Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1270702

Form ACO-1
November 2016
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: Jim Musgrove
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

09/17/2015 Spud Date or Recompletion Date
09/23/2015 Date Reached TD
09/23/2015 Completion Date or Recompletion Date

API No.: 15-167-24036-00-00
Spot Description:
N2 - SE - NW - SW Sec. 7 Twp. 15 S. R. 13 ☐ East ☑ West
1660 Feet from ☐ North / ☑ South Line of Section
990 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Russell
Lease Name: Maag "P" Well #: 5
Field Name:
Producing Formation: Lansing-Kansas City
Elevation: Ground: 1867 Kelly Bushing: 1875
Total Vertical Depth: 3367 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 847 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: 86000 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated
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: 11/09/2015
☑ **Confidential Release Date:** 11/08/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 11/12/2015

[redacted] 1270702

Operator Name: Mai Oil Operations, Inc. Lease Name: Maag "P" Well #: 5

Sec. 7 Twp. 15 S. R. 13 ☐ East ☑ West County: Russell

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

CDNL
DIL
Micro

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	848	+1027
Topeka	2747	-872
Heebner	2980	-1105
Toronto	2997	-1122
Lansing	3045	-1170
Arbuckle	3308	-1433

CASING RECORD ☐ New ☑ 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	8.625	20	847	60-40 POZ	325	2% Gel, 3% CC
Production	7.875	5.5	14	3365	60-40 POZ	160	2% Gel

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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Maag "P" 5
Doc ID	1270702

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	847	60-40 POZ	325	2% Gel, 3% CC
Production	7.875	5.5	14	3365	60-40 POZ	160	2% Gel

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
Maag "P" #5
N/2-SE-NW-SW (1660'FSL & 990 FWL)
Section 7-15s-13w
Russell County, Kansas

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (rig #3)

Commenced: September 17, 2015

Completed: September 23, 2015

Elevation: 1875' K.B., 1873' D.F., 1867' G.L.

Casing program: Surface; 8 5/8" @ 847'
Production, 5 ½" @ 3365'

Sample: Samples saved and examined 2300' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2300' 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 Casedhole Solutions, Dual Induction, Compensated Density/Neutron Log and Micro.

Formation	Log Depth	Sub-Sea Datum
Anhydrite	848	+1027
Base Anhydrite	881	+994
Grand Haven	2408	-533
1st Tarkio Sand	2417	-542
2nd Tarkio Sand	2442	-567
Tarkio Lime	2477	-602
Willard Sand (3rd Tarkio)	2507	-632
Elmont	2542	-667
Howard	2682	-807
Topeka	2747	-872
Heebner	2980	-1105
Toronto	2997	-1122
Douglas	3012	-1137
Lansing	3045	-1170
Arbuckle	3308	-1433
Rotary Total Depth	3365	-1490
Log Total Depth	3367	-1492

All tops and zones corrected to Electric Log Measurement

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

1st TARKIO SAND

2418-2430'	Sand, gray, grayish green, very fined grained; silty in part, few friable, poor visible porosity, no shows.

2nd TARKIO SAND

2442-2450'	Sand, gray, very fined grained, few sub-angular to sub-rounded, well cemented, poor visible porosity, no shows.

WILLARD SAND (3rd TARKIO)

2507-2523'	Sand, light gray, gray, sub-angular, poorly developed porosity, no shows.

TOPEKA SECTION

2747-2757'	Limestone, cream, tan, finely crystalline, slightly dolomite, few fossiliferous, poorly developed inter-crystalline porosity, no shows.
2800-2825'	Limestone, cream, tan, fine and medium crystalline, fossiliferous, poor visible porosity, no shows.
2860-2876'	Limestone, cream, tan, buff, finely crystalline, fossiliferous, poor scattered porosity, chalky in part, no shows.
2916-2920'	Limestone, cream, tan, fine and medium crystalline, fossiliferous/oolitic, fair inter-crystalline porosity, spotty brown stain, no free oil and no odor in fresh samples.
2930-2940'	Limestone, tan, buff, fine and medium crystalline, fossiliferous, poor scattered pin point to inter-crystalline porosity, chalky in part, plus tan/gray chert.
2942-2955'	Limestone, cream, tan, finely crystalline, fossiliferous, chalky, poor porosity, plus gray/tan chert, no shows.

TORONTO SECTION

2997-3012'	Limestone, cream, white, fine to medium crystalline, dolomitic in part, poor pinpoint to inter-crystalline porosity, trace light brown spotty stain, no free oil and faint odor in fresh samples.

