



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1083071
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: _____

1083071

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

June 01, 2012

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

Re: ACO1
API 15-193-20841-00-00
Schertz 1-28
NW/4 Sec.28-10S-34W
Thomas County, Kansas

Dear Production Department:

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

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

Respectfully,
Leon Rodak

	MDCI Schertz #1-28 2077' FNL 963' FWL Sec. 28-T10S-R34W 3209' KB						MDCI Urban #1-28 1700' FSL 2150' FEL Sec. 28-T10S-R34W 3204' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2717	+492	-16	2707	+500	-8	2696	+508
B/Anhydrite	2750	+459	-21	2737	+472	-8	2724	+480
Topeka	3878	-669	-4	3872	-663	+2	3869	-665
Heebner	4096	-887	-3	4088	-879	+5	4088	-884
Lansing	4136	-927	-3	4131	-922	+2	4128	-924
Stark	4361	-1152	-3	4356	-1147	+2	4353	-1149
Pawnee	4558	-1349	-1	4550	-1341	+7	4552	-1348
Lwr Pawn	4596	-1387	-3	4585	-1376	+8	4588	-1384
Fort Scott	4614	-1405	-3	4604	-1395	+7	4606	-1402
Johnson Zn	4684	-1475	-2	4678	-1469	+4	4677	-1473
Mississippi	4776	-1567	-20	4769	-1560	-13	4751	-1547
RTD	4840						4820	
LTD				4832				

Thomas J. Funk
Petroleum Geologist

**Geologists Report
Drilling Time and Sample Log**

OPERATOR **Murfin Drilling Co., Inc**
LEASE **Schertz**
WELL NO **#1-28**

FIELD **Wildcat**
LOCATION **2077' FNL & 963' FWL**
SEC. **28** TWP. **10S** RGE. **34W**
COUNTY **Thomas** STATE **Kansas**

ELEVATION
KB **3209**
DF
GL **3196**
Measurements Are All From **KB**

CONTRACTOR **Murfin Dng Co** Rig #25
COMM **2/25/2012** COMP **3/7/2012**
RTD **4940** LOG TD **4932**
SAMPLES SAVED FROM **3800** TO TD
DRILLING TIME KEPT FROM **3900** TO TD
SAMPLES EXAMINED FROM **3900** TO TD

SECTIOAL SUPERVISION FROM **3985** TO TD
MUD UP **3500** TYPE MUD **Chemical**

FORMATION	LOG TOP DATUM	SAMPLE TOP DATUM	STRUCT COMP
Anyndite	2709 (-4500)	2717 (-4482)	-7
B/Anyndite	2737 (-4472)	2750 (-4459)	-8
Topoka Sh	3872 (-863)	3878 (-869)	+2
Healdene Sh	4088 (-879)	4096 (-887)	+5
Lansing	4131 (-922)	4136 (-927)	+2
Murde Creek	4271 (-1062)	4276 (-1067)	+1
Stark Sh	4356 (-1147)	4361 (-1152)	+2
Marmaton	4442 (-1233)	4450 (-1241)	+7
Pawnee	4550 (-1341)	4558 (-1349)	+7
Cherokee Sh	4634 (-1425)	4694 (-1493)	+5
Johnson Zone	4678 (-1469)	4684 (-1475)	+4
Mississippi	4769 (-1560)	4776 (-1567)	+3

ELECTRICAL SURVEYS
Log-Tech
DIL
MEL
CNL/CDL
BHCS



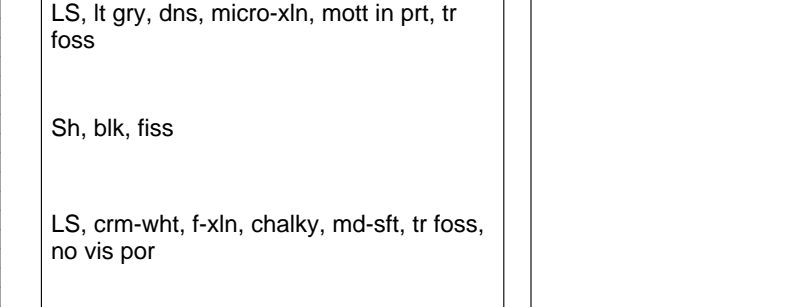
REFERENCE WELL FOR STRUCTURAL COMPARISON: Murfin Dng Co, #1-28 Urban
7700' FSL & 2150' FEL sec. 28-10S-34W, Thomas Co, KS

Daily Progress	NO	Size	Make	Type	Depth Out	Feet	Hours
2/28/12	1	12 1/4"	GMS	RR	235	235	2 1/2
2/28/12	2	7 7/8"	Smith	MS1616	3626	3391	75 3/4
2/28/12	3	7 7/8"	HTC	GX22s	4940	1214	58 1/2
2/29/12							
3/1/12							
3/2/12							
3/3/12							
3/4/12							
3/5/12							
3/6/12							

Remarks And Recommendations:
Based upon log analysis, DST recovery, and sample examination, it was decided to run production casing in the #1-28 Schertz for further testing.
Thomas Funk
Petroleum Geologist

Note: Logs tops are approximately 6-8 feet shallow to sample tops.

LEGEND



Lithology

Depth
DRILLING TIME IN MINUTES PER FOOT
Sample Descriptions
Remarks

Deviation Surveys:
1.0 deg @ 235'
0.6 deg @ 1006'
1.1 deg @ 2025'
2.7 deg @ 3001'
1.1 deg @ 3626'
1.2 deg @ 4620'
0.3 deg @ 4840' TD

DST #1 4272-4340
30"-60"-60"-90"
Blow built to 5 inches on IFP
Blow built to BOB in 32" on FFP
REC:
60' MCW (90%w, 10% m)
380' SW (50,000 ppm chis)
440' Total Fluid
IFP 22-91 ISIP 1288
IFP 93-219 FSIP 1281
IHP 2136 FHP 1962
Temp: 123 deg F

DST #2 4358-4385
30"-60"-60"-90"
Blow built to BOB in 26" on FFP
Blow built to BOB in 33" on FFP
REC:
93' WCM (40%w, 60% m)
287' MCW (70%w, 30% m)
380' Total Fluid
IFP 21-95 ISIP 1343
FFP 90-205 FSIP 1295
IHP 2226 FHP 2165
Temp: 125 deg F
Chis: 50,000 ppm

DST #3 4580-4620
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #4 4662-4720
30"-60"-60"-90"
Blow built to 2 1/2 inches on IFP
Blow built to 2 1/2 inches on FFP
REC:
80' OCM (10%o, 90% m)
IFP 18-33 ISIP 863
FFP 35-53 FSIP 868
IHP 2315 FHP 2242
Temp: 123 deg F

DST #5 4769-4840
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #6 4862-4940
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #7 4932-5012
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #8 5012-5092
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #9 5092-5172
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #10 5172-5252
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #11 5252-5332
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #12 5332-5412
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #13 5412-5492
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #14 5492-5572
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #15 5572-5652
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #16 5652-5732
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #17 5732-5812
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #18 5812-5892
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #19 5892-5972
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #20 5972-6052
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #21 6052-6132
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #22 6132-6212
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #23 6212-6292
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #24 6292-6372
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #25 6372-6452
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #26 6452-6532
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #27 6532-6612
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #28 6612-6692
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #29 6692-6772
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #30 6772-6852
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #31 6852-6932
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #32 6932-7012
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #33 7012-7092
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #34 7092-7172
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #35 7172-7252
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #36 7252-7332
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #37 7332-7412
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #38 7412-7492
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #39 7492-7572
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #40 7572-7652
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #41 7652-7732
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #42 7732-7812
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #43 7812-7892
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #44 7892-7972
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #45 7972-8052
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #46 8052-8132
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #47 8132-8212
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #48 8212-8292
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #49 8292-8372
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #50 8372-8452
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #51 8452-8532
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #52 8532-8612
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #53 8612-8692
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #54 8692-8772
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #55 8772-8852
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #56 8852-8932
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #57 8932-9012
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #58 9012-9092
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #59 9092-9172
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #60 9172-9252
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-23 ISIP 1086
FFP 24-26 FSIP 1067
IHP 2301 FHP 2174
Temp: 119 deg F

