



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1138645
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: _____



1138645

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	HFM 1-33
Doc ID	1138645

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3353 - 3357 LKC B		
4	3372 - 3376 LKC D	250 gal 15% MCA	
4	3475 - 3479 LKC Lwr H		
4	3485 - 3488 LKC Upr I	250 gal 15% MCA	
4	3494 - 3498 LKC Lwr I	250 gal 15% MCA	
4	3524 - 3528 LKC K, CIBP 3518'	250 gal 15% MCA	
4	3648 - 3653 Arbuckle	200 gal 20% MCA	

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
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 13, 2013

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

Re: ACO1
API 15-051-26466-00-00
HFM 1-33
NW/4 Sec.33-14S-18W
Ellis 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 HFM #1-33 1625' FNL 500' FWL Sec. 33-T14S-R18W 2048' KB	El Dorado Refg. Co. Mary Engel #1 SW SW NW Sec. 33-T14S-R18W 2057' KB
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Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	1228	+820	-2	1226	+822	Flat	1235	+822
B/Anhydrite	1273	+775	-4	1271	+777	-2	1278	+779
Topeka	3022	-976	-2	3027	-979	-5	3031	-974
Heebner	3281	-1235	-1	3283	-1235	-3	3289	-1232
Toronto	3303	-1257	-2	3303	-1255	-2	3310	-1253
Lansing	3329	-1283	-1	3329	-1281	-1	3337	-1280
Stark	3522	-1476	-3	3522	-1474	-3	3528	-1471
BKC	3562	-1516	-1	3565	-1517	-4	3570	-1513
Arbuckle	3652	-1606	+37	3645	-1597	+44	3698	-1641
RTD	3752						3703	
LTD				3745			3704	

GEOLOGICAL REPORT

DRAWING TIME & SAMPLE LOGS

REPORT PREPARED BY GRACE C. ORSLEY/GEOL.DWG ST

COMPANY MURFIN DRUG CO.

LEASE # 1-33

FIELD

LOCATION 16251 FINL 8 500 FMI

SEC 33 TWP 14S R 18W

COUNTY ELLIS STATE KANSAS

CONTRACTOR MURFIN RIG #16

SPUD 1/16/2013 COMP 1/23/2013

SAMPLES SAVED FROM 9220 TO TD

FORMATION SAMPLE E LOG DUTCH

ANHYDRITE 1228 +820

BASE ANHY 1278 +820

TOPEKA 3022 -974

HEEBNER SH 3281 -1233

TORONTO 3303 - 1255

LANSING 3329 -1281

STARK SHALE 3522 -1474

ARBUCKLE 3652 -1884

DOLLOMITE 3700

TOPEKA 3022 -974

HEEBNER SH 3281 -1233

TORONTO 3303 - 1255

LANSING 3329 -1281

STARK SHALE 3522 -1474

ARBUCKLE 3652 -1884

DOLLOMITE 3700

ELEVATION K.B. 2048
D.F.
G.L. 2041
DEPTH MEASURED FROM KB
Log 2784
D-Well 252

Production Electric Log

A CR B. shad C. shad

1200
1250
1300
3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750

ANHYDRITE 1228 +820

BASE 1273 +775

LS-CREAM MED-FN CXTL SLT FOSS W/THIN BEDDED SHALES, NO POR, NS

SH- LT GRAY

LS- LT TAN POOR-NO POR SLT FOSS W/ THIN GREENISH SHALE
SILTSTONE- LT GRAY SLT MICACOUS CALC CEMENT

LS- GRAY BROWN FOSS DENSE W/ RECTXL CALCITE IN PART
LS- CREAM-TAN W/ FAIR INNER CXTL & FOSS MOLD POR NS

LS- CREAM-TAN FOSS BRACH & CORAL POOR-FAIR POR NS

LM- TAN-BROWN FINE CXTL HIGLY FOSS IN PART, & TAN FINE CXTL NO FOSS NS

AS ABOVE W/ THIN GRAY SHALE FRY TC

LS- GRAY W/CALC NODULES NO POR

SH-GREEN

SHALE- BLACK CARB
SHALE- GRAY

LS-TAN-GRAY, FOSS POOR-NO POR W/ DARK INCLUSIONS SLIGHTLY CHALKY IN PART NS
LS-AS ABOVE W/ MORE CHALK NS

LS-TAN FOSS W/FOSS & INTER CXTL
POR POOR TO FAIR, OODR ON BREAK NO VISIBLE FREE OIL FAIR FLOR W/ BLACK CHERT

SHALE BLACK CARB
LS-TAN DENSE
SH-GRAY

LS-LT TAN FOSS & CHERY FAIR POR W/ SHOW BROWN FREE OIL
LIVELY GASSY BECOMING CHALKY IN THE BASE

SH-RED, BLUE & GRAY BLACK
LANSING 3329 -1281

LS-BUFF W/ OCCASIONAL DEAD OIL STAIN FOSS (CORRAL) POOR- NO POROSITY NO FREE OIL W/ DARK CHERT
SH-BLACK & GRAY

LS- TAN W/ THIN BEDS RECTXL CALCITE FAIR TO GOOD POROSITY
FAIR SHOW OIL & OODR
SH-BLACK

LS- CREAM FOSS & DOLITIC LEACHED FAIR TO GOOD POROSITY
GOOD SHOW OIL & OODR

LS-AA BECOMING FN CXTLN & DENSE AT BASE OF ZONE
SH-RED, GREEN & BLACK

LS-WHITE W/SMALL DOLITIC TITE W/THIN STREAKS OF MINOR LEACHING W/SHOW OF OIL SOME HEAVY DARK OIL
LS-VERY DOLITIC WHITE FAIR TO GOOD POROSITY W/GOOD SHOW OIL AND OODR
SH-GRAY GUMMY AND STICKY
SHALE- GRAY STICKY GUMMY
LS- WHITE W/STAIN CRYPTOXTL TIGHT MINOR VUGS FREE OIL