LANSING SECTION

3047-3054'	Limestone, white, finely crystalline, slightly oolitic, poor scattered pin point porosity, chalky, no shows.
3063-3072'	Limestone, cream, tan, fine and medium crystalline, slightly dolomitic; poor porosity, trace brown stain, no free oil and faint odor in fresh samples.
3077-3081'	Limestone, cream, tan, finely crystalline, cherty in part, poor porosity, no shows.
3087-3091'	Limestone, cream, tan, buff, finely crystalline, oolitic, poor pinpoint porosity, slightly chalky, dark brown stain, no free oil and fair odor in fresh samples.
3118-3124'	Limestone, cream, white, oolitic, poor visible porosity, no shows.
3126-3133'	Limestone, cream, white, finely crystalline, oolitic, oomoldic, fair oomoldic porosity, chalky in part, spotty light brown stain, no free oil and fair odor in fresh samples.
3139-3160'	Limestone, white, finely crystalline, oolitic, oomoldic, chalky in part, fair to good oomoldic porosity, dark brown stain, no free oil and fair odor in fresh samples.
3193-3203'	Limestone, cream, tan, finely crystalline, fossiliferous/oolitic, poor pinpoint and inter-crystalline porosity, slightly chalky, trace stain, no free oil and faint odor in fresh samples.
3211-3216'	Limestone, tan, buff, finely crystalline, fossiliferous, poor inter-crystalline porosity, light brown stain, trace of free oil and fair odor in fresh samples.
3219-3230'	Limestone, tan, cream, finely crystalline, oolitic/fossiliferous, poor scattered porosity, light brown to golden brown stain, trace of free oil and fair odor in fresh samples.
3230-3240'	Limestone, tan, cream, finely crystalline, oolitic/fossiliferous, poor scattered porosity, light brown and golden brown stain, trace of free oil and fair odor in fresh samples.
3258-3264'	Limestone, cream, tan, finely crystalline, few fossiliferous/oolitic, poor to fair scattered porosity, light to golden brown stain, trace of free oil and fair odor in fresh samples.
3287-3290'	Limestone, cream, buff, finely crystalline, few fossiliferous, cherty in part, poor porosity, no shows.

Drill Stem Test #1 3193-3290

----Misrun, packer failure-----

Drill Stem Test #2 **3186-3290**

Times: **30-45-45-60**

Blow: **Strong**

Recovery: **120' gas in pipe**
62' heavily oil and gas cut mud
(10% gas; 40% mud; 50% oil)
186' gassy oil
(50% gas; 50% oil)
124' gassy oil
(20% gas; 80% oil)

Pressures:

ISIP	**505**	**psi**
FSIP	**550**	**psi**
IFP	**68-112**	**psi**
FFP	**118-176**	**psi**
HSH	**1219-1603**	**psi**

ARBUCKLE SECTION

3307-3316' Dolomite, white, light gray, fine and medium crystalline, fair inter-crystalline porosity, golden brown stain, good show of free oil and good odor in fresh samples.

Drill Stem Test #3 **3273-3316**

Times: **15-30-15-60**

Blow: **Strong**

Recovery: **2400' muddy water**

Pressures:

ISIP	**1091**	**psi**
FSIP	**1096**	**psi**
IFP	**701-933**	**psi**
FFP	**983-1083**	**psi**
HSH	**1714-1636**	**psi**

3316-3330' Dolomite, white, light gray, fine and medium crystalline, fair inter-crystalline and vuggy porosity, dark brown stain trace of free oil and fair odor in fresh samples.

3330-3350' Dolomite, gray, cream, fine and medium crystalline, poor to fair inter-crystalline porosity, spotty dark brown to black stain weak show of free oil and fair odor in fresh samples.

3350-3367' Dolomite, gray, white, finely crystalline, poor to fair inter-crystalline porosity, cherty in part, spotty stain, no free oil and no odor in fresh samples.

Rotary Total Depth **3365**
Log Total Depth **3367**

Recommendations:

The 5 ½" production casing was set and cemented on Mai Oil Operations Inc., Maag "P" #5.

