



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1187264  
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: \_\_\_\_\_

1187264

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Martin Dietz 1
Doc ID	1187264

Tops

Name	Top	Datum
Anhydrite	824	+1015
Tarkio Lime	2465	-626
Topeka	2728	-889
Heebner	2959	-1120
Toronto	2976	-1137
Lansing	3018	-1179
Base Kansas City	3226	-1387
Arbuckle	3271	-1432





**JAMES C. MUSGROVE**

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations  
Martin Dietz #1  
SW-NW-SE-NW (1840' FNL & 1375' FWL)  
Section 9-15s-14w  
Russell County, Kansas  
Page 1

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

**Contractor:** Southwind Drilling Co. (Rig #3)  
**Commenced:** November 29, 2013  
**Completed:** December 4, 2013  
**Elevation:** 1839' K.B; 1837' D.F; 1831' G.L.  
**Casing program:** Surface; 8 5/8" @ 477'  
Production; 5 1/2" @ 3357'  
**Sample:** Samples saved and examined 2300' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2300 ft. to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were three (3) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Nabors; Dual Induction, Compensated Density/Neutron and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	824	-1015
Base Anhydrite	857	+982
Grand Haven	2392	-553
1 <sup>st</sup> Tarkio Sand	2403	-564
Dover	2418	-579
2 <sup>nd</sup> Tarkio Sand	2428	-589
Tarkio Lime	2465	-626
Elmont	2526	-687
Howard	2664	-825
Topeka	2728	-889
Heebner	2959	-1120
Toronto	2976	-1137
Lansing	3018	-1179
Base Kansas City	3226	-1387
Conglomerate	3250	-1411
Arbuckle	3271	-1432
Rotary Total Depth	3365	-1526
Log Total Depth	3358	-1519

(All tops and zones corrected to Electric Log measurements).

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

1 <sup>st</sup> Tarkio Sand	2403	-564
Dover	2418	-579
2 <sup>nd</sup> Tarkio Sand	2428	-589
Tarkio Lime	2465	-626
Elmont	2526	-687



Recovery: 1220' gas in pipe  
375' very heavily oil and gas cut thin watery mud  
(55% oil, 30% gas, 10% mud, 5% mud)

### 1<sup>ST</sup> TARKIO SAND SECTION

2403-2413' Sand; gray, grayish green, very fine grained, silty, poorly developed, no shows.

### 2<sup>ND</sup> TARKIO SAND SECTION

2428-2442' Sand; gray, very fine grained, sub rounded, friable, fair intergranular porosity, micaceous, few shaley, fair stain and saturation, fair show of free oil and faint odor in fresh samples.

### Drill Stem Test #1 2404-2460' (Log corrected 2397-2453)

Times: 30-30-45-45

Blow: Strong

Recovery: 1220' gas in pipe  
375' very heavily oil and gas cut thin watery mud  
(55% oil, 30% gas, 10% mud, 5% mud)

Pressures: ISIP 715 psi  
FSIP 706 psi  
IFP 42-128 psi  
FFP 147-231 psi  
HSH 1179-1105 psi

### TOPEKA SECTION

2803-2814' Limestone; white, few fossiliferous, chalky, poor visible porosity, trace brown stain, no show of free oil and no odor.

2896-2930' Limestone; tan, finely crystalline, chalky, poor visible porosity, trace poor stain, no show of free oil and no odor in fresh samples.

### TORONTO SECTION

2976-2990' Limestone; tan, cream, finely crystalline, chalky, scattered porosity, poorly developed, brown spotty stain, show of free oil and faint odor in fresh samples.

### LANSING SECTION

3018-3026' Limestone; tan, cream, finely crystalline, poor scattered porosity, light brown stain, trace of free oil and questionable odor.

3043-3050' Limestone; tan, finely crystalline, scattered sub-oomoldic type porosity, few cherty, trace stain, weak show of free oil and no odor in fresh samples.

3061-3071' Limestone; tan, finely crystalline, oomoldic, good oomoldic porosity, fair stain, good show of free oil and faint odor in fresh samples.



