



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1206680
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: _____

1206680

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	Schmidt-Vap 1-26
Doc ID	1206680

All Electric Logs Run

Dual Induction
Dual Compensated
Microresistivity
Borehole Compensated

Robert D. Hendrix

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY **Murfin Drilling Co. Inc.**

LEASE **Schmidt-Vap #1-26**

FIELD **Widacat**

LOCATION **1545' 1st & 880' fwl**

SEC **26** TWP **4S** RGE **31W**

COUNTY **Rawlins** STATE **Kansas**

CONTRACTOR **Murfin Drilling Co. Rig #2**

SPUD **2/12/2014** COMP **2/20/2014**

RTD **4:54:31** LTD **4:54:27**

WUD UP **3381'** TYPE MUD **Chemical**

SAMPLES SAVED FROM **3620** TO **TD**

DRILLING TIME KEPT FROM **3604** TO **TD**

SAMPLES EXAMINED FROM **3620** TO **TD**

GEOLOGICAL SUPERVISION FROM **3603**

GEOLOGIST ON WELL **Robert D Hendrix**

FORMATION TOPS

ANHYDRITE **2657 (+254)**

TOPEKA **3722 (+811)**

HEEBNER **3884 (+978)**

LANSING **3937 (+1026)**

STARK **4103 (+1198)**

PAWNEE **4267 (+1356)**

CHEROKEE **4351 (+1448)**

MISSISSIPPI **4474 (+1563)**

ELEVATIONS

KB **2911**

DF

GL **2900**

Measurements Are All From **Kelly Bushing**

CASING

CONDUCTOR

SURFACE **8.5/8" at 265'**

PRODUCTION **5 1/2" @ 4337'**

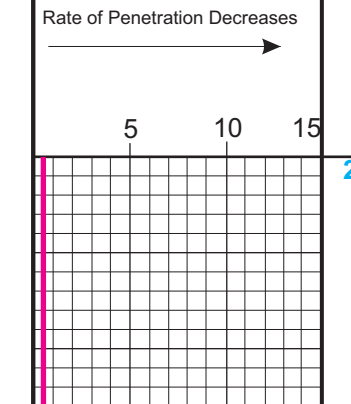
ELECTRICAL SURVEYS

Dual Induction / Neutron Density

Micromer / Sonac

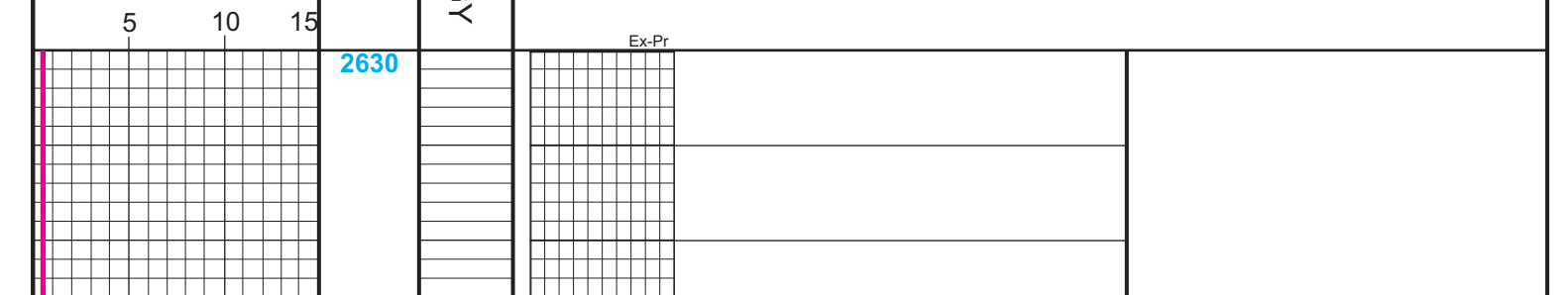
Promer Wireline Systems

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2657 (+254)	2660 (+251)
Topeka	3722 (+811)	3722 (+811)
Heebner Shale	3884 (+978)	3889 (+978)
Lansing	3937 (+1026)	3937 (+1026)
Stark Shale	4103 (+1198)	4103 (+1198)
BRC	4160 (+1248)	4160 (+1248)
Pawnee	4267 (+1356)	4267 (+1356)
Cherokee Shale	4351 (+1448)	4354 (+1448)
Mississippi	4474 (+1563)	4473 (+1562)



REMARKS:

LEGEND



DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
2630	Anhydrite		Anhydrite 2660 (+251)
2650	Anhydrite		Base Anhydrite 2691 (+220)
2700	Anhydrite		
3600	Shale	Shale: red, brown, gray	Geologist on location at 3603' on 9:15 pm 2/14/2014
50	Limestone	Limestone: lt gray to white, fxn, sl chalky, sil fossiliferous, no vis por	
50	Shale	Shale: gray, red, black	
50	Limestone	Limestone: tan, fxn, granular, no vis por	
50	Shale	Shale: gray, red, black	
50	Limestone	Limestone: tan to white, fxn, sl chalky, fossiliferous, no vis por	wt 8.6, vis. 57, lcm 2# Morgan Mud, Cade Lines
50	Shale	Shale: gray, green, red	
50	Limestone	Limestone: tan, fxn, chalky, sil pyritic, fossiliferous, no vis por	
50	Limestone	Limestone: tan, fxn, chalky, fossiliferous, no vis por	
50	Shale	Shale: red, gray	
50	Siltstone	Siltstone: gray to brown, fxn, silty, sl chalky, no vis por	
50	Shale	Shale: red, brown, gray, silty	
50	Limestone	Limestone: tan to white, fxn, chalky, granular, no vis por	Topeka 3722 (-811)
50	Limestone	Limestone: lt gray to tan, fxn, chalky, granular, sil fossiliferous, no vis por	
50	Shale	Shale: red, argillaceous, soft, sandy	
50	Limestone	Limestone: white to tan, f-mxn, chalky, fossiliferous, pr interxn por, ns	
50	Limestone	Limestone: white to tan, f-mxn, chalky, oolitic, fossiliferous, pr pp por	
50	Shale	Shale: gray, red, black, pyritic	
50	Limestone	Limestone: white, f-mxn, chalky, fossiliferous, calcite fracture fill, no vis por	
50	Limestone	Limestone: tan to white, f-mxn, chalky, fossiliferous, no vis por	8:00am, 2/15/2014
50	Shale	Shale: gray, red, black	
50	Limestone	Limestone: tan to white, f-mxn, chalky, fossiliferous, no vis por	
50	Shale	Shale: red, gray, green, red	
50	Limestone	Limestone: tan to white, f-mxn, chalky, fossiliferous, no vis por	
50	Shale	Shale: red, gray, green	
50	Limestone	Limestone: tan, f-ixn, oolitic in part, fossiliferous, no vis por	
50	Shale	Shale: black carbonaceous, red, gray, pyritic	
50	Shale	Shale: red, gray, green, black	
50	Limestone	Limestone: tan, f-mxn, chalky, oolitic in part, v-fossiliferous, pr interxn por, 10% sample black sat stain, prsfo on break, faint odor	
50	Shale	Shale: red, gray, black	
50	Shale	Shale: red, gray, black, pyritic	
50	Limestone	Limestone: tan to white, fxn, sl chalky, fossiliferous, 10% sample fr vug por, black spotty to sat stain, prsfo, fair odor	
50	Sandstone	Sandstone: brown, fr-vfn gr, rnd, well sorted, semi-friable, calcareous, pr interxn por, dark sat stain, frsfo, fair odor	wt 9.0, vis. 92, lcm 10# Morgan Mud, Cade Lines
50	Shale	Shale: red, gray, black	
50	Limestone	Limestone: white, m-ixn, oolitic, fossiliferous, fr oolitic por, spotty dark stain, prsfo, faint odor	
50	Shale	Shale: red, gray, pyritic	8:00am, 2/16/2014
50	Limestone	Limestone: white, fxn, chalky, sil cherty, pyritic, fossiliferous, pr vug por, 2% sample lt sat stain, no odor	wt 9.0, vis. 85, lcm 8# Morgan Mud, Cade Lines
50	Shale	Shale: red, gray	
50	Limestone	Limestone: white to lt gray, fxn, sl chalky, dense, no vis por	
50	Limestone	Limestone: tan to white, f-mxn, chalky, fossiliferous, 5% sample fr vug por, lt spotty stain, no odor	
50	Shale	Shale: gray, red	8:00am, 2/17/2014
50	Limestone	Limestone: tan, m-ixn, sl chalky, oolitic, fossiliferous, 20% sample gd oolitic to vug por, lt sat stain, gdstfo, gd odor	
50	Shale	Shale: red, gray, pyritic	
50	Limestone	Limestone: white, fxn, dense, sl oolitic, sil fossiliferous, no vis por, ns	
50	Limestone	Limestone: white, fxn, sl oolitic, chalky, fossiliferous, fr interxn to pp por, 5% sample lt spotty stain, no odor	
50	Shale	Shale: gray, black, red	
50	Limestone	Limestone: brown, fxn, dense, fossiliferous, no vis por	
50	Shale	Shale: gray, red	
50	Limestone	Limestone: tan to lt gray, fxn, sl chalky, sil vug por, 1% sample black spotty stain, silsfo, no odor	
50	Limestone	Limestone: tan to white, fxn, sl chalky, sil pyritic, no vis por, ns	
50	Shale	Shale: gray, red	
50	Limestone	Limestone: white to lt gray, fxn, sil fossiliferous, pr interxn to vug por, 2% sample lt spotty to sat stain, frsfo, gd odor	
50	Shale	Shale: dark to lt gray, red, brown	
50	Limestone	Limestone: lt gray to tan, fxn, sl chalky, oolitic, dense, no vis por	
50	Limestone	Limestone: lt gray to white, fxn, chalky, sil cherty, dense, no vis por	8:00am, 2/18/2014
50	Shale	Shale: gray, red, black	
50	Limestone	Limestone: no vis por	wt 9.3, vis. 51, lcm 7# Morgan Mud, Cade Lines
50	Shale	Shale: gray, red, black	
50	Limestone	Limestone: white, f-mxn, oolitic in part, fossiliferous, no vis por	
50	Shale	Shale: red, brown, gray, silty	
50	Limestone	Limestone: white, f-mxn, oolitic in part, fossiliferous, no vis por	
50	Shale	Shale: red, gray, silty	
50	Limestone	Limestone: gray to white, fxn, granular, silty, fossiliferous, no vis por	
50	Shale	Shale: gray, green, red, brown, silty	
50	Limestone	Limestone: white, f-mxn, oolitic in part, fossiliferous, no vis por	
50	Shale	Shale: red, brown, gray, silty, sandy	
50	Sandstone	Sandstone: white, lt, md gr, sub rnd, mod sorted, hard, no vis por	
50	Limestone	Limestone: white, fxn, chalky, granular, sil fossiliferous, no vis por	
50	Sandstone	Sandstone: brown to gray, md gr, sub rnd, mod sorted, friable, no vis por	
50	Shale	Shale: red, gray, green	
50	Shale	Shale: red, gray, brown, silty	
50	Sandstone	Sandstone: white, glauconitic, fr-md gr, sub rnd, mod sorted, hard, no vis por	
50	Shale	Shale: red, brown, gray, silty, sandy	
50	Sandstone	Sandstone (chert): yellow, lt, very-coarse to pebble, sub-ang, poorly sorted, no vis por	
50	Shale	Shale: red, gray, yellow, sandy	
50	Shale	Shale: red, gray, yellow, sandy	
50	Chert	Chert: white, opaque, mostly weathered, no vis por	
50	Chert	Chert: white, opaque, mostly weathered, no vis por	
50	Chert	Chert: white to yellow, majority lt, mostly fresh, no vis por, ns	
50	Limestone	Limestone: white, fxn, cherty, dense, no vis por	
50	Dolomite	Dolomite: white, f-ixn, glauconitic, sandy, chalky, cherty, sil interxn por	
50	Chert	Chert: white, lt to opaque, mostly fresh, no vis por, ns	
50	Dolomite	Dolomite: white, f-mxn, cherty, fr interxn por, ns	
50	RTD		RTD 4543 (-1632) 8:00am, 2/20/2014
50			Due to inclement weather the loggers were delayed in getting to the rig. The loggers generator broke and another had to be delivered before logging could begin. Then the sp went out and another run with the dual induction had to be performed in order to get an sp curve.
50			Geologist off location at 5:30pm, 2/20/2014