Respectfully yours,

Kurt Talbott
Petroleum Geologist

DRILL STEM TEST REPORT

Mai Oil Operations, Inc

8411 Preston Rd STE 800
Dallas TX 75225

ATTN: Kurt Tabott

7-15s-13w Russell KS

Maag "P" #5

Job Ticket: 62442 **DST#: 1**

Test Start: 2015.09.21 @ 21:54:05

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 02:23:59

Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 73

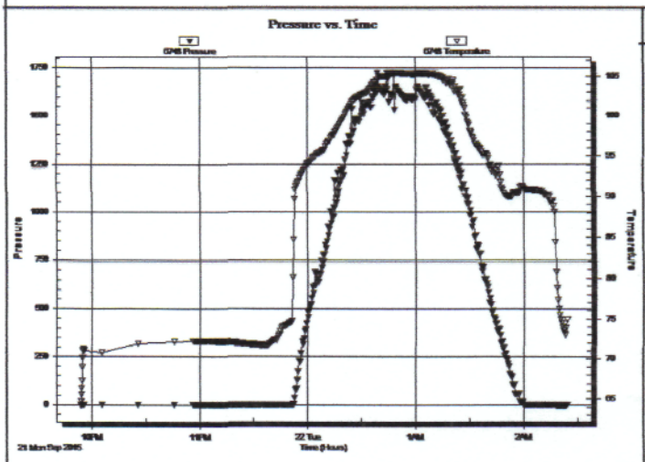
Interval: 3193.00 ft (KB) To 3290.00 ft (KB) (TVD)
Total Depth: 3290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1875.00 ft (KB)
1867.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6748 **Inside**
Press@RunDepth: psig @ 3198.00 ft (KB)
Start Date: 2015.09.21 End Date: 2015.09.22
Start Time: 21:54:05 End Time: 02:23:59

Capacity: 8000.00 psig
Last Calib.: 2015.09.22
Time On Btm:
Time Off Btm:

TEST COMMENT: Opened tool - packers failed - Reopened tool - failed - Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Rig Mud	2.10

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations, Inc

8411 Preston Rd STE 800
Dallas TX 75225

ATTN: Kurt Tabott

7-15s-13w Russell KS

Maag "P" #5

Job Ticket: 62443 **DST#: 2**

Test Start: 2015.09.22 @ 02:48:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:50:00
Time Test Ended: 08:35:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73

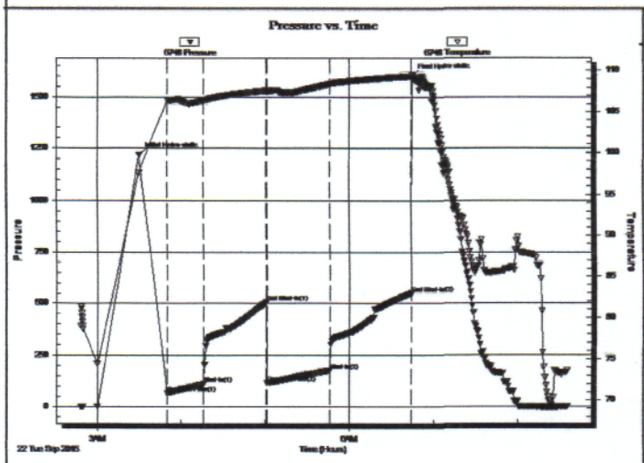
Interval: 3186.00 ft (KB) To 3290.00 ft (KB) (TVD)
Total Depth: 3290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1875.00 ft (KB)
1867.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6748 **Inside**
Press@RunDepth: 175.61 psig @ 3191.00 ft (KB)
Start Date: 2015.09.22 End Date: 2015.09.22
Start Time: 02:48:05 End Time: 08:35:14

Capacity: 8000.00 psig
Last Calib.: 2015.09.22
Time On Btm: 2015.09.22 @ 03:30:00
Time Off Btm: 2015.09.22 @ 06:44:45

TEST COMMENT: 30 - IF- B.O.B. in 10 minutes
45 - ISI- Surface return
45 - FF- B.O.B. in 26 minutes
60 - FSI- Surface return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1218.46	97.57	Initial Hydro-static
20	68.32	106.45	Open To Flow (1)
46	111.59	106.38	Shut-In(1)
91	505.28	107.60	End Shut-In(1)
92	118.19	107.47	Open To Flow (2)
136	175.61	108.37	Shut-In(2)
195	549.86	109.30	End Shut-In(2)
195	1603.02	109.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GHOCM, 10%G, 40%M, 50%O	0.87
186.00	GO, 50%G, 50%O	2.61
124.00	GO, 20%G, 80%O	1.74
0.00	120' G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Mai Oil Operations, Inc

8411 Preston Rd STE 800
Dallas TX 75225

ATTN: Kurt Tabott

7-15s-13w Russell KS

Maag "P" #5

Job Ticket: 62444 **DST#: 3**

Test Start: 2015.09.22 @ 15:04:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:26:45
Time Test Ended: 20:34:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 73

