



KANSAS CORPORATION COMMISSION 1064668  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5259  
Name: Mai Oil Operations, Inc.  
Address 1: 8411 PRESTON RD STE 800  
Address 2: \_\_\_\_\_  
City: DALLAS State: TX Zip: 75225 + 5520  
Contact Person: Allen Bangert  
Phone: ( 214 ) 219-8883  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: James C. Musgrove  
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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
05/31/2011    06/08/2011    06/08/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-167-23715-00-00  
Spot Description: \_\_\_\_\_  
NE SE NE NE Sec. 4 Twp. 15 S. R. 14  East  West  
675 Feet from  North /  South Line of Section  
250 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Russell  
Lease Name: Driscoll-Maier Unit Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: Arbuckle  
Elevation: Ground: 1755 Kelly Bushing: 1764  
Total Depth: 3272 Plug Back Total Depth: 3244  
Amount of Surface Pipe Set and Cemented at: 324 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: 48000 ppm Fluid volume: 80 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Mai Oil Operations, Inc.  
Lease Name: Kilian License #: 5259  
Quarter NE Sec. 21 Twp. 15 S. R. 14  East  West  
County: Russell Permit #: D30165

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

- Letter of Confidentiality Received  
Date: 10/05/2011  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 10/06/2011



1064668

Operator Name: Mai Oil Operations, Inc. Lease Name: Driscoll-Maier Unit Well #: 1  
 Sec. 4 Twp. 15 S. R. 14  East  West County: Russell

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  RAG	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;">Name Attached</td> <td style="width:33%; border: none;">Top Attached</td> <td style="width:33%; border: none;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum Attached		

CASING RECORD <input checked="" 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
Surface	12.25	8.6250	20	324	60-40 Poz	180	2 % gel, 3 % CC
Production	7.875	5.5	14	3270	60-40 Poz	155	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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
4	3206-08, 3208-10	250 gal 15% Mud acid	

TUBING RECORD:	Size: <u>2 7/8"</u>	Set At: <u>3240</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>07/15/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u>	Gas Mcf	Water Bbls. <u>100</u>	Gas-Oil Ratio 
				Gravity 

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3206-10' O.A.</u>
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Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Driscoll-Maier Unit 1
Doc ID	1064668

Tops

Name	Top	Datum
Anhydrite	763	+1001
Tarkio Lime	2404	-640
Topeka	2621	-907
Heebner	2876	-1112
Toronto	2914	1150
Lansing	2957	-1193
Base Kansas City	3155	-1391
Arbuckle	3205	1441

# ALLIED CEMENTING CO., LLC. 035880

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell

DATE <u>6-9-11</u>	SEC. <u>4</u>	TWP. <u>7S</u>	RANGE <u>14W</u>	CALLED OUT	ON LOCATION	JOB START <u>1:55 PM</u>	JOB FINISH <u>2:45 PM</u>
LEASE <u>Driscoll</u>	WELL # <u>1</u>	LOCATION <u>Russell - 281 S 1/2 R10</u>		COUNTY <u>Russell</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		1W 14N E1st4					

CONTRACTOR Southland Drilling Rig #2 OWNER \_\_\_\_\_

TYPE OF JOB Production String

HOLE SIZE 7 7/8 T.D. 3275 CEMENT AMOUNT ORDERED 155 6% 10.9 Salt

CASING SIZE 5 1/2 DEPTH 3270 2.2 Gal 1/4 # F10

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ 1000 Gal WFR-2

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON 93 @ 16.25 1511.25

MEAS. LINE \_\_\_\_\_ SHOE JOINT 20.75 POZMIX 6.2 @ 8.50 527.00

CEMENT LEFT IN CSG. \_\_\_\_\_ GEL 3 @ 21.25 63.75

PERFS. \_\_\_\_\_ CHLORIDE @ \_\_\_\_\_

DISPLACEMENT 79, 2+661 ASC @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK CEMENTER Shane

# 409 HELPER Heath WFR 2 1000 Gal @ 1.10 N/C

BULK TRUCK # 410 DRIVER Mark

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

HANDLING 171 @ 2.25 384.75

MILEAGE 11.5 hr/mile 94.05

TOTAL 2994.75

**REMARKS:**

Rat Hole 30 skt  
Case at @ 3249.25  
Mipol 125 skt down 5/2  
Shut down washed pump &  
liner. Displaced 79,2+661.