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Robert Hendrix

Schmidt-Vap #1-26

26-4s-31w Rawlins,KS

Start Date: 2014.02.15 @ 23:05:00

End Date: 2014.02.16 @ 08:38:15

Job Ticket #: 55171 DST #: 1

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

Printed: 2014.02.20 @ 15:47:01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55171

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.02.15 @ 23:05:00

GENERAL INFORMATION:

Formation: **Tor-LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:04:30

Time Test Ended: 08:38:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 3888.00 ft (KB) To 3973.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 3973.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8879

Inside

Press@RunDepth: 748.84 psig @ 3889.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.15

End Date:

2014.02.16

Last Calib.:

2014.02.16

Start Time: 23:05:05

End Time:

08:38:15

Time On Btm:

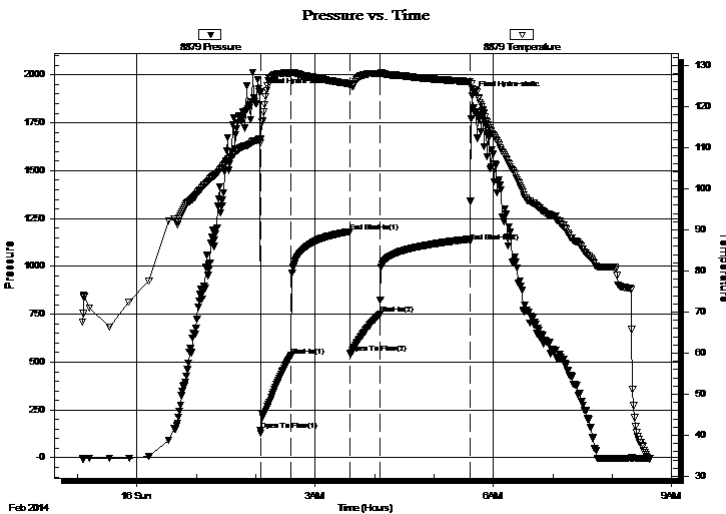
2014.02.16 @ 02:04:15

Time Off Btm:

2014.02.16 @ 05:38:45

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 1 1/2 min.
60 - ISI - Return built to a weak surface blow
30 - FF - Surface blow built to bottom of bucket in 3 min.
90 - FSI - Return built up to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.31	112.04	Initial Hydro-static
1	143.24	111.19	Open To Flow (1)
32	533.38	128.10	Shut-In(1)
91	1182.32	125.52	End Shut-In(1)
91	546.79	125.03	Open To Flow (2)
122	748.84	128.06	Shut-In(2)
213	1130.32	126.03	End Shut-In(2)
215	1892.50	124.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1575.00	OCMW - 85W - 10M - 5o	19.69
116.00	Free Oil - 100o	1.63

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55171

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.02.15 @ 23:05:00

GENERAL INFORMATION:

Formation: **Tor-LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:04:30

Time Test Ended: 08:38:15

Interval: **3888.00 ft (KB) To 3973.00 ft (KB) (TVD)**

Total Depth: 3973.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Reference Elevations: 2911.00 ft (KB)

2900.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6669 Outside

Press@RunDepth: psig @ 3889.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.15

End Date: 2014.02.16

Last Calib.: 2014.02.16

Start Time: 23:05:05

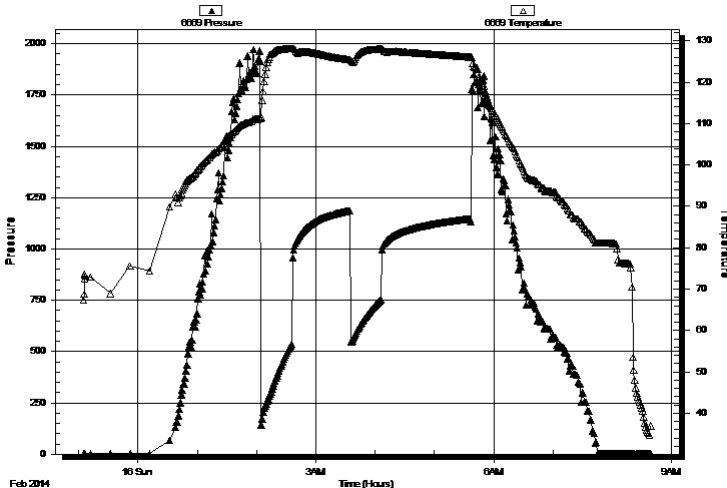
End Time: 08:38:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 1 1/2 min.
60 - ISI - Return built to a weak surface blow
30 - FF - Surface blow built to bottom of bucket in 3 min.
90 - FSI - Return built up to 1"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1575.00	OCMW - 85W - 10M - 5o	19.69
116.00	Free Oil - 100o	1.63

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55171

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.02.15 @ 23:05:00

Tool Information

Drill Pipe:	Length: 3602.00 ft	Diameter: 3.80 inches	Volume: 50.53 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 264.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 51.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3888.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Hydraulic tool	5.00			3866.00	
Jars	5.00			3871.00	
Shut In Tool	5.00			3876.00	
Safety Joint	3.00			3879.00	
Packer	4.00			3883.00	27.00 Bottom Of Top Packer
Packer	5.00			3888.00	
Stubb	1.00			3889.00	
Recorder	0.00	8879	Inside	3889.00	
Recorder	0.00	6669	Outside	3889.00	
Perforations	16.00			3905.00	
Change Over Sub	1.00			3906.00	
Drill Pipe	63.00			3969.00	
Change Over Sub	1.00			3970.00	
Bullnose	3.00			3973.00	85.00 Bottom Packers & Anchor

Total Tool Length: 112.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55171

DST#: 1

ATTN: Robert Hendrix

Test Start: 2014.02.15 @ 23:05:00

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: 92.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1575.00	OCMW - 85W - 10M - 5o	19.688
116.00	Free Oil - 100o	1.627