DST #61 9252-9332
30"-60"-60"-90"
Blow built to 1 inch on IFP
No blow on FFP
REC:
30' Mud
IFP 20-2



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202-1216

ATTN: Tom Funk

Schertz #1-28

28-10s-34w Thomas,KS

Start Date: 2012.03.03 @ 10:00:00

End Date: 2012.03.03 @ 19:48:30

Job Ticket #: 45074 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 15:53:18



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45074

DST#: 1

ATTN: Tom Funk

Test Start: 2012.03.03 @ 10:00:00

GENERAL INFORMATION:

Formation: **Kansas City " H-I "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 13:21:15
 Tester: Jace McKinney
 Time Test Ended: 19:48:30
 Unit No: 46
 Interval: **4272.00 ft (KB) To 4340.00 ft (KB) (TVD)**
 Reference Elevations: 3209.00 ft (KB)
 Total Depth: 4340.00 ft (KB) (TVD)
 3196.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 13.00 ft

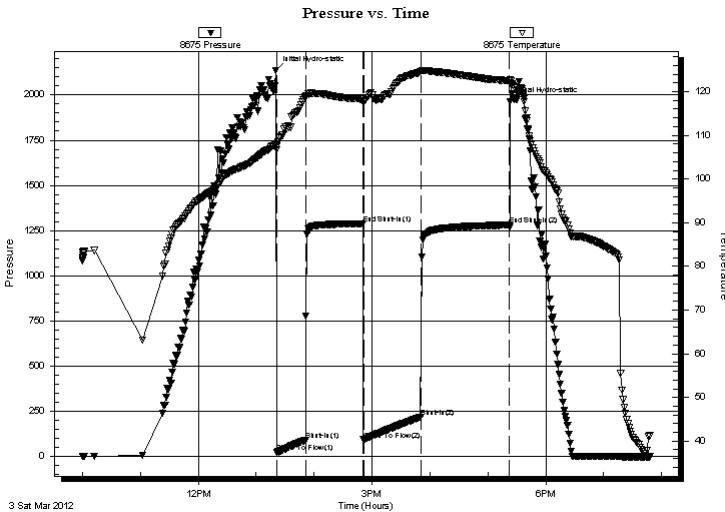
Serial #: 8675

Inside

Press @ Run Depth: 219.37 psig @ 4273.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.03 End Date: 2012.03.03 Last Calib.: 2012.03.03
 Start Time: 10:00:01 End Time: 19:48:30 Time On Btm: 2012.03.03 @ 13:20:15
 Time Off Btm: 2012.03.03 @ 17:23:00

TEST COMMENT: Built to 5" blow
 No return blow
 B.O.B. in 32 min.
 Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.12	107.90	Initial Hydro-static
1	21.83	106.67	Open To Flow (1)
31	90.82	118.72	Shut-In(1)
91	1287.60	118.29	End Shut-In(1)
91	92.65	117.78	Open To Flow (2)
151	219.37	124.54	Shut-In(2)
243	1280.57	122.54	End Shut-In(2)
243	1962.10	122.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 10%M 90%W	0.84
380.00	w 100%W	5.33

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45074

DST#: 1

ATTN: Tom Funk

Test Start: 2012.03.03 @ 10:00:00

Tool Information

Drill Pipe:	Length: 4260.90 ft	Diameter: 3.80 inches	Volume: 59.77 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.90 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4272.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4253.00	
Shut In Tool	5.00			4258.00	
Hydraulic tool	5.00			4263.00	
Packer	5.00			4268.00	20.00 Bottom Of Top Packer
Packer	4.00			4272.00	
Stubb	1.00			4273.00	
Recorder	0.00	8675	Inside	4273.00	
Recorder	0.00	8650	Outside	4273.00	
Perforations	30.00			4303.00	
Change Over Sub	1.00			4304.00	
Drill Pipe	32.00			4336.00	
Change Over Sub	1.00			4337.00	
Bullnose	3.00			4340.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45074

DST#: 1

ATTN: Tom Funk

Test Start: 2012.03.03 @ 10:00:00

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcw 10%M 90%W	0.842
380.00	w 100%W	5.330

Total Length: 440.00 ft Total Volume: 6.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .20 @ 50 F = 50,000



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202-1216

ATTN: Tom Funk

Schertz #1-28

28-10s-34w Thomas,KS

Start Date: 2012.03.04 @ 05:45:00

End Date: 2012.03.04 @ 14:11:30

Job Ticket #: 45075 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.03.08 @ 15:52:25

Murfin Drilling Company

28-10s-34w Thomas,KS

Schertz #1-28

DST # 2

Kansas City " K "

2012.03.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45075

DST#: 2

ATTN: Tom Funk

Test Start: 2012.03.04 @ 05:45:00

GENERAL INFORMATION:

Formation: **Kansas City " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:58:30

Time Test Ended: 14:11:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4358.00 ft (KB) To 4385.00 ft (KB) (TVD)

Reference Elevations: 3209.00 ft (KB)

Total Depth: 4385.00 ft (KB) (TVD)

3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8675

Inside

Press @ RunDepth: 205.03 psig @ 4359.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.04

End Date:

2012.03.04

Last Calib.: 2012.03.04

Start Time: 05:45:01

End Time:

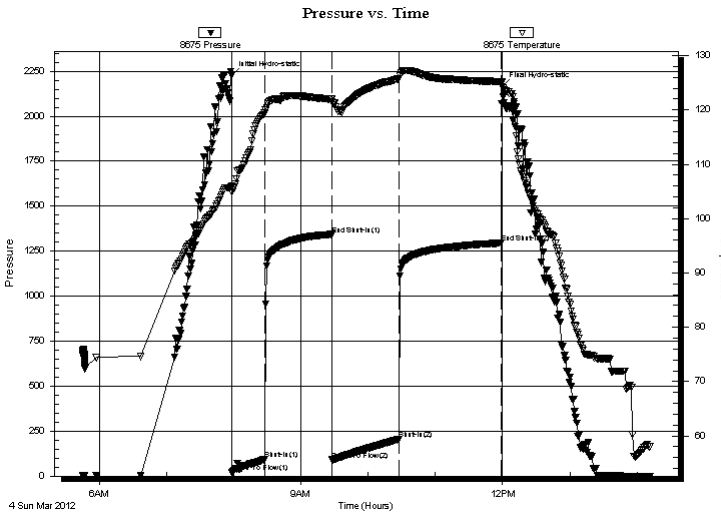
14:11:30

Time On Btm: 2012.03.04 @ 07:58:15

Time Off Btm: 2012.03.04 @ 11:59:30

TEST COMMENT: B.O.B. in 26 min.
Bled off for 5 min. No return blow
B.O.B. in 33 min.
Bled off for 5 min. No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.65	105.93	Initial Hydro-static
1	21.42	104.93	Open To Flow (1)
30	95.25	119.43	Shut-In(1)
89	1343.21	121.96	End Shut-In(1)
90	90.18	121.46	Open To Flow (2)
149	205.03	125.74	Shut-In(2)
241	1295.19	125.22	End Shut-In(2)
242	2164.81	124.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	w cm 40%W 60%M	1.30
287.00	mcw 30%M 70%W	4.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45075

