

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251416
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: _____

1251416

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: 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

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> _____	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
Hammeke B #7
N/2-NW-SW-SE (1230' FSL & 2310' FEL)
Section 21-21s-12w
Stafford County, Kansas

Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)

Commenced: March 17, 2015

Completed: March 22, 2015

Elevation: 1854' K.B., 1852' D.F., 1846' G.L.

Casing program: Surface; 8 5/8" @ 645'
Production, 5 1/2" @ 3699'

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 two (2) Drill Stem Tests ran by Trilobite Testing Co.

Electric Log: By Nabors, Dual Induction, Compensated Density/Neutron Log and Micro and Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	661	+1193
Base Anhydrite	672	+1182
Heebner	3126	-1272
Toronto	3145	-1291
Douglas	3158	-1304
Brown Lime	3260	-1406
Lansing	3274	-1420
Base Kansas City	3494	-1640
Viola	3501	-1647
Simpson Shale	3544	-1690
Arbuckle	3597	-1743
Rotary Total Depth	3700	-1846
Log Total Depth	3704	-1850

All tops and zones corrected to Electric Log Measurement

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

TOPEKA SECTION

2839-3126' No shows of oil and/or gas was noted (see attached sample log/geologist report)

TORONTO SECTION

3145-3155' Limestone, cream, tan, finely crystalline, cherty in part, few fossiliferous, poor inter-crystalline porosity, no shows, trace black stain and no odor.

LANSING SECTION

3274-3284' Limestone, cream, tan, finely crystalline, poor visible porosity, chalky in part, no shows.

3292-3302' Limestone, brown, tan, finely crystalline, chalky, no shows.

3312-3320' Limestone, tan, oolitic, poor scattered porosity, chalky in part, no shows.

3330-3338' Limestone, cream, tan, oolitic, scattered porosity, light brown stain, trace of free oil and no odor in fresh samples.

3340-3360' Limestone, tan, buff, sub-oomoldic, poor visible porosity, chalky, no shows.

3360-3390' Limestone, cream, tan, finely crystalline, fossiliferous, sub-oomoldic, chalky, no shows.

3398-3408' Limestone, cream, tan, finely crystalline, poorly developed porosity, no shows.

3412-3424' Limestone, tan, oomoldic, fair oomoldic porosity, dark black stain, show of free oil and no odor in fresh samples.

3431-3440' Limestone, as above.

3452-3472' Limestone, tan, cream few fossiliferous, poor visible porosity, no shows.

3477-3483' Limestone, tan, finely crystalline, poor scattered vuggy type porosity, brown stain, show of free oil and faint odor in fresh samples.

VIOLA SECTION

3501-3520' Chert; white, yellow, tan, boney, scattered porosity, black and brown stain, trace of free oil and faint odor in fresh samples.

3520-3542' Chert, white, opaque, tan, dark black stain, trace of free oil and faint odor in fresh samples.

ARBUCKLE SECTION

3596-3608' Dolomite, tan, sucrosic, poorly developed porosity, brown stain, show of free oil and faint odor.

3608-3614' Dolomite, tan, buff, sucrosic, poor scattered porosity, trace stain, show of free oil and strong odor in fresh samples.

3614-3624' Dolomite, tan, finely crystalline, sucrosic, poor visible porosity, brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #1 **3527-3620**
(Log Measurements 3531-3624)

Times: 30-30-45-45

Blow: Strong

Recovery: 945' gas in pipe
 90' oil and gas cut mud
 (20% gas; 9% oil; 71% mud)
 65' oil and gas cut mud
 (31% gas; 20% oil; 49% mud)

Pressures: ISIP 206 psi
 FSIP 326 psi
 IFP 29-56 psi
 FFP 60-76 psi
 HSH 1736-1717 psi

3624-3636' Dolomite, tan, finely crystalline, poor visible porosity, trace stain, show of free oil and fair odor in fresh samples.

3646-3654' Dolomite, tan, brown, finely crystalline, poor to fair inter-crystalline and vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #2 **3621-3654**
(Log Measurements 3625-3658)

Times: 30-30-45-45

Blow: Strong

Recovery: 672' gas in pipe
 80' oil and gas cut muddy water
 (14% gas; 29% oil; 11% water; 46% mud)
 65' slightly oil and gas cut muddy water
 (4% oil; 56% water; 40% mud)

Pressures: ISIP 757 psi
 FSIP 679 psi
 IFP 51-57 psi
 FFP 64-87 psi
 HSH 1811-1777 psi

3660-3670' Dolomite, white, tan, finely crystalline, poor scattered porosity, poor inter-crystalline porosity, light black stain, show of free oil and faint/fair odor in fresh samples.