FSIP 55 psi  
 IFP 14-16 psi  
 FFP 16-18 psi  
 HSH 1554-1482 psi

Limestone; tan, finely crystalline, poorly developed porosity, chaly, trace poor stain, trace of free oil and no odor in fresh samples.

**Drill Stem Test #2 3034-3084' (Log corrected 3027-3077)**

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

**Blow: Weak**

**Recovery: 10' mud**

**Pressures:** ISIP 56 psi  
 FSIP 55 psi  
 IFP 14-16 psi  
 FFP 16-18 psi  
 HSH 1554-1482 psi

3096-3106' Limestone; tan, finely crystalline, poorly developed porosity, chaly, trace poor stain, trace of free oil and no odor in fresh samples.

3113-3130' Limestone; tan, finely crystalline, oomoldic, poor to fair oomoldic porosity, trace stain, show of free oil and no odor in fresh samples.

3142-3155' Limestone; cream, tan, finely crystalline, slightly cherty, scattered porosity, no shows.

3162-3177' Limestone; cream, finely crystalline, few fossiliferous, poor porosity, no shows.

3188-3196' Limestone; tan, brown, finely crystalline, slightly cherty, trace light brown stain, no free oil and no odor.

3201-3210' Limestone; white, oolitic, chaly, poorly developed porosity, chaly, no shows.

**CONGLOMERATE SECTION**

3250-3271' Varied colored chert in matrix of red/green/gray shales.

**ARBUCKLE SECTION**

3271-3290' Dolomite; white, finely crystalline, granular, sucrosic, poor scattered porosity, no shows.

3290-3299' Dolomite; white, finely crystalline, fair to good intercrystalline, porosity, poor stain, trace of free oil and no odor in fresh samples.

**Drill Stem Test #3** **3232-3310' (Log corrected 3225-3303)**

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

**Blow: Strong**

**Recovery: 2340' water**

**Pressures: ISIP 1096 psi**  
**FSIP 1101 psi**  
**IFP 723-935 psi**  
**FFP 935-1085 psi**  
**HSH 1771-1600 psi**

- 3299-3310' Dolomite; white, finely crystalline, dense, poor porosity.
- 3310-3330' Dolomite; as above, increase in porosity, no show.
- 3330-3353' Dolomite; white, rose/pink, finely crystalline, granular in part, no shows.
- 3353-3358' Dolomite; white, sandy, poor porosity, no shows.

**Rotary Total Depth 3365**  
**Log Total Depth 3358**

**Recommendations: 5 1/2" production casing was set and cemented in the Martin Dietz #1.**

Respectfully submitted;

*James C. Musgrove and Wyatt Urban*

James C. Musgrove and  
Wyatt Urban,  
Petroleum Geologists

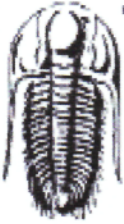


**Rotary Total Depth 3365**  
**Log Total Depth 3358**

**Recommendations: 5 1/2" production casing was set and cemented in the Martin Dietz #1.**

*Wyatt Urban*





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations, Inc.  
 8411 Preston Rd. Ste. 800  
 Dallas, TX 75225  
 ATTN: Jim Musgrove

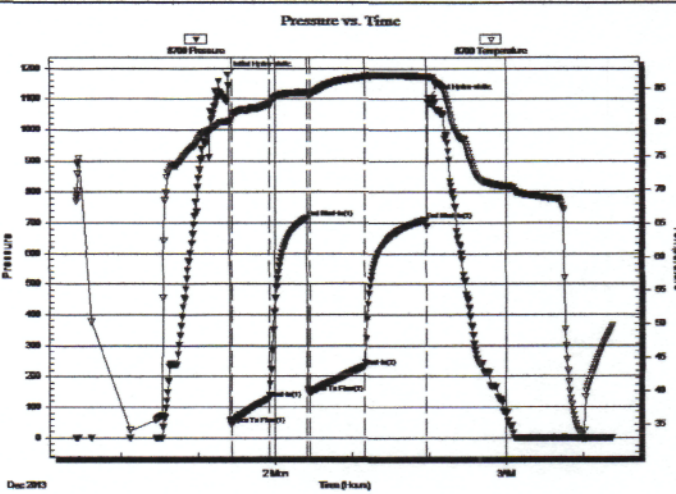
**9-15s-14w Russell,KS**  
**Martin Dietz #1**  
 Job Ticket: 55429      **DST#: 1**  
 Test Start: 2013.12.01 @ 21:24:53

