.06 @	@ 00:50:00)
GENERAL INFORMATION:						
Formation:LKC "F-G"Deviated:NoWhipstock:Time Tool Opened:03:34:30Time Test Ended:08:37:00	ft (KB)		Test Type: Tester: Unit No:	Convention Kevin Mack 66		Hole (Initial)
Interval:4008.00 ft (KB) To4Total Depth:4040.00 ft (KB) (ToHole Diameter:7.88 inches Ho			Reference Ki	Elevations: B to GR/CF:	2935.0	00 ft(KB) 00 ft(CF) 00 ft
Serial #: 8874InsidePress@RunDepth:psigStart Date:2014.05.06Start Time:00:51:00	End Date:	2014.05.06 08:38:30	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2014.05.0	00 psig 06
TEST COMMENT: 30 - IF- 1/2" Blo 60 - ISI- No Ret 30 - FF- No Blo 60 - FSI- No Re	urn W turn		PRESSI	JRE SUMN		
18574 Pressure	astra temperature	Time	Pressure Temp	Annotat		
200 170 170 170 170 170 170 170 1		(Min.)	(psig) (deg F	Ē)		
Recovery			G	as Rates		
Length (ft) Description 20.00 Mud 100M	Volume (bbl)		Chok	e (inches) Press	sure (psig)	Gas Rate (Mcf/d)
	0.10					
				d [.] 2014 05 0		

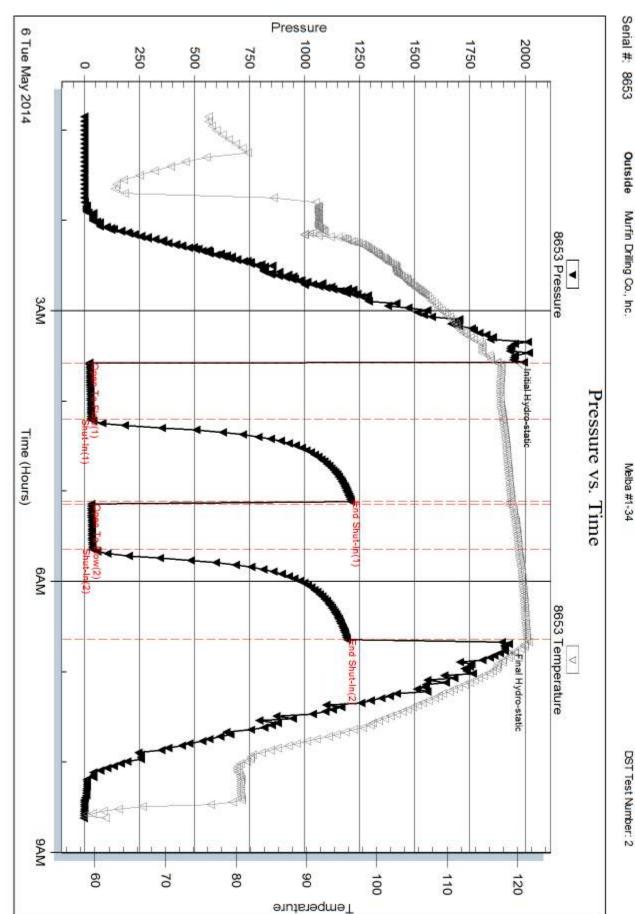
$\Delta (\mathbf{x} \setminus \mathbf{z})$			DRI	LL STE	EM TEST	REPOR	RT	TOOL DIAGRA
	KILUE	BITE TING , INC	Murfin [Drilling Co., Ir	ıc.		34-4s-31w Rawlins,	KS
	ES1	TING , INC	-	ater STE #30	00		Melba #1-34	
			Wichita	, KS 67202			Job Ticket: 56835	DST#:2
NON.			ATTN:	Keith Reavi	s		Test Start: 2014.05.06 @	00:50:00
Tool Informatio	on		ļ					
Drill Pipe:	Length:	3925.00 ft	Diameter:	3.80 ii	nches Volume:	55.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 ii	nches Volume:	0.00 bbl	Weight set on Packer	: 25000.00 lb
Drill Collar:	Length:	60.00 ft	Diameter:	2.25 ii	nches Volume:	0.30 bbl	Weight to Pull Loose:	75000.00 lb
	/D .	5.00 ft			Total Volume:	55.36 bbl	Tool Chased	ft
Drill Pipe Above k		5.00 ft 4008.00 ft					String Weight: Initial	60000.00 lb
Depth to Top Pac Depth to Bottom F		4008.00 ft					Final	60000.00 lb
Interval between		32.00 ft						
Tool Length:	Tackers.	60.00 ft						
Number of Packe	ers:	2	Diameter:	6.75 ii				
					ncnes			
Tool Comments:		L	Diameter.	0.75 1	ncnes			
Tool Comments:				Serial No.		Depth (ft)	Accum. Lengths	
Tool Comments: Tool Descriptic	on					Depth (ft) 4 3981.00	Accum. Lengths	
Tool Comments: Tool Descriptic Change Over Sul	on		ngth (ft)			• • • •	Accum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool	on		ngth (ft) 1.00			3981.00	Accum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool	on		ngth (ft) 1.00 5.00			3981.00 3986.00	Accum. Lengths	
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool	on		ngth (ft) 1.00 5.00 5.00			3981.00 3986.00 3991.00	Accum. Lengths	
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars	on		ngth (ft) 1.00 5.00 5.00 5.00			3981.00 3986.00 3991.00 3996.00	Accum. Lengths	Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00			3981.00 3986.00 3991.00 3996.00 3999.00	-	Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sut Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			3981.00 3986.00 3991.00 3996.00 3999.00 4004.00	-	Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			3981.00 3986.00 3991.00 3996.00 3999.00 4004.00 4008.00	-	Bottom Of Top Packer
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00	Serial No.	Position	3981.00 3986.00 3991.00 3996.00 3999.00 4004.00 4008.00 4009.00	-	Bottom Of Top Packe
Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	on		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00	Serial No. 8653	Position	3981.00 3986.00 3991.00 3996.00 3999.00 4004.00 4008.00 4009.00	-	Bottom Of Top Packer
Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder	on		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 0.00	Serial No. 8653	Position	3981.00 3986.00 3991.00 3996.00 3999.00 4004.00 4008.00 4009.00 4009.00	28.00	Bottom Of Top Packer

() in -		DRI	LL STEM TE	EST REPC	DRT	I	FLUID SUMMAR	
覧	TRILOBITE TESTING , INC	Murfin	Drilling Co., Inc.		34-4s-31	w Rawlins,KS		
			20 N Water STE#300 Wichita, KS 67202			1-34 56835	DST#:2	
V 57		ATTN:	Keith Reavis			2014.05.06 @ 00	-	
lud and Cu	shion Information							
lud Type: G lud Weight: iscosity: /ater Loss: esistivity: alinity: lter Cake:	el Chem 9.00 lb/gal 50.00 sec/qt 6.79 in ³ 0.00 ohm.m 1400.00 ppm 2.00 inches		Cushion Type Cushion Leng Cushion Volu Gas Cushion Gas Cushion	ıth: me: Type:	ft bbl psig	Oil API: Water Salinity:	deg API ppm	
ecovery In	formation		Decement					
	Leng	th	Recovery T		Volume			
	ft	20.00	Mud 100M		bbl 0.0			
	Total Length:		0.00 ft Total Volu	me: 0.098	•			
	Num Fluid Samp Laboratory Nan Recovery Comr	ne:	Num Gas Laborator	Bombs: 0 y Location:	Serial	#:		

Printed: 2014.05.09 @ 14:41:19

Ref. No: 56835

Trilobite Testing, Inc

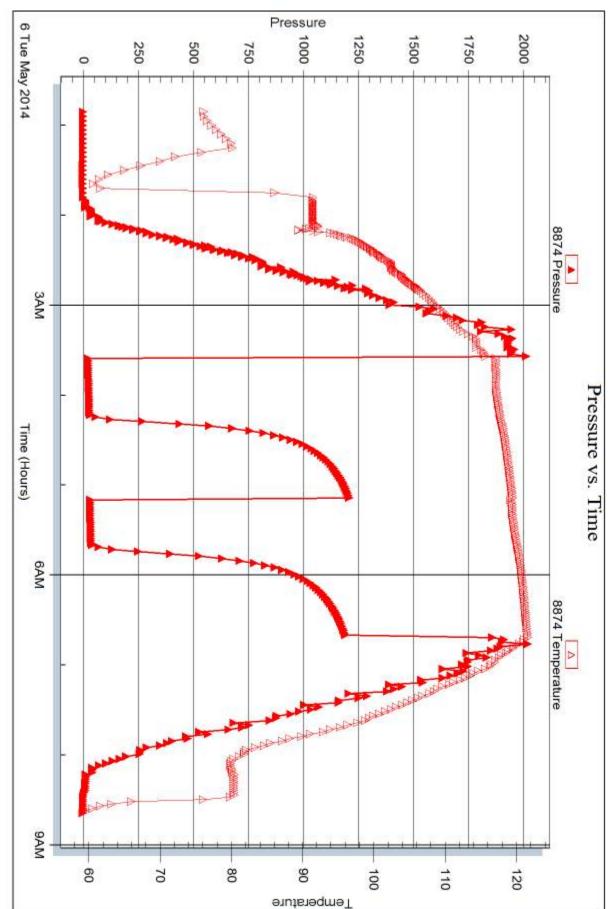


Melba #1-34

Printed: 2014.05.09 @ 14:41:19

Ref. No: 56835

Trilobite Testing, Inc



Melba #1-34

Serial #: 8874

Inside

Murfin Drilling Co., Inc.