Total Length: 1691.00 ft Total Volume: 21.315 bbl

Num Fluid Samples: 0

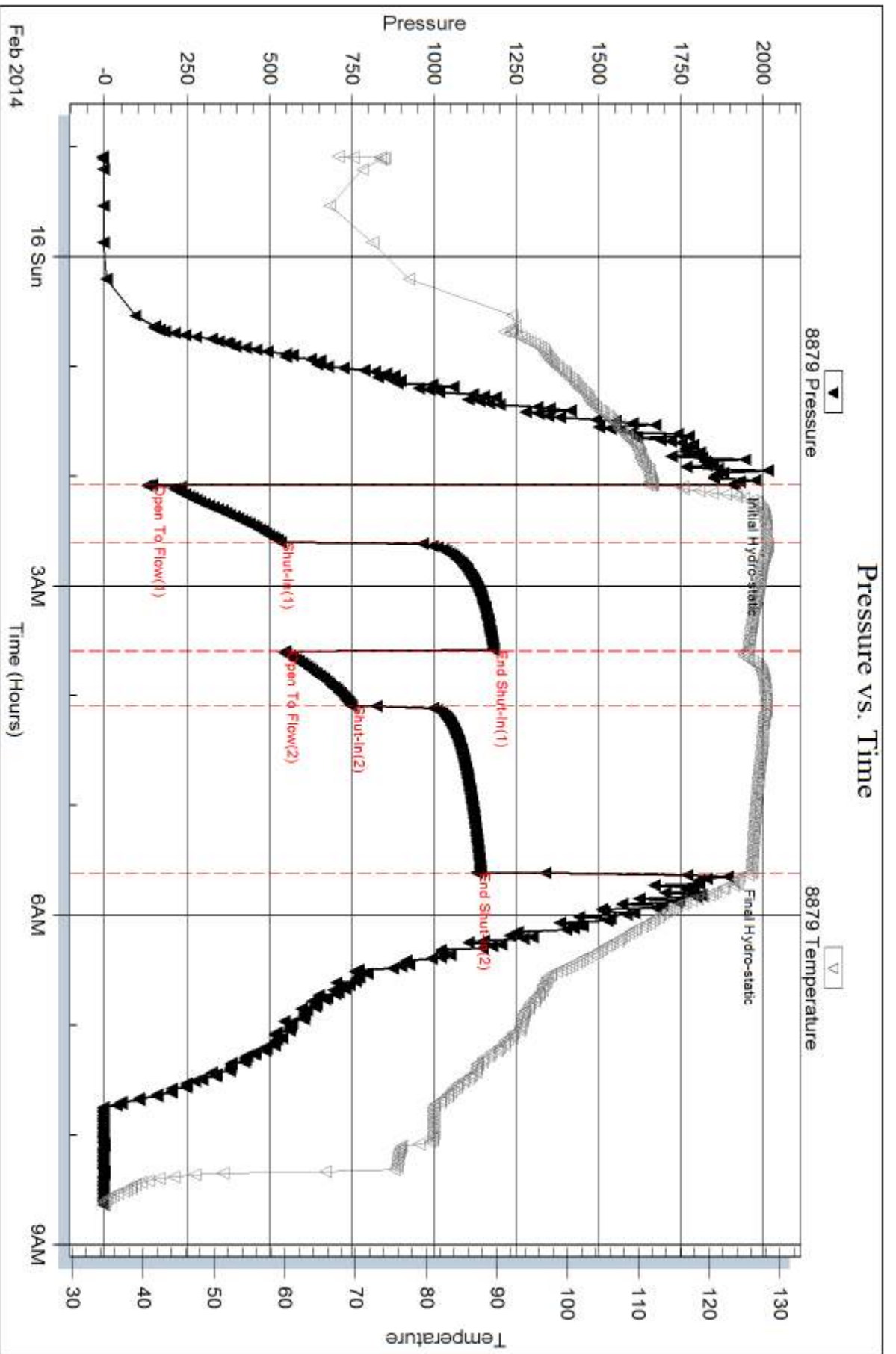
Num Gas Bombs: 0

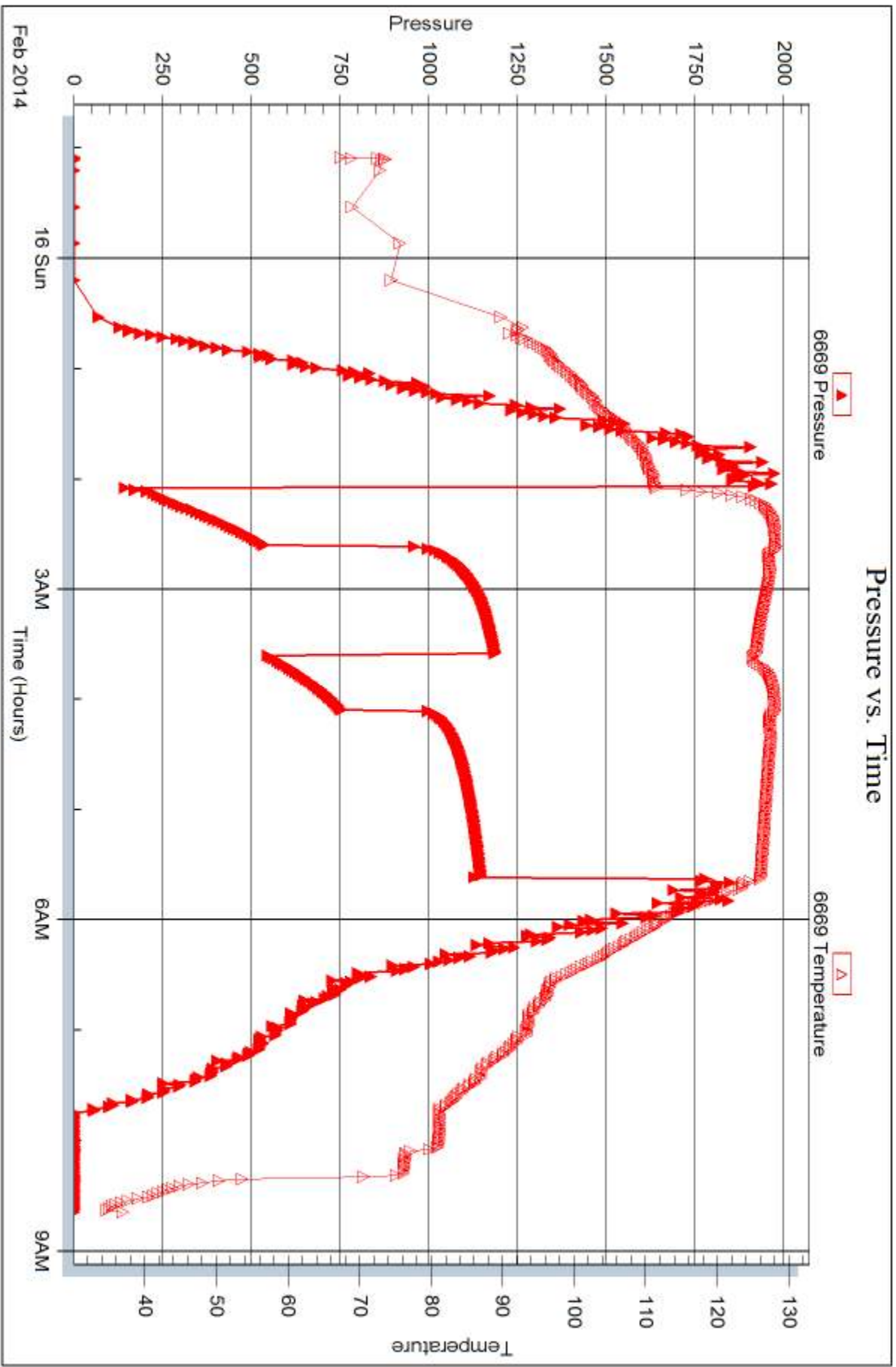
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Robert Hendrix

Schmidt-Vap #1-26

26-4s-31w Rawlins,KS

Start Date: 2014.02.16 @ 17:52:00

End Date: 2014.02.17 @ 06:06:47

Job Ticket #: 55172 DST #: 2

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

Printed: 2014.02.20 @ 15:46:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55172

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.02.16 @ 17:52:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:03:18

Time Test Ended: 06:06:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 54

Interval: 3993.00 ft (KB) To 4015.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4015.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8879

Inside

Press@RunDepth: 433.90 psig @ 3994.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.16

End Date: 2014.02.17

Last Calib.: 2014.02.17

Start Time: 17:52:23

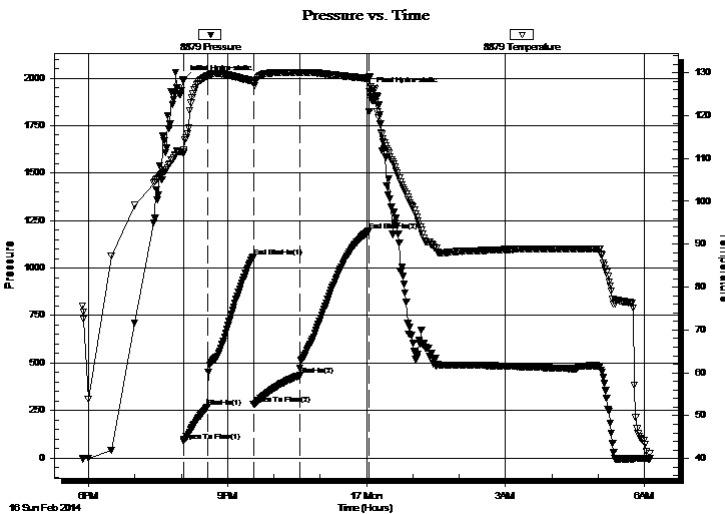
End Time: 06:06:48

Time On Btm: 2014.02.16 @ 20:03:03

Time Off Btm: 2014.02.17 @ 00:03:47

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 3 min.
60 - ISI - Return built to bottom of bucket in 47 min.
60 - FF - Surface blow built to bottom of bucket in 4 min.
90 - FSI - Return built to bottom of bucket in 15 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.89	111.43	Initial Hydro-static
1	87.47	111.02	Open To Flow (1)
31	267.19	129.18	Shut-In(1)
91	1059.73	128.01	End Shut-In(1)
91	283.17	127.50	Open To Flow (2)
151	433.90	129.95	Shut-In(2)
240	1195.75	128.64	End Shut-In(2)
241	1928.58	128.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1228.00	Free Oil - 100o	14.82
0.00	2236 gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

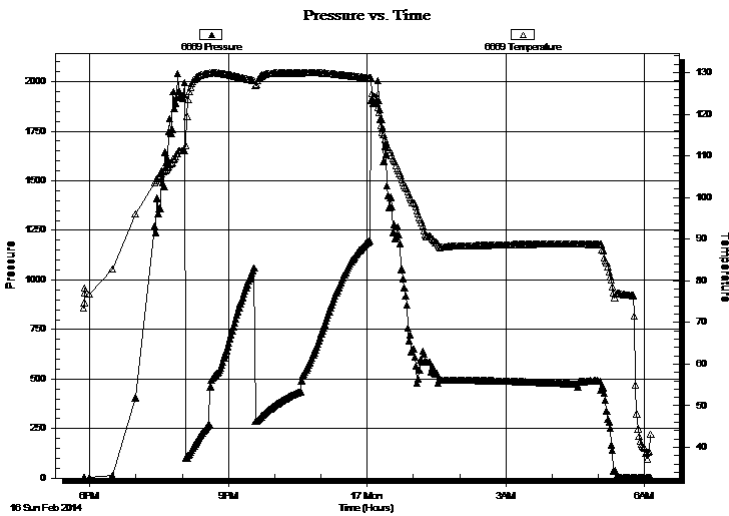
26-4s-31w Rawlins, KS
Schmidt-Vap #1-26
 Job Ticket: 55172 **DST#: 2**
 Test Start: 2014.02.16 @ 17:52:00

GENERAL INFORMATION:

Formation: **LKC E-F**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:03:18
 Tester: Royal Fisher
 Time Test Ended: 06:06:47
 Unit No: 54
Interval: 3993.00 ft (KB) To 4015.00 ft (KB) (TVD)
 Reference Elevations: 2911.00 ft (KB)
 Total Depth: 4015.00 ft (KB) (TVD)
 2900.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 6669 Inside
 Press@RunDepth: psig @ 3994.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.02.16 End Date: 2014.02.17
 Last Calib.: 2014.02.17
 Start Time: 17:52:05 End Time: 06:07:45
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 3 min.
 60 - ISI - Return built to bottom of bucket in 47 min.
 60 - FF - Surface blow built to bottom of bucket in 4 min.
 90 - FSI - Return built to bottom of bucket in 15 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1228.00	Free Oil - 100o	14.82
0.00	2236 gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55172

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.02.16 @ 17:52:00

Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 264.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 53.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3993.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3971.00	
Hydraulic tool	5.00			3976.00	
Jars	5.00			3981.00	
Safety Joint	3.00			3984.00	
Packer	4.00			3988.00	27.00 Bottom Of Top Packer
Packer	5.00			3993.00	
Stubb	1.00			3994.00	
Recorder	0.00	6669	Inside	3994.00	
Recorder	0.00	8879	Inside	3994.00	
Perforations	18.00			4012.00	
Bullnose	3.00			4015.00	22.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55172

DST#: 2

ATTN: Robert Hendrix

Test Start: 2014.02.16 @ 17:52:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 85.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1228.00	Free Oil - 100o	14.821
0.00	2236 gas in pipe	0.000