SHALE- RED

LS- WHITE W/STAIN POOR POR OODR ON BREAK HARD FREE OIL

SHALE- BLACK
LS- WHITE-TAN CXTL SLIGHTLY DOLITIC NS
SHALE - BLUE BLACK
LS- LT BROWN-TAN FN DENSE FEW FRAG CXTL FILLED POOR-NO POR NS

SHALE- BRICK RED
LS- CRM W/ POOR POR W/ THIN STREAKS OF FAIR POR W/SFO & OODR

LS- NEAR CLEAR PELLETAL AND INTER CXTL POROSITY GOOD GOOD SHOW FREE OIL & OODR
LS- CREAM DENSE V HARD NO POR
STARK SHALE 3522 -1474

SH-BLACK
LS CREAM ODMOLDIC W/ ODMOLDIC AND INTERCXTL POR FAIR-GOOD, GOOD SHOW
LS- CREAM DENSE NS

LS- WHITE VERY DOLITIC SOME FAIR MOLDIC POR FAIR SHOW OIL
K.C. 3562 -1514

SH-GREEN AND GREY W/PYRITE
SILTSTONE- GRAY
LS-WHITE SLT CHALKY FOSS NO POR NS
SH-RED GREEN-AND GRAY
LS-TAN CRYSTO CXTL DENSE NS

SH- GREY GREEN AND RED

LS- DREAM V CHERY CLEAR ANJ TAN MINOR DEAD OIL STN ON GRAC FACES NO POR NO FREE OIL

PIECE FOSS HASH W/GOOD POR GOOD SHOW
SH- DARK BRICK RED
CONG SH AND WEAK LS AND CHERT NO POR

NS

SAND FINE GRAIN DOLIMITIC CEMENT W/GIL STN POOR POR MINOR AMOUNTS FC
ARBUCKLE 3652 -1884

DOLLO- WHITE COURSE CXTL RHOMBIC GOOD POR EXCELLENT SHOW OF OIL

DOLLO- WHITE AS ABOVE BUT STAIN & OIL SHOW GETTING DARKER COLOR W/WHITE CHERT

DOLLO-SAMPLE VERY POOR DUE TO HIGH VLS & SLUG OF HULLS

DOLLO-WHITE FILTER 50% WITHOUT SHOW STILL HAVE FAIR OODR AND FREE OIL INCREASE IN WHITE CHERT

DOLLO-WHITE SOME DOLITIC W/ JUST SPOTTED STAIN WEAK OODR W/WHITE CHERT

DOLLO-AS ABOVE W/DECREASING SHOW GOOD POR AND CHERT

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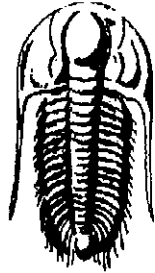
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Kent Crisler

HFM #1-33

33-14s-18w Ellis,KS

Start Date: 2013.01.20 @ 18:16:57

End Date: 2013.01.21 @ 02:55:12

Job Ticket #: 51717 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.25 @ 10:04:04

Murfin Drilling Company

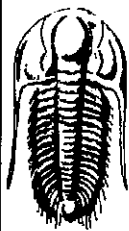
33-14s-18w Ellis,KS

HFM #1-33

DST # 1

Toronto-B

2013.01.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

33-14s-18w Ellis, KS

250 N. Water Suite 300
Wichita, KS 67202

HFM #1-33

Job Ticket: 51717

DST#: 1

ATTN: Kent Crisler

Test Start: 2013.01.20 @ 18:16:57

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:

95000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
484.00	Muddy Water	6.551
1.00	Free Oil	0.014

Total Length: 485.00 ft Total Volume: 6.565 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

