

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	MILTON-BUTLER UNIT 1
Doc ID	1317694

Tops

Name	Top	Datum
Anhydrite	653	+1208
Heebner	3125	1264
Toronto	3145	-1284
Douglas	3157	-1296
Brown Lime	3255	-1394
Lansing	3265	-1404
Viola	3508	-1647
Arbuckle	3588	-1727

JAMES C. MUSGROVE

Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations
Milton-Butler Unit #1
SE-NW-SE-NE (1854'FNL & 785' FWL)
Section 29-21s-12w
Stafford County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)
Commenced: August 16, 2016
Completed: August 23, 2016
Elevation: 1861' K.B., 1859' D.F., 1853' G.L.
Casing program: Surface; 8 5/8" @ 667'
Production, 5 1/2" @ 3697'
Sample: Samples saved and examined 2900' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2900' to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were one (1) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Eli Wireline Services, Dual Induction, Compensated Density/Neutron Log and Micro Log

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	653	+1208
Base Anhydrite	677	+1184
Heebner	3125	-1264
Toronto	3145	-1284
Douglas	3157	-1296
Brown Lime	3255	-1394
Lansing	3265	-1404
Base Kansas City	3291	-1430
Viola	3508	-1647
Simpson Shale	3539	-1678
Arbuckle	3588	-1727
Rotary Total Depth	3700	-1839
Log Total Depth	3700	-1839

(All tops and zones corrected to Electric Log Measurement)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

2900-3124' No shows of oil and or/gas was noted in the drilling of the Topeka Section (See attached Sample/Geological reports)

TORONTO SECTION

3145-3153' Limestone, tan, buff, finely crystalline, chalky in part; trace brown spotty stain, no show of free oil and no odor in fresh samples.

LANSING SECTION

3265-3278' Limestone, cream, tan, finely crystalline, poorly developed inter-crystalline porosity, no show.

3288-3296' Limestone, tan, finely crystalline, oolitic, poor visible porosity, no shows.

3308-3319' Limestone, cream, white, finely crystalline, chalky in part, dense, no shows.

3329-3334' Limestone, cream, white, finely crystalline, few fossiliferous, poor scattered porosity, chalky in part; trace stain, trace of free oil and no odor in fresh samples.

3340-3347' Limestone, gray, tan, oolitic, poor scattered porosity, chalky in part; spotty stain, trace of free oil and questionable odor in fresh samples.

3350-3356' Limestone, white, poor to fair porosity, few sub-oomoldic, chalky; trace stain, poor show of free oil and faint odor in fresh samples.

3360-3384' Limestone, tan, gray, finely crystalline, chalky, few cherty, dense.

3394-3402' Limestone, tan, oolitic, poor scattered porosity, cherty in part, no shows.

3411-3424' Limestone, as above; no shows

3434-3440' Limestone, gray, white, sub-oomoldic, chalky, no shows.

3451-3456' Limestone, tan, brown, oolitic, poor inter-crystalline porosity, chalky, light brown stain, spotty stain, show of free oil and faint odor.

3475-3480' Limestone, cream, tan, oolitic, fair porosity, no shows.

VIOLA SECTION

3508-3539' Chert; white, yellow, opaque, brown spotty/black stain, trace of free oil and faint odor in fresh samples.

SIMPSON SECTION

3580-3584' Trace sand, clear, medium grained; sub-rounded well sorted; poor flurs, no show of oil and questionable odor in fresh samples.

ARBUCKLE SECTION

3588-3598' Dolomite, tan, finely crystalline, poor visible porosity, trace stain, show of free oil and strong odor in fresh samples.

3598-3608' Dolomite, tan, finely crystalline, fair inter-crystalline porosity; trace gas bubbles; fair stain, show of free oil and strong odor in fresh samples

Drill Stem Test #1 3524-3608

Times: 30-30-30-30

Blow: Strong

**Recovery: 620' gas in pipe
1364' oil and gas cut muddy water
(30% gas; 20% oil; 50% water; 10% mud)
310' oil and gas cut muddy water
(20% gas; 20% oil; 50% water; 10% mud)
124' gas cut muddy water
(10% gas; 80% water; 10% mud)
186' water**

**Pressures: ISIP 1108 psi
FSIP 1079 psi
IFP 245-603 psi
FFP 616-839 psi
HSH 1841-1716 psi**

3608-3620' Dolomite, white, cream, finely crystalline, poor to fair porosity, spotty show of free oil and faint odor in fresh samples.

