

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) (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	TIEPERMAN 2
Doc ID	1351897

Tops

Name	Top	Datum
Anhydrite	665	+1203
Heebner	3114	-1246
Toronto	3132	-1264
Douglas	3147	-1279
Brown Lime	3246	-1378
Lansing	3259	-1391
Base Kansas City	3482	-1614
Viola	3490	-1622
Arbuckle	3590	-1722





**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  
Tieperman #2  
w/2 NE-SE-SW (990' FSL & 2200' FEL)  
Section 29-21s-12w  
Stafford County, Kansas

Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Co. (rig #3)  
**Commenced:** January 1, 2017  
**Completed:** January 6, 2017  
**Elevation:** 1868' K.B., 1866' D.F., 1860' G.L.  
**Casing program:** Surface; 8 5/8" @ 663"  
Production, 5 1/2" @ 3670'  
**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	665	+1203
Base Anhydrite	688	+1180
Heebner	3114	-1246
Toronto	3132	-1264
Douglas	3147	-1279
Brown Lime	3246	-1378
Lansing	3259	-1391
Base Kansas City	3482	-1614
Viola	3490	-1622
Simpson Shale	3534	-1666
Arbuckle	3590	-1722
Rotary Total Depth	3670	-1802
Log Total Depth	3672	-1804

(All tops and zones corrected to Electric Log Measurement)

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

**TOPEKA SECTION**

2900-3114' No shows of oil and/or gas was noted in drilling of the Topeka Section  
(See attached Sample Log/Geologist Report).

### **TORONTO SECTION**

3132-3146' Limestone, tan, buff, finely crystalline, poor scattered porosity, chalky, black spotty stain, no show of free oil and questionable odor in fresh samples.

### **LANSING SECTION**

3260-3268' Limestone, cream, tan, fossiliferous, chalky, poor visible porosity, no shows; no odor.

3276-3280' Limestone, tan, buff, fossiliferous, chalky, poor visible porosity, trace black stain, trace of free oil and questionable odor in fresh samples.

3286-3290' Limestone, tan, buff, fossiliferous/oolitic, granular in part, poor to fair porosity, chalky, light brown stain, show of free oil and faint odor in fresh samples.

3298-3302' Limestone, cream tan, few with vuggy type porosity, black and brown stain, show of free oil and fair odor in fresh samples.

3315-3320' Limestone, tan, gray, finely crystalline, poor scattered pinpoint type porosity, light black stain, show of free oil and faint odor.

3324-3334' Limestone, cream, white, fossiliferous in part, oomoldic in part, fair oomoldic and vuggy type porosity, chalky, light black stain, show of free oil and faint odor in fresh samples.

3339-3349' Limestone, cream fossiliferous, oomoldic, poorly developed porosity, no shows and questionable odor in fresh samples.

3350-3364' Limestone, tan, fossiliferous in part, dense.

3383-3387' Limestone, cream, white, oomoldic, good oomoldic and vuggy type porosity, black stain, show of free oil and faint odor.

3398-3406' Limestone, cream, tan, oolitic, fair vuggy type porosity, chalky in part, black to brown stain, show of free oil and faint odor in fresh samples.

3418-3424' Limestone, cream, tan, oolitic, poorly developed porosity, poor visible, black stain, show of free oil, faint odor in fresh samples.

### **VIOLA SECTION**

3488-3494' Limestone, white, cream, cherty, dense.

3494-3520' Chert, white, gray, boney, opaque, no shows.

3520-3536' Varied colored boney, chert, poor visible porosity, black stain, no show of free oil and no odor in fresh samples.

**SIMPSON SECTION**

3588-3590' Sand, gray, very fined grained, well sorted, friable, no shows.

**ARBUCKLE SECTION**

3590-3596' Dolomite, tan, finely crystalline, sucrosic, scattered pinpoint porosity, good stain and saturation, show of free oil and strong odor in fresh samples.

3596-3606' Dolomite, tan, sucrosic, finely crystalline, good vuggy type porosity, fair to good stain and saturation, good show of free oil and good odor in fresh samples.

3608-3615' Dolomite, tan, finely crystalline, fair to good inter-crystalline type porosity, fair stain and saturation, show of free oil strong odor in fresh samples.