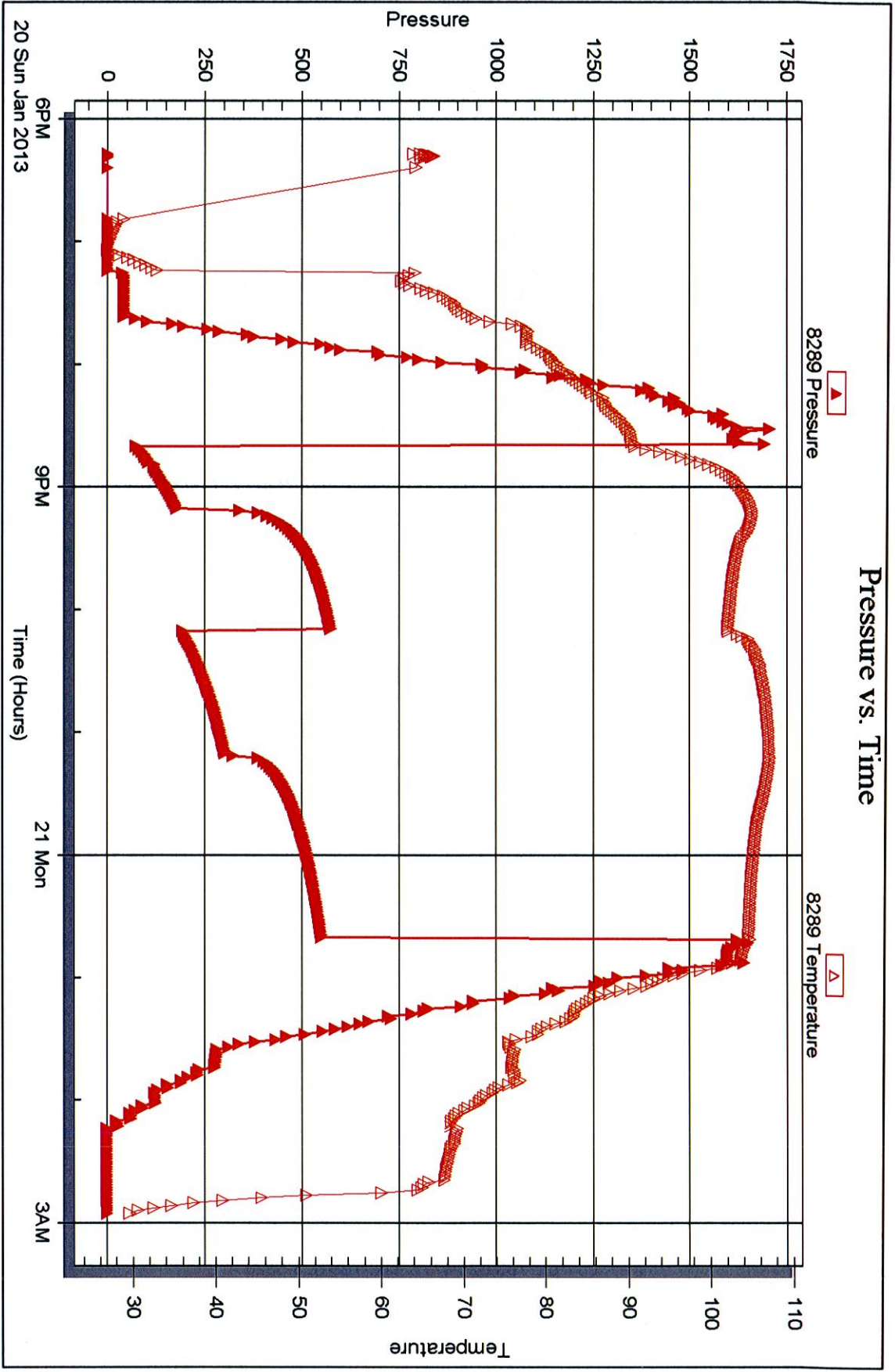
Recovery Comments:

Serial #: 8289

Outside Murfin Drilling Company

HFM#1-33

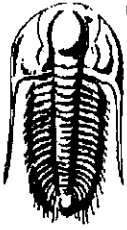
DST Test Number: 1



Triolite Testing, Inc

Ref. No: 51717

Printed: 2013.01.25 @ 10:04:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N. Water Suite 300
Wichita, KS 67202
ATTN: Kent Crisler

33-14s-18w Ellis,KS
HFM #1-33
Job Ticket: 51718 **DST#: 2**
Test Start: 2013.01.21 @ 11:35:53

GENERAL INFORMATION:

Formation: **C-E**
Deviated: **No** Whipstock: ft (KB) Test Type: **Conventional Bottom Hole (Reset)**
Time Tool Opened: 13:31:38 Tester: **Jason McLemore**
Time Test Ended: 18:22:53 Unit No: **54**

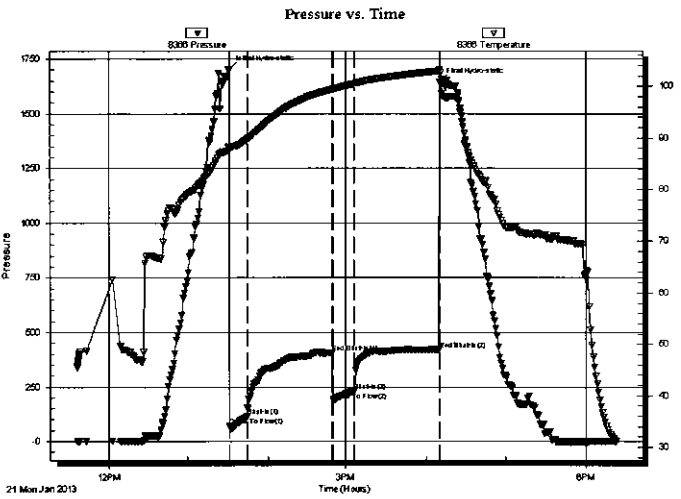
Interval: **3364.00 ft (KB) To 3420.00 ft (KB) (TVD)** Reference Elevations: 2048.00 ft (KB)
Total Depth: **3420.00 ft (KB) (TVD)** 2043.00 ft (CF)
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 231.56 psig @ 3399.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.01.21 End Date: 2013.01.21 Last Calib.: 2013.01.21
Start Time: 11:35:55 End Time: 18:22:53 Time On Btm: 2013.01.21 @ 13:31:08
Time Off Btm: 2013.01.21 @ 16:10:23

TEST COMMENT: IFF-Strong, BOB in 1 Min.
IS-Blow back BOB in 15 Min.
FFP-Strong, BOB in 5 Min.
FSI-Blow back Built to 8"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.00	88.15	Initial Hydro-static
1	72.61	87.92	Open To Flow (1)
14	114.65	89.65	Shut-In(1)
79	406.88	99.35	End Shut-In(1)
80	188.48	99.28	Open To Flow (2)
96	231.56	100.44	Shut-In(2)
159	422.14	102.93	End Shut-In(2)
160	1643.09	103.25	Final Hydro-static