3670-3680' Dolomite, tan, finely crystalline, poor visible porosity, brown stain, no free oil and no odor in fresh samples

3680-3700' Dolomite, tan, white, finely crystalline, poor scattered porosity, cherty in part, no shows and no odor.

Mai Oil Operations
Hammeke B #7
N/2-NW-SW-SE (1230' FSL & 2310' FEL)
Section 21-21s-12w
Stafford County, Kansas

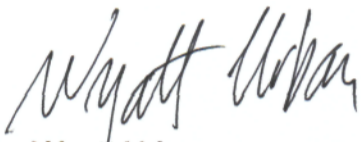
Page 4

Rotary Total Depth **3700**
Log Total Depth **3704**

Recommendations:

The 5 ½" production casing was set and cemented on Mai Oil Operation Inc., Hammeke B #7.

Respectfully yours,



Wyatt Urban
Petroleum Geologist





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations Inc.
 8400 Preston Rd. Ste. 800
 Dallas TX 75225
 ATTN: Wyatt Urban

21-21s-12w Stafford KS
Hammeke B#7
 Job Ticket: 59748 **DST#: 1**
 Test Start: 2015.03.20 @ 23:19:37

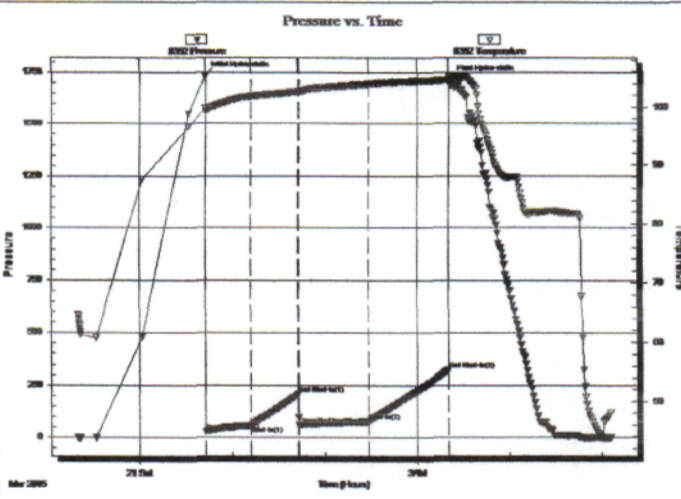
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:42:37
 Time Test Ended: 05:05:37
 Interval: **3527.00 ft (KB) To 3620.00 ft (KB) (TVD)**
 Total Depth: 3620.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gary Pevoteaux
 Unit No: 80
 Reference Elevations: 1854.00 ft (KB)
 1846.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8352

Outside
 Press@RunDepth: 75.86 psig @ 3528.00 ft (KB)
 Start Date: 2015.03.20 End Date: 2015.03.21
 Start Time: 23:19:42 End Time: 05:05:36
 Capacity: 8000.00 psig
 Last Calib.: 2015.03.21
 Time On Btm: 2015.03.21 @ 00:42:22
 Time Off Btm: 2015.03.21 @ 03:22:07

TEST COMMENT: F:Strong blow . B.O.B. in 7 1/2 mins.
 IS:No blow .
 FF:Strong blow . B.O.B. in 25 secs.
 FS:Weak blow . 1/4 - 1/2".



PRESSURE SUMMARY

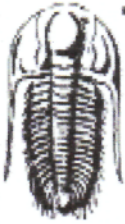
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.41	99.83	Initial Hydro-static
1	29.37	99.35	Open To Flow (1)
30	56.48	101.79	Shut-In(1)
61	206.24	102.56	End Shut-In(1)
61	60.49	102.51	Open To Flow (2)
106	75.86	103.85	Shut-In(2)
158	326.04	104.57	End Shut-In(2)
160	1717.13	105.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbl)
0.00	945 ft. of GIP	0.00
90.00	GOCM 20%g 9%o 71%m	1.26
65.00	GOCM 31%g 20%o 49%m	0.91