3620-3640' Dolomite; as above.

3640-3660' Dolomite, white, sucrosic, fair pin point, inter-crystalline porosity, trace stain, show of free oil and faint odor in fresh samples.

3660-3680' Dolomite, tan, cream, finely crystalline, sucrosic, no shows.

3680-3690' Dolomite, white, pink, rose, coarse crystalline, poor to fair inter-crystalline porosity, no shows.

Mai Oil Operations
Milton-Butler Unit #1
SE-NW-SE-NE (1854' FNL & 785' FWL)
Section 29-21s-12w
Stafford County, Kansas

Page 4

3690-3700' Dolomite, white, pink, finely crystalline, dense, no shows, no odor.

Rotary Total Depth **3700 (-1839)**
Log Total Depth **3700 (-1839)**

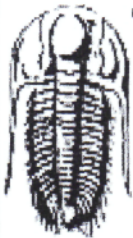
Recommendations:

The 5 1/2" production casing was set and cemented on Mai Oil Operations Inc., Milton-Butler Unit #1.

Respectfully yours,



Wyatt Urban
Petroleum Geologist



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd Ste 800
 Dallas, TX 75225
 ATTN: Wyatt Urban

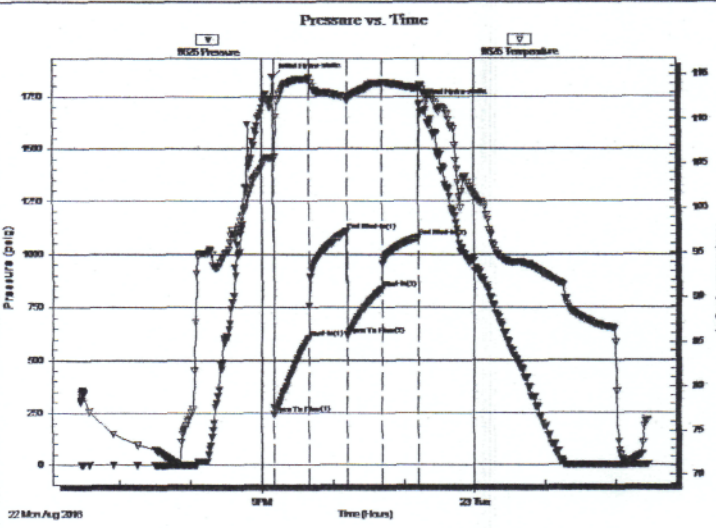
29-21S-12W Stafford, KS
Milton Butler Unit 1
 Job Ticket: 55410 DST#: 1
 Test Start: 2016.08.22 @ 18:27:50

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:10:20
 Time Test Ended: 02:27:20
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Interval: **3524.00 ft (KB) To 3608.00 ft (KB) (TVD)**
 Total Depth: 3608.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Reference Elevations: 1866.00 ft (KB)
 1858.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8525 **Inside**
 Press@RunDepth: 838.98 psig @ 3525.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.08.22 End Date: 2016.08.23 Last Calib.: 2016.08.23
 Start Time: 18:27:51 End Time: 02:27:20 Time On Btrr: 2016.08.22 @ 21:09:05
 Time Off Btrr: 2016.08.22 @ 23:13:20

TEST COMMENT: IF: Strong Blow, BOB in 2 minutes
 IS: No Blow Back
 FF: Strong Blow, BOB in 2 minutes
 FS: 1/2" Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.74	105.63	Initial Hydro-static
2	245.01	105.31	Open To Flow (1)
31	603.02	114.63	Shut-In(1)
63	1108.45	112.44	End Shut-In(1)
64	616.35	112.11	Open To Flow (2)
93	838.98	114.05	Shut-In(2)
123	1078.70	113.40	End Shut-In(2)
125	1713.94	113.77	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	Water	2.61
124.00	GMCW 10%G 10%M 80%W	1.74
310.00	GOMCW 20%G 20%O 10%M 50%W	4.35
1364.00	GMOCW 30%G 10%M 20%O 40%W	19.13
0.00	620 GIP	0.00

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

QUALITY OILWELL CEMENTING, INC.