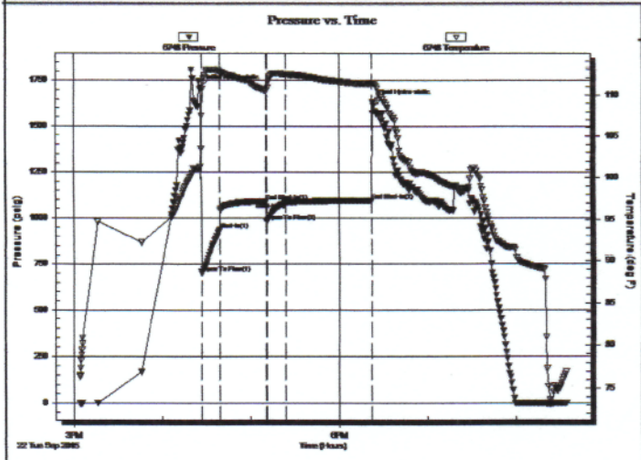
Interval: 3273.00 ft (KB) To 3316.00 ft (KB) (TVD)
Total Depth: 3316.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1875.00 ft (KB)
1867.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6748 **Inside**
Press@RunDepth: 1082.93 psig @ 3278.00 ft (KB)
Start Date: 2015.09.22 End Date: 2015.09.22
Start Time: 15:04:05 End Time: 20:33:59

Capacity: 8000.00 psig
Last Calib.: 2015.09.22
Time On Btm: 2015.09.22 @ 16:26:00
Time Off Btm: 2015.09.22 @ 18:23:00

TEST COMMENT: 15 - IF- B.O.B. instantly
30 - ISI- No return
15 - FF- B.O.B. instantly
60 - FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1713.81	101.30	Initial Hydro-static
1	701.09	107.38	Open To Flow (1)
13	933.60	112.77	Shut-In(1)
45	1091.26	110.43	End Shut-In(1)
45	982.74	110.40	Open To Flow (2)
58	1082.93	112.41	Shut-In(2)
117	1095.55	111.26	End Shut-In(2)
117	1635.53	111.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	WM, 40%W, 60%M	1.74
2046.00	DROPPED BAR & TURNED TO WATER	28.70
248.00	Mud - Oil on top, 100%M	3.48

* 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 **Home Office P.O. Box 32 Russell, KS 67665** **No. 1041**
Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-18-15	7	15	13	Russell	KS		3:00 AM

Location Russell S to Winterset 3E 1½N E into

Lease Magg P' Well No. #5

Contractor Southwind 3

Type Job Surface

Hole Size 12¼ T.D. 847'

Csg. 8⅝ Depth 847

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 20' Shoe Joint

Meas Line Displace 52½ bbl

EQUIPMENT

Pumptrk 17 No. Cementer Helper Brett

Bulktrk 4 No. Driver Billy Driver

Bulktrk No. Driver Shane Driver

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement circulated

X Signature

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.

Charge To Mai Oil

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 325 60/40 3%cc 2%Gel

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
4½ FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Rubber Plug 1	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

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. 1632

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-23-15	7	15	13	Russell	Ks		4:15 PM

Location Russell, Ks - 5 to Wintersel Rd, 2E 1½N E/S

Lease Maag P	Well No. 5	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 Long string			
Hole Size 7 7/8"	T.D. 3365'	Charge To Mai Oil Operations	
Csg. 5½" used 14#	Depth 3365'	Street	
Tbg. Size	Depth	City	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 29.55'	Shoe Joint 29.55'	Cement Amount Ordered 160 60/40 10% Salt 2% Gel	
Meas Line	Displace 81 1/4 BLS	¼# Flo-seal 1000 gal Mud Clear 48	

EQUIPMENT

Pumptrk 18	No.	Cementer	
		Helper Billy	
Bulktrk 15	No.	Driver	
		Driver Dewayne	
Bulktrk Pu.	No.	Driver	
		Driver Rick	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers 1-10

Baskets Pipe on bottom break Circulation

D/V or Port Collar Pump 1000 gal Mud Clear 48 plug Rathole w/30sx Hook to 5½" Casing and mix 130sx Cement shut down ~~Release~~ wash pump + lines Released plug + Displace with 81 1/4 BLS of H2O Released + held Lift pressure 1100 # Land plug to 1400 #

X Signature

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer 10	
Baskets	
AFU Inserts	
Float Shoe 1	
Latch Down 1	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	