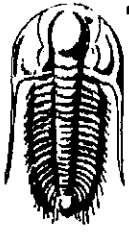
Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSOCMW-1%O-94%W-5%M	1.44
330.00	GOCMW-25%G-20%O-50%W-5%M	4.63
45.00	GHOCWM-15%G-50%O-15%W-20%M	0.63
0.00	585' Gas In Pipe	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

33-14s-18w Ellis, KS

250 N. Water Suite 300
Wichita, KS 67202

HFM #1-33

Job Ticket: 51718

DST#: 2

ATTN: Kent Crisler

Test Start: 2013.01.21 @ 11:35:53

Tool Information

Drill Pipe:	Length: 3328.00 ft	Diameter: 3.80 inches	Volume: 46.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.50 inches	Volume: 0.18 bbl	Weight to Pull Loose: 48000.00 lb
			Total Volume: 46.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3364.00 ft			Final 46500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 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			3337.00	
Shut In Tool	5.00			3342.00	
Hydraulic tool	5.00			3347.00	
Jars	5.00			3352.00	
Safety Joint	2.00			3354.00	
Packer	5.00			3359.00	28.00 Bottom Of Top Packer
Packer	5.00			3364.00	
Stubb	1.00			3365.00	
Perforations	1.00			3366.00	
Change Over Sub	1.00			3367.00	
Blank Spacing	31.00			3398.00	
Change Over Sub	1.00			3399.00	
Recorder	0.00	8366	Inside	3399.00	
Recorder	0.00	8289	Outside	3399.00	
Perforations	18.00			3417.00	
Bullnose	3.00			3420.00	56.00 Bottom Packers & Anchor
Total Tool Length:	84.00				

Serial #: 8366

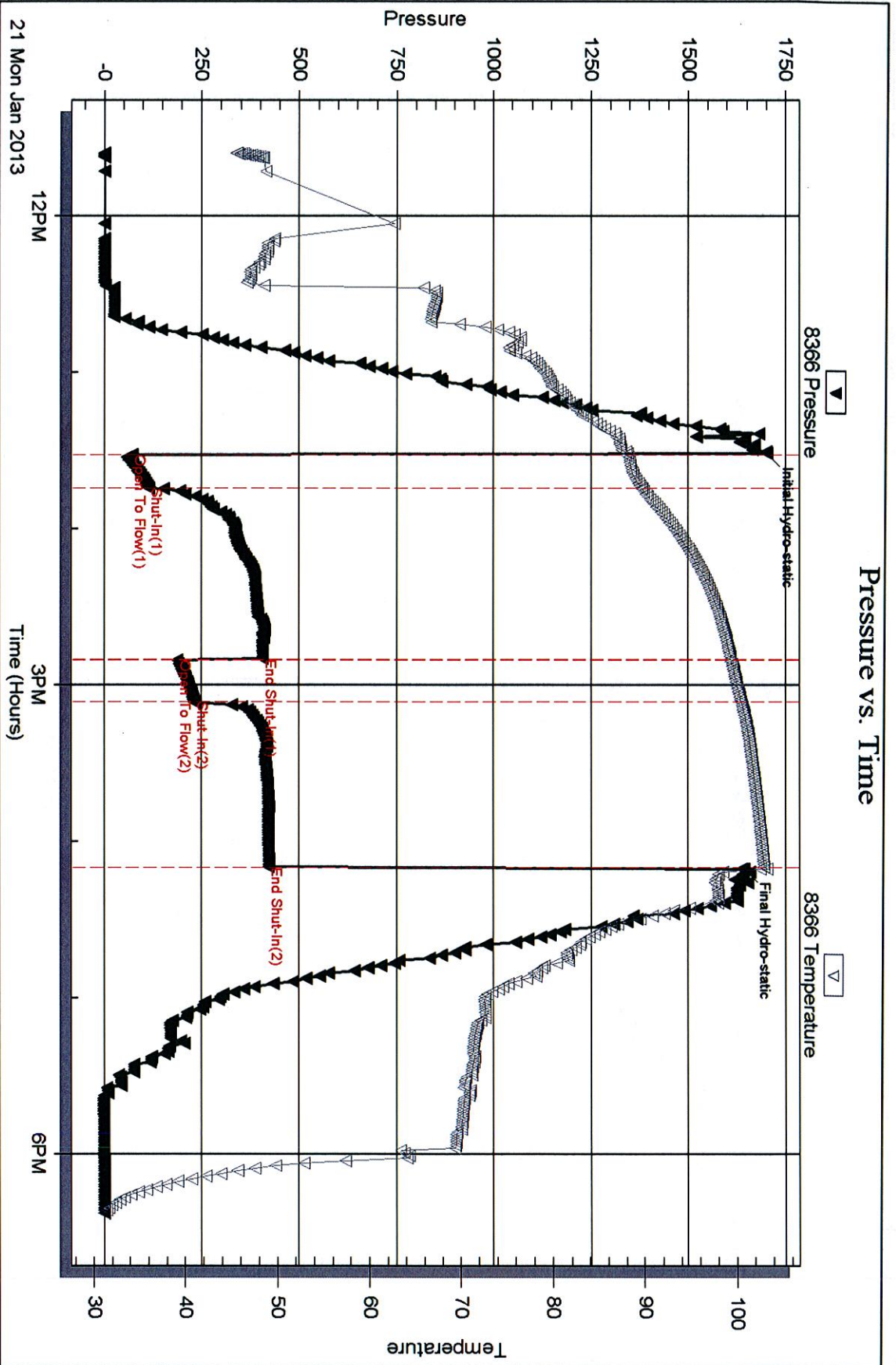
Inside

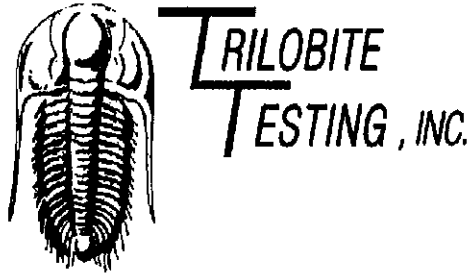
Murfin Drilling Company

HFM #1-33

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N. Water Suite 300
Wichita, KS 67202