DST#: 2

ATTN: Tom Funk

Test Start: 2012.03.04 @ 05:45:00

Tool Information

Drill Pipe:	Length: 4354.95 ft	Diameter: 3.80 inches	Volume: 61.09 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 61.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.95 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4358.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4339.00	
Shut In Tool	5.00			4344.00	
Hydraulic tool	5.00			4349.00	
Packer	5.00			4354.00	20.00 Bottom Of Top Packer
Packer	4.00			4358.00	
Stubb	1.00			4359.00	
Recorder	0.00	8675	Inside	4359.00	
Recorder	0.00	8650	Outside	4359.00	
Perforations	23.00			4382.00	
Change Over Sub	0.00			4382.00	
Drill Pipe	0.00			4382.00	
Change Over Sub	0.00			4382.00	
Bullnose	3.00			4385.00	27.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45075

DST#: 2

ATTN: Tom Funk

Test Start: 2012.03.04 @ 05:45:00

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: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	w cm 40%W 60%M	1.305
287.00	mcw 30%M 70%W	4.026

Total Length: 380.00 ft Total Volume: 5.331 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .15 @ 65 F = 50,000

Serial #: 8675

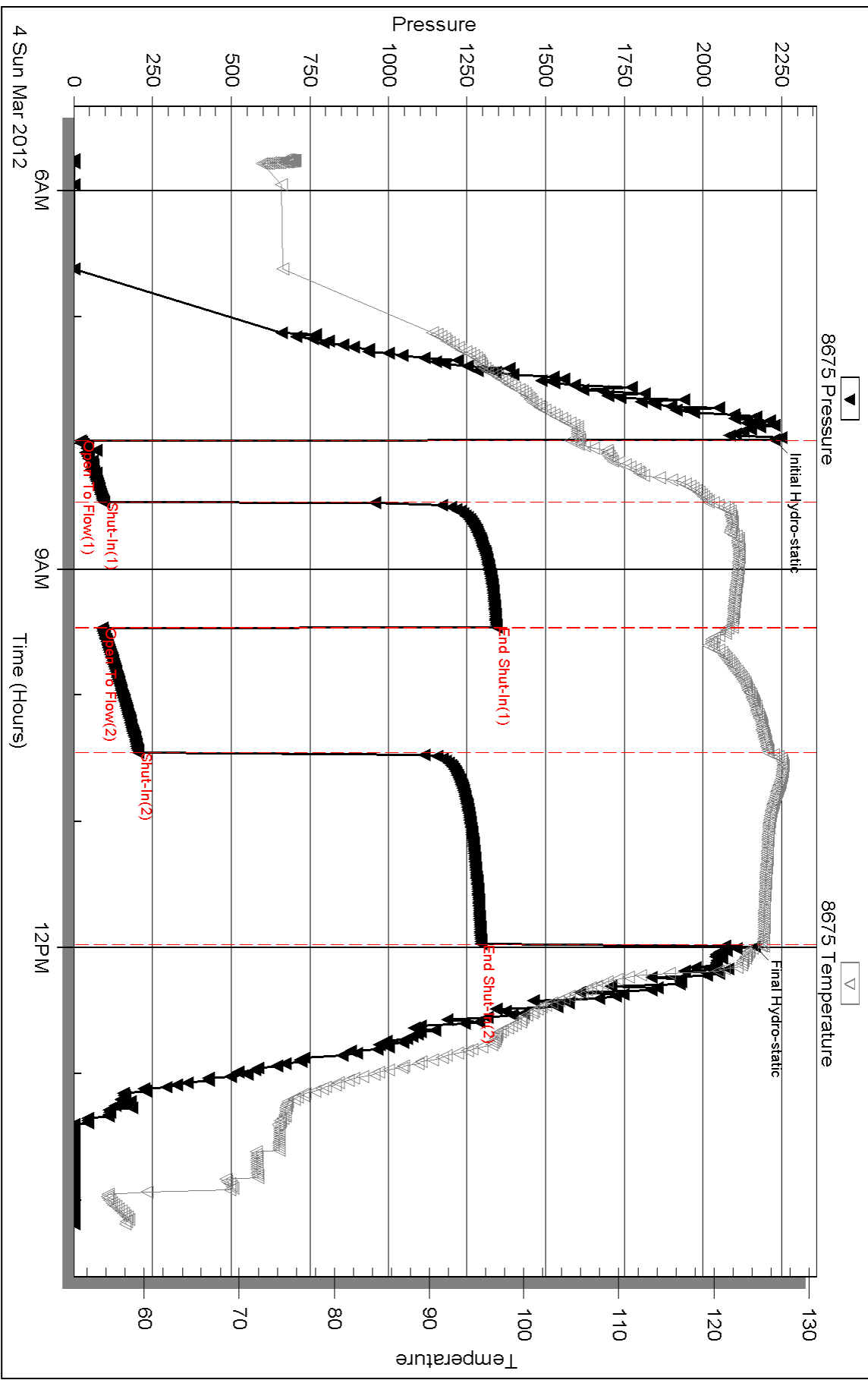
Inside

Murfin Drilling Company

Schertz #1-28

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45075

Printed: 2012.03.08 @ 15:52:29



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202-1216

ATTN: Tom Funk

Schertz #1-28

28-10s-34w Thomas,KS

Start Date: 2012.03.05 @ 11:10:00

End Date: 2012.03.05 @ 18:10:15

Job Ticket #: 45926 DST #: 3

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

Printed: 2012.03.08 @ 15:50:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45926

DST#: 3

ATTN: Tom Funk

Test Start: 2012.03.05 @ 11:10:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:10:30

Time Test Ended: 18:10:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4580.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 3209.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 25.56 psig @ 4581.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.05

End Date:

2012.03.05

Last Calib.: 2012.03.05

Start Time: 11:10:01

End Time:

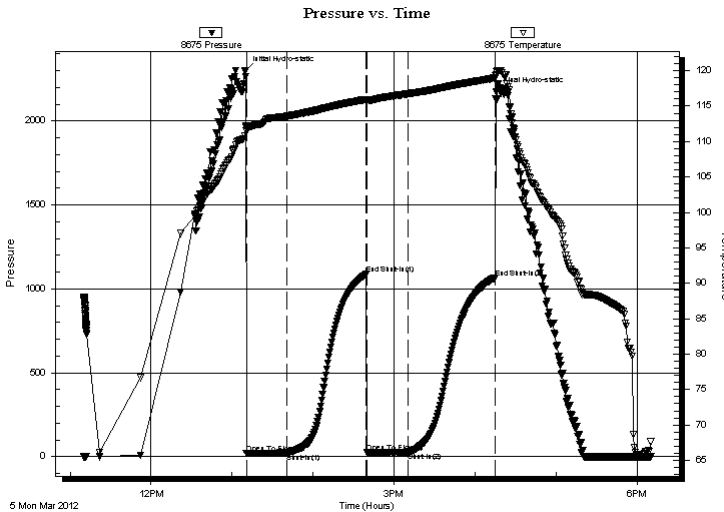
18:10:15

Time On Btm: 2012.03.05 @ 13:10:15

Time Off Btm: 2012.03.05 @ 16:15:30

TEST COMMENT: Built to 1" blow
No return blow
No blow
No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2301.06	112.19	Initial Hydro-static
1	19.75	111.55	Open To Flow (1)
30	23.36	113.57	Shut-In(1)
89	1086.32	115.94	End Shut-In(1)
90	24.39	115.66	Open To Flow (2)
120	25.56	116.71	Shut-In(2)
185	1067.30	118.96	End Shut-In(2)
186	2173.68	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	100%M	0.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45926