DST Test Number: 2



DRILL STEM TEST REPORT

Prepared For:

Murfin Drilling Co., Inc.

20 N Water STE #300 Wichita, KS 67202

ATTN: Keith Reavis

Melba #1-34

34-4s-31w Rawlins,KS

 Start Date:
 2014.05.06 @ 23:02:00

 End Date:
 2014.05.07 @ 08:38:00

 Job Ticket #:
 56836
 DST #: 3

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

	DRI	LL STEM TE	ES	T REPO	ORT				
RILOBIT	C Murfin D	Drilling Co., Inc.			34-	4s-31w	Rawlins	s,KS	
ESTIN	IG , INC 20 N Wa	ater STE#300			Ме	lba #1-3	84		
	Wichita,	KS 67202			Job	Ticket: 56	836	DST	#:3
New .	ATTN:	Keith Reavis			Tes	t Start: 20	014.05.06	@ 23:02:00)
GENERAL INFORMATIO	N:								
Formation:LKC "I-J"Deviated:NoWhTime Tool Opened:02:22:00Time Test Ended:08:38:00	ipstock:	ft (KB)			Tes	ter: I	Conventio Kevin Mac 66		Hole (Initial)
Total Depth: 4148.00 f	3) To 4148.00 ft (I it (KB) (TVD) nchesHole Condition				Ref	erence Ele KB t	evations: o GR/CF:	2935.	00 ft (KB) 00 ft (CF) 00 ft
Start Date: 20 Start Time: TEST COMMENT: 30 - IF	5.82 psig @ 403 14.05.06 En 23:03:00 En	79.00 ft (KB) d Date: d Time:		2014.05.07 08:38:00	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000. 2014.05. 7 @ 02:20: 7 @ 06:28:	00
90 - FS	BoB in 32 min SI- No Return Pressure vs. Time	(च)			PI	RESSUF	RESUM	MARY	
2000 700 1000 1			3 3 3 2 Temperature (deg F)	Time (Min.) 0 2 34 91 92 152 244	Pressure (psig) 2009.26 22.74 91.51 1257.25 95.53 176.82 1226.56	122.97 124.89 127.87	Open To Shut-In(End Shu Open To Shut-In(End Shu	dro-static Flow (1) 1) t-ln(1) Flow (2) 2) t-ln(2)	
	394 (Haus)		0 0	248	1951.34	128.30	Final Hyd	dro-static	
R	ecovery					Ga	s Rates		
÷ .,	scription	Volume (bbl)				Choke (i	nches) Pres	ssure (psig)	Gas Rate (Mcf/d)
5.00 Mud (Heavy) 1	00M	0.02							
181.00 MW 95W 5M		2.04							
126.00 MW 80W 20M		1.77							
20.00 OSMW 20M 80	W (Oil spots)	0.28							
Trilobite Testing, Inc	D	ef. No: 56836				Drintedu	0044.05)9 @ 14:40	

	DRILL STEM TES	ST REP	ORT			
	Murfin Drilling Co., Inc.		34-4s-31	w Rawlins	,KS	
ESTING , INC	20 N Water STE #300		Melba #	1-34		
	Wichita, KS 67202		Job Ticket:	56836	DST#	#: 3
NOV.	ATTN: Keith Reavis		Test Start:	2014.05.06	@ 23:02:00)
GENERAL INFORMATION:						
Formation:LKC "I-J"Deviated:NoWhipstock:Time Tool Opened:02:22:00Time Test Ended:08:38:00	ft (KB)		Test Type: Tester: Unit No:	Convention Kevin Mac 66		Hole (Initial)
Interval:4078.00 ft (KB) To4Total Depth:4148.00 ft (KB) (ToHole Diameter:7.88 inches Ho				Elevations:	2935.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #:8653OutsidePress@RunDepth:psigStart Date:2014.05.06Start Time:23:03:00	End Date:	2014.05.07 08:36:00	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2014.05.0	00 psig 07
TEST COMMENT: 30 - IF- BoB in 2 60 - ISI- No Ret 60 - FF- BoB in 90 - FSI- No Re	urn 32 min turn Time	1	PRESS		MARY	
<u>&</u> 803 Ressure	2003 Temperature	Time	Pressure Tem			
A Decision of the second secon		(Min.)	(psig) (deg	F)		
Recovery				Gas Rates		
Length (ft) Description	Volume (bbl)		Cho	ke (inches) Pres	sure (psig)	Gas Rate (Mcf/d)
5.00 Mud (Heavy) 100M	0.02			!		
181.00 MW 95W 5M	2.04					
126.00 MW 80W 20M	1.77					
20.00 OSMW 20M 80W (Oil sp	0.28					

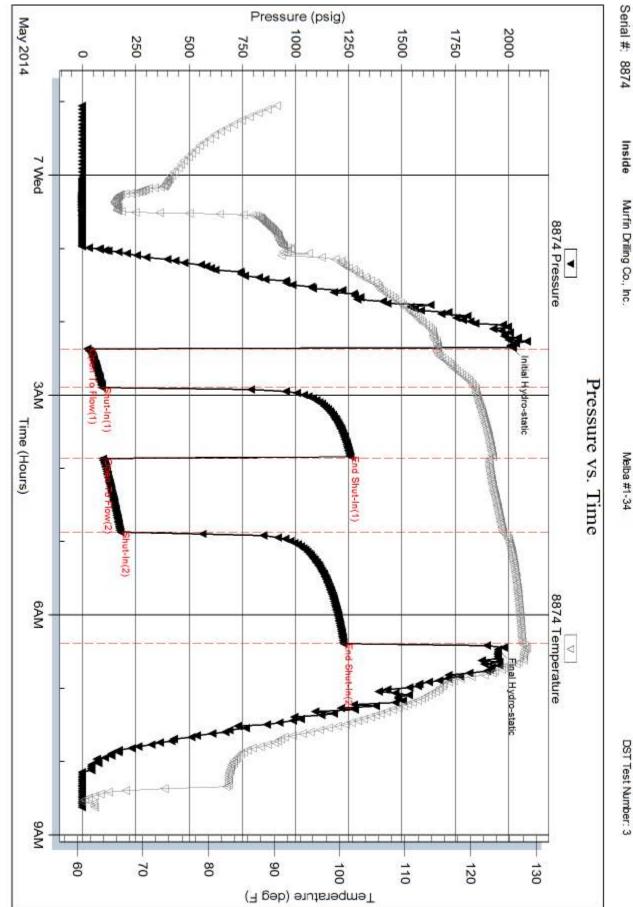
ACE TOWN	DITE	DRII	LL STI	EM TES	ST REPO	RT	TOOL DIAGRA
(I) TRILOB	SIIE		Drilling Co.,	Inc.		34-4s-31w Rawlin	s,KS
EST	ING , INC	20 N Wa	ater STE#3	800		Melba #1-34	
			KS 67202			Job Ticket: 56836	DST#: 3
airean.		ATTN:	Keith Reav	/IS		Test Start: 2014.05.06	5 @ 23:02:00
Tool Information							
Drill Pipe: Length:	4021.00 ft	Diameter:	3.80	inches Volur	ne: 56.40 bb	I Tool Weight:	2500.00 lb
Heavy Wt. Pipe: Length:	0.00 ft	Diameter:	0.00	inches Volur	ne: 0.00 bb	Weight set on Pack	er: 25000.00 lb
Drill Collar: Length:	60.00 ft	Diameter:	2.25	inches Volur	ne: 0.30 bb	Weight to Pull Loose	e: 68000.00 lb
Drill Pipe Above KB:	31.00 ft			Total Volur	ne: 56.70 bb	Tool Chased	ft
Depth to Top Packer:	4078.00 ft					String Weight: Initia	
Depth to Bottom Packer:	4078.00 ft					Final	62000.00 lb
nterval betw een Packers:	70.00 ft						
Fool Length:	98.00 ft						
Number of Packers:	2	Diameter:	6.75	inches			
Tool Comments:	L	Damotor					
Tool Comments: Tool Description		ngth (ft)	Serial No			Accum. Lengths	
Tool Comments: Tool Description Change Over Sub		ngth (ft) 1.00			4051.00	Accum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool		ngth (ft) 1.00 5.00			4051.00 4056.00	Accum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool		ngth (ft) 1.00 5.00 5.00			4051.00 4056.00 4061.00	Accum. Lengths	
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars		ngth (ft) 1.00 5.00 5.00 5.00			4051.00 4056.00 4061.00 4066.00	Accum. Lengths	
Fool Comments: Fool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint		ngth (ft) 1.00 5.00 5.00 5.00 3.00			4051.00 4056.00 4061.00 4066.00 4069.00		Detters Of Tee Deck
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			4051.00 4056.00 4061.00 4066.00 4069.00 4074.00	Accum. Lengths	Bottom Of Top Packe
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			4051.00 4056.00 4061.00 4066.00 4069.00 4074.00 4078.00		Bottom Of Top Packe
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00	Serial No	. Positior	4051.00 4056.00 4061.00 4066.00 4069.00 4074.00 4078.00 4079.00		Bottom Of Top Packe
Fool Comments: Fool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00	Serial No 8653	•. Position	4051.00 4056.00 4061.00 4066.00 4069.00 4074.00 4078.00 4079.00 e 4079.00		Bottom Of Top Packe
Fool Comments: Fool Description Change Over Sub Shut In Tool Hydraulic tool Hars Safety Joint Packer Packer Stubb Recorder Recorder		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 0.00	Serial No	•. Position	4051.00 4056.00 4061.00 4066.00 4069.00 4074.00 4078.00 4079.00 e 4079.00 e 4079.00		Bottom Of Top Packe
Fool Comments: Fool Description Change Over Sub Shut In Tool Hydraulic tool lars Safety Joint Packer Packer Stubb Recorder Recorder Perforations		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 1.00	Serial No 8653	•. Position	4051.00 4056.00 4061.00 4066.00 4069.00 4074.00 4078.00 4079.00 e 4079.00 e 4079.00 4080.00		Bottom Of Top Packe
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Perforations Change Over Sub		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 1.00 1.00	Serial No 8653	•. Position	4051.00 4056.00 4061.00 4069.00 4074.00 4074.00 4079.00 e 4079.00 e 4079.00 4080.00 4081.00		Bottom Of Top Packe
Tool Comments: Tool Description Change Over Sub Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer		ngth (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 1.00	Serial No 8653	•. Position	4051.00 4056.00 4061.00 4066.00 4069.00 4074.00 4078.00 4079.00 e 4079.00 e 4079.00 4080.00		Bottom Of Top Packe