Loaded 21y @ 1500 psi  
F10.4 #10.4

**SERVICE**

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 2225.00

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE 10 @ 7.00 70.00

MANIFOLD @ \_\_\_\_\_

6.00 10 @ 4.00 40.00

TOTAL 2335.00

**PLUG & FLOAT EQUIPMENT**

11 Turbulizer @ 60.00 660.00

Float Shoe @ \_\_\_\_\_ 245.00

Catch down @ \_\_\_\_\_ 194.00

CHARGE TO: Main Oil Operations

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Thanks!

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 4951

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-31-11	4	15	14	Russell	KS		1:45 PM
Lease	Well No.		Location				
Driscoll - Maier unit	#1		184th St + Walter's Lane, 1/2 N, 1/2 S				
Contractor	Owner						
Southwind #2	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	Hole Size			Charge To			
Surface	12 1/4"			Mai oil operations			
T.D.	Depth			Street			
324'	323'						
Csg.	Tbg. Size			City			
8 5/8"				State			
Tool	Cement Left in Csg.			The above was done to satisfaction and supervision of owner agent or contractor.			
	15'			Cement Amount Ordered			
Shoe Joint	Displace			180 ex 60/40 3% CL 2% GW			
15'	19 3/4 BLS						

**EQUIPMENT**

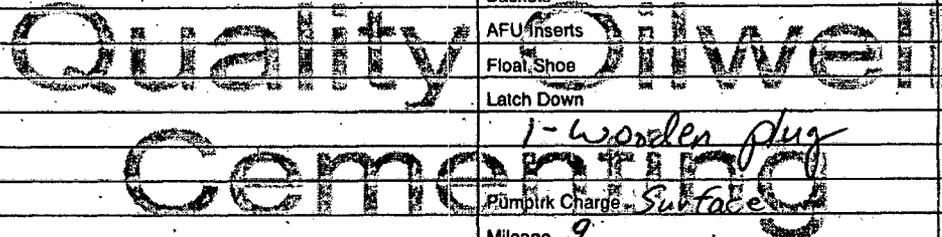
Pumptrk	No.	Cementor	Common
1		Cisco	108
Bulktrk	No.	Driver	Poz. Mix
10		Doug	72
Bulktrk	No.	Driver	Gel.
pin		Rick	3

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Cement did Circulate.	7
Rat Hole	Hulls
	Salt
Mouse Hole	Flowseal
	Koi-Seal
Centralizers	Mud CLR 48
	CFL-117 or CD110 CAF 38
Baskets	Sand
	Handling 190
D/V or Port Collar	Mileage

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
1-wooden plug	
Pumptrk Charge - Surface	
Mileage	9



Signature: <i>William Sanders</i>	Tax
	Discount
	Total Charge

**JAMES C. MUSGROVE**

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

Office (620) 588-4250

Res. Clafin (620) 587-3444

Mai Oil Operations Inc.  
Driscoll-Maier Unit #1  
NE-SE-NE-NE (675' FNL & 250' FEL)  
Section 4-15s-14w  
Russell County, Kansas  
Page 1

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

**Contractor:** Southwind Drilling Company (Rig #2)  
**Commenced:** May 31, 2011  
**Completed:** June 8, 2011  
**Elevation:** 1764' K.B; 1762 D.F; 11755' G.L.  
**Casing program:** Surface; 8 5/8" @ 324'  
Production; 5 1/2" @ 3274'  
**Sample:** Samples saved and examined 2100' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2100 ft to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were five (5) Drill Stem Tests ran by Trilobite Testing.  
**Electric Log:** By Superior Well Services; Radiation Guard Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	763	+1001
Base Anhydrite	799	+965
Grand Haven	2334	-570
1 <sup>st</sup> Tarkio Sand	2340	-576
Dover	2358	-594
2 <sup>nd</sup> Tarkio Sand	2365	-601
Tarkio Lime	2404	-640
3 <sup>rd</sup> Tarkio Sand	2424	-660
Elmont	2467	-703
Howard	2609	-845
Topeka	2671	-907
Heebner	2876	-1112
Toronto	2914	-1150
Lansing	2957	-1193
Base Kansas City	3155	-1391
Conglomerate	3175	-1431
Arbuckle	3205	-1441
Rotary Total Depth	3275	-1511
Log Total Depth	3272	-1508

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

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

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

2340-2350' Sand; gray, very fine grained, poor developed, shaley, no shows.