ATTN: Kent Crisler

HFM #1-33

33-14s-18w Ellis,KS

Start Date: 2013.01.22 @ 05:03:33

End Date: 2013.01.22 @ 13:24:03

Job Ticket #: 51719 DST #: 3

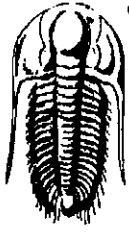
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.25 @ 10:02:34

Murfin Drilling Company 33-14s-18w Ellis,KS HFM #1-33 DST # 3 H-1 2013.01.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

33-14s-18w Ellis,KS

250 N. Water Suite 300
Wichita, KS 67202

HFM #1-33

Job Ticket: 51719

DST#: 3

ATTN: Kent Crisler

Test Start: 2013.01.22 @ 05:03:33

Tool Information

Drill Pipe:	Length: 3420.00 ft	Diameter: 3.80 inches	Volume: 47.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.50 inches	Volume: 0.18 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3448.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	97.00 ft			
Tool Length:	125.00 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			3421.00	
Shut In Tool	5.00			3426.00	
Hydraulic tool	5.00			3431.00	
Jars	5.00			3436.00	
Safety Joint	2.00			3438.00	
Packer	5.00			3443.00	28.00 Bottom Of Top Packer
Packer	5.00			3448.00	
Stubb	1.00			3449.00	
Perforations	2.00			3451.00	
Change Over Sub	1.00			3452.00	
Blank Spacing	64.00			3516.00	
Change Over Sub	1.00			3517.00	
Recorder	0.00	8289	Inside	3517.00	
Recorder	0.00	8366	Outside	3517.00	
Perforations	25.00			3542.00	
Bullnose	3.00			3545.00	97.00 Bottom Packers & Anchor
Total Tool Length:	125.00				

