



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1210732
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: _____

1210732

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 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				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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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
Walker #1
SE-NE-NW-NE (625' FNL & 1590' FEL)
Section 26-16s-20w
Rush County, Kansas

Page 1

Dry and Abandoned

Contractor: Southwind Drilling Co. (rig #3)
Commenced: April 23, 2014
Completed: April 29, 2014
Elevation: 2119 K.B., 2117' D.F., 2111' G.L.
Casing program: Surface; 8 5/8" @ 1105'
Production, none
Sample: Samples saved and examined 3300' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 3300 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: -None-

<u>Formation</u>	<u>Sample Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	1345	+774
Base Anhydrite	1381	+738
Heebner	3432	-1313
Toronto	3454	-1335
Lansing	3475	-1356
Base Kansas City	3732	-1613
Marmaton	3782	-1663
Arbuckle	3853	-1734
Rotary Total Depth	3873	-1754

All tops and zones determinations were made from a correlation of Drilling Time Log and Sample Analysis).

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

TORONTO SECTION

3454-3464 Limestone, white, finely crystalline, few fossiliferous, poor visible porosity, no shows.

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Mai Oil Operations

Walker #1

SE-NE-NW-NE (625' FNL & 1590' FEL)

Section 26-16s-20w

Rush County, Kansas

Page 2

LANSING SECTION

- 3475-3482' Limestone, cream, tan, finely crystalline, cherty in part; few fossiliferous, no shows.
- 3495-3500' Limestone, cream, oolitic, chalky, poor to fair scattered porosity light golden brown stain, show of free oil and faint odor.
- 3504-3510' Limestone, cream to tan, finely crystalline, few fossiliferous, no visible porosity, no shows.
- 3520-3527' Limestone, white to tan, finely crystalline, fossiliferous, poor scattered porosity, no free oil and no odor in fresh samples.

Drill Stem Test #1 3480-3530

Times: 30-30-30-30

Blow: Weak

**Recovery: 12' very slightly oil cut mud
(1% oil; 99% mud)**

**Pressures: ISIP 77 psi
FSIP 53 psi
IFP 14-16 psi
FFP 18-20 psi
HSH 1703-1661 psi**

- 3553-3564' Limestone, cream to tan, finely crystalline, poorly developed porosity, trace brown stain, trace of free oil and no odor in fresh samples.
- 3574-3580' Limestone, tan, cream, oolitic, oomoldic, fair oomoldic to vuggy type porosity, no shows.
- 3617-3626 Limestone, cream, tan, fossiliferous, chalky, poor porosity, no shows.
- 3638-3646' Limestone, tan to gray, finely crystalline fossiliferous, poor visible porosity, cherty in part, no shows.
- 3666-3677' Limestone, cream to tan, finely crystalline, oolitic, poor developed porosity, poor visible porosity, no shows.
- 3695-3705' Limestone, cream, finely crystalline, cherty, dense, no shows.

3720-3730' Limestone, cream to tan, finely crystalline, few fossiliferous, poor visible porosity, cherty in part, no shows.

MARMATON SECTION

3781-3814' Limestone, brown, finely crystalline, cherty, poor porosity, plus amber, white, orange chert; no shows.

CONGLOMERATE SECTION

3814-3853' Varied colored shales and orange yellow, white boney cherts; no shows.

ARBUCKLE SECTION

3853-3864' Dolomite, tan, brown, finely crystalline sucrosic, poor to fair pinpoint to fine vuggy type porosity, brown stain show of free oil and faint odor in fresh samples.

Drill Stem Test #2 **3813-3863**

Times: 30-45-30-30

Blow: Weak

**Recovery: 1' clean oil
6' very slightly oil cut mud
(5% gas; 95% oil)**

**Pressures: ISIP 1023 psi
FSIP 812 psi
IFP 15-18 psi
FFP 18-19 psi
HSH 1938-1884 psi**

3863-3873' Dolomite, tan; sucrosic, fair pinpoint/inter-crystalline type porosity, trace brown//black (dead) stain, show of free oil and faint odor in fresh samples.