Total Length: 1228.00 ft Total Volume: 14.821 bbl

Num Fluid Samples: 0

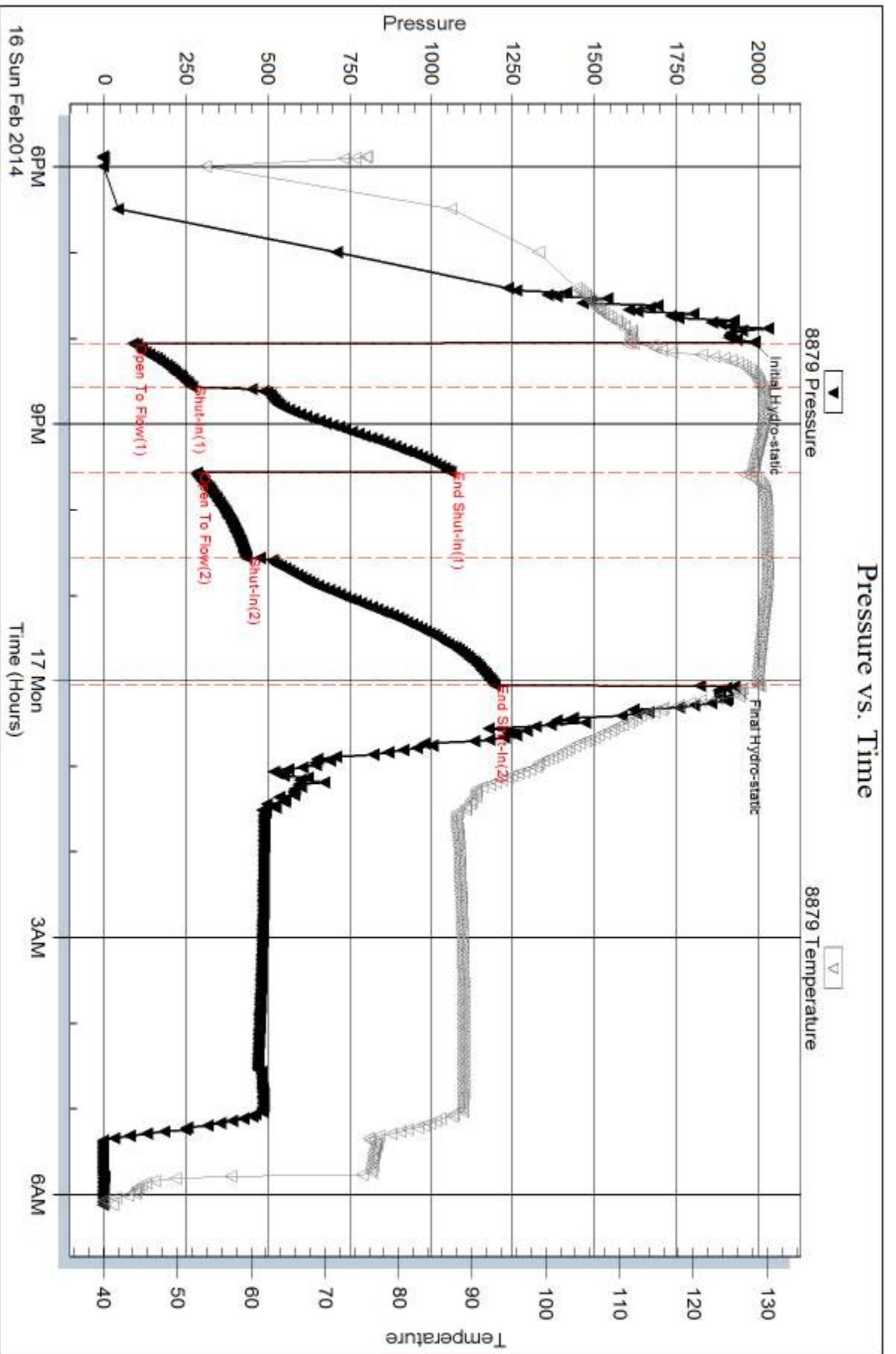
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



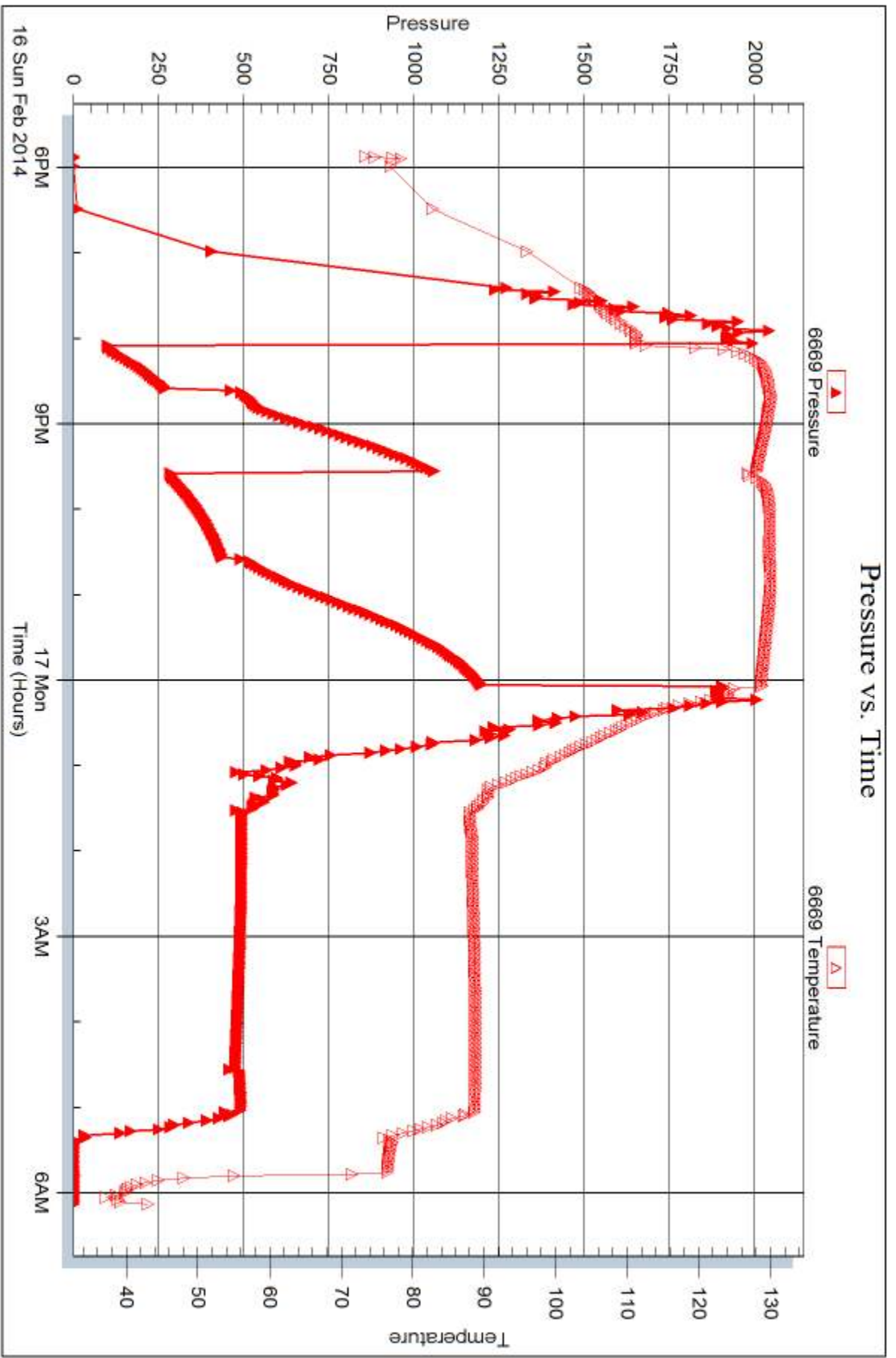
Serial #: 6669

Inside

Murfin Drilling Co., Inc.

Schmidt-Vap #1-26

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55172

Printed: 2014.02.20 @ 15:46:40



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Robert Hendrix

Schmidt-Vap #1-26

26-4s-31w Rawlins,KS

Start Date: 2014.02.17 @ 18:13:00

End Date: 2014.02.18 @ 03:35:15

Job Ticket #: 55173 DST #: 3

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

Printed: 2014.02.20 @ 15:46:15

Murfin Drilling Co., Inc.
26-4s-31w Rawlins,KS
Schmidt-Vap #1-26
DST # 3
LKC:HL
2014.02.17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55173

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.02.17 @ 18:13:00

GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:01:15

Time Test Ended: 03:35:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4045.00 ft (KB) To 4109.00 ft (KB) (TVD)

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4109.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8879

Inside

Press@RunDepth: 487.92 psig @ 4046.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.17

End Date:

2014.02.18

Last Calib.:

2014.02.18

Start Time: 18:13:05

End Time:

03:35:15

Time On Btm:

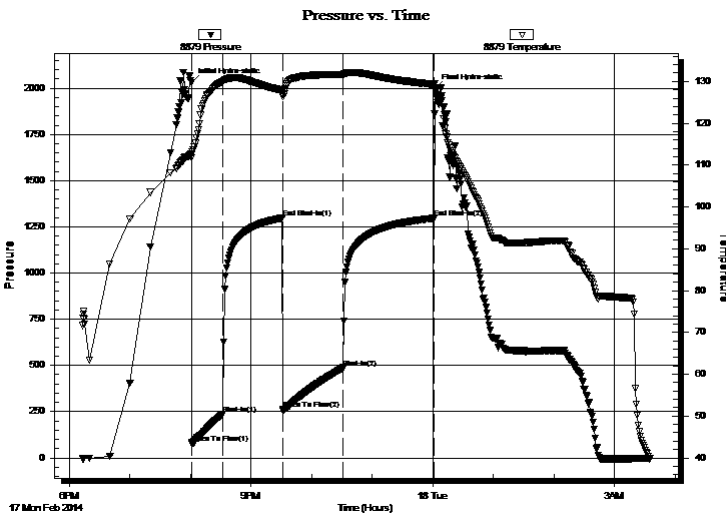
2014.02.17 @ 20:01:00

Time Off Btm:

2014.02.18 @ 00:02:30

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 4 min.
60 - ISI - Return built to bottom of bucket in 30 min.
60 - FF - Surface blow built to bottom of bucket in 4 min.
90 - FSI - Return built to bottom of bucket in 17 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2029.87	112.58	Initial Hydro-static
1	79.13	111.80	Open To Flow (1)
31	236.89	129.93	Shut-In(1)
90	1297.32	127.77	End Shut-In(1)
91	262.63	126.93	Open To Flow (2)
151	487.92	131.62	Shut-In(2)
241	1296.07	129.24	End Shut-In(2)
242	1996.27	128.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1532.00	Free Oil - 100o	19.09
0.00	1429 - gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55173