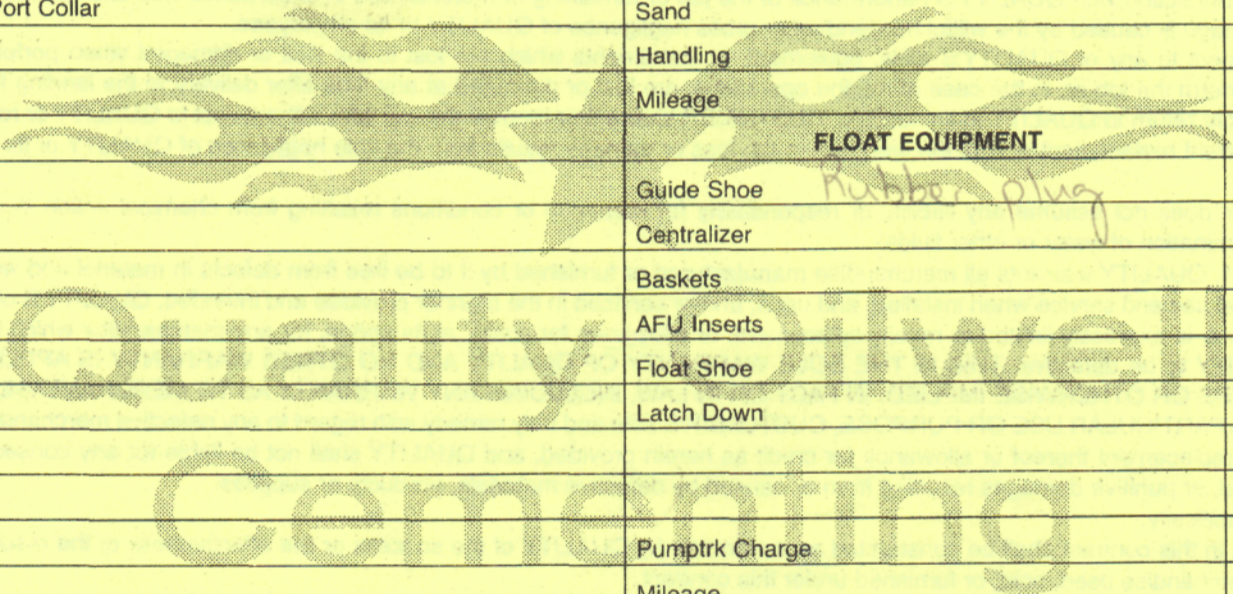
Federal Tax I.D.# 20-2886107

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

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

No. 1749

Date	8-19-16	Sec.	29	Twp.	21	Range	12	County	Stafford	State	KS	On Location		Finish	3:45 AM
Milton - Butler unit								Location Great Bend KS - H S to 170th Rd							
Lease	Well No. 1			Owner SE 1/2 S 7 W 1/2											
Contractor	Southwind 3			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	Surface			Charge To Main oil operations											
Hole Size	12 1/4"			T.D.	667'			Street							
Csg.	8 5/8"			Depth	667'			City							
Tbg. Size				Depth				State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	20'			Shoe Joint	20'			Cement Amount Ordered 450 60/40 3% CC 2% Gel							
Meas Line	Displace			1/2 # Fl - seal											
EQUIPMENT				41 1/4 BLS											
Pumptrk	18 No. Cementer Helper Brett			Common											
Bulktrk	19 No. Driver Craig			Poz. Mix											
Bulktrk	P.M. No. Driver Rick			Gel.											
JOB SERVICES & REMARKS				Hulls											
Remarks:	Cement did Circulate			Salt											
Rat Hole				Flowseal											
Mouse Hole				Kol-Seal											
Centralizers				Mud CLR 48											
Baskets				CFL-117 or CD110 CAF 38											
D/V or Port Collar				Sand											
				Handling											
				Mileage											
				FLOAT EQUIPMENT											
				Guide Shoe Rubber plug											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe											
				Latch Down											
				Pumptrk Charge											
				Mileage											
				Tax											
				Discount											
				Total Charge											
X Signature															



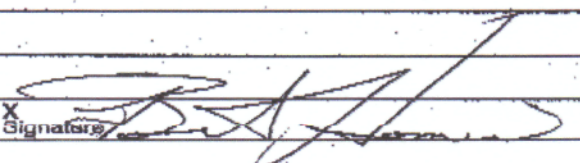
QUALITY OILWELL CEMENTING, INC.