DST#: 3

ATTN: Tom Funk

Test Start: 2012.03.05 @ 11:10:00

Tool Information

Drill Pipe:	Length: 4575.77 ft	Diameter: 3.80 inches	Volume: 64.19 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 64.19 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.77 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4580.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4561.00	
Shut In Tool	5.00			4566.00	
Hydraulic tool	5.00			4571.00	
Packer	5.00			4576.00	20.00 Bottom Of Top Packer
Packer	4.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	8675	Inside	4581.00	
Recorder	0.00	8650	Outside	4581.00	
Perforations	36.00			4617.00	
Change Over Sub	0.00			4617.00	
Drill Pipe	0.00			4617.00	
Change Over Sub	0.00			4617.00	
Bullnose	3.00			4620.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company
250 N Water STE 300
Wichita KS 67202-1216
ATTN: Tom Funk

28-10s-34w Thomas,KS
Schertz #1-28
Job Ticket: 45926 **DST#: 3**
Test Start: 2012.03.05 @ 11:10:00

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 8800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	100%M	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

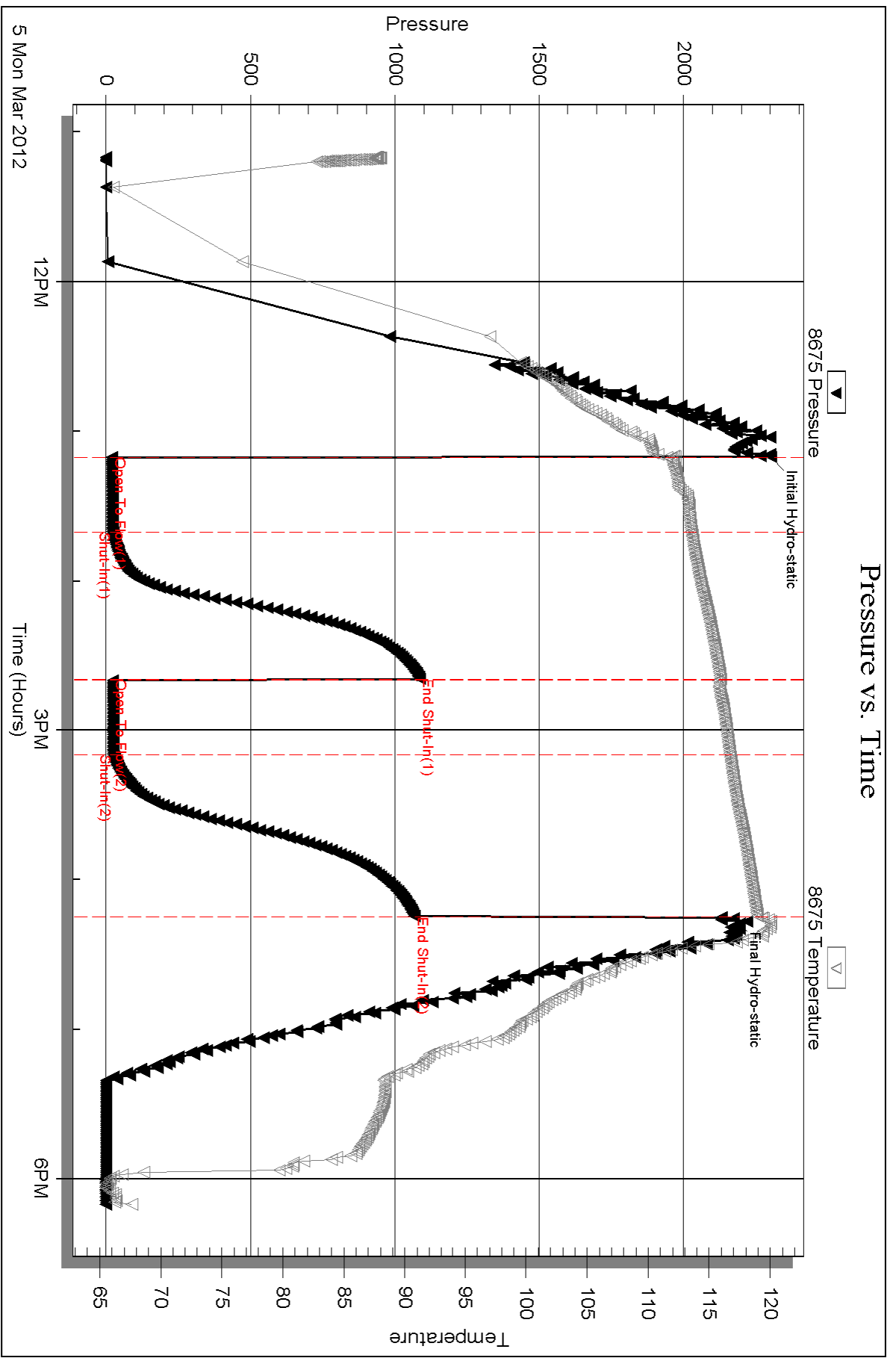
Serial #: 8675

Inside

Murfin Drilling Company

Schertz #1-28

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45926

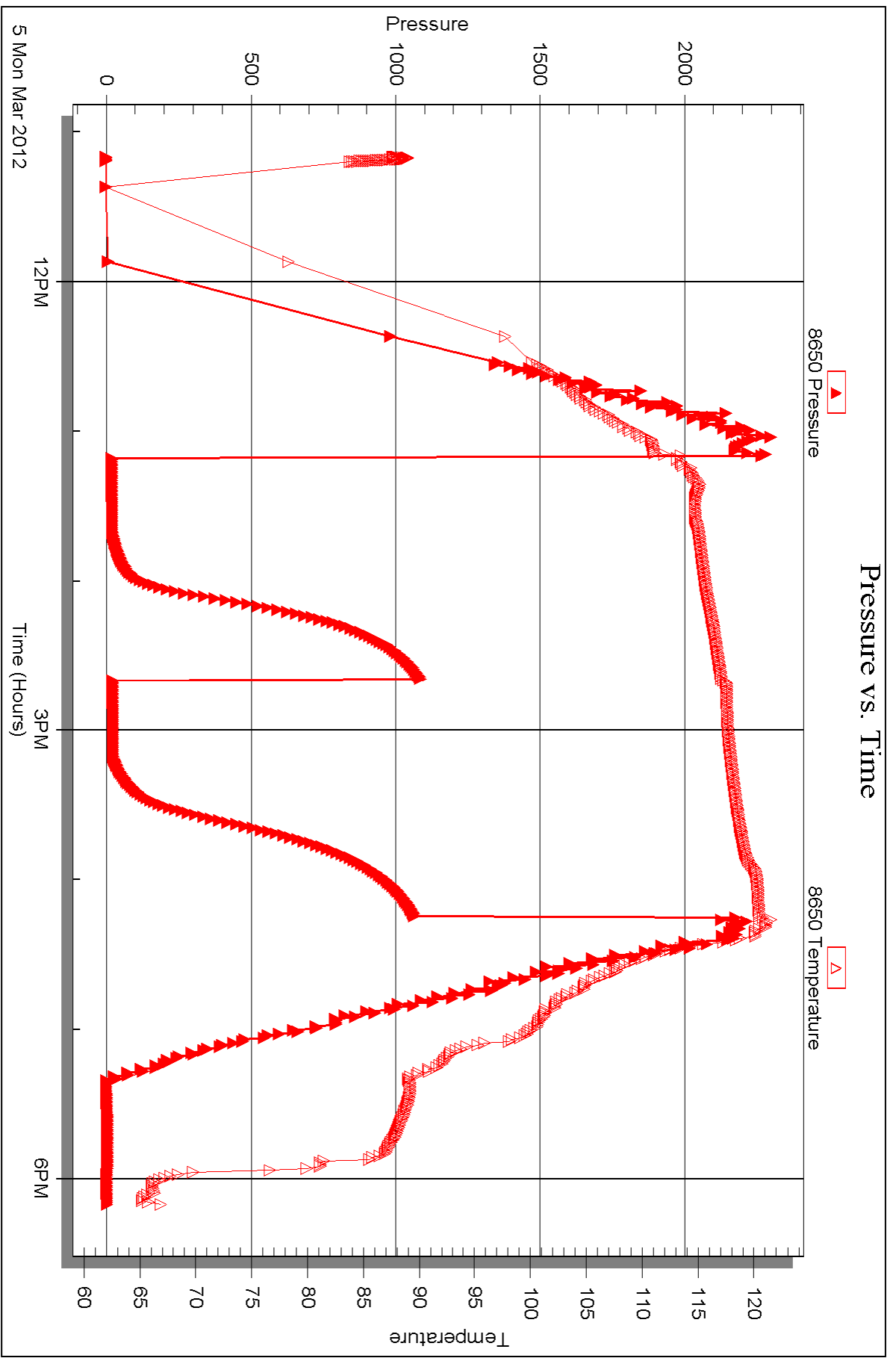
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Serial #: 8650