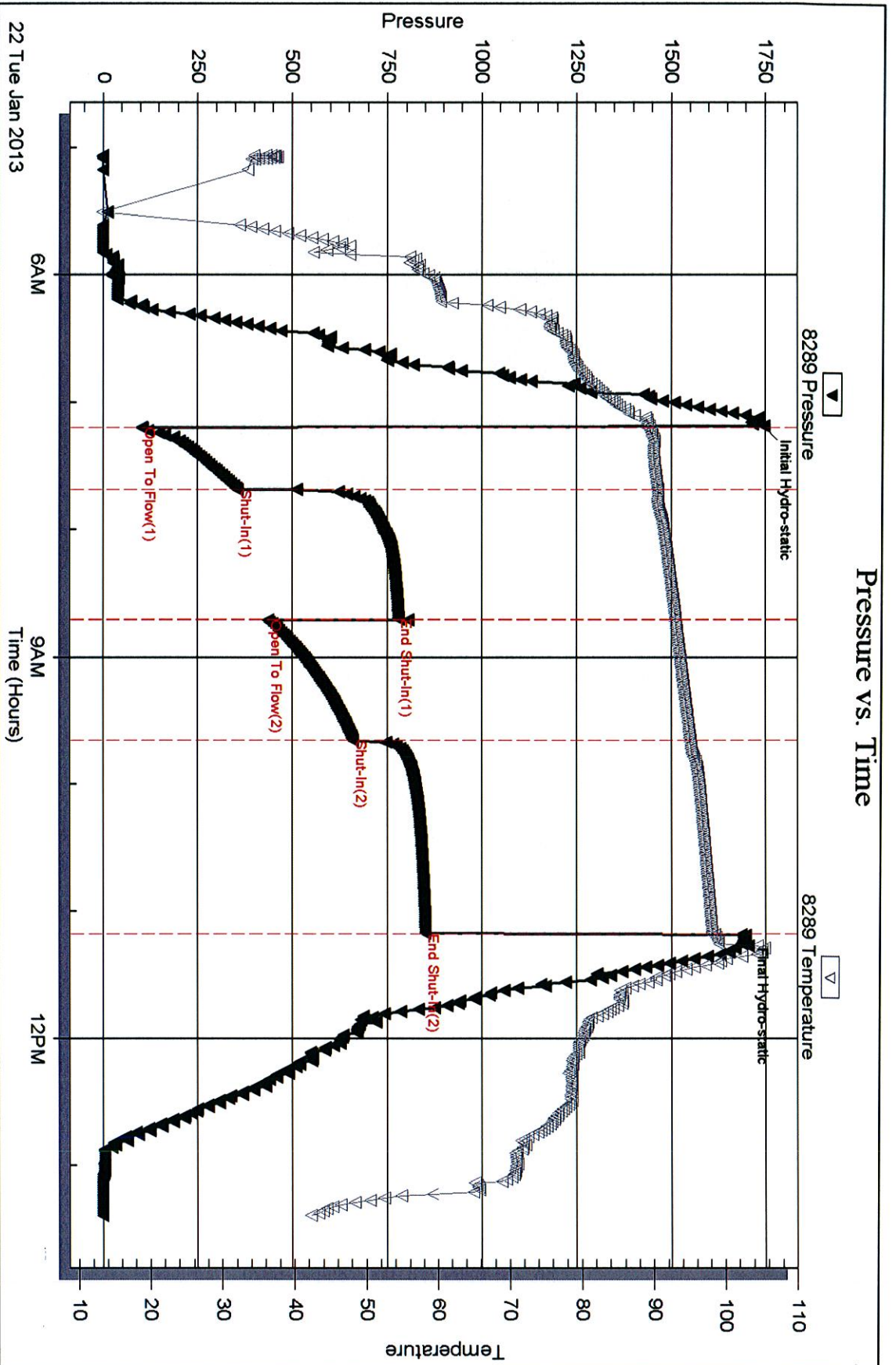
Serial #: 8289

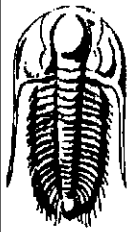
Inside

Murfin Drilling Company

HFM#1-33

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company
 250 N. Water Suite 300
 Wichita, KS 67202
 ATTN: Kent Crisler

33-14s-18w Ellis, KS
HFM #1-33
 Job Ticket: 51720 **DST#: 4**
 Test Start: 2013.01.23 @ 01:00:10

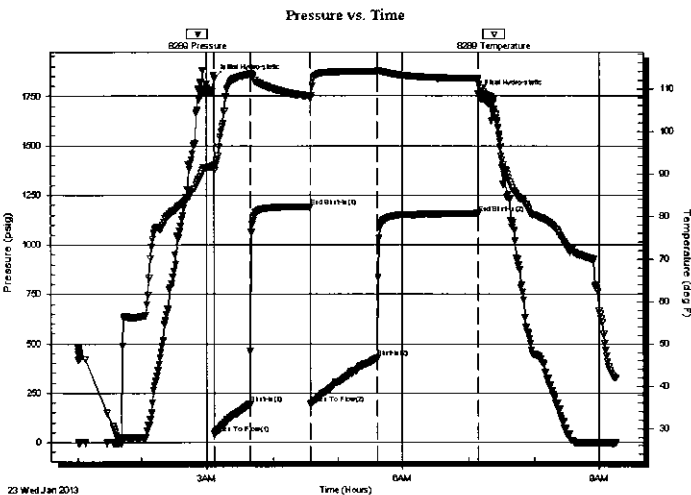
GENERAL INFORMATION:

Formation: **Arbuckle & Sand**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **03:07:10** Tester: **Jason McLemore**
 Time Test Ended: **09:15:25** Unit No: **54**

Interval: **3611.00 ft (KB) To 3660.00 ft (KB) (TVD)** Reference Elevations: **2048.00 ft (KB)**
 Total Depth: **3660.00 ft (KB) (TVD)** **2043.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

Serial #: 8289 Inside
 Press@RunDepth: **428.59 psig @ 3647.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2013.01.23** End Date: **2013.01.23** Last Calib.: **2013.01.25**
 Start Time: **01:00:12** End Time: **09:15:25** Time On Btm: **2013.01.23 @ 03:06:55**
 Time Off Btm: **2013.01.23 @ 07:08:55**

TEST COMMENT: IFP-Strong, BOB in 4 Min.
 IS-Dead
 FFP-Strong, BOB in 5 Min.
 FSI-Blow back Built to 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1838.55	91.99	Initial Hydro-static
1	45.29	90.89	Open To Flow (1)
32	193.98	113.31	Shut-In(1)
88	1193.01	108.20	End Shut-In(1)
89	196.18	107.83	Open To Flow (2)
150	428.59	114.07	Shut-In(2)
242	1159.34	112.35	End Shut-In(2)
242	1760.79	112.46	Final Hydro-static

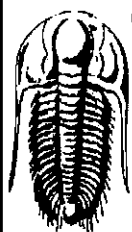
Recovery

Length (ft)	Description	Volume (bbl)
930.00	Muddy Water-95%W-5%M	12.81

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

33-14s-18w Ellis,KS

250 N. Water Suite 300
Wichita, KS 67202

HFM #1-33

Job Ticket: 51720

DST#: 4

ATTN: Kent Crisler

Test Start: 2013.01.23 @ 01:00:10

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:

40000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
930.00	Muddy Water-95%W-5%M	12.807

Total Length: 930.00 ft

Total Volume: 12.807 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51717

Well Name & No. HFM # 1-33 Test No. 1 Date 1-20-13
 Company Murfin Drilling Company Elevation 2048 KB 2043 GL
 Address 250 N. Water, Suite 300, Wichita, KS. 67202
 Co. Rep / Geo. Kent Crisler Rig Murfin #16
 Location: Sec. 33 Twp. 14s Rge. 18w Co. Ellis State KS

Interval Tested 3278-3366 Zone Tested Toronto - B
 Anchor Length 88' Drill Pipe Run 3243 Mud Wt. 9.1
 Top Packer Depth 3283 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3288 Wt. Pipe Run 0 WL 8.4
 Total Depth 3366 Chlorides 11,600 ppm System LCM
 Blow Description IFP - Strong, BOB in 5 min.
ISI - Dead
FFP - Good Blow, BOB in 15 min, Died back after 30 min
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>				
<u>484</u>	<u>Muddy Water</u>			<u>95</u>	<u>5</u>

Rec Total 485 BHT _____ Gravity _____ API RW .230 @ 20 ° F Chlorides 95,000 ppm

(A) Initial Hydrostatic _____ Test 1150 T-On Location 16:47
 (B) First Initial Flow _____ Jars 250 T-Started 18:14
 (C) First Final Flow _____ Safety Joint 75 T-Open 20:40
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 24:40
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 2:57
 (F) Second Final Flow _____ Mileage 18 rt 27.90 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1502.90
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1502.90

Approved By _____ Our Representative Jason McJannet
 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.