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.02.17 @ 18:13:00

Tool Information

Drill Pipe:	Length: 3760.00 ft	Diameter: 3.80 inches	Volume: 52.74 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 264.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 54.04 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4045.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	91.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4023.00	
Hydraulic tool	5.00			4028.00	
Jars	5.00			4033.00	
Safety Joint	3.00			4036.00	
Packer	4.00			4040.00	27.00 Bottom Of Top Packer
Packer	5.00			4045.00	
Stubb	1.00			4046.00	
Recorder	0.00	8879	Inside	4046.00	
Recorder	0.00	6669	Outside	4046.00	
Perforations	27.00			4073.00	
Change Over Sub	1.00			4074.00	
Drill Pipe	31.00			4105.00	
Change Over Sub	1.00			4106.00	
Bullnose	3.00			4109.00	64.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55173

DST#: 3

ATTN: Robert Hendrix

Test Start: 2014.02.17 @ 18:13:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1532.00	Free Oil - 100o	19.085
0.00	1429 - gas in pipe	0.000

Total Length: 1532.00 ft Total Volume: 19.085 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

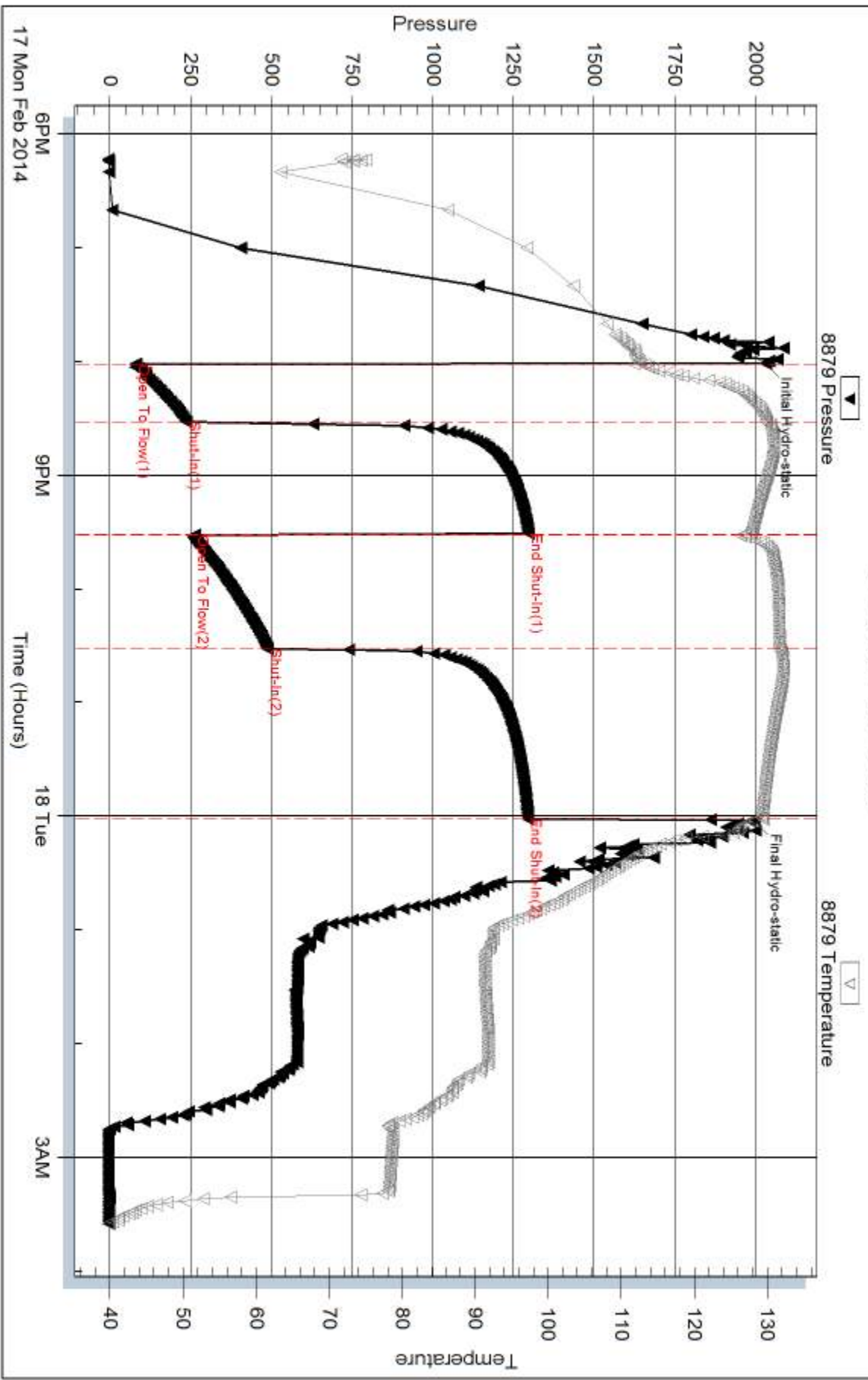
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

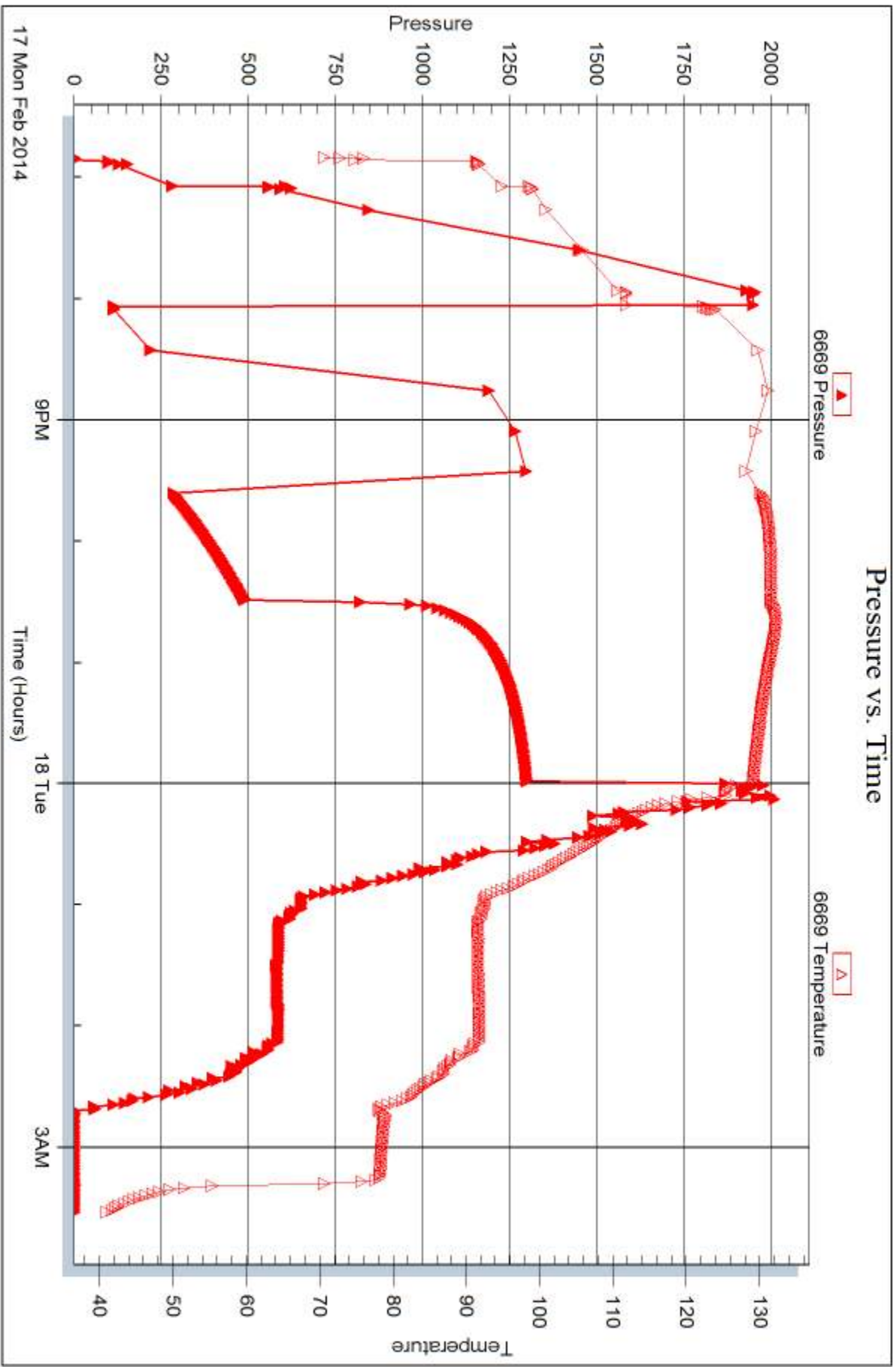


Serial #: 6669

Outside Marfin Drilling Co., Inc.

Schmidt-Vap #1-26

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55173

Printed: 2014.02.20 @ 15:46:17



DRILL STEM TEST REPORT

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

250 N. Water Ste 300
Wichita KS 67202

ATTN: Robert Hendrix

Schmidt-Vap #1-26

26-4s-31w Rawlins,KS

Start Date: 2014.02.19 @ 05:22:00

End Date: 2014.02.19 @ 12:46:30

Job Ticket #: 55174 DST #: 4

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

Printed: 2014.02.20 @ 15:45:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55174

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.02.19 @ 05:22:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:04:45

Time Test Ended: 12:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: **4320.00 ft (KB) To 4376.00 ft (KB) (TVD)**

Reference Elevations: 2911.00 ft (KB)

Total Depth: 4376.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8879

Inside

Press@RunDepth: 17.56 psig @ 4321.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.19

End Date:

2014.02.19

Last Calib.:

2014.02.19

Start Time: 05:22:05

End Time:

12:46:29

Time On Btm:

2014.02.19 @ 08:04:30

Time Off Btm:

2014.02.19 @ 11:07:30

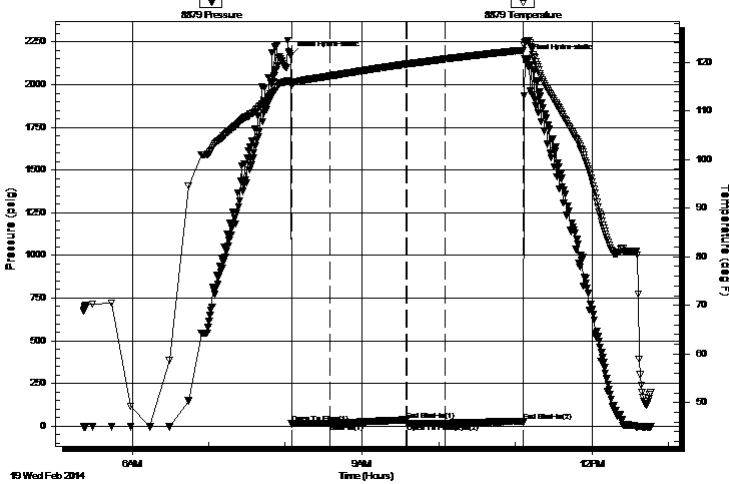
TEST COMMENT: 30 - IF - Surface blow built to a weak surface