Outside Murfin Drilling Company

Schertz #1-28

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45926

Printed: 2012.03.08 @ 15:51:02



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water STE 300
Wichita KS 67202-1216

ATTN: Tom Funk

Schertz #1-28

28-10s-34w Thomas,KS

Start Date: 2012.03.06 @ 05:15:00

End Date: 2012.03.06 @ 13:29:58

Job Ticket #: 45927 DST #: 4

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

Printed: 2012.03.08 @ 15:40:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N Water STE 300
Wichita KS 67202-1216
ATTN: Tom Funk

28-10s-34w Thomas,KS

Schertz #1-28

Job Ticket: 45927

DST#: 4

Test Start: 2012.03.06 @ 05:15:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:46:43
 Time Test Ended: 13:29:58
 Interval: **4662.00 ft (KB) To 4720.00 ft (KB) (TVD)**
 Total Depth: 4720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 46
 Reference Elevations: 3209.00 ft (KB)
 3196.00 ft (CF)
 KB to GR/CF: 13.00 ft

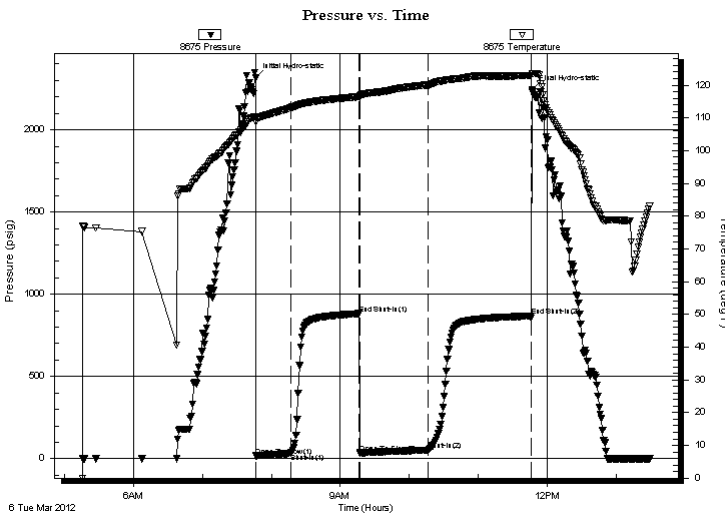
Serial #: 8675

Inside

Press @ Run Depth: 52.53 psig @ 4663.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.03.06 End Date: 2012.03.06 Last Calib.: 2012.03.06
 Start Time: 05:15:34 End Time: 13:29:58 Time On Btm: 2012.03.06 @ 07:46:28
 Time Off Btm: 2012.03.06 @ 11:47:13

TEST COMMENT: Built to 2 1/2" blow
 No return blow
 Built to 2 1/2" blow
 No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.51	110.32	Initial Hydro-static
1	18.05	108.75	Open To Flow (1)
31	32.56	113.05	Shut-In(1)
90	882.55	116.48	End Shut-In(1)
91	35.42	116.30	Open To Flow (2)
151	52.53	119.91	Shut-In(2)
240	867.97	122.93	End Shut-In(2)
241	2241.53	123.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	ocm 10%O 90%M	1.12

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45927

DST#: 4

ATTN: Tom Funk

Test Start: 2012.03.06 @ 05:15:00

Tool Information

Drill Pipe:	Length: 4669.24 ft	Diameter: 3.80 inches	Volume: 65.50 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 65.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.24 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4662.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	78.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4643.00	
Shut In Tool	5.00			4648.00	
Hydraulic tool	5.00			4653.00	
Packer	5.00			4658.00	20.00 Bottom Of Top Packer
Packer	4.00			4662.00	
Stubb	1.00			4663.00	
Recorder	0.00	8675	Inside	4663.00	
Recorder	0.00	8650	Outside	4663.00	
Perforations	20.00			4683.00	
Change Over Sub	1.00			4684.00	
Drill Pipe	32.00			4716.00	
Change Over Sub	1.00			4717.00	
Bullnose	3.00			4720.00	58.00 Bottom Packers & Anchor

Total Tool Length: 78.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

28-10s-34w Thomas,KS

250 N Water STE 300
Wichita KS 67202-1216

Schertz #1-28

Job Ticket: 45927

DST#: 4

ATTN: Tom Funk

Test Start: 2012.03.06 @ 05:15:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	ocm 10%O 90%M	1.122

Total Length: 80.00 ft Total Volume: 1.122 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