Thank you



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **51719**

Well Name & No. HFM #1-33 Test No. 3 Date 1-22-13
 Company Murfin Drilling Company Elevation 2048 KB 2043 GL
 Address 250 N. Water, Suite 300, Wichita, KS. 67202
 Co. Rep / Geo. Kent Crisler Rig Murfin #16
 Location: Sec. 33 Twp. 14s Rge. 18w Co. Ellis State KS

Interval Tested 3448-3545 Zone Tested H-J
 Anchor Length 97' Drill Pipe Run 3420 Mud Wt. 9.1
 Top Packer Depth 3443 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3448 Wt. Pipe Run 0 WL 8.4
 Total Depth 3545 Chlorides 11,600 ppm System LCM Ø

Blow Description IFP - Strong, BOB in 2 min.
ISI - Blowback Built to 2 1/4"
FFP - Strong Blow, BOB in 4 min
FST - Blowback Built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>				
<u>1225</u>	<u>Muddy Water with Oil</u>		<u>1</u>	<u>94</u>	<u>5</u>
	<u>Scum</u>				
	<u>210' Gas In Pipe</u>				

Rec Total 1230 BHT _____ Gravity _____ API RW 164 @ 55 °F Chlorides 65,000 ppm

(A) Initial Hydrostatic <u>1746</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:55</u>
(B) First Initial Flow <u>104</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:03</u>
(C) First Final Flow <u>355</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:14</u>
(D) Initial Shut-In <u>779</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:14</u>
(E) Second Initial Flow <u>437</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:24</u>
(F) Second Final Flow <u>660</u>	<input checked="" type="checkbox"/> Mileage <u>27.90</u>	Comments _____
(G) Final Shut-In <u>850</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1502.90</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1502.90</u>	

Approved By _____ Our Representative Jason McLawton *Thank you*

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.



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 1/21/2013
 Invoice # 6293

P.O.#:

Due Date: 2/20/2013

Division: Russell

PROD COPY

Invoice

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

OPERATOR PAY MDC
 LEASE: HFM 1-33
 / Bm

USED FOR _____

REMOVED _____

Reference:
 H F M 1-33

Description of Work:
 SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,005.76	No				
Common-Class A	150	\$ 2,071.83	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 348.06	No				
Calcium Chloride	5	\$ 262.48	Yes				
Pump Truck Mileage-Job to Nearest Camp	8	\$ 87.94	No				
Premium Gel (Bentonite)	3	\$ 53.79	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$ 51.46	No				

Account #	No.	Description
<u>FD203</u>	<u>3426.99</u>	<u>Cement S. Co. #1-33</u>
<u>3. 3266.0001</u>		
		SubTotal: \$ 3,881.31
		Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (582.20)
		SubTotal for Taxable Items: \$ 2,029.88
		SubTotal for Non-Taxable Items: \$ 1,269.23

Invoice Terms:

Net 30

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,426.99
Applied Payments:
Balance Due: \$ 3,426.99

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
 ©2008-2013 Straker Investments, LLC. All rights reserved.



[Handwritten signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6293

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-16-13	33	14	18	ELLIS	KANSAS		7:25pm

Location HAYS ST ANTONIO RD - 1/2 IN - E / INTO

Lease	Well No.	Owner
HFM	#1-33	MURFIN DRILLING
Contractor		To Quality Oilwell Cementing, Inc.
MURFIN #16		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job		Charge To
SURFACE		MURFIN DRILLING
Hole Size	T.D.	Street
12 1/4"	218'	250 N. WATER - STE 300
Csg. 8 5/8"	Depth	City
	216	WICHITA
Tbg. Size	Depth	State
		KS, 67202
Tool	Depth	
	15'	
Cement Left in Csg.	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
		Cement Amount Ordered
		150 com - 3% - 2% - 4 FLO
Meas Line	Displace	
	13 BBLs	

EQUIPMENT

Pumptrk #15	No.	Cementer	Common
		Helper	150
Bulktrk #14	No.	Driver	Poz. Mix
		Driver	
Bulktrk #14	No.	Driver	Gel.
		Driver	3
		Driver	Calcium
		Driver	5

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
CEMENT DID NOT CIRCULATE!	158
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	8

THANK YOU!