ΔOh		DRI	LL STEM TEST REPOR	Т	FI	
	RILOBITE	Murfin	Drilling Co., Inc.	34-4s-31	w Rawlins,KS	
	ESTING , INC.		/ater STE #300 a, KS 67202	Melba # Job Ticket:		DST#:3
W.		ATTN:	Keith Reavis		2014.05.06 @ 23:0	
Mud and Cur	shion Information					
	el Chem		Cushion Type:		Oil API:	deg API
Aud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm
/iscosity:	60.00 sec/qt		Cushion Volume:	bbl	Water country.	PPIII
Vater Loss:	5.99 in ³		Gas Cushion Type:	551		
esistivity:	0.00 ohm.m		Gas Cushion Pressure:	psig		
alinity:	2000.00 ppm			poig		
ilter Cake:	2.00 inches					
ecovery Inf	formation					
	, 		Recovery Table			
	Lengt ft	h	Description	Volume bbl		
		5.00	Mud (Heavy) 100M	0.0	25	
		181.00	MW 95W 5M	2.0	38	
		126.00	MW 80W 20M	1.7	67	
		20.00	OSMW 20M 80W (Oil spots)	0.2	81	
	Total Length:	332	.00 ft Total Volume: 4.111 bbl			
	Num Fluid Samp	les: 0	Num Gas Bombs: 0	Serial	#:	
	Laboratory Nam	ne:	Laboratory Location:			
	Recovery Com	nents:				

Printed: 2014.05.09 @ 14:40:42

Ref. No: 56836



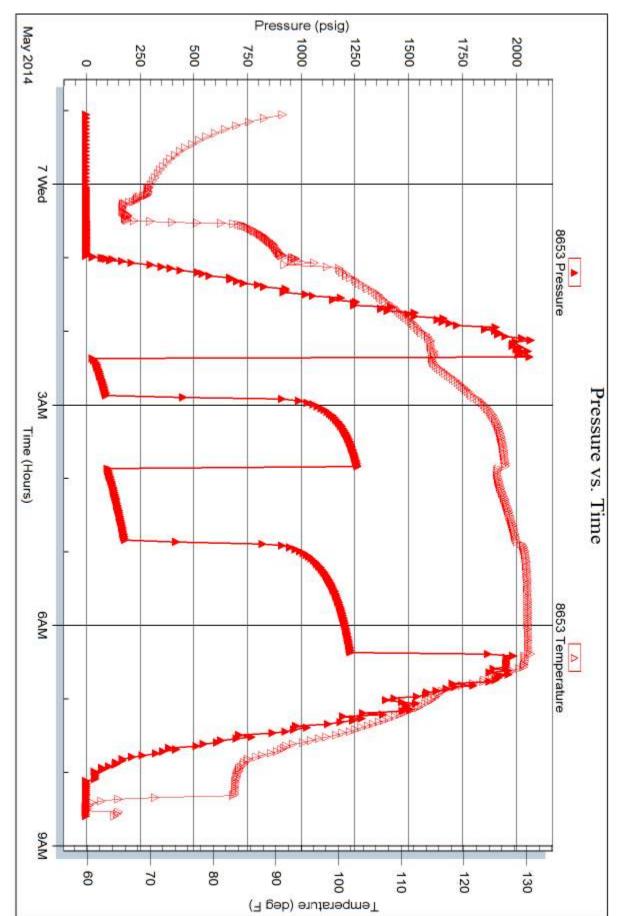


Melba #1-34

Printed: 2014.05.09 @ 14:40:43

Ref. No: 56836

Trilobite Testing, Inc



Melba #1-34

DST Test Number: 3

Serial #: 8653 Outside Murfin Drilling Co., Inc.

4/10 RILOBITE ESTING INC 1515 Commerce Parkwa	ay ∙ Hays, Kansas 67601		6834	······
Well Name & No. <u>Melba #1-34</u> Company <u>MUREIN Drilling Co.</u> Address <u>250 N Watter</u> Co. Rep / Geo. Keith <u>Rewis</u> Location: Sec. <u>34</u> Twp. <u>45</u> Interval Tested <u>3905-3990</u> Anchor Length <u>85'</u> Top Packer Depth <u>3905</u> Bottom Packer Depth <u>3905</u> Total Depth <u>3990</u> Blow Description <u>DF-14' Blow</u>	STE # 300 Wid Rig M Rig M Co. Re Zone Tested Toronto - Drill Pipe Run 3834' Drill Collars Run 60 Wt. Pipe Run 6 Chlorides 1,200	29465 KS 6 lite, KS 6 lunging Lansing Mud Vis WL	B 2935 7202 State K Wt. 8.9 50 6.8	GL
TSL - No Return FF- NO Blow FSL - No Return Rec_/O Feet of OSM Rec_ Feet of Mud Rec_ Feet of Mud Rec_ Feet of Rec_ Feet of Rec_ Feet of Rec_ Feet of	%gas %gas %gas %gas %gas	SPots%oil %oil %oil %oil	%water %water	Konud Konud %mud %mud
Rec Feet of Rec Total 700 BHT // 9 (A) Initial Hydrostatic /951 (B) First Initial Flow 16 (C) First Final Flow 38 (D) Initial Shut-In 1228 (E) Second Initial Flow 44 (F) Second Final Flow 53 (G) Final Shut-In 1269 (H) Final Hydrostatic 1931	Image: Straddle Image: Straddle Image: Straddle Image: Straddle	T-On Location T-Started T-Open T-Out T-Out Comments 0 0 Ruined 1	5:20. 21 Au 3:52 A	1 1 1
Initial Open	Extra Packer Extra Recorder Day Standby Accessibility Sub Total Our Representat	Sub Total Total5 MP/DST D	opies 0 51.80 isc't	

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.

AND RILOBITE ESTING 1515 Commerce Par	<i>INC.</i> rkway • Hays, Kansas 67601	Tes NO.	56835	
	TE#300 With	evation 2940 to, KS 67 g Murfin 2 Rawlins "F-G"	Date <u>5-6-14</u> KB <u>2935</u> 2022 7 State <u>KS</u> Mud Wt. <u>9.2</u> Vis <u>58</u> WL <u>6.8</u> LCM <u>6</u> KB <u>2935</u>	_GL
ISI-NO Retu FF-NO Blo FSI-NO Retu Rec_205 Feet of Mud	Ŵ	%gas %oil	%water 100	%mud
Rec Feet of		%gas %oil		%mud
Rec Feet of		%gas %oil		%mud
Rec Feet of		%gas %oil		%mud
Rec Feet of	1	%gas %oil		%mud
(A) Initial Hydrostatic 1947	K Test 1250	T-On	F Chlorides Location /2:05 A Inted /2:50 A	ppm
(B) First Initial Flow 23			en 3:10 Am	
(C) First Final Flow 29	X Safety Joint 75		led 6:10 Am	
(D) Initial Shut-In 20	Circ Sub		8:40 AM	
(E) Second Initial Flow	Hourly Standby		ments	
(F) Second Final Flow 35	Mileage 56 RT	86.80		
(G) Final Shut-In93	Sampler			
(H) Final Hydrostatic 1967	Straddle	D F	Ruined Shale Packer	
2	Shale Packer		Ruined Packer	
Initial Open	Extra Packer		Extra Copies	
Initial Shut-In	Extra Recorder		Total0	
Final Flow 30	Day Standby		1661.80	
Final Shut-In GB	Accessibility		DST Disc't	
	Sub Total 1661.80	IVIE7		
Approved By	Our Repre	A		

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 softered 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.