60 - ISI - No Return

30 - FF - No Surface blow

60 - FSI - No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.45	116.01	Initial Hydro-static
1	14.27	115.31	Open To Flow (1)
31	16.21	117.21	Shut-In(1)
91	36.86	119.64	End Shut-In(1)
91	16.89	119.65	Open To Flow (2)
121	17.56	120.69	Shut-In(2)
182	25.39	122.51	End Shut-In(2)
183	2150.29	124.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud - 100M	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

ATTN: Robert Hendrix

Job Ticket: 55174

DST#: 4

Test Start: 2014.02.19 @ 05:22:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:04:45

Time Test Ended: 12:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: #54

Interval: 4320.00 ft (KB) To 4376.00 ft (KB) (TVD)

Total Depth: 4376.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2911.00 ft (KB)

2900.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6669 Inside

Press@RunDepth: psig @ 4321.00 ft (KB)

Start Date: 2014.02.19

End Date: 2014.02.19

Start Time: 05:22:05

End Time: 12:47:18

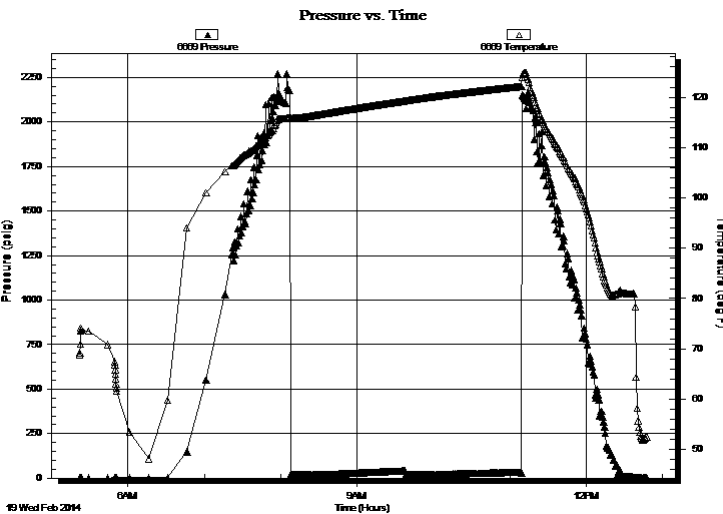
Capacity: 8000.00 psig

Last Calib.: 2014.02.19

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF - Surface blow built to a weak surface
60 - ISI - No Return
30 - FF - No Surface blow
60 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud - 100M	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55174

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.02.19 @ 05:22:00

Tool Information

Drill Pipe:	Length: 4046.00 ft	Diameter: 3.80 inches	Volume: 56.75 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 264.00 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 58.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4320.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
Safety Joint	3.00			4311.00	
Packer	4.00			4315.00	27.00 Bottom Of Top Packer
Packer	5.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	6669	Inside	4321.00	
Recorder	0.00	8879	Inside	4321.00	
Perforations	19.00			4340.00	
Change Over Sub	1.00			4341.00	
Drill Pipe	31.00			4372.00	
Change Over Sub	1.00			4373.00	
Bullnose	3.00			4376.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water Ste 300
Wichita KS 67202

Schmidt-Vap #1-26

Job Ticket: 55174

DST#: 4

ATTN: Robert Hendrix

Test Start: 2014.02.19 @ 05:22:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud - 100M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

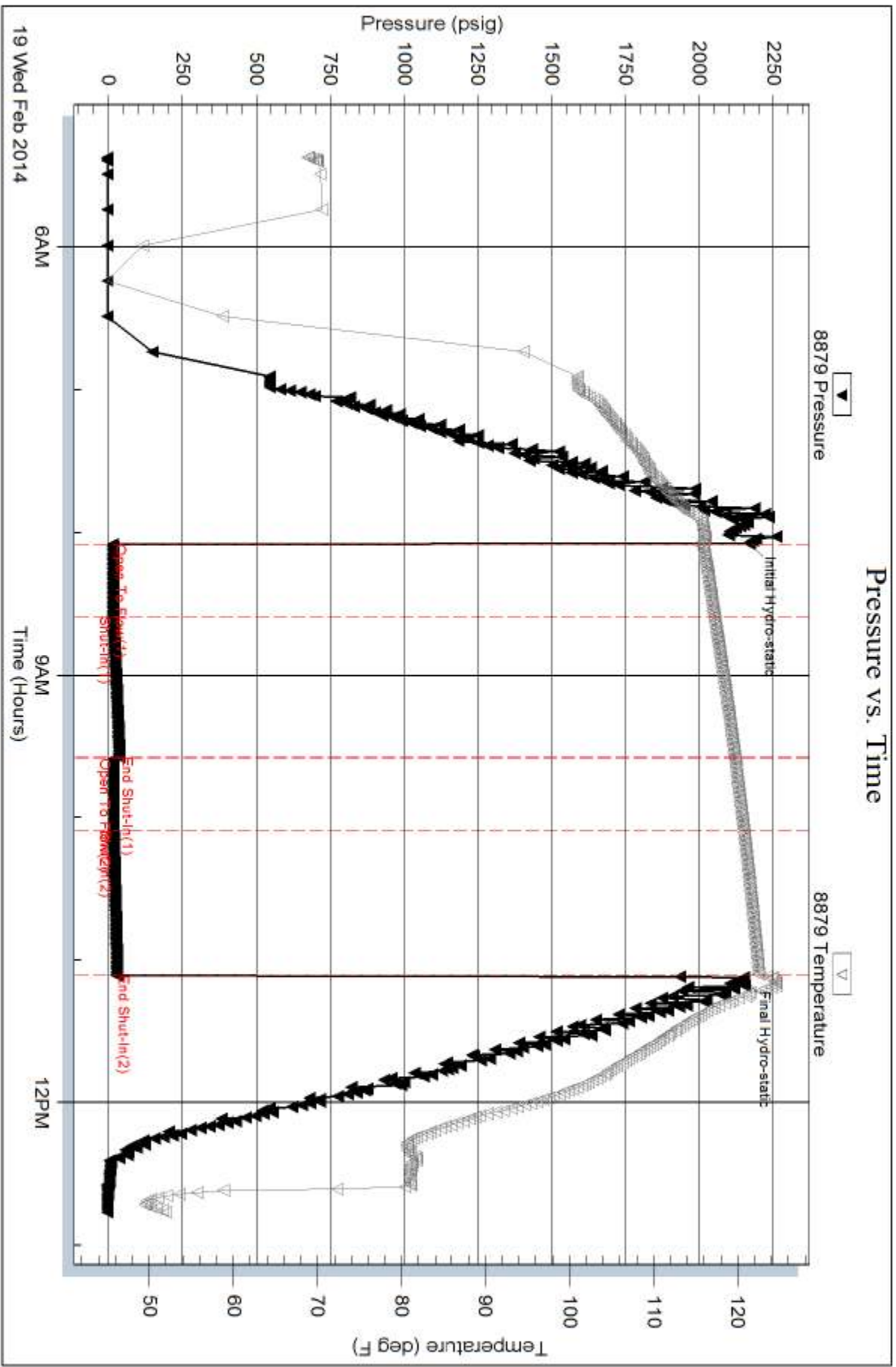
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



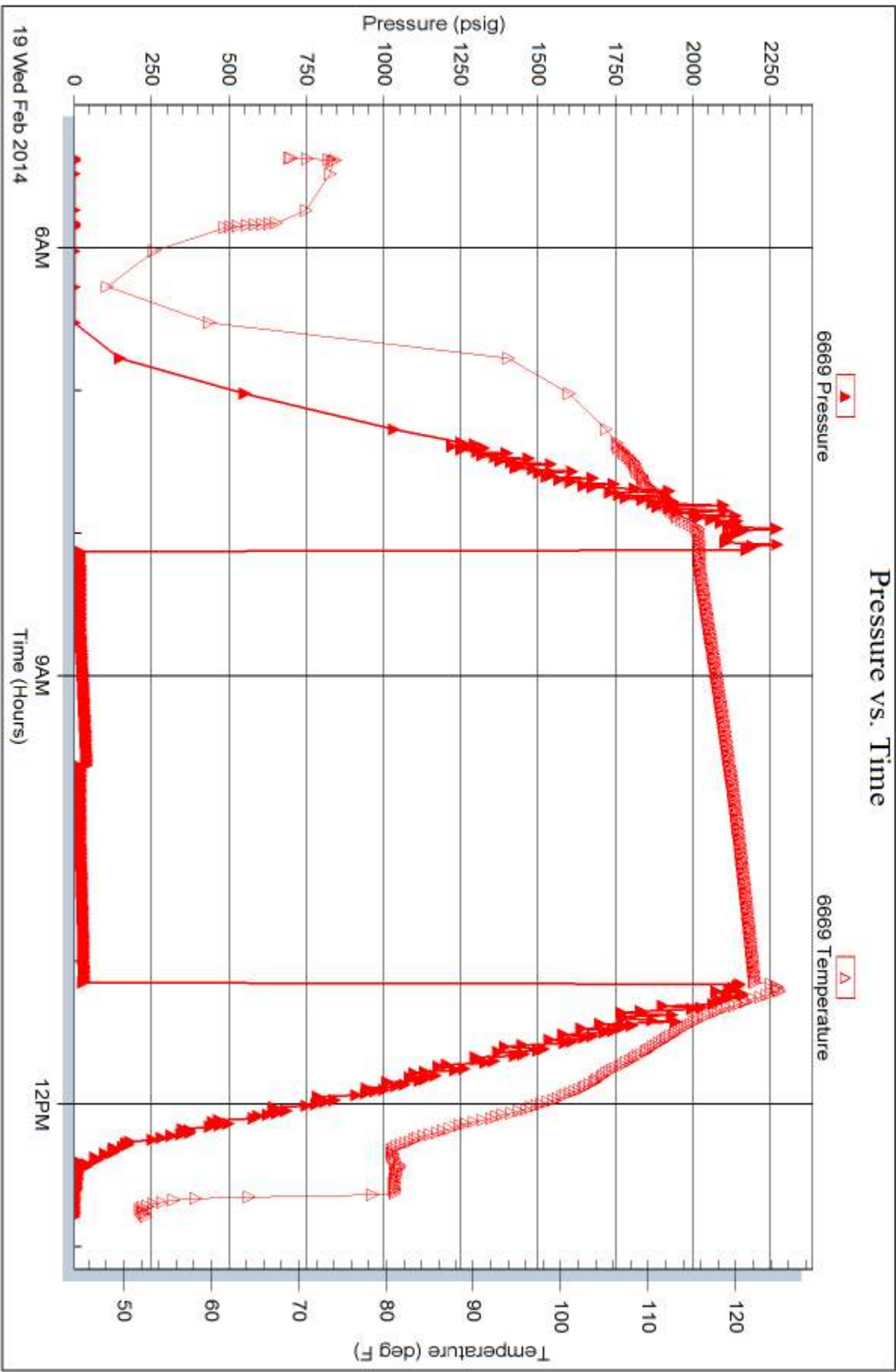
Serial #: 6669

Inside

Murfin Drilling Co., Inc.