**GENERAL INFORMATION:**

Formation: **Tarkio**  
 Deviated: **No Whipstock:**      ft (KB)  
 Time Tool Opened: 23:26:08  
 Time Test Ended: 04:22:53  
 Interval: **2404.00 ft (KB) To 2460.00 ft (KB) (TVD)**  
 Total Depth: **2460.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Brannan L**  
 Unit No: **70**  
 Reference Elevations: **1839.00 ft (KB)**  
    **1831.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8700      Outside**  
 Press@RunDepth: **231.30 psig @ 2408.00 ft (KB)**  
 Start Date: **2013.12.01**      End Date: **2013.12.02**  
 Start Time: **21:24:58**      End Time: **04:22:52**  
 Capacity: **8000.00 psig**  
 Last Calb.: **2013.12.02**  
 Time On Btm: **2013.12.01 @ 23:22:53**  
 Time Off Btm: **2013.12.02 @ 01:58:53**

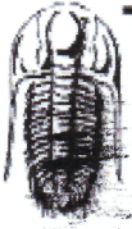
**TEST COMMENT:** 30- IF- BOB 2 mins  
 30- IS- Built to 3"  
 45- FF- BOB 1 min  
 45- FS- No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1178.48	80.11	Initial Hydro-static
4	41.89	80.67	Open To Flow (1)
33	128.06	82.72	Shut-In(1)
62	715.43	84.40	End Shut-In(1)
64	147.28	84.05	Open To Flow (2)
107	231.30	86.75	Shut-In(2)
155	709.53	86.85	End Shut-In(2)
156	1105.43	86.76	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	M	0.55
65.00	MW, 95%W	0.89
375.00	GWMCO, 55%O 30%G 10%W	5.12
0.00	1220' GIP	0.00

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mai Oil Operations, Inc.  
8411 Preston Rd. Ste. 800  
Dallas, TX 75225  
ATTN: Jim Musgrove

**9-15s-14w Russell,KS**  
**Martin Dietz #1**  
Job Ticket: 55430      **DST#: 2**  
Test Start: 2013.12.03 @ 08:04:09

## GENERAL INFORMATION:

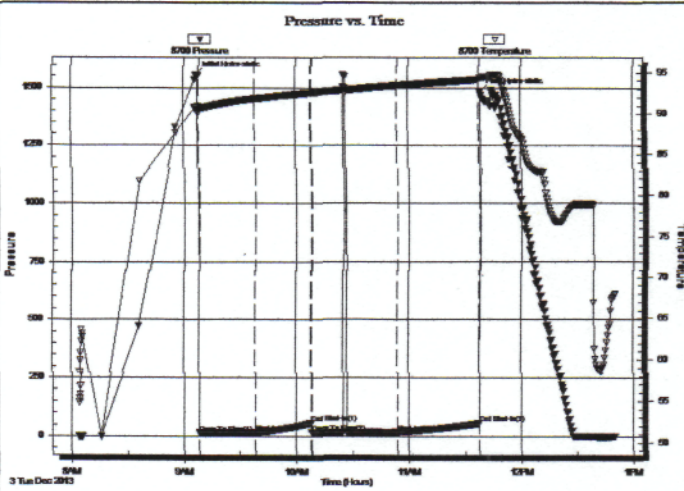
Formation: **LKC 'A-C'**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 09:08:09  
Time Test Ended: 12:50:39  
Interval: **3034.00 ft (KB) To 3084.00 ft (KB) (TVD)**  
Total Depth: 3084.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brannan L  
Unit No: 70  
Reference Elevations: 1839.00 ft (KB)  
1831.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8700