**Drill Stem Test #1** **3534-3615**  
**(Log Measurements 3536-3617)**

**Times: 30-30-45-45**

**Blow: Strong**

**Recovery: 820' oil and gas cut watery mud  
 (10% oil; 30% gas; 15% water; 45% mud)  
 700' slightly oil and gas cut muddy water  
 (40% gas; 5% oil; 40% water; 15% mud)  
 1072' slightly oil cut muddy water  
 (10% gas; 5% oil; 65% water; 20% mud)  
 180' water  
 50' muddy water**

**Pressures: ISIP 1207 psi  
 FSIP 1209 psi  
 IFP 630-1148 psi  
 FFP 1159-1209 psi  
 HSH 1782-1695 psi**

3617-3630' Dolomite, tan, finely crystalline, few oolitic, poor visible porosity, light brown stain, show of free oil and strong odor in fresh samples.

3630-3650' Dolomite, tan, finely crystalline, sucrosic, poor to fair pinpoint porosity, brown stain, and show of free oil and strong odor in fresh samples.

3650-3660' Dolomite, cream, tan, fine and medium crystalline, sucrosic in part trace stain, trace of free oil and strong odor in fresh samples.

3660-3672' Dolomite, cream, finely crystalline, dense, chert, no shows.



Mai Oil Operations  
Tieperman #2  
w/2 NE-SE-SW (990' FSL & 2200' FEL)  
Section 29-21s-12w  
Stafford County, Kansas

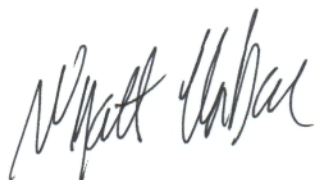
Page 4

<b>Rotary Total Depth</b>	<b>3670</b>
<b>Log Total Depth</b>	<b>3672</b>

**Recommendations:**

The 5 ½" production casing was set and cemented on Mai Oil Operations Inc., Tieperman #2.

Respectfully yours,



Wyatt Urban  
Petroleum Geologist



## DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations, Inc.**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

ATTN: Wyatt Urban

### **Tieperman #2**

#### **S29-21s-12w Stafford,KS**

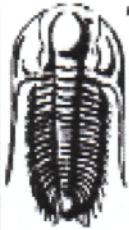
Start Date: 2017.01.06 @ 06:32:00

End Date: 2017.01.06 @ 14:35:45

Job Ticket #: 61873                      DST #: 1

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

Printed: 2017.01.09 @ 11:25:47



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations, Inc.  
 8411 Preston Rd STE 800  
 Dallas TX 75225+5520  
 ATTN: Wyatt Urban

**S29-21s-12w Stafford,KS**

**Tieperman #2**

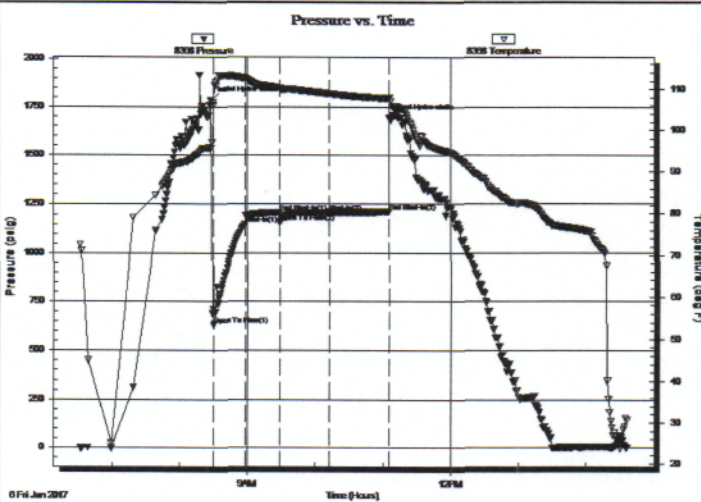
Job Ticket: 61873 **DST#: 1**  
 Test Start: 2017.01.06 @ 06:32:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:30:00  
 Time Test Ended: 14:35:45  
 Interval: **3534.00 ft (KB) To 3615.00 ft (KB) (TVD)**  
 Total Depth: 3615.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J. Staab  
 Unit No: 84  
 Reference Elevations: 1868.00 ft (KB)  
 1860.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8368 Inside**  
 Press@RunDepth: 1209.52 psig @ 3535.00 ft (KB)  
 Start Date: 2017.01.06 End Date: 2017.01.06  
 Start Time: 06:32:15 End Time: 14:35:45  
 Capacity: 8000.00 psig  
 Last Calib.: 2017.01.06  
 Time On Btm: 2017.01.06 @ 08:28:00  
 Time Off Btm: 2017.01.06 @ 11:05:45