Schmidt-Vap #1-26

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 55174

Printed: 2014.02.20 @ 15:45:50



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55171

Well Name & No. Schmidt-Vap #1-26 Test No. 1 Date 2-15-14
 Company Murfin Drilling Co., Inc. Elevation 2911 KB 2900 GL
 Address 250 N. Water Ste 300 Wichita-Ks 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 26 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3888 - 3973 Zone Tested Top - Lans A - Lans B
 Anchor Length 85' Drill Pipe Run 3602' Mud Wt. 9.0
 Top Packer Depth 3884 Drill Collars Run 264' Vis 92
 Bottom Packer Depth 3888 Wt. Pipe Run 0 WL 5.6
 Total Depth 3973 Chlorides 2200 ppm System LCM 10#
 Blow Description IF - Surface blow built to bottom of bucket in 1/2 min.
ISI - return built to a weak surface blow
FF - Surface blow built to bottom of bucket in 3 min.
FSI - return built up to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>116'</u>	<u>Freeoil</u>	<u>100</u>			
<u>1575'</u>	<u>OCMW</u>	<u>5</u>	<u>85</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1691 BHT 126°F Gravity 20 API RW 0.134 @ 34°F Chlorides 130,000 ppm
 (A) Initial Hydrostatic 1906 Test 1150 T-On Location 9:25pm
 (B) First Initial Flow 143 Jars 250 T-Started 11:05pm
 (C) First Final Flow 533 Safety Joint 75 T-Open 2:05am
 (D) Initial Shut-In 1182 Circ Sub N/C T-Pulled 5:35am
 (E) Second Initial Flow 546 Hourly Standby T-Out 8:39am
 (F) Second Final Flow 748 Mileage 48 R/T 74.40 Comments
 (G) Final Shut-In 1130 Sampler
 (H) Final Hydrostatic 1892 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder
 Day Standby
 Accessibility

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 90
 Sub Total 0
 Total 1549.40
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55172

Well Name & No. Schmidt - Vap #1-26 Test No. 2 Date 2-16-14
 Company Murfin Drilling Co., Inc. Elevation 2911 KB 2900 GL
 Address 250 N. Water Ste. 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 26 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3993 - 4015 Zone Tested Lans - E-F
 Anchor Length 22' Drill Pipe Run 3728' Mud Wt. 9.0
 Top Packer Depth 3989 Drill Collars Run 214' Vis 85
 Bottom Packer Depth 3993 Wt. Pipe Run 0 WL 5.2
 Total Depth 4015 Chlorides 1700 ppm System LCM 8#

Blow Description IF-Surface blow built to bottom of bucket in 3 min.
ISI-Return built to bottom of bucket in 47 min.
FF-Surface blow built to bottom of bucket in 4 min.
FSI-Return built to bottom of bucket in 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1228'</u>	<u>Free oil</u>	<u>100</u>			
	<u>2236' Gas in pipe</u>				

Rec Total 1228 BHT 128°F Gravity 38 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1989 Test 1250 T-On Location 5:30pm
 (B) First Initial Flow 87 Jars 250 T-Started 5:52pm
 (C) First Final Flow 267 Safety Joint 75 T-Open 8:04pm
 (D) Initial Shut-In 1059 Circ Sub used 50 T-Pulled 12:05am
 (E) Second Initial Flow 283 Hourly Standby 2h 200 T-Out 6:08am
 (F) Second Final Flow 433 Mileage 48 R/T 74.40 Comments Dropped bar,
also waited on truck
 (G) Final Shut-In 1195 Sampler _____
 (H) Final Hydrostatic 1928 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90
 Sub Total 1899.40
 Total 1899.40
 MP/DST Disc't _____

Approved By _____ Our Representative Royl Justice

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55173

Well Name & No. Schmidt-Vap #1-26 Test No. 3 Date 2-17-14
 Company Murfin Drilling Co., Inc. Elevation 2911 KB 2900 GL
 Address 250 W. Water Ste. 300 Wichita KS, 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 26 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4045-4109 Zone Tested Lans -H-I
 Anchor Length 64' Drill Pipe Run 3760' Mud Wt. 9.1
 Top Packer Depth 4041 Drill Collars Run 264' Vis 54
 Bottom Packer Depth 4045 Wt. Pipe Run 0 WL 6.4
 Total Depth 4109 Chlorides 3,300 ppm System LCM 7#

Blow Description IF-Surface blow built to bottom of bucket in 4 min.
ISI-Return built to bottom of bucket in 30 min.
FF-Surface built to bottom of bucket in 4 min.
FSI-Return built to bottom of bucket in 17 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1532'</u>	<u>DK Gas Oil</u>	<u>100</u>			
<u>1429'</u>	<u>-Gas in pipe</u>	<u>100</u>			

Rec Total 1532' BHT 1297F Gravity 31@60° API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2029 Test 1250 T-On Location 5:40pm
 (B) First Initial Flow 79 Jars 250 T-Started 6:13pm
 (C) First Final Flow 236 Safety Joint 75 T-Open 8:01pm
 (D) Initial Shut-In 1297 Circ Sub used 50 T-Pulled 12:01 am
 (E) Second Initial Flow 262 Hourly Standby _____ T-Out 3:35 am
 (F) Second Final Flow 487 Mileage 48 R/T 74.40 Comments Dropped bar
 (G) Final Shut-In 1296 Sampler _____
 (H) Final Hydrostatic 1996 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1699.40
 Final Shut-In 90 Accessibility 1699.40 MP/DST Disc't _____
 Sub Total 1699.40

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55174

Well Name & No. Schmidt - Vap #1-26 Test No. 4 Date 2-19-14
 Company Murfin Drilling Co, Inc. Elevation 2911 KB 2900 GL
 Address 250 N. Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2
 Location: Sec. 26 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4320 - 4376 Zone Tested Ft. Scott - Cherokee
 Anchor Length 56' Drill Pipe Run 4046' Mud Wt. 9.3
 Top Packer Depth 4316 Drill Collars Run 264' Vis 51
 Bottom Packer Depth 4320 Wt. Pipe Run 0 WL 6.4
 Total Depth 4376 Chlorides 2,000 ppm System LCM 7#

Blow Description IF - Surface blow built to a weak surface
ISI - No Return
FF - No Surface blow
FSI - No Return

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

Rec Total 2' BHT 122°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2168 Test 1250 T-On Location 4:25am
 (B) First Initial Flow 14 Jars 250 T-Started 5:22am
 (C) First Final Flow 16 Safety Joint 75 T-Open 8:05am
 (D) Initial Shut-In 36 Circ Sub N/C T-Pulled 12:03pm 11:05am
 (E) Second Initial Flow 16 Hourly Standby T-Out 12:47pm
 (F) Second Final Flow 17 Mileage 48 R/T 148.80 Comments loaded tool
 (G) Final Shut-In 25 Sampler at 11:42pm 2-19-14
 (H) Final Hydrostatic 2150 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 60 Extra Packer Extra Copies
 Final Flow 30 Extra Recorder Sub Total 33.33
 Final Shut-In 60 Day Standby 1d 1h Total 1757.13
 Accessibility MP/DST Disc't _____
 Sub Total 1723.80

Approved By _____ Our Representative [Signature]

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Schmidt-Vap #1-26
 Daily Drilling Report
 Page Two

2/17/14 Depth 4015'. Cut 42'. DT: None. CT: 15hrs. Dev.: None. **LKC D'**: Ist, f-mxln, chalky, foss, 5% sample pr vug por, lt spotty stain, slsfo, no odor. **LKC F'**: Ist, m-lxln, sl chalky, oolitic, foss, 20% sample gd oolitic to vug por, lt sat stain, gdsfo, gd odor. **DST #2 3993-4015' (LKC D'-F)**: 30-60-60-90. IF: surf blw built to BOB 3mins. ISI: BOB4mins. FF: surf blw built BOB 4mins. FSI built to BOB 15mins. Rec.: 1228'FO, 2236' GIP. HP: 1990-1929. FP: 87/267, 283/434. SIP: 1060-1196. BHT: 129°.

2/18/14 Depth 4115'. Cut 100'. DT: None. CT: 19½ hrs. Dev.: None. **LKC H'**: Ist, fxln sl chalky, sl vug por, 1% sample black spotty stain, slsfo, no odor. **LKC J'**: Ist, fxln, sl foss, pr interxln to vug por, 25% sample lt spotty stain to sat stain, frsfo, gd odor. **DST #3 4045-4109' (LKC H-J)**: 30-60-60-90. IF: surf blw built to BOB 4mins. ISI: BOB 30mins. FF: surf blw built to BOB 4mins. FSI: built to BOB 17mins. Rec.: 1532'FO, 1429'GIP. HP: 2030-1996. FP: 79/237, 263/488. SIP: 1297-1296. BHT: 129°.

2/19/14 Depth 4376'. Cut 261'. DT: None. CT: 9hrs. Dev.: none. **Ft Sc'**: Ist,fxnln, mostly dense, sl chalky, no vis por, 10% sample lt-dk sat stn, SSFO, no odor. **Verdigirs'**: Ist, fxln, dense, foss, no vis por, NS. **DST #4 4320-4376 (Ft Sc-Verd)**: 30-60-30-60. IF: Surf blw built to wk surf. FF: no surf blw. Rec.: 2'M. HP: 2168-2150. FP: 14/16, 17/18. SIP: 37-25. BHT: 123°.

2/20/14 RTD 4543'. Cut 167'. DT: None. CT: 15hrs. Dev.: 1° @ 4543'. HC @ 12:30AM 2/20. WO Loggers.