X Signature Ag [Signature]

Tax	
Discount	
Total Charge	

Acctg

cc: WF
cc: Lil
cc: LR-1



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave., Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Date: 1/26/2013
Invoice # 6368

P.O.#:
Due Date: 2/25/2013
Division: Russell

Invoice

USED FOR IC 103
APPROVED [Signature]

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

Reference:
H F M 1-33

Description of Work:
PROD LONG STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No	Latch Down Plug & Baffle, 5 1/2"	1	\$243.20	Yes
Common-Class A	205	\$ 2,791.05	Yes	Pump Truck Mileage-Job to Nearest Camp	8	\$86.68	No
Cement Port Collar, 5 1/2"	1	\$ 2,714.29	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$50.72	No
Gilsonite	1000	\$ 1,628.57	Yes				
5 1/2" Turbolizer	15	\$ 944.57	Yes				
Cement Scratchers Cable Type, 5 1/2"	12	\$ 912.00	Yes				
Bulk Truck Matl-Material Service Charge	232	\$ 503.77	No				
Mud Clear	500	\$ 401.71	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 332.23	Yes				
Salt (Fine)	17	\$ 257.66	Yes				
5 1/2" Basket	1	\$ 249.71	Yes				

Invoice Terms:
Net 30

SubTotal: \$ 12,107.56

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,816.13)

SubTotal for Taxable Items: \$ 8,903.74

SubTotal for Non-Taxable Items: \$ 1,387.68

Total: \$ 10,291.43

Tax: \$ 560.94

Amount Due: \$ 10,852.37

Applied Payments:

Balance Due: \$ 10,852.37

6.30% Ellis County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6368

Date	1-24-13	Sec.	33	Twp.	14	Range	18	County	Ellis	State	KS	On Location		Finish	11.00 AM
Lease								Location		Hays 5 to Butterfield trail 3/4 W 5th					
HFM								Well No.		1-33					
Contractor								Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		pipe job					
Hole Size								T.D.		7 7/8 3752					
Csg.								Depth		5 1/2 3748					
Tbg. Size								Depth		City					
Tool								Depth		Murfin Drig. State					
Cement Left in Csg.								Shoe Joint		22.5 22.5					
Meas. Line								Displace		88.5 BBL					
EQUIPMENT								Common		205 10% Salt 50% gel sulfate					
Pumptrk								Poz. Mix		5 No. Cementer matt					
Bulktrk								Gel.		8 No. Driver Brett					
Bulktrk								Calcium		pu No. Driver Doos					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt		17					
Rat Hole								Flowseal		30 SK					
Mouse Hole								Kol-Seal		8 SK 1000 #					
Centralizers								Mud CLR 48		3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25 500 gal					
Baskets								CFL-117 or CD110 CAF 38		58					
D/V or Port Collar								Sand		1271 Sanit 58					
> 57-59								Handling		232					
Mileage								Mileage							
Rope Bell with 2 joints to Run Circulated Job on new Ran mud flash plug Rat and mouse hole tide on. mixed 160 down hole Displaced with 58.5 BBL lift pressure 900psi plug head with 1600psi								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer		5 1/2 15					
								Baskets		5 1/2 1					
								AFU Inserts		1 Float shoe					
								Float Shoe		1 port collar					
								Latch Down		5 1/2					
								12. Scratchers							
								Pumptrk Charge		prod long string					
								Mileage		8					
								Tax							
								Discount							
								Total Charge							
Signature										Mark Rollin					

Accty -

cc: W1
: L2
: L-1

Date: 3/15/2013
Invoice # 6462

P.O.#:

Due Date: 4/14/2013

Division: Russell



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665

Phone: 785-324-1041 fax: 785-483-1087

Email: cementing@ruraltel.net

Invoice

Contact:

Murfin Drilling Company

Address/Job Location:

Murfin Drilling Company

P.O. Box 288

Russell Ks 67665

USED FOR IC 103
APPROVED [Signature]

Reference:

HFM 1-33

Description of Work:

PORT COLLAR JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 991.39	No				
mon, MetsoBeads, Plater, Gel, FloSeal, Calcium)	250	\$ 5,189.71	Yes				
Bulk Truck Matl-Material Service Charge	250	\$ 542.86	No				
Flo Seal	62	\$ 134.63	Yes				
Pump Truck Mileage-Job to Nearest Camp	6	\$ 65.01	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	6	\$ 38.04	No				

Invoice Terms:

Net 30

SubTotal: \$ 6,961.64

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,044.25)

SubTotal for Taxable Items: \$ 4,525.69

SubTotal for Non-Taxable Items: \$ 1,391.71

Total: \$ 5,917.39

Tax: \$ 285.12

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 6,202.51

Applied Payments:

Balance Due: \$ 6,202.51

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6462

Date	3-13-13	Sec.	Twp.	Range	County	State	On Location	Finish
					Ellis	KS		12:45pm
					Location			
					N 1/2 S 5 S 3/4 W S 10			

Lease	HEM	Well No.	1-33	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	Stewart				
Type Job	Port Collar				
Hole Size	7 7/8	T.D.			
Csg.	5 1/2	Depth			
Tbg. Size	2 3/8	Depth			
Tool	Port Collar	Depth	1270	Charge To	Martin Drilling
Cement Left in Csg.		Shoe Joint			
				Cement Amount Ordered 250 QMDC 1/4# FLO	

Meas Line Displace 380

EQUIPMENT				
Pumptrk	9	No.	Cementor	Common 250
			Helper	Poz. Mix
Bulktrk		No.	Driver	Gel.
			Driver	Calcium
Bulktrk	4	No.	Driver	Hulls
			Driver	Salt

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Test tool to retest. Held. Open port collar & pump 1600L mud. Best. Little circulation. Mix 250 QMDC Displace. Cement did not translate. Close tool & pressure to retest. Held. Run 5 joints & wash clean.

Flowseal 62#

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 250

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

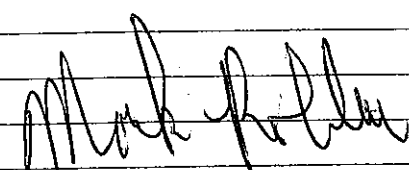
AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge port Collar

Mileage 6

X Signature		Tax
		Discount
		Total Charge