**TEST COMMENT:** 30-IF-BOB in 20 seconds  
 30-ISI-Weak Blow Back; Built to 1"  
 45-FF-BOB in 30 seconds  
 45-FSI-No Blow Back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.92	95.60	Initial Hydro-static
2	630.91	106.75	Open To Flow (1)
30	1148.90	112.59	Shut-In(1)
61	1207.75	110.21	End Shut-In(1)
62	1159.66	110.13	Open To Flow (2)
105	1209.52	108.86	Shut-In(2)
158	1210.95	107.80	End Shut-In(2)
158	1695.38	107.90	Final Hydro-static

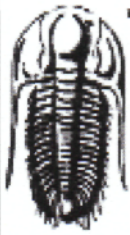
**Recovery**

Length (ft)	Description	Volume (bbl)
820.00	OWGCM 10% O 15% W 30 % G 45%M	11.50
700.00	OMGCW 5% O 15%M 40%G 40%W	9.82
1072.00	OGMCW 5%O 20% M 10% G 65% W	15.04
180.00	Water 100% W	2.52
50.00	WM 40%W 60%M	0.70

**Gas Rates**

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations, Inc.  
8411 Preston Rd STE 800  
Dallas TX 75225+5520  
ATTN: Wyatt Urban

**S29-21s-12w Stafford,KS**  
**Tieperman #2**  
Job Ticket: 61873 **DST#: 1**  
Test Start: 2017.01.06 @ 06:32:00

**Tool Information**

Drill Pipe:	Length: 3524.00 ft	Diameter: 3.80 inches	Volume: 49.43 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.50 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: 51000.00 lb
			<u>Total Volume: 49.43 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3534.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3515.00	
Shut In Tool	5.00			3520.00	
Hydraulic tool	5.00			3525.00	
Packer	5.00			3530.00	20.00 Bottom Of Top Packer
Packer	4.00			3534.00	
Stubb	1.00			3535.00	
Recorder	0.00	9120	Outside	3535.00	
Recorder	0.00	8368	Inside	3535.00	
Perforations	11.00			3546.00	
Change Over Sub	1.00			3547.00	
Drill Pipe	63.00			3610.00	
Change Over Sub	1.00			3611.00	
Bullnose	4.00			3615.00	81.00 Bottom Packers & Anchor

**Total Tool Length: 101.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mai Oil Operations, Inc.

**S29-21s-12w Stafford,KS**

8411 Preston Rd STE 800  
Dallas TX 75225+5520

**Tieperman #2**

Job Ticket: 61873

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2017.01.06 @ 06:32:00

## 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:

39000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
820.00	OWGCM 10% O 15% W 30 % G 45%M	11.502
700.00	OMGCW 5% O 15%M 40%G 40%W	9.819
1072.00	OGMCW 5%O 20% M 10% G 65% W	15.037
180.00	Water 100% W	2.525
50.00	WM 40%W 60%M	0.701

Total Length: 2822.00 ft      Total Volume: 39.584 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