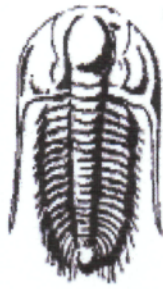
Federal Tax I.D.# 20-2886107

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

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

No. 3000

Date	8-24-16	Sec.	29	Twp.	21	Range	12	County	Stafford	State	Ks	On Location		Finish	3:30 AM
Lease	Milton - Butler							Location	Dartmouth Ks - 125 to 170th Ave						
Well No.	1							Owner	IE 1/2 S, W1/4						
Contractor	Southwind #3							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	Long string							Charge To	Main oil operations						
Hole Size	7 7/8"							T.D.	3700'						
Csg.	5 1/2" 14# used							Depth	3697.50'						
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.	21.24'							Shoe Joint	21.24'						
Meas Line								Displace	89 3/4 BLS Vulk Fl-seal - 1000 gal Mud clear 48						
EQUIPMENT								Common	96						
Pumptrk	5 No. Cementer Helper Brett							Poz. Mix	64						
Bulktrk	14 No. Driver Tom							Gel.	3						
Bulktrk	p.u. No. Driver Rick							Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt	14						
Rat Hole								Flowseal	40#						
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48	1000 gal						
Baskets	Pipe on bottom break Circul							FL-117 or CD110 CAF 38							
D/V or Port Collar	pump loop gel Mud Clear							Sand							
48 plug	Bottle w/ 30 ex Hook to							Handling	177						
5 1/2"	+ new 150							Mileage							
Cement shell down wash pump + lines. Released plug + displaced w/ 89 3/4 BLS of H2O Released to float held.								FLOAT EQUIPMENT							
1 1/2" pressure	700 #							Guide Shoe							
Land plug	to 1500 #							Centralizer	12						
Quality Oilwell Cementing								Baskets							
								AFI Inserts							
								Float Shoe							
								Latch Down	1						
								Pumptrk Charge	prod string						
								Mileage	17						
								Tax							
								Discount							
								Total Charge							



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

8411 Preston Rd Ste 800
Dallas, TX 75225

ATTN: Wyatt Urban

Milton Butler Unit 1

29-21S-12W Stafford,KS

Start Date: 2016.08.22 @ 18:27:50

End Date: 2016.08.23 @ 02:27:20

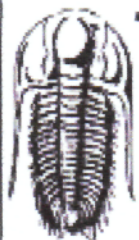
Job Ticket #: 55410 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.08.24 @ 08:28:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston Rd Ste 800
Dallas, TX 75225
ATTN: Wyatt Urban

29-21S-12W Stafford,KS

Milton Butler Unit 1

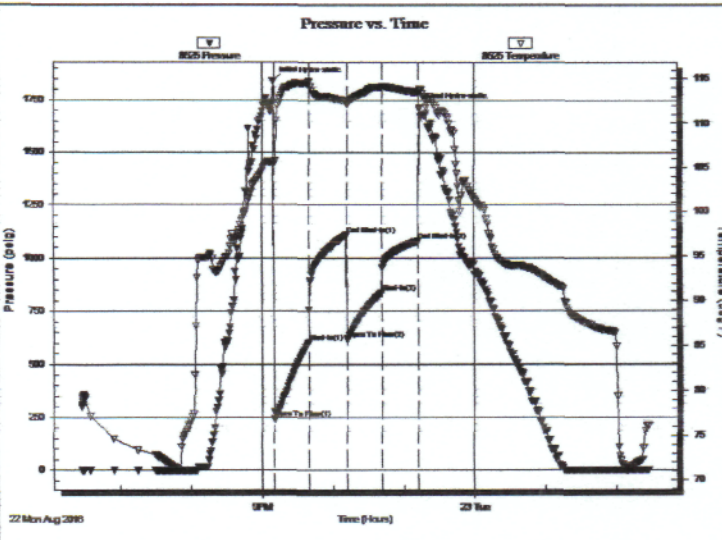
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Deviated: No Whipstock: ft (KB)
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Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Interval: **3524.00 ft (KB) To 3608.00 ft (KB) (TVD)**
Reference Elevations: 1866.00 ft (KB)
Total Depth: 3608.00 ft (KB) (TVD) 1858.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8525 Inside
Press@RunDepth: 838.98 psig @ 3525.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.08.22 End Date: 2016.08.23 Last Calib.: 2016.08.23
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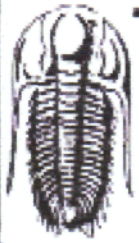
TEST COMMENT: IF: Strong Blow , BOB in 2 minutes
IS: No Blow Back
FF: Strong Blow , BOB in 2 minutes
FS: 1/2" Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.74	105.63	Initial Hydro-static
2	245.01	105.31	Open To Flow (1)
31	603.02	114.63	Shut-In(1)
63	1108.45	112.44	End Shut-In(1)
64	616.35	112.11	Open To Flow (2)
93	838.98	114.05	Shut-In(2)
123	1078.70	113.40	End Shut-In(2)
125	1713.94	113.77	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
186.00	Water	2.61
124.00	GMCW 10%G 10%M 80%W	1.74
310.00	GOMCW 20%G 20%O 10%M 50%W	4.35
1364.00	GMOCW 30%G 10%M 20%O 40%W	19.13
0.00	620 GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