2/21/14 RTD 4543'. CT: 24 hrs. Approx 7hrs total WO loggers to get to location & truck broke down. Pioneer logged 12:00PM – 4:45PM 2/20. LTD 4542'. Ran 108jts of 5 ½" prod csg, set @ 4537'. Swift cmt w/ 450sxs (250SMD, 200EA-2). PD @ 5:30AM 2/21. 30sxs RH, ___ sxs MH.

2/22/14 RTD: 4543. CT: 2½ hrs. RR @ 9:30AM 2/21/14.

		Schmidt-Vap #1-26 1545' FSL 880' FWL Sec. 26-4S-31W 2911' KB				Gilbert #1-27 2300' FSL 1000' FEL Sec. 27-4S-31W 2914' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2660	+251	-4	2657	+254	-1	2659	+255
B/Anhydrite	2691	+220	-2	2688	+223	+1	2692	+222
Topeka	3722	-811	-3	3721	-810	-2	3722	-808
Heebner	3889	-978	-3	3885	-974	+1	3889	-975
Lansing	3937	-1026	-2	3936	-1025	-1	3938	-1024
Stark	4109	-1198	-7	4103	-1192	-1	4105	-1191
BKC	4160	-1249	-9	4158	-1247	-7	4154	-1240
Pawnee	4268	-1357	-5	4267	-1356	-4	4266	-1352
Cherokee	4354	-1443	-6	4351	-1440	-3	4351	-1437
Mississippi	4473	-1562	-10	4470	-1559	-7	4466	-1552
RTD	4543						4565	
LTD				4542			4565	



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

Invoice

DATE	INVOICE #
2/21/2014	25384

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661
USED FOR <u>IC 103</u>
APPROVED <u>JTR</u> <u>FH</u>

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County <u>Rawlins</u>	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-26	Schmidt-Vap	Decatur		Oil	Development	Cement LongStri...	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	120	Miles	6.00	720.00
579D	Pump Charge - Top To Bottom LongString - 4537 Feet	1	Job	2,000.00	2,000.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
290	D-Air	5	Gallon(s)	42.00	210.00T
403-5	5 1/2" Cement Basket	3	Each	300.00	900.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	275.00	275.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	375.00	375.00T
409-5	5 1/2" Turbolizer	15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher	20	Each	40.00	800.00T
419-5	5 1/2" Rotating Head Rental	1	Each	200.00	200.00T
325	Standard Cement	200	Sacks	14.50	2,900.00T
276	Flocele	50	Lb(s)	2.50	125.00T
283	Salt	1,000	Lb(s)	0.20	200.00T
284	Calseal	10	Sack(s)	35.00	350.00T
285	CFR-1	141	Lb(s)	4.50	634.50T
330	Swift Multi-Density Standard (MIDCON II)	300	Sacks	18.50	5,550.00T
276	Flocele	150	Lb(s)	2.50	375.00T
581D	Service Charge Cement	500	Sacks	2.00	1,000.00
583D	Drayage	3,051.54	Ton Miles	1.00	3,051.54
	Subtotal				21,741.04
	Sales Tax Decatur County			7.15%	1,070.32

We Appreciate Your Business!

Total

\$22,811.36



Services, Inc.

TICKET 25384

PAGE 1 OF 2

CHARGE TO: Meridian Drilling Co.
 ADDRESS:
 CITY, STATE, ZIP CODE:

1. <u>Heaps, KS</u>	WELL/PROJECT NO. <u>1-26</u>	LEASE <u>Schmidt-Lap</u>	COUNTY/PARISH <u>Decatur</u>	STATE <u>KS</u>	CITY	DATE <u>2-21-14</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Co</u>	RIG NAME/NO.	SHIPPED VIA <u>RT</u>	DELIVERED TO <u>N/Reynold, KS</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>oilfield</u>	JOB PURPOSE <u>Cement Logging</u>	WELL PERMIT NO.	WELL LOCATION		
4.	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QUANTITY			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.		
575					MILEAGE # 113	120	mi		600	72000
579					Pump Charge - cont. Top 75 Bottom	1	ea	5537	4.	20000
281					Liquid KCL	4	gal		2500	10000
281					Mud Flush	500	gal		125	62500
280					D-Air	5	gal		4200	21000
403					Cement Baskets	3	ea		30000	90000
406					Latex Drain Plug & Bottle	1	ea		27500	27500
407					Insert Steel Shoe w/ Anchor	1	ea		37500	37500
409					Turbolizers	15	ea		9000	135000
413					Rot Well Sockets	8	ea		5000	80000
519					Rotating Head Bore	1	ea		5000	20000

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

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

X Mark Johnson TIME SIGNED 01:00 P.M.

DATE SIGNED 2-21-14

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	735500
WE UNDERSTOOD AND MET YOUR NEEDS?				2	1418604
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Sub total	8179104
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Operator	107032
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TAX 5%	7.15%
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	22,81136

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

SWIFT OPERATOR Alan Lowman APPROVAL

Thank You!



Seawind, Inc.

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

TICKET CONTINUATION

TICKET No. 253821

CUSTOMER
Miss Ann D'Ag Co

WELL
7-26 Schwab & Loh

DATE
2-21-14

PAGE 2 158

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT
		LOG	ACCT	DE			QTY	UM	QTY	UM		
285						Standard Cement FH-2	200	SKS	18820	lbs	1450	292000
276						Flacite 1/4 * /sk	50	lbs			2150	107500
283						Saef 10%	1000	lbs			20	20000
284						Calsteel 5%	990	lbs	12	SKS	3500	33500
285						CFE 1 3/4%	141	lbs			4150	63450
330						5WD Cement	300	SKS	29720	lbs	1850	555000
276						Flacite 1/2 * /sk	150	lbs			250	37500
581						SERVICE CHARGE Cement					200	100000
583						MILEAGE TOTAL WEIGHT-165 CHANGE 50859 165					100	305154
							CUBIC FEET	500	SKS			
							LOADED MILES	120				
							TON MILES					
CONTINUATION/TOTAL												14186.04

JOB LOG

SWIFT Services, Inc.

DATE 2-21-14 PAGE NO. 1

CUSTOMER Merrill Dale G WELL NO. LEASE JOB TYPE Concut Longstring TICKET NO. 25384

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0050					15.5 [#]	5 1/2	TD 4543 On location - early 20min Rig ready to run casing
	0050							Start 5 1/2" 15.5 [#] /ft casing to 4537' Insert Float Shoe L/Auto Pull L.D. Baffle - SJ - 21' - 4516' = 107 1/2' Cent. / through 11-16-17-45-60 Circ #60 - Cant Bashed 18-46-61 100' Rot Wall Sinterbees Drop Ball - up ball 5 JTs out Fin run casing
	0205							St. circ / Rotate Fin circ - Plug RT / MHT - (30/120)
	0310	5	12				400	Pump MF-500 gal
	0320	6	20				450	Pump KCL flush
	0400		9/6				400	Start SMD cont @ 11.2/gal
							300	Start LK-2 cont
							Woe	Fin cont - Wash out Pump / Lines Drop Plug
		9 1/2					300	Start Desol - BBI KCL
		9 1/2	50				400	Caught with press
		9 1/8	80				900	slow rate
		7	90				1000	slow rate out circ
		6 1/2	100				1200	slow rate
		6 1/2	105				1500	"
	0530		107 1/2				2100	Plug Down - Hold - Release - 7 Hold. Job Complete
								Wash up & Pack up rigs
								30 SKS SMD Cont circulate to RT

[Signature]
 Dan, Jon, Bob
 & Isaac



PO Box 93999
Southlake, TX 76092

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

acct. Prod-LH

INVOICE

Invoice Number: 141384
Invoice Date: Feb 12, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Murfin	62559	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 12, 2014	3/14/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Schmidt Vap #1-26		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
7.00	CEMENT MATERIALS	Chloride	64.00	448.00
205.43	CEMENT SERVICE	Cubic Feet Charge	2.48	509.47
468.80	CEMENT SERVICE	Ton Mileage Charge	2.60	1,218.88
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
50.00	CEMENT SERVICE	Pump Truck Mileage	7.70	385.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
50.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	220.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		

DJ

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

\$ 2,822.12 *gn*

ONLY IF PAID ON OR BEFORE

Mar 9, 2014

Subtotal	8,063.20
Sales Tax	311.47
Total Invoice Amount	8,374.67
Payment/Credit Applied	
TOTAL	8,374.67

- 2822.12

5552.55

ALLIED OIL & GAS SERVICES, LLC 062559

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, Ky

DATE <u>7/16/14</u>	SEQ <u>26</u>	TWP <u>4</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00</u>	JOB FINISH <u>12:30</u>
LEASE <u>Schmitt - V40</u>	WELL# <u>1-26</u>	LOCATION <u>Restford 7N1E8W 3W 50ths</u>			COUNTY <u>Franklin</u>	STATE <u>Ky</u>	

OLD OR NEW (Circle one)

CONTRACTOR Murphy # 2 OWNER Gene

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>226.2</u>	CEMENT	
CASING SIZE <u>8 5/8</u>	DEPTH <u>226.2</u>	AMOUNT ORDERED	<u>1900 300CC 200 gal</u>
TUBING SIZE	DEPTH		
DRILL PIPE	DEPTH		
TOOL	DEPTH		
PRES. MAX	MINIMUM	COMMON	<u>190 @ 1700 2401</u>
MEAS. LINE	SHOE JOINT	POZMIX	<u>@ 23 40 2300</u>
CEMENT LEFT IN CSG. <u>15'</u>		GEL	<u>@ 64 00 448</u>
PERFS.		CHLORIDE	<u>@ 7</u>
DISPLACEMENT <u>13.44</u>		ASC	<u>@</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Alan Ryan</u>		
<u>912-281</u>	HELPER <u>Kevin Ryan</u>		
BULK TRUCK			
<u># 388</u>	DRIVER <u>Tim T (two)</u>		
BULK TRUCK			
#	DRIVER		

HANDLING 205.433 CF @ 2.40 509.42
MILEAGE 9.37670 W @ 12.10 113.87

REMARKS:
Per City, Concrete replacement displacement
Start on
Concrete bed Concrete
Tim T
Alan Ryan, Tim

CHARGE TO: Mud Fracking Co
STREET _____
CITY _____ STATE _____ ZIP _____

TOTAL 5670.35

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>15 625</u>
EXTRA FOOTAGE	@	
MILEAGE <u>50</u>	@ <u>2.20</u>	<u>110</u>
MANIFOLD <u>50</u>	@ <u>4.30</u>	<u>215</u>

TOTAL 2392.25

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL _____

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

PRINTED NAME Arturo Cabero
SIGNATURE Arturo Cabero

SALES TAX (If Any) _____
TOTAL CHARGES 8,063.20
DISCOUNT 2,822.12 IF PAID IN 30 DAYS
5,241.08 Net.