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

2365-2381' Sand; gray, grayish green, very fine grained, calcareous in part, few friable, trace brown stain and saturation, show of free oil and no odor in fresh samples.

Drill Stem Test #1 2338-2380'

Times: 45-30-45-45

Blow: Weak

Recovery: 31' very slightly oil cut muddy water  
(2% oil, 18% water, 80% mud)  
62' very slightly oil cut mud  
(2% oil, 98% mud)

Pressures: ISIP 431 psi  
FSIP 434 psi  
IFP 34-47 psi  
FFP 55-57 psi  
HSH 1108-1079 psi

3<sup>RD</sup> TARKIO SAND SECTION

2424-2428' Sand; gray, very fine grained, calcareous, shaley, poor visible porosity, no shows.

2431-2444' Sand; gray, grayish green, very fine grained, sub rounded, friable, fair porosity, fair stain and saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #2 2409-2470'

Times: 45-30-45-45

Blow: Weak

Recovery: 62' muddy water  
10' thin watery mud

Pressures: ISIP 695 psi  
FSIP 703 psi  
IFP 35-57 psi  
FFP 60-74 psi  
HSH 1186-1162 psi

TOPEKA SECTION

2698-2708' Limestone; gray, tan, fossiliferous, slightly cherty, questionable stain, no show of free oil and questionable odor in fresh samples.

2845-2880' Limestone; cream, gray, oolitic, chalky, brown dark brown stain, show of free oil (heavy) and no odor in fresh samples.



Drill Stem Test #4 3093-3170'

Times: 30-30-30-30  
Blow: Weak  
Recovery: 15' very slightly oil cut mud  
(4% gas, 1% oil, 95% mud)  
Pressures: ISIP 73 psi  
FSIP 67 psi  
IFP 49-57 psi  
FFP 70-88 psi  
HSH 1643-1599 psi

CONGLOMERATE SECTION

3194-3203' Trace loose unconsolidated quartz grains, no shows.

ARBUCKLE SECTION

3205-3210' Dolomite; white, cream, medium crystalline, fair intercrystalline porosity, brown stain, show of free oil and faint odor in fresh samples.  
3210-3214' Dolomite; gray, white, medium to coarse crystalline, good intercrystalline porosity, fair stain and saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #5 3176-3217'

Times: 30-30-30-30  
Blow: Strong (B.O.B. 2 mins)  
Recovery: 124' heavy oil and gas cut mud  
(30% gas, 30% oil, 40% mud)  
310' oil and gas cut muddy water  
(25% gas, 20% oil, 50% water, 5% mud)  
62' oil and gas cut muddy water  
(30% gas, 20% oil, 40% water, 10% mud)  
Pressures: ISIP 960 psi  
FSIP 927 psi  
IFP 57-166 psi  
FFP 185-258 psi  
HSH 1710-1042 psi

3214-3240' Dolomite; gray, white, medium crystalline, few finely crystalline, sandy in part, trace stain, show of free oil and questionable odor in fresh samples, plus trace white chert.  
3240-3250' Dolomite; white, cream, finely crystalline, oomoldic, fair oomoldic and vuggy type porosity (barren).  
3260-3275' Dolomite; gray, tan, pink, highly sandy, poor to fair porosity, no shows.

Mai Oil Operations Inc.  
Driscoll-Maier Unit #1  
NE-SE-NE-NE (675' FNL & 250' FEL)  
Section 4-15s-14w  
Russell County, Kansas  
Page 5

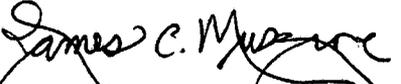
**Rotary Total Depth**      **3275**  
**Log Total Depth**        **3275**

**Recommendations:**

5 ½" production casing was set and cemented at 3274' and the following zones should be tested in the Driscoll-Maier Unit #1:

1. Arbuckle                      3206-3209

Respectfully submitted;

  
James C. Musgrove,  
Petroleum Geologist





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Mal Oil Operations Inc  
 8411 Preston RD, STE 800  
 Dallas, TX 75225-5520  
 ATTN: Jim Musgrove