Mai Oil Operations
Walker #1
SE-NE-NW-NE (625' FNL & 1590' FEL)
Section 26-16s-20w
Rush County, Kansas

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Drill Stem Test #3 **3822-3873**

Times: 30-30-30-30
Blow: Strong
Recovery: 1595' muddy water
Pressures: ISIP 1176 psi
FSIP 1170 psi
IFP 79-515 psi
FFP 526-777 psi
HSH 1548-1869 psi

Rotary Total Depth 3873-1754

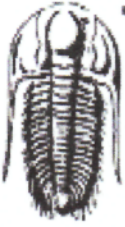
Recommendations:

The Mai Oil Operations, Inc., Walker #1, was plugged and abandoned at the Rotary Total Depth 3873-1754.

Respectfully submitted;



Wyatt Urban
Petroleum Geologist



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

26-16s-20w Rush,KS
Walker #1
Job Ticket: 58879 **DST#: 1**
Test Start: 2014.04.27 @ 11:31:00

GENERAL INFORMATION:

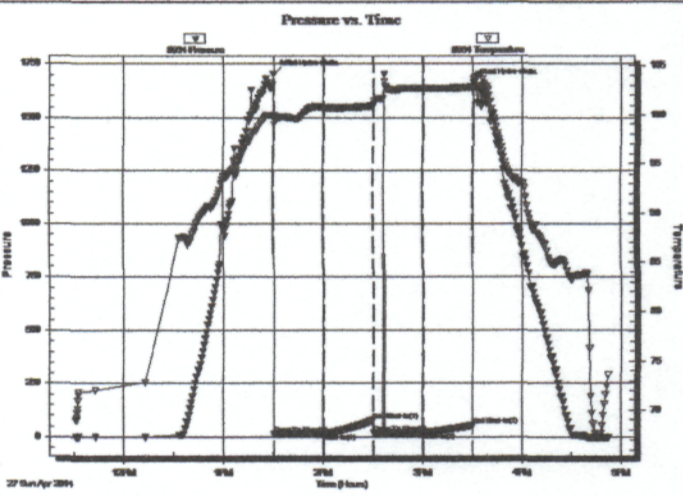
Formation: **LKC. "A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:30:45
Time Test Ended: 16:52:00
Interval: **3480.00 ft (KB) To 3530.00 ft (KB) (TVD)**
Total Depth: 3530.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Phillip Gage
Unit No: 59
Reference Elevations: 2119.00 ft (KB)
2111.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8934

Inside

Press@RunDepth: 20.20 psig @ 3481.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.04.27 End Date: 2014.04.27 Last Calib.: 2014.04.27
Start Time: 11:31:05 End Time: 16:51:59 Time On Btm: 2014.04.27 @ 13:30:30
Time Off Btm: 2014.04.27 @ 15:31:00

TEST COMMENT: 30-IF-Built to 3/4"
30-ISI-No Return
30-FF-Few bubbles then died, Flushed tool @ 14:37, built to weak surface blow.
30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1703.44	99.96	Initial Hydro-static
1	13.61	99.07	Open To Flow (1)
31	16.32	100.75	Shut-in(1)
60	77.14	100.91	End Shut-in(1)
61	17.60	101.15	Open To Flow (2)
91	20.20	102.65	Shut-in(2)
120	52.83	102.81	End Shut-in(2)
121	1661.32	103.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
12.00	VSOOM, 1%o, 99% m	0.17

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: Wyatt Urban

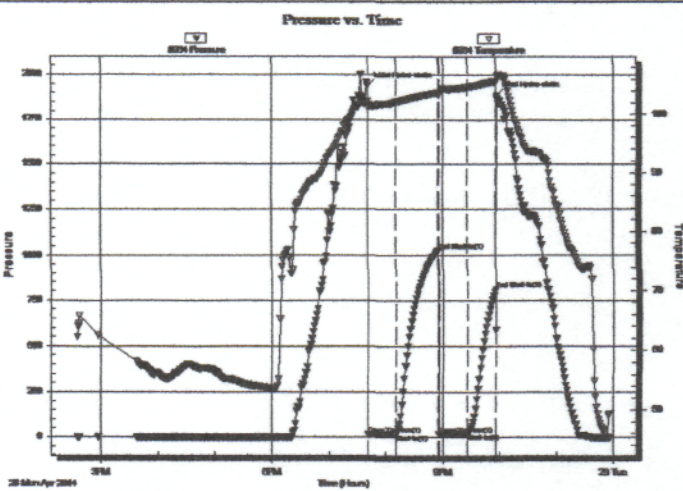
26-16s-20w Rush,KS
Walker #1
 Job Ticket: 58880 **DST#: 2**
 Test Start: 2014.04.28 @ 14:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:41:00
 Time Test Ended: 23:56:45
 Interval: **3813.00 ft (KB) To 3863.00 ft (KB) (TVD)**
 Total Depth: 3863.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Phillip Gage
 Unit No: 59
 Reference Elevations: 2119.00 ft (KB)
 2111.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 18.73 psig @ 3814.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.28 End Date: 2014.04.28 Last Calib.: 2014.04.29
 Start Time: 14:35:05 End Time: 23:56:45 Time On Btmr: 2014.04.28 @ 19:40:45
 Time Off Btmr: 2014.04.28 @ 21:56:45

