

Operator Name: Mai Oil Operations, Inc. Lease Name: McMullen-Helfrich Well #: 1
 Sec. 15 Twp. 17 S. R. 15 East West County: Barton

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 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 type="checkbox"/> Yes <input checked="" 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 <i>(Submit Copy)</i> List All E. Logs Run: CNFD, DIL, Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>964'</td> <td>+973</td> </tr> <tr> <td>Topeka</td> <td>2922'</td> <td>-985</td> </tr> <tr> <td>Heebner</td> <td>3155'</td> <td>-1218</td> </tr> <tr> <td>Toronto</td> <td>3168'</td> <td>-1231</td> </tr> <tr> <td>Lansing</td> <td>3216</td> <td>-1279</td> </tr> <tr> <td>Base Kansas City</td> <td>3448'</td> <td>-1511</td> </tr> <tr> <td>Arbuckle</td> <td>3510</td> <td>-1573</td> </tr> </table>	Name	Top	Datum	Anhydrite	964'	+973	Topeka	2922'	-985	Heebner	3155'	-1218	Toronto	3168'	-1231	Lansing	3216	-1279	Base Kansas City	3448'	-1511	Arbuckle	3510	-1573
Name	Top	Datum																							
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Arbuckle	3510	-1573																							

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 1/4"	8 5/8"	23#	945'	60-40 POZ	350	2% gel, 3%CC
Production	7 7/8"	5 1/2"	14#	3539'	60-40 POZ	150	

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	3398-3402', 3382-86', 3363-67', 3296-3300', 3234-38'	5000 gal 20% HCL	

TUBING RECORD:	Size: 2 7/8"	Set At: 3505'	Packer At: 3351'	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 1/14/2010		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls. 50	Gas Mcf	Water Bbls. 20	Gas-Oil Ratio

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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 3234-3300' OA <div style="text-align: right; font-weight: bold; font-size: 1.2em;">RECEIVED</div>
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MAR 24 2010
KCC WICHITA

QUALITY OILWELL CEMENTING, INC.

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

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

No. 3017

Date	12-11-09	Sec.	13	Twp.	17	Range	15	County	Barton	State	Ks	On Location		Finish	5:30pm	
Lease	McCullen - Helffrick			Well No.	1			Location	Galatia 1E 4S 1W 3/4S W1W1S							
Contractor	Southwind Rig 3							Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Long Surface							Charge To	Mai Oil							
Hole Size	12 1/4		T.D.	945			Depth	944								
Csg.	8 1/8		Depth													
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.	40'		Shoe Joint													
Press Max.			Minimum													
Meas Line			Displace	57 1/2 BBL			Amount Ordered	350 6 2/40 3 1/2 CC 2 1/2 gel								
Perf.			Common													
				Poz. Mix												
				Gel.												
				Calcium												
				Mills												
				Salt												
				Flowseal												
EQUIPMENT																
Pumptrk	9	No.	Cementer	Blake												
			Helper													
Bulktrk	10	No.	Driver	Rocky												
			Driver													
Bulktrk	PU	No.	Driver	Dave												
			Driver													
JOB SERVICES & REMARKS																
Pumptrk Charge	Long Surface															
Mileage																
Footage																
			Total													
Remarks:	Cement				CIT											
	Thanks															
				Handling												
				Mileage												
				Pump Truck Charge												
FLOAT EQUIPMENT																
				Guide Shoe												
				Centralizer												
				Baskets												
				AFU Inserts	8 1/8 solid rubber plug 1 8 1/8 Baffle plate											
				Rotating Head												
				Squeez Mainfold												
				Tax												
				Discount												
				Total Charge												
X	Signature															

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ALLIED CEMENTING CO., LLC. 33682