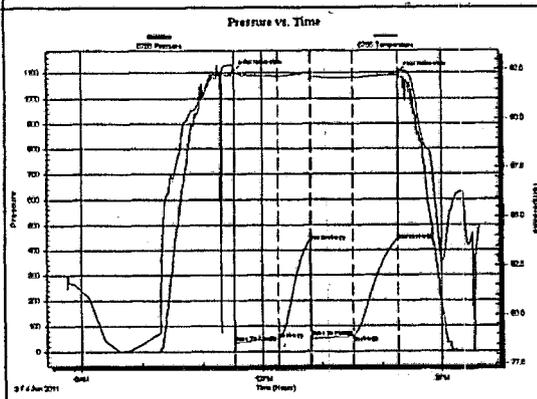
**Driscoll-Maier Unit #1**  
**4-15-14 Russell KS**  
 Job Ticket: 43857      DST#: 1  
 Test Start: 2011.06.03 @ 08:45:38

**GENERAL INFORMATION:**

Formation: **Tarkio**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **11:31:53**      Tester: **Cody Bloedorn**  
 Time Test Ended: **15:38:08**      Unit No: **54**  
 Interval: **2338.00 ft (KB) To 2380.00 ft (KB) (TVD)**      Reference Elevations: **1764.00 ft (KB)**  
 Total Depth: **2380.00 ft (KB) (TVD)**      **1755.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**      KB to GRVCF: **9.00 ft**

**Serial #: 6755**      **Outside**  
 Press@RunDepth: **57.87 psig @ 2339.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.06.03**      End Date: **2011.06.03**      Last Calib.: **2011.06.03**  
 Start Time: **08:45:40**      End Time: **15:38:08**      Time On Btm: **2011.06.03 @ 11:31:38**  
 Time Off Btm: **2011.06.03 @ 14:17:08**

**TEST COMMENT:** 45 - F- 2" Blow  
 30 - IS- No blow back  
 45 - FF- 1/2" Blow  
 45 - FS- No blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1108.03	92.72	Initial Hydro-static
1	34.66	92.17	Open To Flow (1)
45	47.45	92.18	Shut-in(1)
77	431.84	92.32	End Shut-in(1)
78	55.56	92.14	Open To Flow (2)
119	57.87	92.07	Shut-in(2)
165	434.15	92.23	End Shut-in(2)
166	1099.60	92.47	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
62.00	VSOOM 98%M, 2%O	0.87
31.00	VSOOM/V 85%M, 18%W, 2%O	0.43

Gas Rates		
Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)

**ORIGINAL**



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Mai Oil Operations Inc

Driscoll-Maier Unit #1

8411 Preston RD, STE 800  
Dallas, TX 75225-5520

4-15-14 Russell KS

Job Ticket: 43858

DST#: 2

ATTN: Jim Musgrove

Test Start: 2011.06.03 @ 22:01:41

### GENERAL INFORMATION:

Formation: Tarkio Sand

Deviated: No Whipstock ft (KB)

Time Tool Opened: 00:00:11

Time Test Ended: 04:26:41

Test Type: Conventional Bottom Hole

Tester: Cody Bloedorn

Unit No: 54

Interval: 2409.00 ft (KB) To 2470.00 ft (KB) (TVD)

Total Depth: 2470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1764.00 ft (KB)

1755.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6755

Outside

Press@RunDepth: 74.01 psig @ 2448.00 ft (KB)

Start Date: 2011.06.03

End Date:

2011.06.04

Start Time: 22:01:43

End Time:

04:26:41

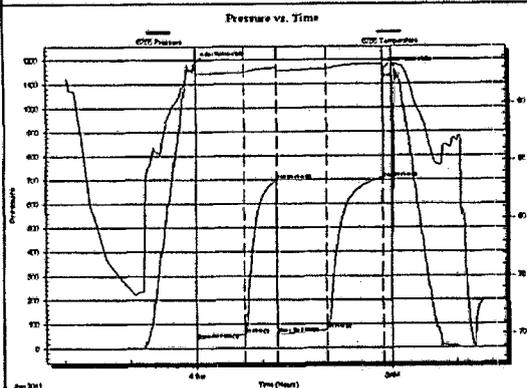
Capacity: 8000.00 psig

Last Calib.: 2011.06.04

Time On Btm 2011.06.03 @ 23:59:56

Time Off Btm 2011.06.04 @ 02:52:26

TEST COMMENT: 45 - IF- 1/2" Blow  
30 - IS- No blow back  
45 - FF- 1/4" blow  
45 - FS- No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1185.96	92.93	Initial Hydro-static
1	34.99	92.03	Open To Flow (1)
45	56.67	92.66	Shut-In(1)
74	695.56	93.06	End Shut-In(1)
75	60.27	92.80	Open To Flow (2)
120	74.01	92.97	Shut-In(2)
172	702.65	93.42	End Shut-In(2)
173	1161.55	93.66	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	WM 80%M, 10 %W	0.14
62.00	WM 30%W 70%M	0.87