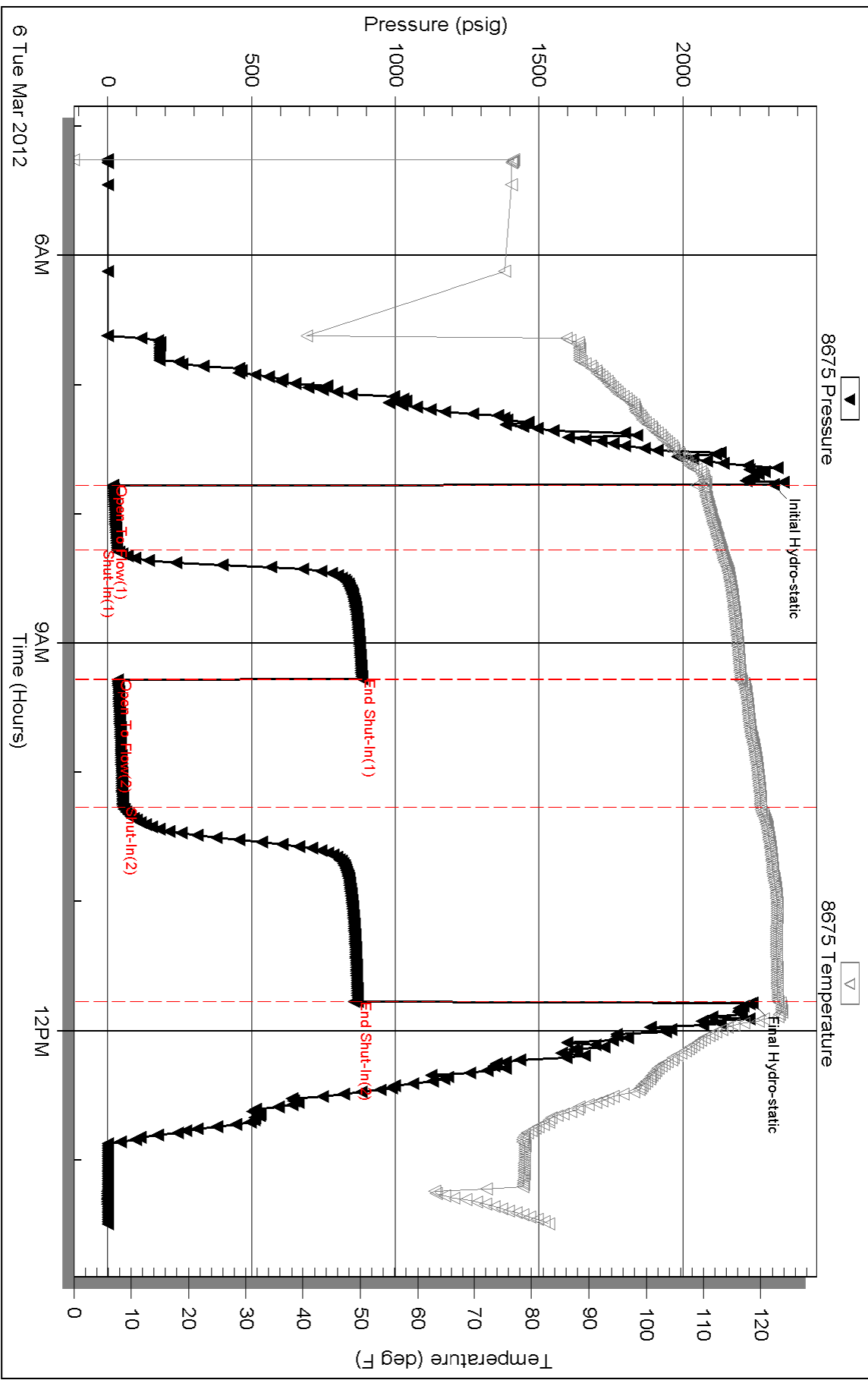
Inside

Murfin Drilling Company

Schertz #1-28

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45927

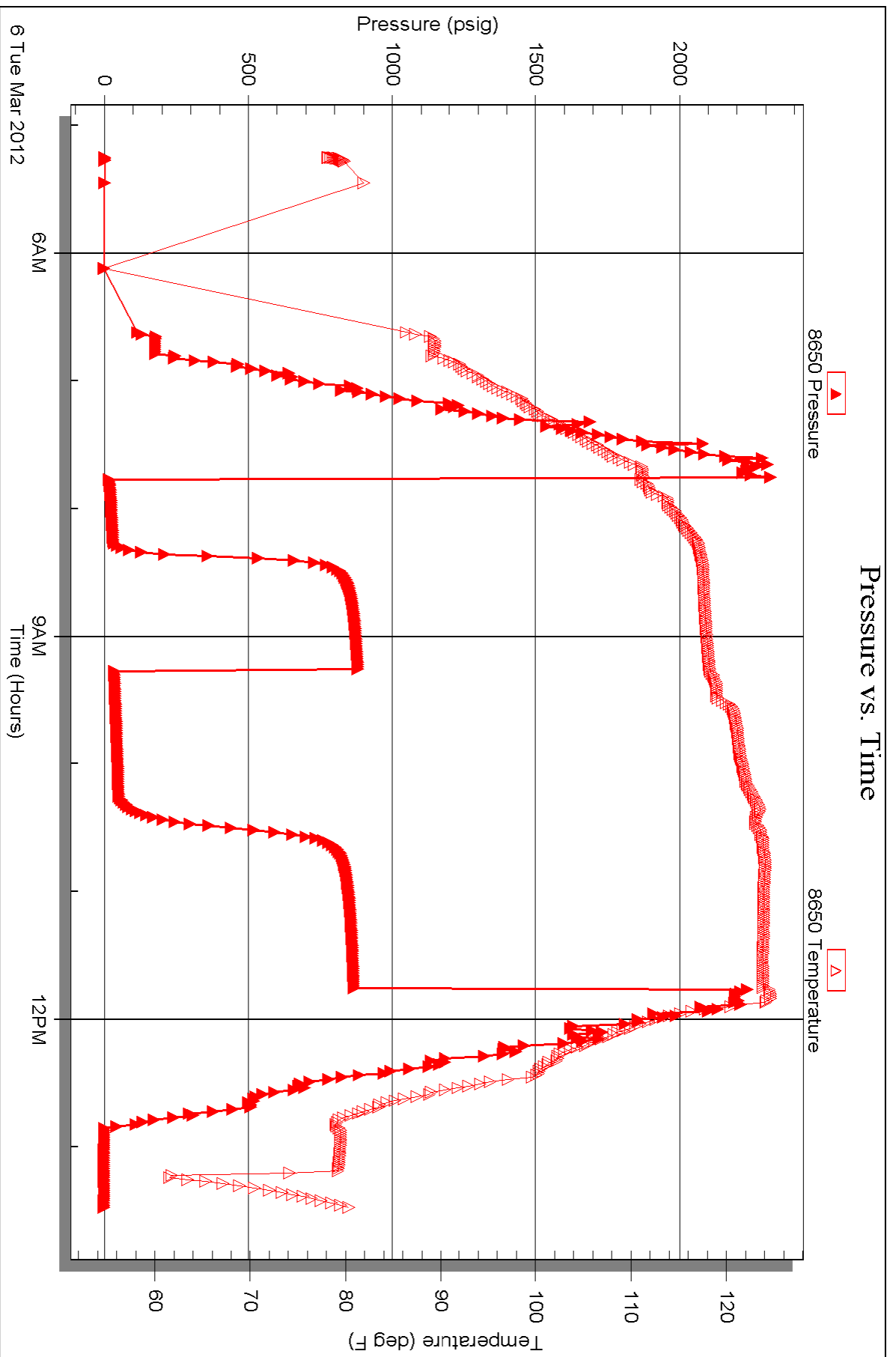
Printed: 2012.03.08 @ 15:40:22

Serial #: 8650

Outside Murfin Drilling Company

Schertz #1-28

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 45927

Printed: 2012.03.08 @ 15:40:23



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 07 2012

Test Ticket

NO. 45074

BY: _____

Well Name & No. Schertz 1-28 Test No. 1 Date 3/3/12
 Company Martin Drilling Company Inc Elevation 3209 KB 3196 GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Martin 25
 Location: Sec. 28 Twp. 10S Rge. 34w Co. Thomas State KS

Interval Tested 4272 - 4340 Zone Tested Kansas City "H-I"
 Anchor Length 68 Drill Pipe Run 4260 Mud Wt. 9.1
 Top Packer Depth 4268 Drill Collars Run 0 Vis 44
 Bottom Packer Depth 4272 Wt. Pipe Run 0 WL 8.0
 Total Depth 4340 Chlorides 9,400 ppm System LCM 8#
 Blow Description Built to 5" below
No return below
B.O.B. in 32 mins.