RILOBITE	Test Ticket
TESTING INC. 1515 Commerce Parkway	• Hays, Kansas 67601 NO. 56836
Address 250 N Water STE # 2 Co. Rep / Geo. Keith Reavis Location: Sec. 34 Twp. 45 Interval Tested 40078 - 4148 Anchor Length 700' Top Packer Depth 40074 Bottom Packer Depth 4078 Total Depth 4148	Test No. 3 Date 5-6-14 Inc. Elevation 2940 KB 2935 GL 300 Wichitu, KS 672002 Rig Murpin #7 Rge. 31W co. Rewling State KS Zone Tested LIKC I-51 Drill Pipe Run 4021 Mud Wt. 900 Vis Drill Collars Run 600 Vis 600 Wt. Pipe Run 600 WL 600 Chlorides 2,0000 ppm System LCM
FF- BUB in 32 FSI-NO Return	min. %gas SPUTS %oil 86 %water 20 %mu
Rec AD Feet of AD Rec 126 Feet of MU Rec 181 Feet of MW Rec 5 Feet of Mul (heury) Rec Feet of Feet of	%gas %oil %water %water %muter %gas %oil %ster %muter %muter %gas %oil %ster %muter %gas %oil %water %muter %gas %oil %water %muter %gas %oil %water %muter %gas %oil %water %muter
Rec Total 332 BHT 128 (A) Initial Hydrostatic	
(E) Second Initial Flow (F) Second Final Flow (G) Final Shut-In (H) Final Hydrostatic Initial Open Initial Shut-In Final Flow	Hourly Standby Comments/DCaded touls Mileage 173.60 Sampler I:20 Pm, 5-8-14 Straddle Ruined Shale Packer Shale Packer Ruined Packer Extra Packer Extra Copies Extra Recorder Sub Total
Final Flow	Day Standby 1d 4.5h Total 2548.60 Accessibility MP/DST Disc't Sub Total 1748.60 Our Representative

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.

Murfin Drilling Company 250 N. Water Suite 300 Wichita, KS 67202 Shauna Gunzelman 316-267-3241 Melba #1-34 Sec. 34 - T4S - R31W Kansas	API: Field: Country:	15-153-21012-0000 Wildcat USA
	and the second	
Scale 1:240 Imperial Melba #1-34 Sec. 34 - T4S - R31W 15-153-21012-0000 30606 5/1/2014 Rawlins County 5/8/2014 660' FSL & 2310' FWL 2935.00ft 2940.00ft 3640.00ft 4560.00ft	Time: Time: To:	15:30 15:30 4560.00ft
Chemical/Fresh Water Gel SURFACE CO-ORDINAT Vertical 660' FSL	ES Latitude:	
Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530		
620-617-4091 KLG #136	Name:	Keith Reavis
Murfin Drilling Company 7 mud rotary 5/1/2014 5/8/2014	Time: Time: Time:	15:30 15:30
ELEVATIONS		
	nd Elevation:	2935.00ft
	Suite 300 Wichita, KS 67202 Shauna Gunzelman 316-267-3241 Melba #1-34 Sec. 34 - T4S - R31W Kansas	Suite 300 Wichita, KS 67202 Shauna Gunzelman 316-267-3241 Melba #1-34 Sec. 34 - T4S - R31W API: Field: Kansas County: Scale 1:240 Imperial Melba #1-34 Sec. 34 - T4S - R31W 15-153-21012-0000 30606 5/1/2014 Time: Rawlins County 5/8/2014 Time: 600' FSL & 2310' FWL 2935.00ft 2940.00ft 3640.00ft To: 2935.00ft 2940.00ft 3640.00ft To: 2935.00ft 2940.00ft 3640.00ft To: 3640.00ft To: 3640.00ft Latitude: 600' FSL 2310' FWL SURFACE CO-ORDINATES Vertical Latitude: 660' FSL 2310' FWL LOGGED BY Keith Reavis, Inc. 3220 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 Name: CONTRACTOR Murfin Drilling Company 7 Murfin Drilling Company 7

Gamma ray and caliper curves were imported into this report from the electrical log suite. Log tops were generally within a couple of feet from tops picked from the drill time. No curves were shifted to provide an exact match, but rather left as recorded in the field.

The samples were saved and will be available for review at the Kansas Geological Survey Well Samples Library in Wichita, KS.

Respectfully submitted, Keith Reavis

Murfin Drilling Company daily drilling report

DATE	7:00 AM DEPTH	REMARKS
05/03/2014		Geologist Keith Reavis on location @ 1130 hrs, 3608 ft, bit trip, out with PDC
05/04/2014	3618	finish bit trip, in with button bit, resume drilling, Howard, Topeka, Lecompton, Oread, Heebner, Lansing, show in Toronto and Lansing warrant DST
05/05/2014	3990	TOH for DST #1, conducting and complete DST #1, successful test, TOH w/tools and TIH w/bit, resume drilling, D, E, F, G
05/06/2014	4040	show in F and G zones warrant test, TOH w/bit, in w/tools, conduct and complete DST #2 - successful test, TIH w/bit, drill H, I, J, shows warrant test, TOH for DST #3
05/07/2014	4148	complete DST #3, successful test, TIH w/bit, resume drilling, BKC, Marmaton, Pawnee
05/08/2014	4395	drilling ahead, Ft. Scott, Cherokee, Mississippian, TD @ 4560, short trip, TOH for logs, going in hole with tools at 2300 hrs
05/09/2014	4560	conduct and complete logging operations at 0300 hrs, geol. off loc 0330 hrs

Murfin Drilling Company well comparison sheet

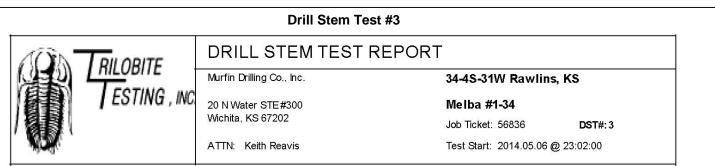
	DRILLING WELL				COMPARISON WELL				
	M	Murfin - Melba #1-34				N. Wood - Erickson #61-4			
		660' FSL & 2310' FWL				NE NW NE			
	Sec 34 - T4S - R31W					Sec 4 -	T5S - R3	1W	
							Structural		
	2940	KB			2946	Relatio	onship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	
Anhydrite	2672	268			2680	266	2		
Topeka	3741	-801	3739	-799	3750	-804	3	5	
Heebner	3906	-966	3908	-968	3916	-970	4	2	
Lansing	3954	-1014	3956	-1016	3966	-1020	6	4	
Stark	4120	-1180	4121	-1181	4134	-1188	8	7	
BKC	4175	-1235	4177	-1237	4182	-1236	1	-1	
Pawnee	4283	-1343	4285	-1345	4297	-1351	8	6	
Cherokee	4368	-1428	4372	-1432	4380	-1434	6	2	
Mississippian	4482	-1542	4491	-1551	nr				
Total Depth	4560	-1620	4563	-1623	4499	-1553	-67	-70	

	Drill Sten	n Test #1				
RILOBITE	DRILL STEM TES	ST REPC	RT			
	Murfin Drilling Co., Inc.		34-4	S-31W R	awlins,	KS
ESTING , INC	20 N Water STE#300 Wichita, KS 67202			ba #1-34 īcket: 5683	34	DST#:1
NOV.	ATTN: Keith Reavis		Test	Start: 2014	4.05.05 @	06:21:00
GENERAL INFORMATION:						
Formation:Toronto-LansingDeviated:NoWhipstock:Time Tool Opened:08:52:00Time Test Ended:14:14:00	ft (KB)		Test Teste Unit N	er: Ke	vin Mack	Bottom Hole (Initial)
Interval:3905.00 ft (KB) To39Total Depth:3990.00 ft (KB) (THole Diameter:7.88 inchesHol			Refer	rence Eeva KB to (ations: GR/CF:	2940.00 ft (KB) 2935.00 ft (CF) 5.00 ft
Serial #: 8874 Inside Press@RunDepth: 53.57 psig Start Date: 2014.05.05 Start Time: 06:22:00 TEST COMMENT: 30 - IF- 1/4" Blox 60 - ISI- No Retu 30 - FF- No Blow 60 - FSI- No Ret	End Date: End Time: v built to 1" rn	2014.05.05 14:14:00	Capacity: Last Calib. Time On B Time Off E	tm: 20	2 14.05.05 @ 14.05.05 @	53.L
Pressure vs.			סס	ESSURE	SUMMA	
T 2574 Pressure		63				
Skenky 201			Pressure	Temp (deg F) 114.83 114.47 115.35 117.22 117.00 118.31 119.34	Annotation nitial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo	n -static ww (1) (1) ww (2) (2)
		(Min.) 0 2 31 91 92 121 181	Pressure (psig) 1951.31 16.76 38.41 1228.68 44.75 53.57 1209.92 1209.92	Temp (deg F) 114.83 Ir 114.47 (C 115.35 S 117.22 E 117.00 (C 118.31 S 119.34 E 119.44 F	Annotation nitial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo Shut-In(2) End Shut-In(2)	n -static ww (1) (1) ww (2) (2)