29-21S-12W Stafford,KS

8411 Preston Rd Ste 800
Dallas, TX 75225

Milton Butler Unit 1

Job Ticket: 55410

DST#: 1

ATTN: Wyatt Urban

Test Start: 2016.08.22 @ 18:27:50

Tool Information

Drill Pipe:	Length: 3515.00 ft	Diameter: 3.80 inches	Volume: 49.31 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.31 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3524.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3503.00	
Hydraulic tool	5.00			3508.00	
Jars	5.00			3513.00	
Safety Joint	2.00			3515.00	
Packer	5.00			3520.00	26.00 Bottom Of Top Packer
Packer	4.00			3524.00	
Stubb	1.00			3525.00	
Recorder	0.00	8525	Inside	3525.00	
Recorder	0.00	6806	Outside	3525.00	
Perforations	10.00			3535.00	
Change Over Sub	1.00			3536.00	
Drill Pipe	63.00			3599.00	
Change Over Sub	1.00			3600.00	
Perforations	5.00			3605.00	
Bullnose	3.00			3608.00	84.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations
8411 Preston Rd Ste 800
Dallas, TX 75225
ATTN: Wyatt Urban

29-21S-12W Stafford,KS
Milton Butler Unit 1
Job Ticket: 55410 **DST#: 1**
Test Start: 2016.08.22 @ 18:27:50