## Outside

Press@RunDepth: 17.92 psig @ 3037.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.12.03      End Date: 2013.12.03      Last Calib.: 2013.12.03  
Start Time: 08:04:14      End Time: 12:50:38      Time On Btm: 2013.12.03 @ 09:06:54  
Time Off Btm: 2013.12.03 @ 11:38:24

TEST COMMENT: 30- IF- Built to 1/2"  
30- IS- No blow  
45- FF- No blow flushed tool after 15 mins and got weak surface blow  
45- FS- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1553.77	90.85	Initial Hydro-static
2	14.14	90.08	Open To Flow (1)
32	15.82	91.83	Shut-In(1)
61	55.71	92.55	End Shut-In(1)
62	16.13	92.55	Open To Flow (2)
107	17.92	93.44	Shut-In(2)
151	55.42	94.16	End Shut-In(2)
152	1481.82	94.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.14

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mai Oil Operations, Inc.  
 8411 Preston Rd. Ste. 800  
 Dallas, TX 75225  
 ATTN: Jim Musgrove

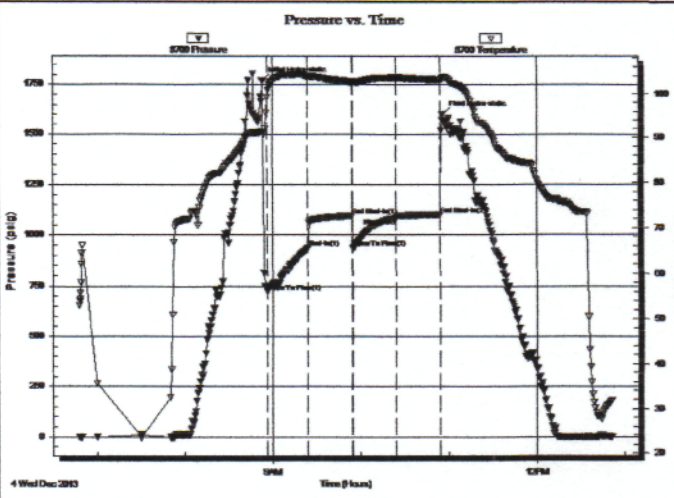
**9-15s-14w Russell,KS**  
**Martin Dietz #1**  
 Job Ticket: 55431 **DST#: 3**  
 Test Start: 2013.12.04 @ 06:48:07

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: **No Whipstock:** ft (KB)  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: 08:56:22  
 Tester: **Brannan L**  
 Time Test Ended: 12:51:07  
 Unit No: **70**  
**Interval: 3232.00 ft (KB) To 3310.00 ft (KB) (TVD)**  
 Reference Elevations: 1839.00 ft (KB)  
 Total Depth: 3310.00 ft (KB) (TVD) 1831.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**  
 Press@RunDepth: 1084.46 psig @ 3241.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.04 End Date: 2013.12.04 Last Calib.: 2013.12.04  
 Start Time: 06:48:12 End Time: 12:51:06 Time On Btm: 2013.12.04 @ 08:52:52  
 Time Off Btm: 2013.12.04 @ 10:55:52

**TEST COMMENT:** 30- IF- BOB 30 secs  
 30- IS- Surface blow  
 30- FF- BOB 30 secs  
 30- FS- No blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.99	91.35	Initial Hydro-static
4	722.95	99.11	Open To Flow (1)
31	934.43	103.78	Shut-In(1)
61	1095.92	102.56	End Shut-In(1)
62	934.82	102.49	Open To Flow (2)
91	1084.46	103.61	Shut-In(2)
122	1101.29	103.07	End Shut-In(2)
123	1599.98	103.49	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
2340.00	Water	31.97

\* Recovery from multiple tests

**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. 7490

Date	11-29-13	Sec.	9	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	5:00pm
Location								Jms House 25 1/2 E S 17 N							

Lease	Martin Dietz	Well No. #		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	Southwind #3			Charge To	ma. oil										
Type Job	Surface			Street											
Hole Size	12 1/4	T.D.	477	City	State										
Csg.	8 5/8	Depth	477	The above was done to satisfaction and supervision of owner agent or contractor.											
Tbg. Size		Depth		Cement Amount Ordered	250 6 1/4 3:1 CC 2:1 GEL										
Tool		Depth													
Cement Left in Csg.	30'	Shoe Joint													
Meas Line		Displace	28 1/2 BBL												