TEST COMMENT: 30-IF-Built to 1/4"
 45-ISI-No Return
 30-FF-No Blow, Flushed, No Blow
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.33	102.19	Initial Hydro-static
1	15.24	101.33	Open To Flow (1)
30	17.82	102.10	Shut-In(1)
75	1023.26	103.71	End Shut-In(1)
76	17.88	103.32	Open To Flow (2)
105	18.73	104.62	Shut-In(2)
135	812.35	105.64	End Shut-In(2)
136	1884.02	106.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
6.00	VSOCM, 5%o, 95% m	0.08
1.00	O, 100%o	0.01

* 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: Wyatt Urban

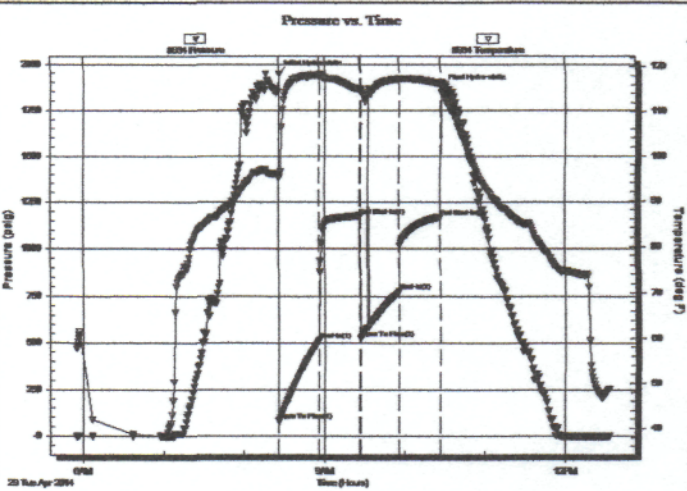
26-16s-20w Rush,KS
Walker #1
 Job Ticket: 58881 **DST#: 3**
 Test Start: 2014.04.29 @ 05:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:26:15
 Time Test Ended: 12:32:45
 Interval: **3822.00 ft (KB) To 3873.00 ft (KB) (TVD)**
 Total Depth: 3873.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Phillip Gage
 Unit No: 59
 Reference Elevations: 2119.00 ft (KB)
 2111.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 **Inside**
 Press@RunDepth: 777.17 psig @ 3823.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.29 End Date: 2014.04.29 Last Calib.: 2014.04.29
 Start Time: 05:55:05 End Time: 12:32:44 Time On Btm: 2014.04.29 @ 08:26:00
 Time Off Btm: 2014.04.29 @ 10:27:45

TEST COMMENT: 30-IF-BOB in 2 1/2 mins.
 30-ISI-No Return
 30-FF-Built to 1/2" in 4 mins, flushed, built to 1/4" then died back to weak surface blow.
 30-FSI-No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.34	95.96	Initial Hydro-static
1	79.13	95.18	Open To Flow (1)
31	515.39	118.25	Shut-In(1)
61	1175.95	114.95	End Shut-In(1)
61	526.00	114.63	Open To Flow (2)
90	777.17	117.28	Shut-In(2)
121	1170.08	116.23	End Shut-In(2)
122	1869.14	116.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1260.00	MW, 10%m, 90%w	17.67
335.00	WM, 20%w, 80%m	4.70