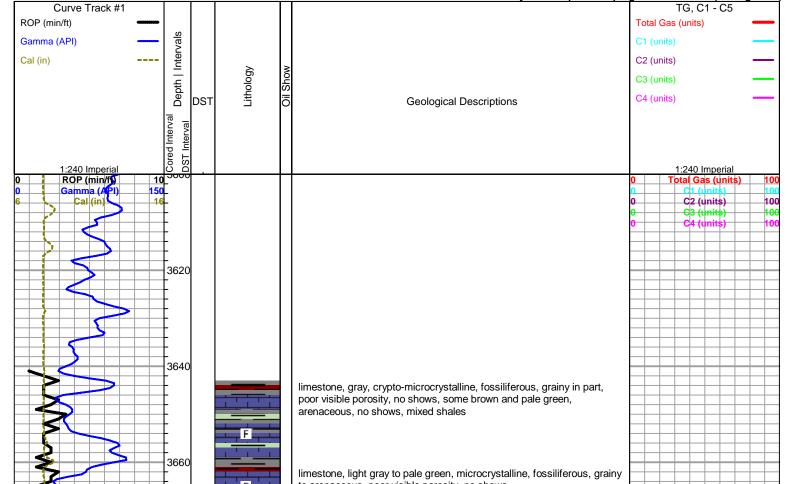
Description	(ida) emuiov
OSM 100M (oil spots)	0.05
Mud 100M	0.39
-1	
	OSM100M (oil spots)

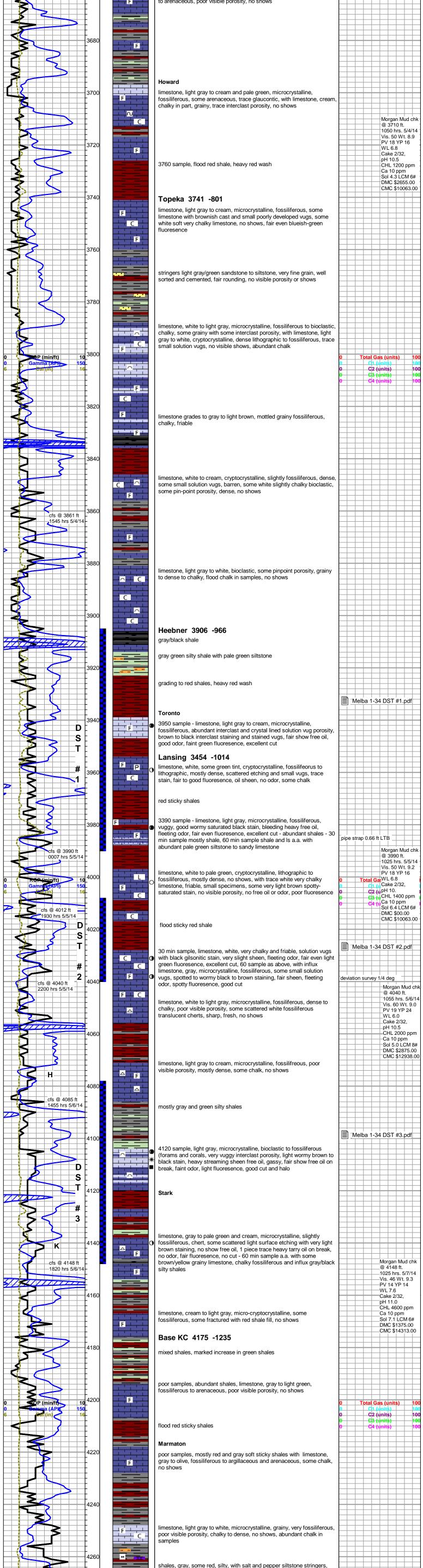
Choke (Inches)	Pressure (psig)	Gas Rate (Mict/d)	
			-

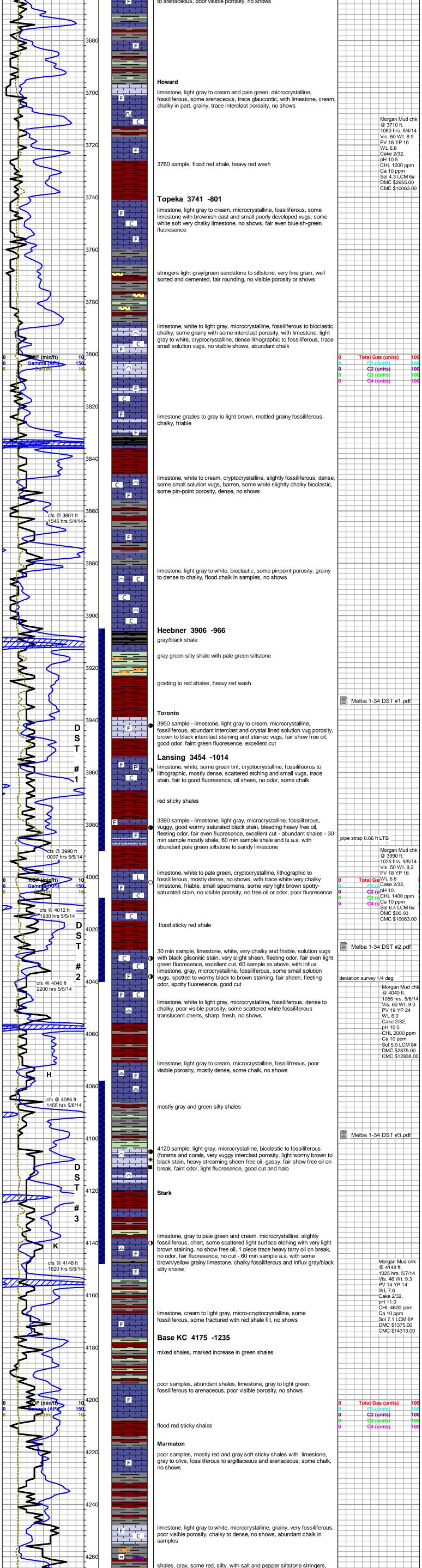
9129-019-			Stem Test #					
(QA) TRI	LOBITE	DRILL STEM	EST RE	PORT				
		Murfin Drilling Co., Inc.		3	4 - 4S-31W	Rawlins	, KS	
ESTING , INC.		20 N Water STE#300 Wichita, KS 67202			/lelba #1∹ ob Ticket: 56		DST#:2	
151		ATTN: Keith Reavis		Γ	est Start: 20	014.05.06 @	00:50:00	
GENERAL INFOR	MATION:							
Formation: LK Deviated: No Time Tool Opened: 03: Time Test Ended: 08:	:34:30	ft (KB)		Т	ester:	Con∨entiona Ke∨in Mack 66	al Bottom Hole (Ini	itial)
Total Depth: 4	040.00 ft (KB) (T			F	eference Be		2940.00 ft (K 2935.00 ft (C	
-lole Diameter:	7.88 Incheshole	Condition: Good			KB	to GR/CF:	5.00 ft	
Serial #: 8653 Press@RunDepth: Start Date: Start Time:	Outside 35.24 psig 2014.05.06 00:51:00	@ 4009.00 ft (KB) End Date: End Time:	2014.05. 08:37:0	0 Time (alib.: Dn Btm:	2014.05.06	8000.00 psig 2014.05.06 @ 03:32:30 @ 06:42:30	9
TEST COMMENT:	30 - IF- 1/2" Blow	/ built to 1"						
TEST COMMENT:	60 - ISI- No Retur 30 - FF- No Blow 60 - FSI- No Retu Pressure vs. T	n Irn Ime			PRESSUF	RE SUMM	IARY	
TEST COMMENT:	60 - ISI- No Retur 30 - FF- No Blow 60 - FSI- No Retu Pressure vs. T	Th IITN	- 100 (- 10 (- 10) (- 10 (- 10 (- 10) (Pressui (psig) 0 1947.00 2 23.04 00 29.78 95 1210.94 96 31.8° 96 35.24 96 1193.46	(deg F) 116.17 117.13 117.93 119.12 118.50 120.14 121.31	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut-	ion ro-static Flow (1)) In(1) Flow (2)) In(2)	
2000 7750 7500 7500 7500 7500 7500 7500	60 - ISI- No Retu 30 - FF- No Blow 60 - FSI- No Retu Pressure vs. T	n Irn Smc BD Empedance I I I I I I I I I I I I I I I I I I I	- 100 (Min.) - 110 (- 100 (- 500 (- 500 (- 500 (- 500 (- 70) (-	Pressui (psig) 0 1947.00 2 23.04 00 29.78 95 1210.94 96 31.8° 26 35.24 96 1193.46	e Temp (deg F) 116.17 117.13 117.93 119.12 118.50 120.14 121.31 120.96	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut-	ion ro-static Flow (1)) In(1) Flow (2)) In(2)	
2000 7750 7500 7500 7500 7500 7500 7500	60 - ISI- No Retur 30 - FF- No Blow 60 - FSI- No Retur Pressure vs. T	n Irn Smc BD Empedance I I I I I I I I I I I I I I I I I I I	- 100 (Min.) - 110 (- 100 (- 500 (- 500 (- 500 (- 500 (- 70) (-	Pressui (psig) 0 1947.00 2 23.04 00 29.78 95 1210.94 96 31.8° 26 35.24 96 1193.46	e Temp (deg F) 116.17 117.13 117.93 119.12 118.50 120.14 121.31 120.96	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1)) In(1) Flow (2)) In(2)	∍ (Mcf/d)
200 779 729 729 729 729 729 729 729 729 729	60 - ISI- No Retur 30 - FF- No Blow 60 - FSI- No Retur Pressure vs. T	n irn Smc BD Engendue Control Control	- 100 (Min.) - 110 (- 100 (- 500 (- 500 (- 500 (- 500 (- 70) (-	Pressui (psig) 0 1947.00 2 23.04 00 29.78 95 1210.94 96 31.8° 26 35.24 96 1193.46	e Temp (deg F)) 116.17 117.13 117.93 119.12 118.50 120.14 121.31 120.96	Annotati Initial Hydr Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	ion ro-static Flow (1)) In(1) Flow (2)) In(2) ro-static	e (Mcf/d)