O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

17-09	SEC. 15	TWP. 17	RANGE 15	CALLED OUT	ON LOCATION	JOB START 8:45 pm	JOB FINISH 9:30 pm
WELL # <u>Allen-Helfrich 1</u>		LOCATION <u>Hwy 281 south to Rd 150</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
D OR <u>(NEW)</u> (Circle one)		to West to 100 Ave Rd. 3/4 South West into					

CONTRACTOR Southwind #3
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 3540'
 CASING SIZE 5 1/2 14 # DEPTH 3539'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
~~Insert~~ Insert DEPTH 3518.4'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 20.60'
 CEMENT LEFT IN CSG. 20.60'
 PERFS.
 DISPLACEMENT 85.84 Bbl

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts
 # 417 HELPER Craig
 BULK TRUCK
 # 378 DRIVER Matt
 BULK TRUCK
 # DRIVER

REMARKS:

Insert @ 3518.4 Est. Circulation of circ 45min
on Bottom Pump 1000 gal WFR-2, Plug
Rathole w/ 30sk cement Mix 120 sk
Cement stop pump change manifold and
displace plug w/ 85.84 Bbl H2O
Land plug @ 1900 psi
Float Did Hold!
 Thank You!

CHARGE TO: Mai Oil Operations
 STREET _____
 CITY _____ STATE _____ ZIP _____

OWNER _____

CEMENT
 AMOUNT ORDERED 150 60/40 10% salt 2% C-1 #4 Fl.
1000 gal WFR-2

COMMON	<u>90</u>	@	<u>13.50</u>	<u>1215.00</u>
POZMIX	<u>60</u>	@	<u>7.55</u>	<u>453.00</u>
GEL	<u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE		@		
ASC		@		
<u>Salt</u>	<u>6</u>	@	<u>21.25</u>	<u>127.50</u>
<u>Fl. Sal</u>	<u>37</u>	@	<u>2.45</u>	<u>90.65</u>
<u>WFR-2</u>	<u>1000 Gal</u>	@		<u>N-C</u>
		@		
		@		
		@		
		@		
HANDLING	<u>150</u>	@	<u>2.25</u>	<u>337.50</u>
MILEAGE	<u>110/sk/mile</u>			<u>450.00</u>
TOTAL				<u>2734.40</u>

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 SERVICE
 MAR 24 2010

DEPTH OF JOB _____
 PUMP TRUCK CHARGE KCC WICHITA/957.00
 EXTRA FOOTAGE @ _____
 MILEAGE 30 @ 7.00 210.00
 MANIFOLD @ _____
 @ _____
 @ _____
 TOTAL 2167.00

5 1/2 PLUG & FLOAT EQUIPMENT

<u>12-Turbelizers</u>	@	<u>58.00</u>	<u>696.00</u>
<u>Latchdown Plug</u>	@		<u>238.00</u>
<u>Float-Shoe</u>	@		<u>146.00</u>
	@		
	@		

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd
Ste 800
Dallas TX 75225-5520
ATTN: Allan Bangert

McMullen-Helfrich #1

15-17s-15w Barton KS

Job Ticket: 36739

DST#: 1

Test Start: 2009.12.14 @ 23:51:09

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: **No Whipstock** ft (KB)

Time Tool Opened: 02:13:04

Time Test Ended: 07:25:33

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3224.00 ft (KB) To 3240.00 ft (KB) (TVD)**

Total Depth: **3240.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Poor**

Reference Elevations: **1937.00 ft (KB)**

1929.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: 8365

Inside

Press@RunDepth: **250.34 psig @ 3225.01 ft (KB)**

Start Date: **2009.12.14**

End Date:

2009.12.15

Start Time: **23:51:09**

End Time:

07:25:33

Capacity: **8000.00 psig**

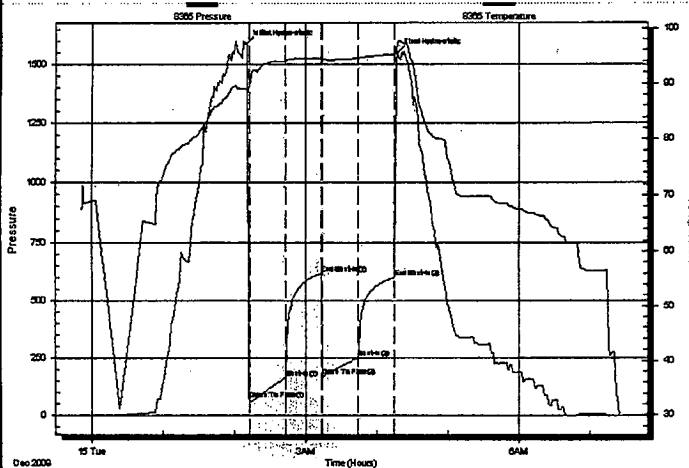
Last Calib.: **2009.12.15**

Time On Btm: **2009.12.15 @ 02:10:34**

Time Off Btm: **2009.12.15 @ 04:16:34**

TEST COMMENT: IFP-strg bl thru-out
FFP-strg bl in 2 min GTS, to weak to gauge
Times 30-30-30-30
ISIP-3/4"bl bk, FSIP-1"bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1589.45	88.95	Initial Hydro-static
3	70.95	89.72	Open To Flow (1)
32	163.00	94.06	Shut-In(1)
62	615.09	94.51	End Shut-In(1)
63	171.04	94.32	Open To Flow (2)
94	250.34	94.51	Shut-In(2)
124	597.33	95.30	End Shut-In(2)
126	1548.90	97.45	Final Hydro-static

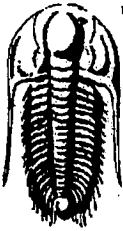
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
585.00	CO	8.21
120.00	SMGO 20%G75%O5%M	1.68

Gas Rates

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

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DRILL STEM TEST REPORT

Mai Oil Operations Inc
8411 Preston Rd
Ste 800
Dallas TX 75225-5520
ATTN: Allan Bangert

McMullen-Helfrich #1
15-17s-15w Barton KS
Job Ticket: 36740 DST#: 2
Test Start: 2009.12.15 @ 17:47:40

GENERAL INFORMATION:

Formation: **LKC E-G**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 19:15:35
Time Test Ended: 00:29:34

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

Interval: **3275.00 ft (KB) To 3314.00 ft (KB) (TVD)**
Total Depth: 3314.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1937.00 ft (KB)
1929.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8365

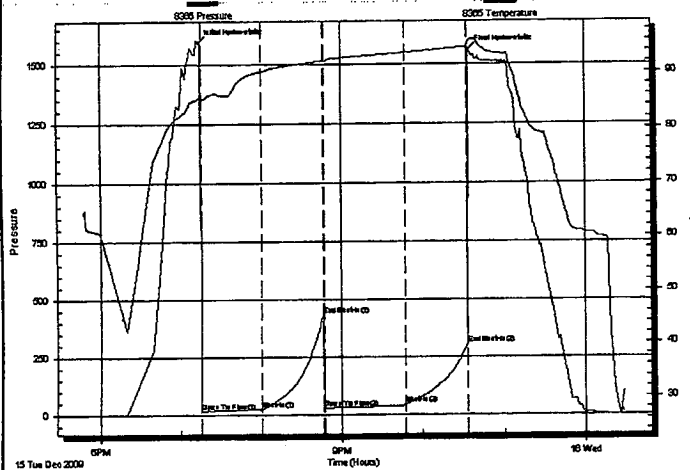
Inside

Press@RunDepth: 43.91 psig @ 3279.01 ft (KB)
Start Date: 2009.12.15 End Date: 2009.12.16
Start Time: 17:47:40 End Time: 00:29:34

Capacity: 8000.00 psig
Last Calib.: 2009.12.16
Time On Btrr: 2009.12.15 @ 19:13:35
Time Off Btrr: 2009.12.15 @ 22:34:05