### 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 75225-5520  
 ATTN: Jim Musgrove

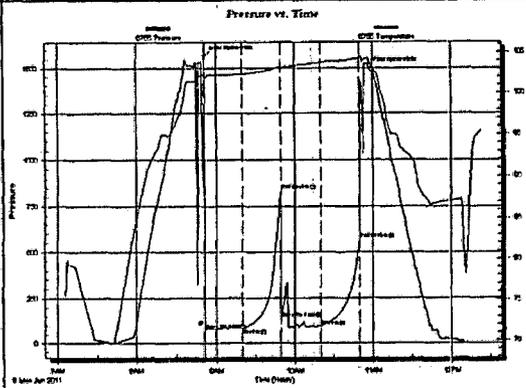
**Driscoll-Maler Unit #1**  
**4-15-14 Russell KS**  
 Job Ticket: 43859      DST#: 3  
 Test Start: 2011.06.06 @ 07:06:17

**GENERAL INFORMATION:**

Formation: **KC**  
 Deviated: **No** Whipstock      ft (KB)  
 Time Tool Opened: 08:51:32  
 Time Test Ended: 12:23:17  
 Interval: **2966.00 ft (KB) To 3050.00 ft (KB) (TVD)**  
 Total Depth: **3050.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole**  
 Tester: **Cody Bloedorn**  
 Unit No: **54**  
 Reference Elevations: **1764.00 ft (KB)**  
    **1755.00 ft (CF)**  
    KB to GR/CF: **9.00 ft**

**Serial #: 6755**      **Outside**  
 Press@RunDepth: **93.40 psig @ 2967.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.06.06**      End Date: **2011.06.06**      Last Calib.: **2011.06.06**  
 Start Time: **07:06:19**      End Time: **12:23:17**      Time On Btm: **2011.06.06 @ 08:51:17**  
    **12:23:17**      Time Off Btm: **2011.06.06 @ 10:57:17**

**TEST COMMENT:** 30 - IF- 2" Blow  
 30 - IS- No blow back  
 30 - FF- 1 1/4" blow  
 30 - FS- No blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.18	102.45	Initial Hydro-static
1	74.97	101.88	Open To Flow (1)
29	81.28	102.38	Shut-In (1)
58	838.80	103.29	End Shut-In (1)
59	138.44	102.83	Open To Flow (2)
89	93.40	103.81	Shut-In (2)
119	570.78	104.30	End Shut-In (2)
126	1495.65	104.02	Final Hydro-static

Recovery		
Length (ft)	Description	Volum (bbl)
72.00	2%O, 18%M, 80%M	1.01

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



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

M&I Oil Operations Inc  
8411 Preston RD, STE 800  
Dallas, TX 75225-5520  
ATTN Jim Musgrove

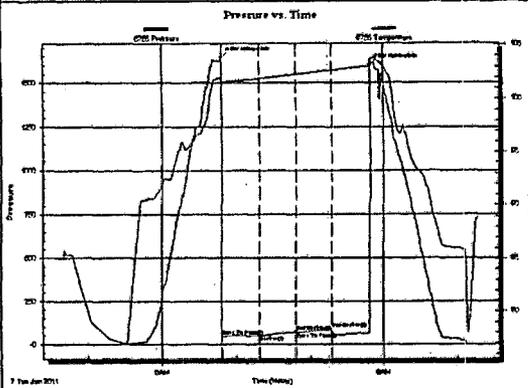
Driscoll-Maier Unit #1  
4-15-14 Russell KS  
Job Ticket: 43860 DST#: 4  
Test Start: 2011.06.07 @ 04:40:28

**GENERAL INFORMATION:**

Formation: KC  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:48:28  
Time Test Ended: 10:17:28  
Interval: 3093.00 ft (KB) To 3170.00 ft (KB) (TVD)  
Total Depth: 3170.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Cody Bloedorn  
Unit No: 54  
Reference Elevations: 1764.00 ft (KB)  
1755.00 ft (CF)  
KB to GR/CF: 9.00 ft