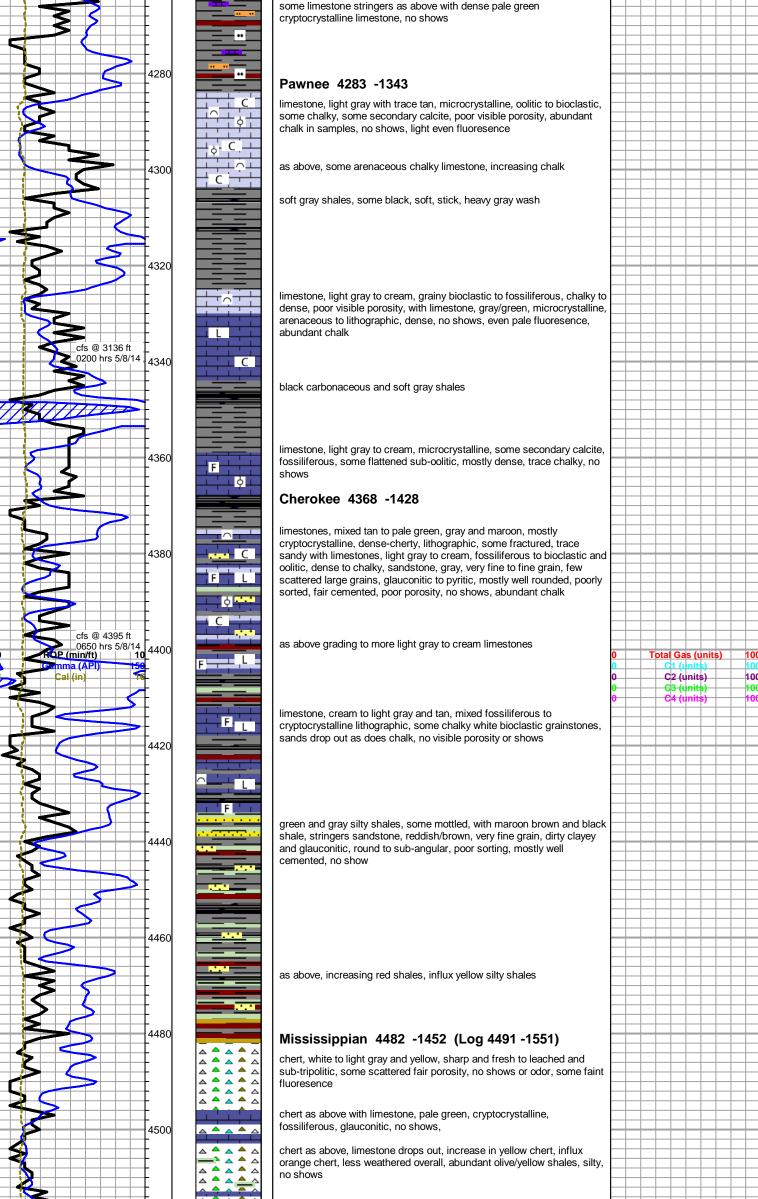
uhad).			1001	01011. 20	1	20.02.0	-	
GENERAL INFORMATION:								
Formation: LKC "I-J" Deviated: No Whipstock: Time Tool Opened: 02:22:00 Time Test Ended: 08:38:00	ft (KB)		Test Test Unit	er: H	Con∨entional Ke∨in Mack 56	Bottom	Hole (Initial)	
Interval: 4078.00 ft (KB) To 41	48.00 ft (KB) (TVD)			erence Be		2940.	00 ft (KB)	
Total Depth: 4148.00 ft (KB) (TV					o GR/CF:	2935.	00 ft (CF) 00 ft	
Serial #: 8874 Inside Press@RunDepth: 176.82 psig 176.82 psig Start Date: 2014.05.06 2014.05.06 Start Time: 23:03:00 23:03:00 TEST COMMENT: 30 - IF- BoB in 28 28	End Date: End Time: min.	2014.05.07 08:38:00	Capacity: Last Calib Time On I Time Off	o.: 3tm: 2	2 2014.05.07 @ 2014.05.07 @	2014.05. @ 02:20:	00	
60 - ISF No Retur 60 - FF- BoB in 3 90 - FSF No Retu	2 min							
Pressure vs. T 3574 Fressure			PF	RESSUR	RE SUMMA	ARY		-
300 1730 1740 1	50 T	Time (Min.) 0 2 34 91 92 152 244 248	Pressure (psig) 2009.26 22.74 91.51 1257.25 95.53 176.82 1226.56 1951.34	114.68 120.60 123.37 122.97	End Shut-In Open To Flo Shut-In(2) End Shut-In	⊢static ow (1) (1) ow (2) (2)		
20 7 Wed 304 Tesphare) Recovery				Ga	s Rates			
Length (ft) Description	Volume (bbl)			Choke (ii		e (psig)	Gas Rate (Mcf/d)	1
5.00 Mud (Heavy) 100M 181.00 MW 95W 5M 126.00 MW 80W 20M 20.00 OSMW 20M 80W (Oil spot	0.02 2.04 1.77 ts) 0.28							
	ROCK	TYPES						
sdy Imst sh		ale, red		Ss				
	ACCESS	SORIES						
FORSIL Glauconite O Bioclastic or Fra Pyrite F Fossils < 20%	Igmental STRINGER Limestone Sandstone Siltstone green shale	(EXTURE Chalky Lithogr					
	OTHER S	YMBOLS						
SC Oil Show Daily Report Good Show Digital Photo Poor Show Document Questionable S Folder Fluorescence Link Vertical Log File								
Vertical Log File Horizontal Log File Core Log File								







	CHL 4600 ppm Ca 10 ppm Sol 7.1 LCM 6# DMC \$1375.00 CMC \$14313.00						
0 0 0 0 0 0		Gas (Unit 1 (Units) 2 (Units) 3 (Units) 4 (Units)	s) 100 100 100 100 100				



4520	chert as above, with limestone, white, cryptocrystalline, dense compact lithographic	Morgan Mud chk @ 4522 ft. 1415 hrs. 5/8/14
4540	cherts as above with influx boney white chert, limestone, white, cryptocrystalline, dense fossiliferous with limestone, reddish brown, very chalky and weathered, fossiliferous, abundant reddish/brown chalk, no shows	Vis. 55 Wt. 9.2 PV 17 YP 22 WL 7.6 Cake 2/32, pH 11.0 CHL 1700 ppm Ca 10 ppm Sol 6.4 LCM 6# DMC \$2582.00 CMC \$16895.00
4560	Rotary TD 4560 ft. @ 1530 hrs 5/8/14 Pioneer Log TD 4563 ft. Complete Logging Operations @ 0300 hrs 5/9/14	



May 26, 2014

PO Box 93999 Southlake, TX 76092

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

Bill To:	
Murfin Drlg. Co., Inc.	