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations Inc.
8400 Preston Rd. Ste. 800
Dallas TX 75225
ATTN: Wyatt Urban

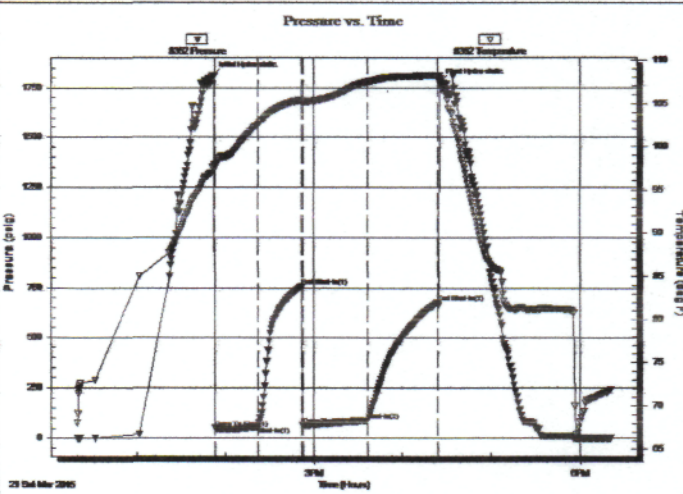
21-21s-12w Stafford KS
Hammeke B#7
Job Ticket: 59749 DST#: 2
Test Start: 2015.03.21 @ 12:20:07

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:53:22
Time Test Ended: 18:20:52
Interval: **3621.00 ft (KB) To 3654.00 ft (KB) (TVD)**
Total Depth: 3654.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Gary Pevoteaux
Unit No: 80
Reference Elevations: 1854.00 ft (KB)
1846.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: **8352** Outside
Press@RunDepth: 86.69 psig @ 3622.00 ft (KB)
Start Date: 2015.03.21 End Date: 2015.03.21
Start Time: 12:20:12 End Time: 18:20:51
Capacity: 8000.00 psig
Last Calib.: 2015.03.21
Time On Btm: 2015.03.21 @ 13:51:37
Time Off Btm: 2015.03.21 @ 16:25:37

TEST COMMENT: IF: Strong blow . B.O.B. in 7 mins.
IS: No blow .
FF: Fair to strong blow . B.O.B. in 14 mins.
FS: Weak blow . 1/2 - 3".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1811.16	97.51	Initial Hydro-static
2	50.50	97.81	Open To Flow (1)
31	57.41	102.58	Shut-In(1)
61	757.33	105.38	End Shut-In(1)
62	64.17	105.19	Open To Flow (2)
105	86.69	107.47	Shut-In(2)
153	678.98	108.24	End Shut-In(2)
154	1777.43	107.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	672 ft.of GIP	0.00
80.00	GOCMM 14%g 29%o 11%w 46%m	1.12
65.00	OCMM 4%o 40%m 56%w	0.91

* Recovery from multiple tests

Gas Rates

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

QUALITY OILWELL CEMENTING, INC.