Mud and Cushion Information

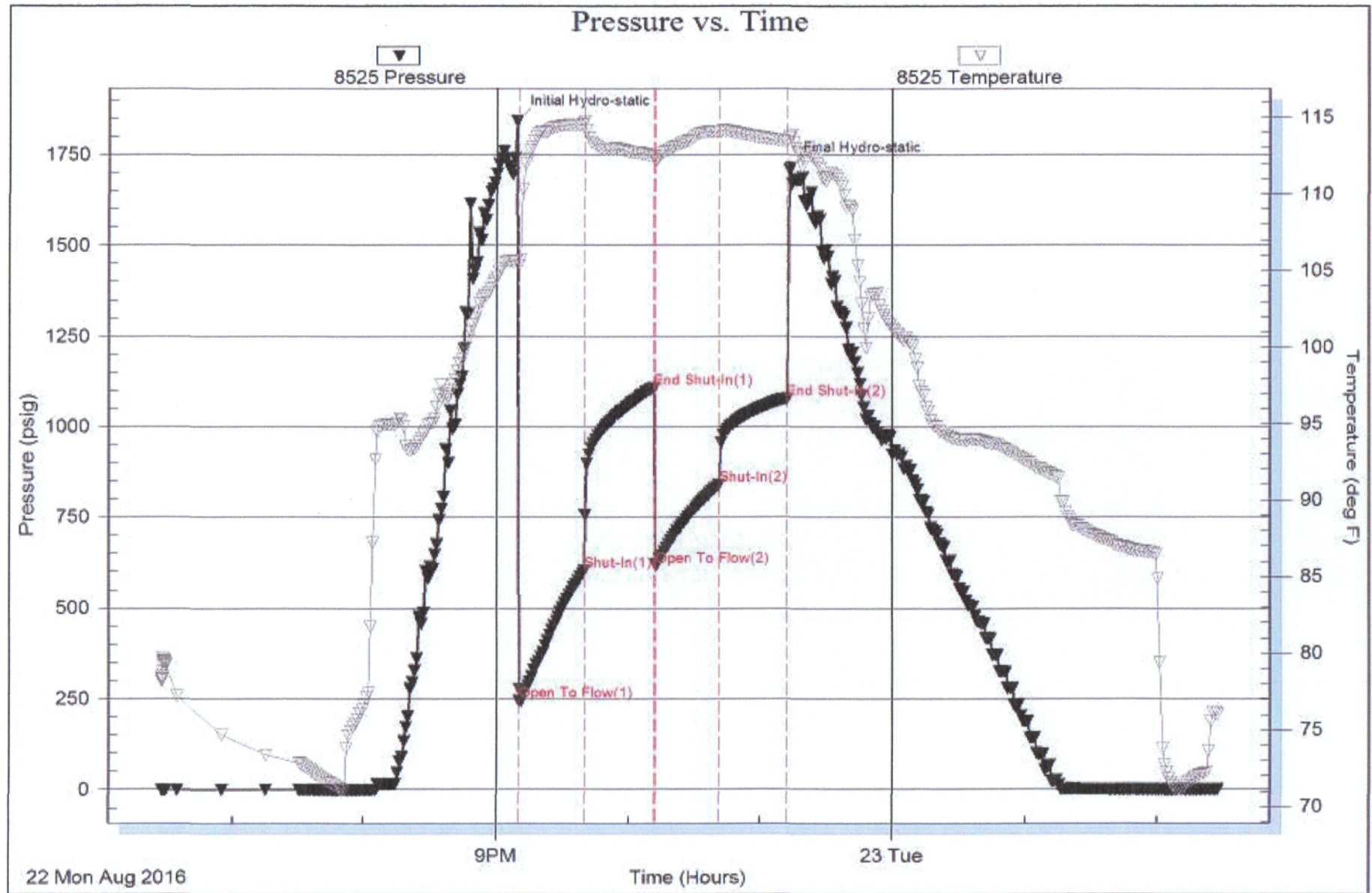
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	32000 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4700.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	Water	2.609
124.00	GMCW 10%G 10%M 80%W	1.739
310.00	GOMCW 20%G 20%O 10%M 50%W	4.348
1364.00	GMOCW 30%G 10%M 20%O 40%W	19.133
0.00	620 GIP	0.000

Total Length: 1984.00 ft Total Volume: 27.829 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .2 @ 77 degrees