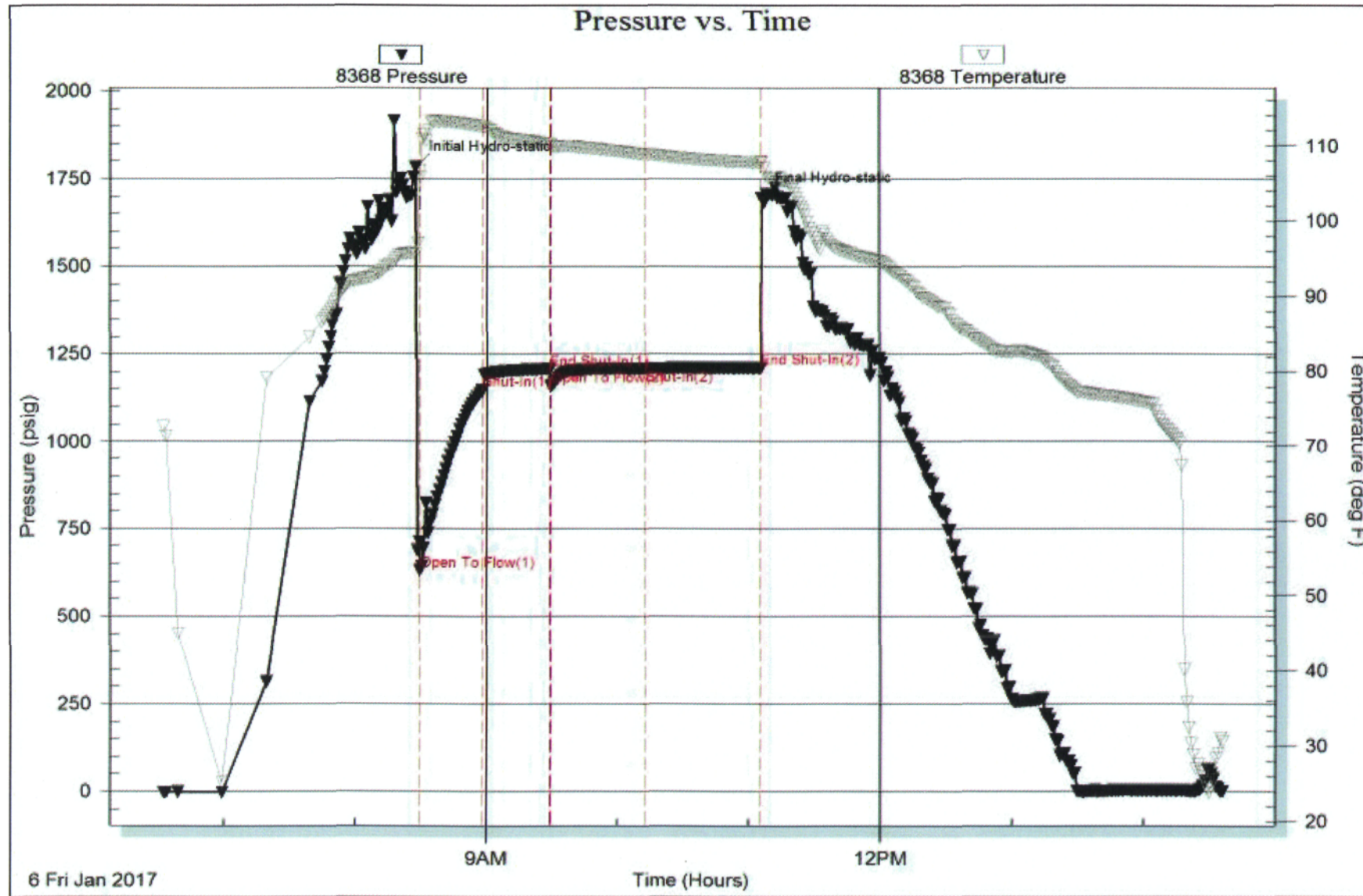
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# 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. 3113

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-2-17	29	21	12	Stallord	Ks		19:15 PM

Location *Dartmouth elevator - 12 1/2 S, E1s*

Lease	Well No.	Owner
<i>Tiepeman</i>	<i>2</i>	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		
<i>Southward 3</i>		
Type Job		
<i>Surface</i>		
Hole Size	T.D.	Charge To
<i>12 1/4"</i>	<i>663'</i>	<i>Ma: oil operations</i>
Csg.	Depth	Street
<i>8 5/8"</i>	<i>663'</i>	
Tbg. Size	Depth	City
		State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered
<i>20'</i>	<i>20'</i>	<i>450 60/40 3 1/2 cc 2% Gel</i>
Meas Line	Displace	
	<i>41 BCS</i>	<i>1/2 lb Flow Seal</i>