Bled off for 5 mins. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>mcw</u>		<u>90</u>	<u>10</u>	
<u>380</u>	<u>w</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 440 BHT 123 Gravity — API RW 0.28 @ 50 ° F Chlorides 50,000 ppm

- (A) Initial Hydrostatic 2,136
- (B) First Initial Flow 22
- (C) First Final Flow 91
- (D) Initial Shut-In 1,188
- (E) Second Initial Flow 93
- (F) Second Final Flow 219
- (G) Final Shut-In 1,281
- (H) Final Hydrostatic 1,962

- Test 1225
- Jars
- Safety Joint n/c wrong thing
- Circ Sub n/c
- Hourly Standby 2 3/4 hrs 275
- Mileage 132 RT 184.80
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

- T-On Location 7:00
- T-Started 10:00
- T-Open 13:21
- T-Pulled 17:22
- T-Out 19:49

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 6
- Total 1684.80
- MP/DST Disc't

Approved By [Signature] Our Representative [Signature]
 Sub Total 1684.80

TriLOBite Testing Inc. shall not be liable for damages 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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED Test Ticket

MAR 07 2012

NO. 45075

BY: _____

Well Name & No. Schertz 1-28 Test No. 2 Date 3/4/12
 Company Marlin Drilling Company Inc Elevation 3209 KB 3196 GL
 Address 250 N Water STE 300 Wichita KS 67202 - 1216
 Co. Rep / Geo. Tom Funk Rig Marlin 25
 Location: Sec. 28 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4358 - 4385 Zone Tested Kansas City "K"
 Anchor Length 27 Drill Pipe Run 4354 Mud Wt. 9.2
 Top Packer Depth 4354 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 4358 Wt. Pipe Run 0 WL 6.8
 Total Depth 4385 Chlorides 8,000 ppm System LCM 6#

Blow Description B.O.B. in 26min.
Bled off for 5 mins. No return below
B.O.B. in 33min.
Bled off for 5 mins. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</u>	<u>Feet of wcm</u>			<u>40</u>	<u>60</u>
<u>287</u>	<u>Feet of MCW</u>			<u>70</u>	<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

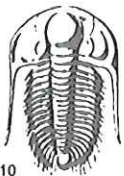
Rec Total 380 BHT 125 Gravity _____ API RW .15 @ 165 °F Chlorides 50,000 ppm

(A) Initial Hydrostatic 2,226 Test 1225' T-On Location 4:40
 (B) First Initial Flow 21 Jars _____ T-Started 5:45
 (C) First Final Flow 95 Safety Joint _____ T-Open 7:58
 (D) Initial Shut-In 1,343 Circ Sub w/c T-Pulled 11:58
 (E) Second Initial Flow 90 Hourly Standby _____ T-Out 14:11
 (F) Second Final Flow 205 Mileage 132 RT 184.80 Comments _____
 (G) Final Shut-In 1,295 Sampler _____
 (H) Final Hydrostatic 2,165 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer 320

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 320
 Final Flow 60 Day Standby _____ Total 1729.80
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1409.80

Approved By [Signature] 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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 07 2012

Test Ticket

NO. 45926

4/10

Well Name & No. Schertz 1-28 Test No. 3 Date 3/5/12
 Company Murfin Drilling Company Inc Elevation 3209 KB 3196 GL
 Address 250 W Water STE 300 Wichita KS 67202 - 1216
 Co. Rep / Geo. Tom Funk Rig Murfin 25
 Location: Sec. 28 Twp. 10s Rge. 34w Co. Thomas State KS

Interval Tested 4580 - 4620 Zone Tested Myric Station
 Anchor Length 40 Drill Pipe Run 4575 Mud Wt. 9.2
 Top Packer Depth 4576 Drill Collars Run 0 Vis 46
 Bottom Packer Depth 4580 Wt. Pipe Run 0 WL 7.2
 Total Depth 4620 Chlorides 8,800 ppm System LCM 7

Blow Description Built to 1" below
No return below
No below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</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

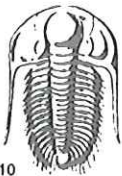
Rec Total 30 BHT 119 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2,301 Test 1225 T-On Location 10:00
 (B) First Initial Flow 20 Jars T-Started 11:10
 (C) First Final Flow 23 Safety Joint T-Open 13:10
 (D) Initial Shut-In 1,086 Circ Sub N/C T-Pulled 16:15
 (E) Second Initial Flow 24 Hourly Standby T-Out 18:10
 (F) Second Final Flow 26 Mileage 132 RT 184.80 Comments _____
 (G) Final Shut-In 1,067 Sampler _____
 (H) Final Hydrostatic 2,174 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1409.80

Initial Open 30 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Shut-In 600 Sub Total 0
 Final Flow 30 Total 1409.80
 Final Shut-In 600 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 07 2012

Test Ticket

NO. 45927

Well Name & No. Schertz 1-28 Test No. 4 Date 3/6/12
 Company Martin Drilling Company Elevation 3209 KB 3196 GL
 Address 250 N Water STE 300 Wichita KS 67202-1216
 Co. Rep / Geo. Tom Funk Rig Martin 25
 Location: Sec. 28 Twp. 103 Rge. 34w Co. Thomas State KS

Interval Tested 4662 - 4720 Zone Tested Johnson
 Anchor Length 58 Drill Pipe Run 4669 Mud Wt. 9.2
 Top Packer Depth 4658 Drill Collars Run 0 Vis 16
 Bottom Packer Depth 4662 Wt. Pipe Run 0 WL 7.2
 Total Depth 4720 Chlorides 8,800 ppm System LCM 7#

Blow Description Built to 2 1/2" below
No return below
Built to 2 1/2" below
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80 BHT 123 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2,315 Test 1225 T-On Location 4:45
 (B) First Initial Flow 18 Jars T-Started 5:15
 (C) First Final Flow 33 Safety Joint T-Open 7:46
 (D) Initial Shut-In 883 Circ Sub N/C T-Pulled 11:46
 (E) Second Initial Flow 35 Hourly Standby T-Out 13:30
 (F) Second Final Flow 53 Mileage 132 RT 184.80 Comments _____
 (G) Final Shut-In 868 Sampler _____
 (H) Final Hydrostatic 2,242 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 60 Extra Copies _____
 Final Shut-In 90 Sub Total 0
 Total 1409.80
 MP/DST Disc't _____
 Sub Total 1409.80

Approved By [Signature] 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.



PO Box 93999
Southlake, TX 76092

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

INVOICE

www. Sighth.

PROD COPY

Invoice Number: 130278

Invoice Date: Feb 24, 2012

Page: 1

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

Federal Tax I.D.#: 20-8651475

OPERATOR PAY MDC

LEASE: BM

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Schertz #1-28	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 25, 2012	3/25/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
6.00	MAT	Chloride	58.20	349.20
181.00	SER	Handling	2.25	407.25
20.00	SER	Mileage	19.91	398.20
1.00	SER	Surface	1,125.00	1,125.00
20.00	SER	Heavy Vehicle Mileage	7.00	140.00
1.00	SER	Manifold Head Rental	200.00	200.00
20.00	SER	Light Vehicle Mileage	4.00	80.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Ethan Glassman		

Account: ED203 3871.38 Cement S. Csg. #1-28
3.7463.0001

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

\$ 1905.19

ONLY IF PAID ON OR BEFORE
Mar 20, 2012

Subtotal	5,543.40
Sales Tax	233.09
Total Invoice Amount	5,776.49
Payment/Credit Applied	
TOTAL	5,776.49

Q1500

1905.19
3871.30



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



Invoice

DATE	INVOICE #
3/14/2012	21322

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-28	Schertz	Thomas	Company Rig	Oil	Development	Cement Port Collar	Dave

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	100	Miles	6.00	600.00
576D-D	Pump Charge - Port Collar	1	Job	1,250.00	1,250.00
290	D-Air	2	Gallon(s)	35.00	70.00T
330	Swift Multi-Density Standard (MIDCON II)	275	Sacks	16.50	4,537.50T
276	Flocele	100	Lb(s)	2.00	200.00T
581D	Service Charge Cement	350	Sacks	2.00	700.00
583D	Drayage	1,748	Ton Miles	1.00	1,748.00
	Subtotal				9,105.50
	Sales Tax Thomas County			7.30%	350.95