Serial #: 6755 Outside  
Press@RunDepth: 51.78 psig @ 3162.00 ft (KB)  
Start Date: 2011.06.07 End Date: 2011.06.07  
Start Time: 04:40:30 End Time: 10:17:28  
Capacity: 8000.00 psig  
Last Calib.: 2011.06.07  
Time On Btm: 2011.06.07 @ 06:48:13  
Time Off Btm: 2011.06.07 @ 08:48:58

TEST COMMENT: 30 - IF- 1/4" blow, dying  
30 - IS- No blow back  
30 - FF- No blow back  
30 - FS- No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.32	101.99	Initial Hydro-static
1	49.08	101.38	Open To Flow (1)
31	51.78	101.89	Shut-in(1)
60	73.05	102.28	End Shut-in(1)
61	70.05	102.28	Open To Flow (2)
90	88.50	102.66	End Shut-in(2)
121	1599.72	103.61	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (tbl)
15.00	VSGOOM 1%O, 4%G, 95%M	0.21

**Gas Rates**

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



**TRIOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc  
 8411 Preston RD, STE 800  
 Dallas, TX 75225-5520  
 ATTN: Jim Musgrove

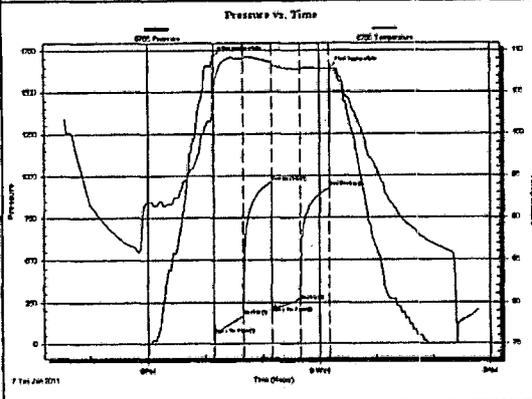
Driscoll-Maier Unit #1  
 4-16-14 Russell KS  
 Job Ticket: 43861 DST#: 5  
 Test Start: 2011.06.07 @ 19:33:24

**GENERAL INFORMATION:**

Formation: Arbuckle  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:08:24  
 Time Test Ended: 02:48:39  
 Interval: 3176.00 ft (KB) To 3217.00 ft (KB) (TVD)  
 Total Depth: 3217.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Cody Bloedorn  
 Unit No: 54  
 Reference Elevations: 1764.00 ft (KB)  
 1755.00 ft (CF)  
 KB to GR/CF: 9.00 ft

Serial #: 6755 Outside  
 Press@RunDepth: 258.03 psig @ 3214.00 ft (KB)  
 Start Date: 2011.06.07 End Date: 2011.06.08  
 Start Time: 19:33:26 End Time: 02:48:39  
 Capacity: 8000.00 psig  
 Last Calib.: 2011.06.08  
 Time On Btm: 2011.06.07 @ 22:08:09  
 Time Off Btm: 2011.06.08 @ 00:11:09

TEST COMMENT: 30 - IF- B.O.B. in 3 Mn.  
 30 - IS- No blow back  
 30 - FF- B.O.B. in 13 Mn.  
 30 - FS- No blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.78	102.72	Initial Hydro-static
1	57.16	103.71	Open To Flow (1)
32	166.93	108.98	Shut-In(1)
61	960.73	108.58	End Shut-In(1)
62	185.76	108.18	Open To Flow (2)
92	258.03	107.71	Shut-In(2)
123	927.41	107.83	End Shut-In(2)
123	1642.26	107.99	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
124.00	30%O, 30%G, 40%M	1.74
310.00	5%M, 20%O, 25%G, 50%W	4.35
62.00	10%M, 20%O, 30%G, 40%W	0.87

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

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

October 05, 2011

Allen Bangert  
Mai Oil Operations, Inc.  
8411 PRESTON RD STE 800  
DALLAS, TX 75225-5520

Re: ACO1  
API 15-167-23715-00-00  
Driscoll-Maier Unit 1  
NE/4 Sec.04-15S-14W  
Russell 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,  
Allen Bangert

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

October 06, 2011

Allen Bangert  
Mai Oil Operations, Inc.  
8411 PRESTON RD STE 800  
DALLAS, TX 75225-5520

Re: ACO-1  
API 15-167-23715-00-00  
Driscoll-Maier Unit 1  
NE/4 Sec.04-15S-14W  
Russell County, Kansas

Dear Allen Bangert:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 05/31/2011 and the ACO-1 was received on October 05, 2011 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department