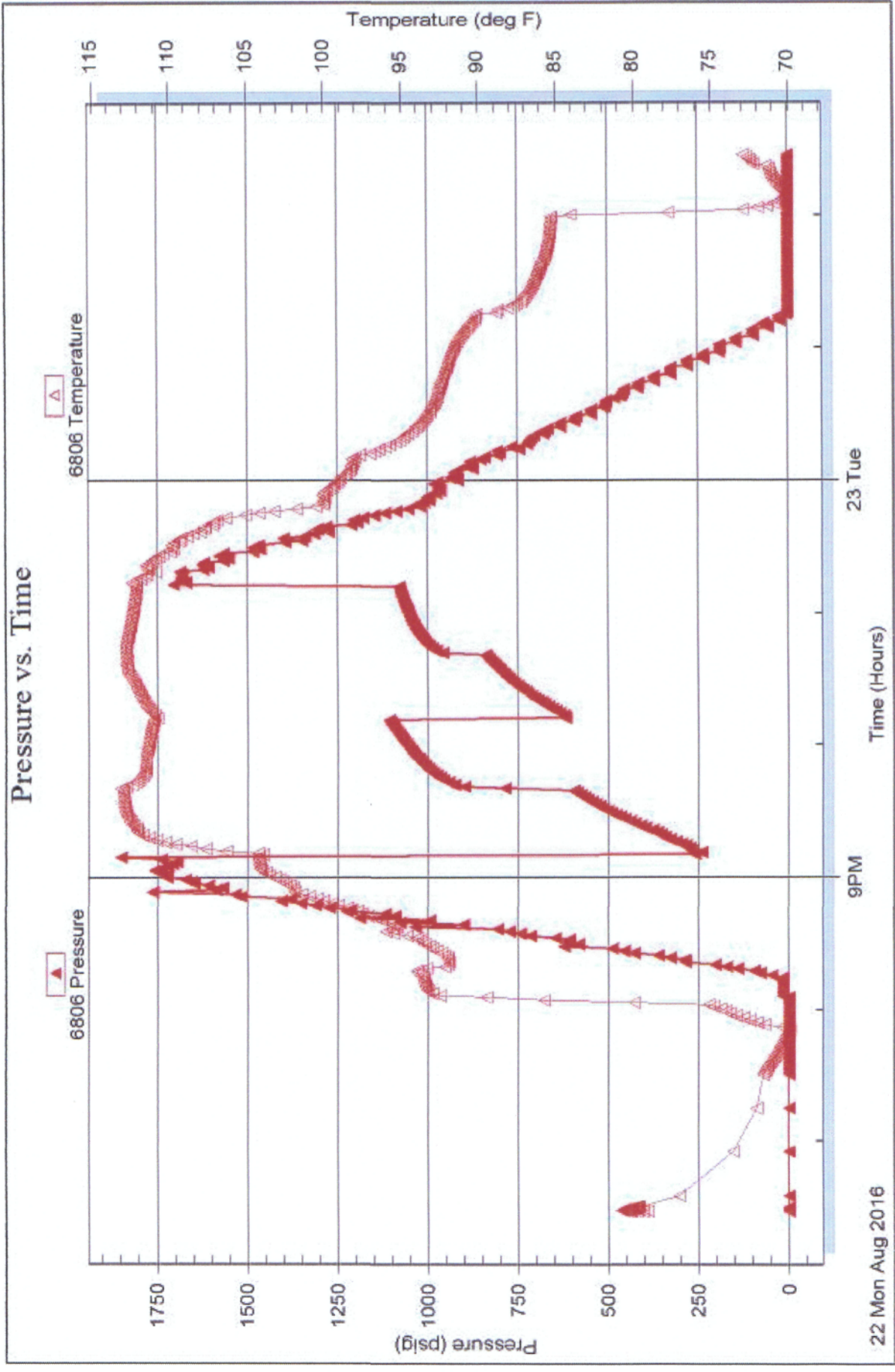


Serial #: 6806

Outside Mai Oil Operations

Milton Butler Unit 1

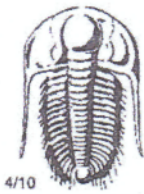
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55410

Printed: 2016.08.24 @ 09:28:03



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55410

Well Name & No. Milton Butler Unit 1 Test No. 1 Date 08/22/16
 Company Mai Oil Operations Elevation 1868 KB 1858 GL
 Address 8411 Preston Rd Ste 800 Dallas TX 75225
 Co. Rep / Geo. Wyatt Urban Rig Southwind 3
 Location: Sec. 29 Twp. 21S Rge. 12W Co. Stafford State KS

Interval Tested 3524 - 3608 Zone Tested Arbuckle
 Anchor Length 84 Drill Pipe Run 3515 Mud Wt. 9.4
 Top Packer Depth 3519 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 3524 Wt. Pipe Run 0 WL 10.4
 Total Depth 3608 Chlorides 4700 ppm System LCM

Blow Description IF: strong Blow, BOB in 2 minutes
ISI: NO Blow Back
FF: strong Blow, BOB in 2 minutes
FSI: 1/2 inch Blow Back

Rec	Feet of	%gas	%oil	%water	%mu
<u>620</u>	<u>GIP</u>				
<u>1364</u>	<u>G MOCW</u>	<u>30</u>	<u>20</u>	<u>40</u>	<u>10</u>
<u>310</u>	<u>G OMCW</u>	<u>20</u>	<u>20</u>	<u>50</u>	<u>10</u>
<u>124</u>	<u>G MCW</u>	<u>10</u>		<u>80</u>	<u>10</u>
<u>186</u>	<u>Water</u>				

Rec Total 1984 BHT 114 Gravity NIC API RW .2 @ 77° F Chlorides 32000 ppr

(A) Initial Hydrostatic 1841
 (B) First Initial Flow 245
 (C) First Final Flow 603
 (D) Initial Shut-In 1108
 (E) Second Initial Flow 66
 (F) Second Final Flow 839
 (G) Final Shut-In 1079
 (H) Final Hydrostatic 1714

Test 1050
 Jars 250
 Safety Joint 75
 Circ Sub
 Hourly Standby
 Mileage 80 120
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1495

T-On Location 15:45
 T-Started 18:27
 T-Open 21:10
 T-Pulled 23:12
 T-Out 02:27

Comments loaded 10:00 8/23
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total
 Total 1495
 MP/DST Disc't

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

Approved By _____ Our Representative [Signature]