**EQUIPMENT**

Pumptrk	17	No.	Cementer		Common
			Helper		Poz. Mix
Bulktrk		No.	Driver		Gel.
			Driver		Calcium
Bulktrk	1	No.	Driver	Lonnie M.	
			Driver		

**JOB SERVICES & REMARKS**

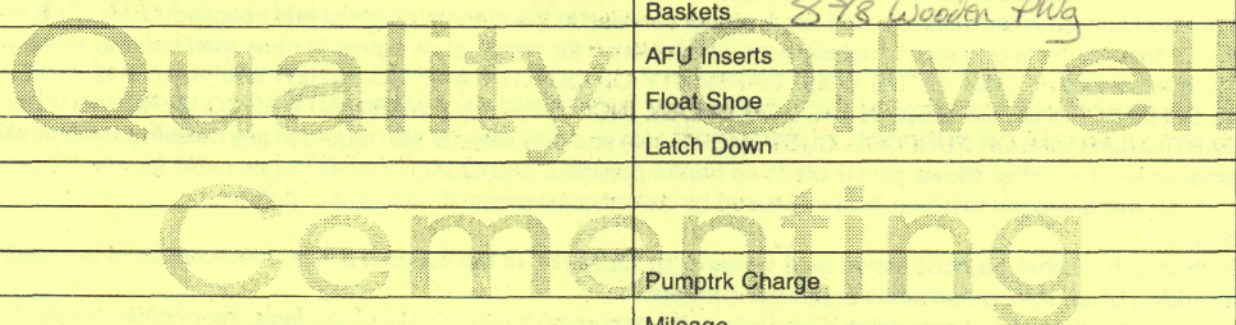
Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
		Sand
		Handling
		Mileage

**FLOAT EQUIPMENT**

		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

		Pumptrk Charge
		Mileage
		Tax
		Discount
		Total Charge

X Signature *Greg Davis*



8 5/8 on bottom B.C. Circulation mix  
250 S.C. Displace Plug  
Cement + Circulator



# 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. 7575

Date	12-5-13	Sec.	9	Twp.	15	Range	14	County	Russell	State	Ks	On Location		Finish	11:15 AM
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Location Russell, Ks S to Walter's Lane, 2w

Lease	Martin-Dietz	Well No.	1	Owner	1/2 S, 1/4 E, S1 Into
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	Production			Charge To	Main oil operations
Hole Size	7 7/8"	T.D.	3365'	Street	
Csg.	New 5 1/2" 14#	Depth	3361'	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	13055 60/40 18% Salt 2% Gel 1/4# Fl-seal
Meas Line		Displace	8 1/2 BLS	1005x 60/40 10% Salt 2% Gel 1/4# Fl-seal 1000 gal mud clear 48	

**EQUIPMENT**

Pumptrk	16	No.	Cementer	Billy	Rick	Common
			Helper			
Bulktrk	1	No.	Driver	Clayton		Poz. Mix
			Driver			Gel.
Bulktrk	14	No.	Driver	Lontie	M.	Calcium
			Driver			

**JOB SERVICES & REMARKS**

Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers	1-10, 21, 24	Kol-Seal
Baskets	2, 11	Mud CLR 48
D/V or Port Collar	pipe on bottom break	CFL-117 or CD110 CAF 38
	Circulation pump 1000 gal mud	Sand
	Clear 48 plug Bathole w/ 305x	Handling
	Hook to casing + mix 1005x 60/40	Mileage
	15% Salt 2% Gel 1/4# Fl-seal tailed in	<b>FLOAT EQUIPMENT</b>
	with 1005x 60/40 10% Salt 2% Gel 1/4# Fl-seal	Guide Shoe
	Shutdown. Wash pump + lines.	Centralizer
	Displaced with 8 1/2 BLS of water. Released +	turbo's 12
		Baskets
		2 Weathersford
		AFU Inserts
		Float Shoe
		Latch Down

Lift pressure 1000 #  
Land plug to 1500 #

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature Kent