**EQUIPMENT**

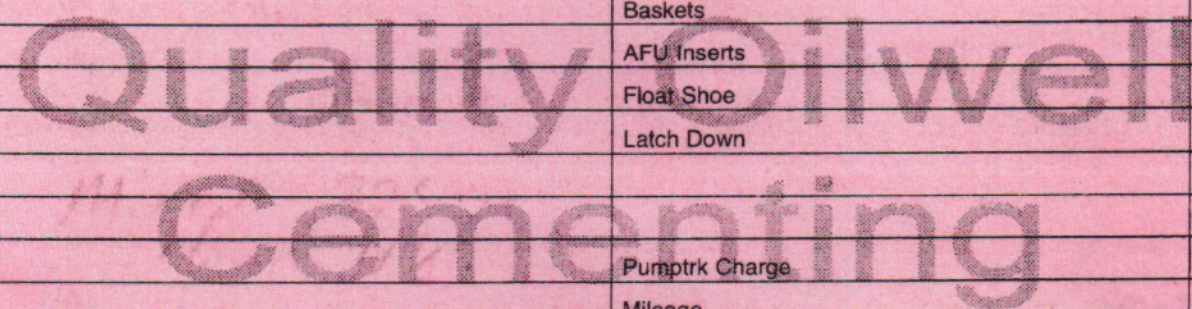
Pumptrk	No.	Cementer		Common
<i>5</i>		Helper	<i>Becht</i>	Poz. Mix
Bulktrk	No.	Driver	<i>Doug</i>	Gel.
<i>4</i>		Driver	<i>Rick</i>	Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
<i>Cement did Circulate</i>	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	
<i>Rubber plug</i>	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge		
Mileage		
		Tax
		Discount
		Total Charge

X Signature *[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. 3116

Date	1-8-17	Sec.	29	Twp.	21	Range	12	County	Stafford	State	Ks	On Location		Finish	2:30PM
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Location Dartmouth, Ks - 12 1/2 S E/3rd

Lease	Tieperman	Well No#	2	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Southwind #3	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.	3672'	Street	
Csg. New	5 1/2" 111'	Depth	3671'	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	160 60/40 10% Salt 2% Gel
Cement Left in Csg.	21.89'	Shoe Joint	21.89'	Mud Flo seal - 1000 gal mud clear 48	
Meas Line		Displace	89' BLS	Common	

**EQUIPMENT**

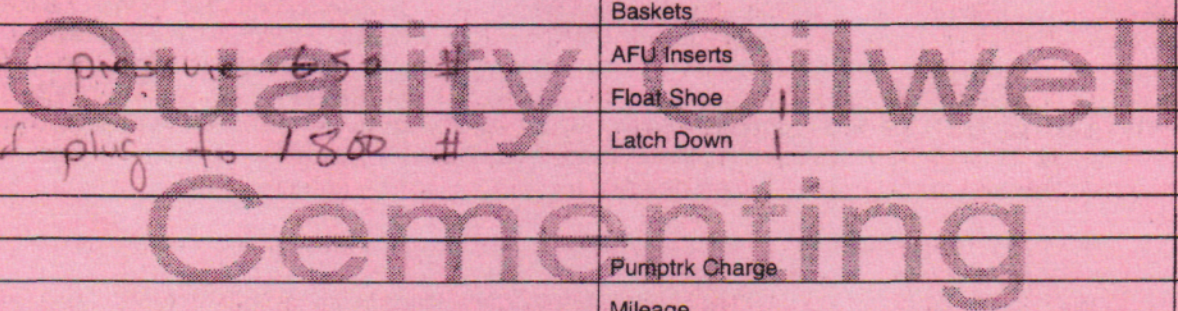
Pumptrk	20	No.	Cementer		Poz. Mix
			Helper	Brell	
Bulktrk	9	No.	Driver	Nick	Gel.
			Driver		
Bulktrk	PU	No.	Driver	Rock	Calcium
			Driver		

**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
48" plug	Sand
to casing	Handling
shut down	Mileage
Released plug	
Displaced w/ 81' BLS of H2O. Released & held.	

**FLOAT EQUIPMENT**

Life pressure	650 #	Guide Shoe	
Land plug to	1800 #	Centralizer	11
		Baskets	
		AFU Inserts	
		Float Shoe	1
		Latch Down	1



Pumptrk Charge		Tax	
Mileage		Discount	
		Total Charge	

X Signature Jay [unclear]