TEST COMMENT: IFP-wk to a fr bl 1/2" to 4" bl
FFP-strg bl thru-out, GTS in 40 min
Times 45-45-60-45
no bl on shut-in, Gas to weak to gauge

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1592.98	85.32	Initial Hydro-static
2	14.92	85.07	Open To Flow (1)
47	24.87	90.15	Shut-In(1)
93	433.39	92.13	End Shut-In(1)
94	28.81	92.06	Open To Flow(2)
154	43.91	93.61	Shut-In(2)
200	304.68	94.64	End Shut-In(2)
201	1559.43	95.34	Final Hydro-static

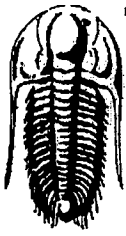
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
70.00	MGO 20%G30%M50%O	0.98

Gas Rates

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

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DRILL STEM TEST REPORT

Mai Oil Operations Inc
8411 Preston Rd
Ste 800
Dallas TX 75225-5520
ATTN: Allan Bangert

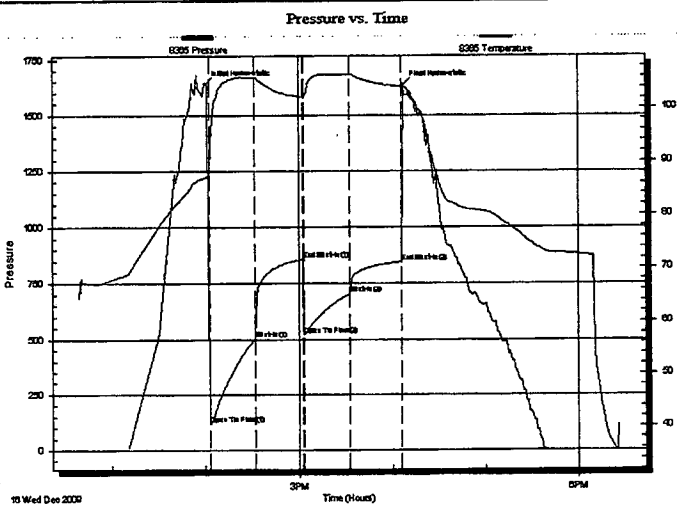
McMullen-Helfrich #1
15-17s-15w Barton KS
Job Ticket: 36741 DST#: 3
Test Start: 2009.12.16 @ 12:38:18

GENERAL INFORMATION:

Formation: **LKC H-J**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 14:02:43
Time Test Ended: 18:25:42
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **42**
Interval: **3351.00 ft (KB) To 3408.00 ft (KB) (TVD)**
Total Depth: **3408.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
Reference Elevations: **1937.00 ft (KB)**
1929.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: 8365 **Inside**
Press@RunDepth: **705.48 psig @ 3355.01 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2009.12.16** End Date: **2009.12.16** Last Calib.: **2009.12.16**
Start Time: **12:38:18** End Time: **18:25:42** Time On Btm: **2009.12.16 @ 14:00:43**
Time Off Btm: **2009.12.16 @ 16:06:43**

TEST COMMENT: IFF-strg bl, GTS in 26min, to w k to gauge
FFP-strg bl, GTS
Times 30-30-30-30
ISIP-surface bl bk, FSIP-strg bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.31	86.90	Initial Hydro-static
2	118.42	86.93	Open To Flow (1)
31	502.13	105.83	Shut-In(1)
62	858.13	102.08	End Shut-In(1)
63	520.73	101.92	Open To Flow (2)
92	705.48	106.30	Shut-In(2)
125	845.56	104.02	End Shut-In(2)
126	1634.59	104.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
50.00	GMMCO 10%G40%O40%W10%M	0.70
90.00	O&GCMW 20%G10%O60%W10%M	1.26
682.00	O&GCMW 25%G5%O60%W10%M	9.57
620.00	Water	8.70

Gas Rates

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