250 N. Water STE #300 Wichita, KS 67202 INVOICE

Invoice Number: 143076 Invoice Date: May 1, 2014 Page: 1

Customer ID	Field Ticket #	Payment	Terms		
Murfin	63400	Net 30 Days			
Job Location	Camp Location	Service Date	Due Date		
KS1-01	Oakley	May 1, 2014	5/31/14		
Quantity	Description	U	nit Price Amount		

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Melba #1-34		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
216.27	CEMENT SERVICE	Cubic Feet Charge	2.48	536.35
493.50	CEMENT SERVICE	Ton Mileage Charge	2.60	1,283.10
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Alan Ryan		ĺ
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
		Subtotal		8,058.30
	ES ARE NET, PAYABLE	Sales Tax	-	325.61
	E. 1 1/2% CHARGED	Total Invoice Amount		8,383.91
	FTER. IF ACCOUNT IS	Payment/Credit Applied		
CURREN	IT, TAKE DISCOUNT OF	TOTAL	NY CARACTER	8,383.91
\$	2,820.40		<u>n /</u>	0,000.91
ONL Y IF	PAID ON OR BEFORE		WKQA	

71



ALLIED OIL & GAS SERVICES, LLC 063400

Cuotal Taxa	D. # 20-8651475
REMIT TO P.O. BOX 93999	SERVICE POINT.
SOUTHLAKE, TEXAS 76092	Clarkle Ki
	Gaintes /
SEC. TWP. RANGE	CALLED OUT ON LOCATION JOB START JOB FINISH
DATE SILLY 34 4	CALLED OUT ON LOCATION JOB START JOB FINISH
	COUNTRY STATE
	NTOYIWIN HOWIND KS
OLD OR NEW (Circle one) 3 M/ N 3	ie to the GT of
11. 15 50 413	
CONTRACTOR MUTCH 7 1242 1001	OWNER James
TYPE OF JOB Gurfan	OWNER PLANE
HOLE SIZE T.D. 221	CEMENT
	AMOUNT ORDERED Con 320CC2703
	AMOUNT ORDERED AN TICCTIZ
TUBING SIZE DEPTH	AOCUSIKS
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON_200_@1)90 30000
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. 15'	GEL 9 @23 2 93 00
PERFS.	CHLORIDE) @64C+44800
DISPLACEMENT 13.31 BAL HO	ASC
EQUIPMENT	
EQUIPMENT	Motrial Total @ UTALCA
	<u></u>
PUMPTRUCK, CEMENTER Hay KUGO	1/11/2
#023-28/ HELPER KEREN CULAS	
BULKTRUCK	@
#818 DRIVER Gren (Tu2S)	@@
BULKTRUCK	@
# DRIVER	27@?
	HANDLING alb cf @ 2 536 2
	MILEAGE Terfuele 9-87 70m 12832
A REMARKS:	
An Cay Coulete, my Cenent Displace	•
purlay Counter May Chent Kisplace	
	SERVICE
Const. Shirtin	SERVICE
	DEPTH OF JOB
Conest Shortin	SERVICE
	DEPTH OF JOB
Conest Shortin	DEPTH OF JOB
Coment Rid Grusti That the	DEPTH OF JOB 22 4/ PUMP TRUCK CHARGE 15/2 25 4 EXTRA FOOTAGE@ MILEAGE@22 385 22
Conest Shortin	DEPTH OF JOB
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Conent Did Grundo Toment Did Grundo They kein any	DEPTH OF JOB
Coment Rid Grusti That the	DEPTH OF JOB
Conent Did Cirunti Cornent Did Cirunti That the Hay Kein Gray CHARGE TO: Muschin	DEPTH OF JOB
Conent Did Ciruli Cornent Did Ciruli Tank En Hay Kein any CHARGE TO: Mussin STREET	DEPTH OF JOB
Conent Did Cirurli Coment Did Cirurli That the Hay Kein Gray CHARGE TO: Musches	SERVICE DEPTH OF JOB $32.4'$ PUMP TRUCK CHARGE $15/2^{25}$ 4 EXTRA FOOTAGE $@$ MILEAGE 50^{2} $@$ 22^{2} 32^{5} 22^{2} MANIFOLD $@$ $CIRVELICE 30^{2} @ 42^{2} 220^{25}@(1,377.5^{24}/35^{2})TOTAL 3.936.20$
Conent Did Ciruli Cornent Did Ciruli Tank En Hay Kein any CHARGE TO: Mussin STREET	DEPTH OF JOB
Conent Did Ciruli Cornent Did Ciruli Tank En Hay Kein any CHARGE TO: Mussin STREET	SERVICE DEPTH OF JOB $32.4'$ PUMP TRUCK CHARGE $15/2^{25}$ 4 EXTRA FOOTAGE $@$ MILEAGE 50^{2} $@$ 22^{2} 32^{5} 22^{2} MANIFOLD $@$ $CIRVELICE 30^{2} @(1,377.5''/353)$ TOTAL $3,936.20$
Conent Did Ciruli Cornent Did Ciruli Tank En Hay Kein any CHARGE TO: Mussin STREET	SERVICE DEPTH OF JOB $224'$ PUMP TRUCK CHARGE $15/225'$ 4 EXTRA FOOTAGE $@$ MILEAGE $50'' @ 22'' 385''''''''''''''''''''''''''''''''''$
Conent Did Ciruli Coment Did Ciruli That the Hay Kein any CHARGE TO: Muschin STREET	SERVICE DEPTH OF JOB $234'$ PUMP TRUCK CHARGE $15/2^{25}$ 4 EXTRA FOOTAGE $@$ MILEAGE 50 $@$ 22 385^{26} MANIFOLD $@$ 422 220^{23} (1,377.54/358) TOTAL $3.934.20$ PLUG & FLOAT EQUIPMENT $@$
Conent Did Cirwild Coment Did Cirwild That to The Kingary CHARGE TO: Munder STREET CITYSTATEZIP	SERVICE DEPTH OF JOB $284'$ PUMP TRUCK CHARGE $15/2$ $4 EXTRA FOOTAGE @ 22 385^{66}MILEAGE 50 @ 22 385^{66}MANIFOLD @ 426 220^{66}CD Velo & SO @ 426 220^{66}(1,377.5^{64}/35^{73})TOTAL 3,936.20PLUG & FLOAT EQUIPMENT@@@@@@$
Conent Did Ciruli Coment Did Ciruli That the Hay Kein any CHARGE TO: Muschin STREET	SERVICE DEPTH OF JOB $284'$ PUMP TRUCK CHARGE $15/2$ $4 EXTRA FOOTAGE @ 22 385^{22}MILEAGE 50 @ 22 385^{22}MANIFOLD @ 422 220^{23}CD Velo & 50 @ 422 220^{23}(1,377.54/358)TOTAL 3,934.20PLUG & FLOAT EQUIPMENT@@@@@@@@@@$
Conent Did Cirwild Coment Did Cirwild That to The Kingary CHARGE TO: Munder STREET CITYSTATEZIP To: Allied Oil & Gas Services, LLC.	SERVICE DEPTH OF JOB $234'$ PUMP TRUCK CHARGE $15/2$ EXTRA FOOTAGE @ $22/305MILEAGE 50 @ 22/305MANIFOLD @ 422 220(72/24)/24 = 50$ @ 422 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 220 $220(72/24)/24 = 50$ @ 422 220 200
Convert Shurtin Convert Did Cirwild That by The Kingary CHARGE TO: Muscles STREET CITYSTATEZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	SERVICE DEPTH OF JOB $284'$ PUMP TRUCK CHARGE $15/2$ $4 EXTRA FOOTAGE @ 22 385^{22}MILEAGE 50 @ 22 385^{22}MANIFOLD @ 422 220^{23}CD Velo & 50 @ 422 220^{23}(1,377.54/358)TOTAL 3,934.20PLUG & FLOAT EQUIPMENT@@@@@@@@@@$
Const. Shutin Const. Shutin Const. Did Const. Did	SERVICE DEPTH OF JOB $234'$ PUMP TRUCK CHARGE $15/2$ EXTRA FOOTAGE @ $22/305MILEAGE 50 @ 22/305MANIFOLD @ 422 220(72/24)/24 = 50$ @ 422 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 220 $220(72/24)/24 = 50$ @ 422 220 200
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Charge To: Muscles Charge To: Muscles The King Gray CHARGE TO: Muscles STREET CITY 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	SERVICE DEPTH OF JOB $234'$ PUMP TRUCK CHARGE $15/2$ EXTRA FOOTAGE @ $22/305MILEAGE 50 @ 22/305MANIFOLD @ 422 220(72/24)/24 = 50$ @ 422 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 $220(72/24)/24 = 50$ @ 422 220 220 $220(72/24)/24 = 50$ @ 422 220 200
Context Shutin Canent Did Canent Did Charder Cirult The King Gray CHARGE TO: Marches STREET STREET CITY STATE STREET ZIP 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"	SERVICE DEPTH OF JOB 22.4/ PUMP TRUCK CHARGE 15/22 EXTRA FOOTAGE @ MILEAGE 50 @ MANIFOLD @ 22.08 (1,377.54/353) TOTAL 3.936-20 PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @
Charge To: Muscles Charge To: Muscles The King Gray CHARGE TO: Muscles STREET CITY 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	SERVICE DEPTH OF JOB PUMP TRUCK CHARGE 15/2.25 # EXTRA FOOTAGE @ MALEAGE 50 @ MANIFOLD @ 220 CDL/AM_L SO @ 220 MANIFOLD @ 220 20 (1,377.54/3573) TOTAL 3,936-20 PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ <
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Context Shutin Canent Did Canent Did Charder Cirult The King Gray CHARGE TO: Marches STREET STREET CITY STATE STREET ZIP 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"	SERVICE DEPTH OF JOB
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Const. S. A. Stra Canent Did Grunde Canent Did Grunde Charge TO: Mussics STREET CITYSTATEZIP 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 TOTAL DATA SALESSING SALESSING SALESSING.	SERVICE DEPTH OF JOB PUMP TRUCK CHARGE 15/2.25 # EXTRA FOOTAGE @ MALEAGE 50 @ MANIFOLD @ 220 CDL/AM_L SO @ 220 MANIFOLD @ 220 20 (1,377.54/3573) TOTAL 3,936-20 PLUG & FLOAT EQUIPMENT @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ <
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PO Box 93999 Southlake, TX 76092