USED FOR 1C104
 APPROVED JR

We Appreciate Your Business!	Total	\$9,456.45
-------------------------------------	--------------	------------



CHARGE TO: **MURKIN OIL**
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 No 21322

PAGE 1 OF 1

SERVICE LOCATIONS
 1. **MUS** WELL/PROJECT NO. **1-28** LEASE **Schertz** COUNTY/PARISH **THOMAS** STATE **MS** CITY
 2. **NESS** TICKET TYPE SERVICE CONTRACTOR **CO RIG** RIG NAME/NO. **CO RIG** SHIPPED VIA **BY CITY** DELIVERED TO **MOBILE CITY** DATE **03-11-12** OWNER
 3. WELL TYPE **OK** WELL CATEGORY **Develop** JOB PURPOSE **CMY: Post Column** WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #112	100	mi			6.00	600.00
576-D		1			Pump Service	1	EA			1850.00	1850.00
290		1			D-112	2	km			35.00	70.00
330		2			Small CMY	275	sq			16.50	4537.50
276		2			FIBER	100	lb			2.00	200.00
581		2			SERVICE CHG CMY	350	sq			2.00	700.00
583		2			DRYHOLE	1748.0	7m			1.00	1748.00

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

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

DATE SIGNED **3/11/12** TIME SIGNED **1000** A.M. P.M.

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO

PAGE TOTAL **9105.50**
 TAX **350.95**
 TOTAL **9456.45**

SWIFT OPERATOR **DAEBY** APPROVAL

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 03-14-12 PAGE NO. 7

CUSTOMER: MURFIN DRUG WELL NO. 1-28 LEASE SCHERTZ JOB TYPE CMT: PORT COLLAR TICKET NO. 21322

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							ON LOCATION CMT: 350 SLS SMD 1/4" PLD 2 3/8 x 5 1/2 PORT COLLAR @ 2708
	1045			✓	✓	1100	1100	PRESSURE TEST OPEN PC
	1055	3.0	3.0	✓		400		INT. RATE - GOOD BLOW
	1100	3.5	0	✓		450		STACY CMT @ 112 1/2" SLK
		}	4.0	✓		500		STACY TO CIRC MUD!
			142.0	✓		800		CIRC CMT TO PIT!
			148.0	✓		800		20 SLS @ 14 1/2" SLK, END CMT
	1145		9.5	✓		900		DISP. CLOSE P.C.
	1150			✓	✓	1200	1200	PRESSURE TEST RUN IN 6 JOINTS
	1200	30	0		✓		200	REIN OUT
		}	10		-			1ST FLAG
			15		-			2ND FLAG
	1210		30		-			ALL CLEAN
								TOTAL CMT 275 SLS 20 SLS TO PIT!
								WASHUP
	1300							JOB COMPLETE
								THANK YOU! DAVE, JOSH B, JONG



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

Accty

rc w p
cc p l
Scumbia

Invoice

DATE	INVOICE #
3/7/2012	21424

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-28	Schertz	Thomas	Murfin Drilling #25	Oil	Development	LongString	Nick
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	6.00	540.00
578D-L	Pump Charge - Long String - 4840 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
290	D-Air				2	Gallon(s)	35.00	70.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
276	Flocele				50	Lb(s)	2.00	100.00T
283	Salt				1,150	Lb(s)	0.20	230.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				100	Lb(s)	4.00	400.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				1,059.5	Ton Miles	1.00	1,059.50
	Subtotal							14,572.00
	Sales Tax Thomas County						7.30%	804.64

We Appreciate Your Business!

Total

\$15,376.64



CHARGE TO: Marlin Dly Co Inc
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No 21424

PAGE 1 OF 2

1. <u>Hays, KS</u>	WELL/PROJECT NO. <u>A-1-28</u>	LEASE <u>Schertz</u>	COUNTY/PARISH <u>Thomas</u>	STATE <u>KS</u>	CITY	DATE <u>3-7-12</u>	OWNER <u>Same</u>
2. <u>Ness City, KS</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	CONTRACTOR <u>Marlin Dly #25</u>	RIG NAME/NO.	SHIPPED VIA <u>CH</u>	DELIVERED TO <u>location</u>	ORDER NO.	
3.	WELL TYPE <u>oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>longstring</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					#111	90	mi				6.00	540.00
578					Pump Change (longstring)	1	ea			1500	1500.00	1500.00
221					KE6	4	gal			25.00	100.00	100.00
280					Flockback-21	500	gal			2.50	1250.00	1250.00
290					D-Air	2	gal			35.00	70.00	70.00
403					Baskets	2	ea			250.00	500.00	500.00
404					Part Collar	1	ea			2400.00	2400.00	2400.00
406					LD Plug + Barble	1	ea			250.00	250.00	250.00
407					Insert float shoe w/SP11	1	ea			350.00	350.00	350.00
409					Turbolizers	15	ea			90.00	1350.00	1350.00
413					Rotating Scratchers	10	ea			40.00	400.00	400.00
419					Rotating Head	1	ea			200.00	200.00	200.00

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

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 DATE SIGNED 3-7-12 TIME SIGNED 2:35 PM
 SIGNED [Signature]

REMIT PAYMENT TO:

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 1	8910.00
WE UNDERSTOOD AND MET YOUR NEEDS?				PAGE TOTAL 2	5662.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	14572.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Thomas TAX	804.64
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	15,376.64

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 Thank You!



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

TICKET CONTINUATION

TICKET No. 21424

CUSTOMER
Murphy's Dry Co Inc

WELL
#1-28 Schertz

DATE
3-7-12

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE		AMOUNT	
		LOC	ACCT	DF			QTY.	UM	QTY.	UM		PRICE
325		2				Standard Cement	225	Sks			13.50	3037.50
276		2				Flocele	50	#	1/4	#/5K	2.00	100.00
283		2				Salt	1150	#	10	%	20.00	2300.00
284		2				Cal Seal	11	Sks	5	%	35.00	385.00
285		2				CFR-1	100	#	1/2	%	4.00	400.00
581		2				SERVICE CHARGE					2.00	450.00
583		2				MILEAGE CHARGE					1.00	1059.50
						TOTAL WEIGHT	225					
						LOADED MILES	90					
						TON MILES	1059.50					

CONTINUATION TOTAL 5662.00

JOB LOG

SWIFT Services, Inc.

DATE 5-7-12 PAGE NO. 9

CUSTOMER *Martin D-ly Co Inc* WELL NO. *#1-28* LEASE *Schantz* JOB TYPE *Longstring* TICKET NO. *21424*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							on loc w/FF
								RTD 4840
								5 1/2" x 15.5# x 4823' x 21'
								Turbo. 1-14, 49
								Bask 49, 50
								P.C. 50 @ 2735'
	1815							start F.F.
	1930							55jts Break Circ. 1hr
	2200							Bttm Break Circ
	2300	5	0				200	start KCL
		5	15/0				200	start Flocheck
		5	12/0				200	start KCL
	2310	6	5/0				250	start Cement 175skts EA-2
	2320		42					End Cement
								wash P&H
								Drop L.D. Plug
	2325	6	0				200	start Displacement
	2340	5					250	catch Cement
	2345		114				850 1300	land Plug
								Release Pressure
								Float Held
	2350		7/5					Plug RH + MH 30/20 EA-2

Thank you

Nick, Josh F + Doug