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

* Recovery from multiple tests

ALLIED OIL & GAS SERVICES, LLC

055230

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell KS

DATE <u>4-29-14</u>	SEC. <u>26</u>	TWP. <u>16</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION <u>3:00 PM</u>	JOB START	JOB FINISH <u>7:00 P.M</u>
LEASE <u>Walker</u>	WELL # <u>1</u>	LOCATION <u>Libenthal 15 10 W S. 10</u>			COUNTY <u>Rush</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Southwind 3
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 3875
 CASING SIZE 8 5/8 DEPTH 1105
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 16.6 DEPTH 3833
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER
 CEMENT
 AMOUNT ORDERED 190 6/40 49 gcl

EQUIPMENT
 PUMP TRUCK CEMENTER Robert Y
 # 409 HELPER Nathan D
 BULK TRUCK
 # 481 DRIVER Jesse C
 BULK TRUCK
 # DRIVER

COMMON @
 POZMIX @
 GEL @
 CHLORIDE @
 ASC @
6/40 49 gcl mix 190 @ 15.30 2907.00
 @
 @
 @
 @
 @
 @
 @
 HANDLING 190 sl @ 2.48 471.20
 MILEAGE 224 t/m @ 2.60 581.75
 TOTAL 3959.75

REMARKS:

see log

Thank you!!!

SERVICE

DEPTH OF JOB 3833
 PUMP TRUCK CHARGE 2558.75
 EXTRA FOOTAGE @
 MILEAGE 25 LVMI @ 4.40 110.00
 MANIFOLD @
50 HVMI @ 7.70 385.00
 @

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

TOTAL 3053.75

PLUG & FLOAT EQUIPMENT

8 3/8 Wooden Plug @ 110.00 110.00
 @
 @
 @
 @
 TOTAL 110.00

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 7123.70
 DISCOUNT 1068.56 IF PAID IN 30 DAYS
net \$ 6055.14

PRINTED NAME _____
 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. 053

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-24-14				Rush	Ks		8:45 AM

Location Lebenthal, Ks - 15 low 3/1 into

Lease	Walker	Well No.	1	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	Surface	Charge To <u>mai oil operations</u>			
Hole Size	12 1/4"	T.D.	1105'	Street	
Csg.	8 3/8"	Depth	1105'	City	
Tbg. Size		Depth		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	30'	Shoe Joint	30'	Cement Amount Ordered <u>450 60140 3%CC 2%Gel</u>	
Meas Line		Displace	68 1/2 BLS		

EQUIPMENT

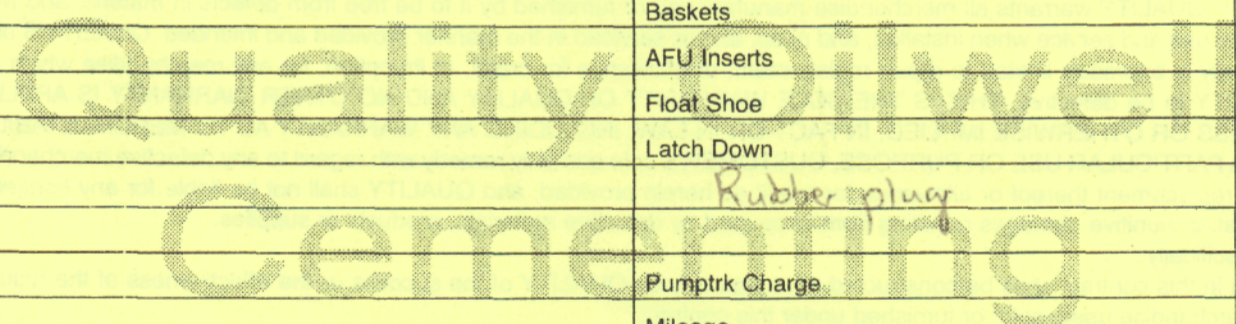
Pumptrk	16	No.	Cementer	Billy	Common
			Helper		Poz. Mix
Bulktrk	19	No.	Driver	Lonnie M.	Gel.
Bulktrk	p.u.	No.	Driver	Rick	Calcium

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	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

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	<u>Rubber plug</u>
Pumptrk Charge	
Mileage	



Signature		Tax	
		Discount	
		Total Charge	