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

Bill To

Jun 3, 2014

Murfin Drlg. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202 Invoice Number: 143134 Invoice Date: May 9, 2014

Page: 1

Cu	stomer ID		Field Ticket #	Payme	nt Terms				
<u>, 63763 488</u> 767 68724	Murfin		63602	Net 30 Days					
Joi	o Location		Camp Location	Service Date	Due	Date			
	KS2-03		Great Bend	May 9, 2014	6/8	/14			
Quantity	Item		Description		Unit Price	Amount			
	WELLNAME	<u>9538865.</u>	Melba#1-34		<u>17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17. – 17</u> .				
	CEMENT MATERIAL	S	Class A Common	-					
1	CEMENT MATERIAL		Pozmix		9.35	822.80			
1	CEMENT MATERIAL		Gel		23.40	187.20			
55.00	CEMENT MATERIAL	S	Flo Seal		2.97	163.35			
	CEMENT SERVICE		Cubic Feet Charge		2.48	587.74			
	CEMENT SERVICE		Ton Mileage Charge		2.60	1,284.40			
	CEMENT SERVICE		Rotary Plug		2,483.59	2,483.59			
	CEMENT SERVICE		Pump Truck Mileage		7.70	385.00			
	CEMENT SERVICE		Light Vehicle Mileage		4.40	220.00			
1.00	CEMENT SUPERVI	SOR	Dustin Chambers						
	OPERATOR ASSIS		Joshua Ellis						
1	OPERATOR ASSIS		Kevin Weighous						
			Subtotal			8,496.88			
	ES ARE NET, PAYAL FOLLOWING DATE		Sales Tax			671.25			
INVOIC	E. 1 1/2% CHARGEI	2	Total Invoice Amount		9,168.13				
THEREA	FTER. IF ACCOUNT	IS	Payment/Credit Applied						
CURREN	IT, TAKE DISCOUNT	0F	TOTAL			9,168.13			
\$	2,973.90								
ONL Y IF	PAID ON OR BEFO	RE			ok o				

On Å٨

Prod-Mg

ALLIED OIL & GAS SERVICES, LLC 063602

Federal Tax I.D. # 20-8651475

EMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE $4 - 9 - 19 - 39 - 316 -$	CALLED OUT ON LOCATION JOB START JOB FINISH G. 30 AM 11.30 AM 12530 AM
EASE 12/60 WELL# 1-34 LOCATION REXFO	COUNTY STATE
DLD OR NEW (Circle one) 5/V E TO R	by
CONTRACTOR Murfin Prilling	OWNER
YPE OF JOB Rorary Plug	
IOLE SIZE T.D.	CEMENT
ASING SIZE DEPTH	AMOUNT ORDERED 220 5KS COSTE LASSA
UBING SIZE DEPTH	MOY DOZ MY ger I len Ph
DRILL PIPE 41/2 DEPTH 2685	· · · · · · · · · · · · · · · · · · ·
OOL DEPTH	
RES. MAX MINIMUM	COMMON 132 @17.90 2.362.
AEAS. LINE SHOE JOINT	POZMIX 88 @ 9.35 822.80
EMENT LEFT IN CSG.	GEL 8 @23.40 187.20
ERFS.	CHLORIDE@
DISPLACEMENT Freshumer/mal	ASC@
EQUIPMENT	+105201 550 2.97 163.35
	Material Total @ 3.536
PUMPTRUCK CEMENTER Dusn's Chambers	Div (35%) 1.237. 4
139% HELPER Josh Clls	@
BULK TRUCK	@
+ 610-170 DRIVER Kevin Weighous	
BULK TRUCK	Service
# DRIVER	HANDLING 236.99 @2.48 587.73
DESKA DICI.	MILEAGE 9.88 X JO X 2.60 1.284.40
REMARKS:	
Fill hole which Rtg Mand	
1,2645-25545	SERVICE
2,1930-100515	
3 275- 405/4	DEPTH OF JOB
4, 4010 SKS	PUMPTRUCK CHARGE 2. 183. 52
5. RH- 305FS	EXTRA FOOTAGE @
plug Dun /2:00 pm	MILEAGE HUM 50 @7.70 385.20
R.19 Down	
	MANIFOLD LUM 50 @ 4.40 220.00
	@
	@
CHARGE TO: Mur Fra Drilling	· · · · · · · · · · · · · · · · · · ·
STREET	TOTAL <u>4.960, 7</u> 35% 1.736,25
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	@
	@
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	TOTAL

TOTAL _____

SALES TAX (If Any)
TOTAL CHARGES 8. 496.
2.973.20 (35/35/0)
J. 522. <u>77</u>

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.

neo Williams PRINTED NAMÉ Ĭ SIGNATURE \sim

Melba #1-34 Daily Drilling Report Page Two

- 5/7/14 Depth 4147'. Cut 107'. DT: None. CT: 18¼ hrs. Dev.: None. *LKC J*: It gry, micro xtln, bioclastic foss forams & corals, v vuggy interclast por, It wormy brn blk sn, hvy streaming sheen FO, gassy, FSFO on brk, fnt odr, It flouresence, gd cut & halo. *LKC K*: Ls, gry-pale grn & crm, micro xtln, sl foss, chrt, sm sctt It surf etching w/v It brn stn, NS, 1pc trc hvy tarry oil on brk, no odor, fr fluor, no cut-60 min smpl a.a. w/some brn/yellow grainy ls, chlky foss & influx gry/blk silty shales. DST #3 4078-4147 (LKC J-K): 30-60-60-90. IF: BOB 28mins. FF: BOB 32mins. Rec.: 20'OSMW (20%M, 80%W (oil spts)), 126'MW(80%W, 20%M), 181'MW (95%W, 5%M), 5'M (Hvy). HP: 2009-1951. FP: 23/92, 96/177. SIP: 1257-1227. BHT: 128°.
- 5/8/14 Depth 4395'. Cut 248'. DT: None. CT: 5¼ hrs. Dev.: None.
- 5/9/14 RTD: 4560'. Cut 165'. DT: None. CT: 15³/₄ hrs. Dev.: ³/₄° @ 4560'. HC @ 12:15PM 5/8. Pioneer logged 10:30PM 5/8 3:00AM 5/9. LTD: 4563'. To Plug
- 5/10/14 RTD: 4560'. CT: 9hrs. Allied plugged hole 9:00AM 12:00PM 5/9, as follows using 60/40Poz, 4%Gel, ¼#Floseal, 25sxs @ 2685', 100sxs @ 1930', 40sxs @ 275', 10sxs @ 40', 30sxs RH, 15sxs MH. Order: Ed Schumacher KCC Hays. RR @ 4:00PM 5/9/14. FINAL REPORT

e			Malba t	11 24			Neil Woo	Nd 08.G
	Melba #1-34 660' FSL 2310' FWL						Erickson 61-4 Sec. 4-5S-31W	
	Sec. 34-4S-31W 2940' KB					2946' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2672	+268	+2	2668	+272	+6	2680	+266
B/Anhydrite	2704	+236	+3	2702	+238	+5	2713	+233
Topeka	3741	-801	+3	3739	-799	+5	3750	-804
Heebner	3906	-966	+4	3908	-968	+2	3916	-970
Lansing	3954	-1014	+6	3956	-1016	+4	3966	-1020
Stark	4120	-1180	+8	4121	-1181	+7	4134	-1188
BKC	4175	-1235	+1	4169	-1229	+7	4182	-1236
Pawnee	4283	-1343	+8	4285	-1345	+6	4297	-1351
Ft Scott	4359	-1419	+5	4357	-1417	+7	4370	1424
Cherokee	4368	-1428	+6	4372	-1432	+2	4380	1434
Mississippi	4482	-1452		4491	-1461		DNR	
RTD	4560						4500	
LTD				4563			4499	