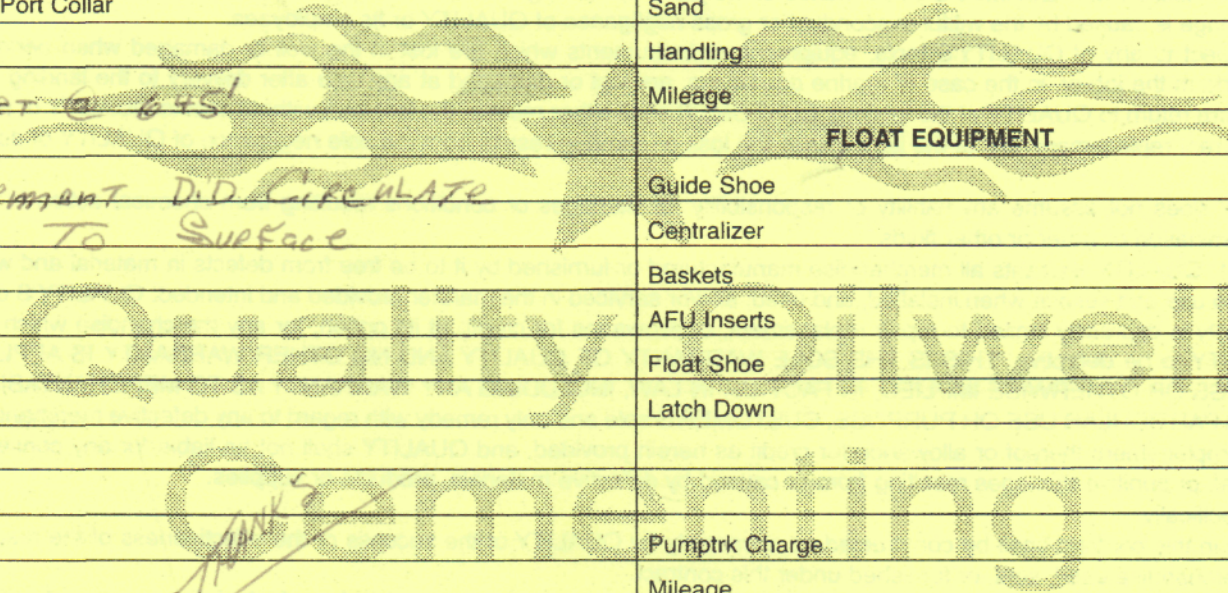
Federal Tax I.D.# 20-2886107

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

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

No. 1097

Date	2-17-15	Sec.	21	Twp.	21	Range	12	County	STAFFORD	State	KANSAS	On Location		Finish	5:30PM
								Location							
								DARTMOUTH KS. S. TO RD. 170 2 1/2 E							
Lease	Hammeke "B"			Well No.	#7			Owner							
Contractor	SOUTHWIND DRILLING RIG #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	LONG SURFACE							Charge To							
Hole Size	12 1/4			T.D.	645'			MAT OIL OPERATIONS							
Csg.	8 5/8 New			Depth	645'			Street							
Tbg. Size	23 # ccg			Depth				City							
Tool				Depth				State							
Cement Left in Csg.	20'			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	39.80/bbl			Cement Amount Ordered							
								400 sq 60/40 1/4" Flt Seal							
								2% Gel 3% cc							
EQUIPMENT								Common							
Pumptrk	18	No.	Cementer	GLENN G.			Poz. Mix								
			Helper	CODY B.											
Bulktrk	19	No.	Driver	CHAD M.			Gel.								
			Driver												
Bulktrk		No.	Driver				Calcium								
			Driver												
JOB SERVICES & REMARKS								Hulls							
Remarks:								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							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
X Signature	GARY HOVIN														



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. 931

Date	3-22-15	Sec.	21	Twp.	21	Range	12	County	Stafford	State	KS	On Location		Finish	4:15 PM				
Location								Dartmouth S to 170 2E 1/4 N W 10											
Lease	Hammeke "B"			Well No.	#7			Owner											
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 String			Charge To								Moi 0:1							
Hole Size	7 7/8			T.D.	3700			Street											
Csg.	5 1/2			Depth	3703			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 1/4 40			
Cement Left in Csg.	15.13			Shoe Joint	15.13														
Meas Line				Displace	90 bbl														
EQUIPMENT								Common											
Pumptrk	18	No.	Cementer	Helper			Cray			Poz. Mix									
Bulktrk	3	No.	Driver	Driver			Chad			Gel.									
Bulktrk	Pu	No.	Driver	Driver			Brett			Calcium									
JOB SERVICES & REMARKS								Hulls											
Remarks:	Salt																		
Rat Hole	30 5/8																		
Mouse Hole	Flowseal																		
Centralizers	- 1-3, 5-11, 13-15																		
Baskets	KOL-SEAL																		
D/V or Port Collar	Mud CLR 48 - 1000 Gal Mud Flush																		
	CFL-117 or CD110 CAF 38																		
	Sand																		
	Handling																		
	Mileage																		
	5 1/2																		
	Run 3703' 5 1/2" 14 lb casing + 1st c/c								FLOAT EQUIPMENT										
	Mix 1000 Gal Mud Flush								Guide Shoe										
	Plug Rat hole								Centralizer - 13										
	Mix 130 sz 60/40 down 5 1/2"								Baskets										
	Displace 90 bbl								AFU Inserts										
	Lift pressure @ 600 lbs								Float Shoe - 1										
	Landed Plug @ 1500 lbs								Latch Down - 1										
									Pumptrk Charge										
									Mileage										
									Tax										
									Discount										
									Total Charge										
X Signature	<i>[Signature]</i>																		