

**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  
RiedL #2  
SW-SW-SE-NE (2320' FNL & 1125' FEL)  
Section 32-16s-13w  
Barton County, Kansas

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

**Contractor:** Southwind Drilling Co. (rig #3)  
**Commenced:** July 28, 2014  
**Completed:** August 3, 2014  
**Elevation:** 1919' K.B., 1917' D.F., 1911' G.L.  
**Casing program:** Surface; 8 5/8" @ 514'  
Production, 5 1/2" @ 3434'  
**Sample:** Samples saved and examined 2900' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2900 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 Diamond Testing Co.  
**Electric Log:** By Nabors; Dual Induction, Compensated Density/Neutron Log and Micro & Sonic.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	840	+1079
Base Anhydrite	870	+1049
Topeka	2718	-799
Heebner	3030	-1111
Toronto	3045	-1126
Brown Lime	3112	-1193
Lansing	3121	-1202
Base Kansas City	3334	-1415
Erosional Arbuckle	3340	-1421
Arbuckle	3345	-1426
Quartzite	3394	-1475
Rotary Total Depth	3432	-1513
Log Total Depth	3437	-1518

All tops and zones corrected to Electric Log Measurement.

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

**TOPEKA SECTION**

- 2980-3000' Limestone, cream, finely crystalline, fossiliferous, poorly developed porosity; spotty black stain, no free oil and no odor.
- 3000-3020' Limestone, cream, tan finely crystalline, fossiliferous, scattered porosity; trace spotty black stain, no free oil and no odor.

**TORONTO SECTION**

- 3045-3056' Limestone, cream, finely crystalline, few fossiliferous, poorly developed porosity, black/dark brown stain, no free oil and no odor.

**LANSING SECTION**

- 3121-3129' Limestone, cream, finely crystalline, scattered pinpoint and inter-crystalline porosity, trace poor stain, no free oil and faint odor in fresh samples.
- 3134-3140' Limestone, cream, finely crystalline, fossiliferous, cherty in part, poor visible porosity, no shows.
- 3150-3154' Limestone, cream, finely crystalline, oomoldic in part, fair oomoldic porosity, trace brown stain, show of free oil and very faint odor in fresh samples.
- 3171-3174' Limestone, cream, finely crystalline, poor visible porosity, black stain, trace of free oil and faint odor in fresh samples.

**Drill Stem Test #1 3118-3174**

(Log Measurements 3120-3176)

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

**Blow: Weak**

**Recovery: 90' mud**

**Pressures: ISIP 901 psi  
FSIP invalid psi  
IFP 54-60 psi  
FFP 67 psi  
HSH 1476-1448 psi**

**(Remark: Slid tool 20' to bottom)**

3180-3186' Limestone, cream gray, finely crystalline, poor visible porosity, black stain, trace of free oil and no odor in fresh samples.

**Drill Stem Test #2** **3140-3190**  
(Log Measurements 3142-3192)

**-Misrun- Hit a bridge**

**Drill Stem Test #3** **3140-3190**  
(Log Measurements 3142-3192)

**-Misrun- Slide tool**

3196-3207' Limestone, white, cream, finely crystalline, oolitic, oomoldic, good oomoldic porosity, trace stain, no free oil and very faint odor in fresh samples.

3214-3223' Limestone, white, cream, tan, finely crystalline, oomoldic; scattered oomoldic porosity, slightly chalky, no shows.

3230-3246' Limestone, tan, gray, finely crystalline, poor visible porosity, cherty in part, no shows.

3256-3264' Limestone, tan, gray finely crystalline, poor scattered porosity, trace spotty stain, no free oil and faint odor.

3271-3284' Limestone, cream, light gray, finely crystalline, oolitic, poor scattered porosity, slightly chalky, no shows.

3285-3300' Limestone, cream, tan, light gray, finely crystalline, oolitic, poor pinpoint chalky, few cherty.

3315-3326' Limestone, white, cream, fine to medium crystalline, slightly sucrosic, oolitic in part, poor visible porosity, few cherty.

**ARBUCKLE SECTION**

3340-3345' Dolomite, white, light gray, finely crystalline, erosional.

3345-3351' Dolomite, white, finely crystalline, poor inter-crystalline porosity, golden brown stain, trace show of free oil and faint odor in fresh samples.

**Drill Stem Test #4**

**3225-3349**

(Log Measurements 3327-3351)

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

**Blow: Weak**

**Recovery: 10' gassy oil  
70' mud cut water  
(20% mud; 80% water)**

**Pressures: ISIP 1063 psi  
FSIP 1063 psi  
IFP 16-37 psi  
FFP 40-57 psi  
HSH 1587-1551 psi**

3351-3359' Dolomite, white, fine to medium crystalline, poor to fair inter-crystalline porosity, golden brown stain, fair show of free oil and faint odor in fresh samples.

**Drill Stem Test #5**

**3325-3357**

(Log Measurements 3327-3359)

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

**Blow: Strong**

**Recovery: 850' gassy mud cut watery oil  
(10% gas; 15% mud; 35% water; 40% oil)  
310' oil and gas cut muddy water  
(5% gas; 5% mud; 10% oil; 80% water)**

**Pressures: ISIP 1051 psi  
FSIP 1058 psi  
IFP 52-95 psi  
FFP 400-677 psi  
HSH 1578-1551 psi**

3359-3380' Dolomite, white, fine to medium crystalline, poor to fair inter-crystalline porosity, trace stain, no free oil and no shows.

3380-3394' Dolomite, as above; chalky, luster slightly sandy, no shows.

**QUARTZITE SECTION**

3394-3434' Quartz, clean, glassy, angular; fractured; no shows.

Mai Oil Operations  
RiedL #2  
SW-SW-SE-NE (2320' FNL & 1125' FEL)  
Section 32-16s-13w  
Barton County, Kansas

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<b>Rotary Total Depth</b>	<b>3432</b>
<b>Log Total Depth</b>	<b>3434</b>

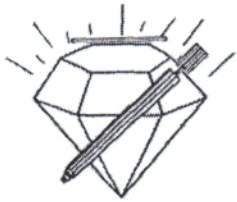
**Recommendations:**

5 ½" production casing set and cemented on the Mai Oil Operations Inc., RiedL #2.

Respectfully yours,

A handwritten signature in black ink, appearing to read "Kurt Talbott", with a long, sweeping flourish extending to the right.

Kurt Talbott  
Petroleum Geologist



**DIAMOND TESTING, LLC**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
STC/Riedl2dst1

Company Mai Oil Operations, Inc. Lease & Well No. Riedl No. 2  
Elevation 1919 KB Formation Lansing/Kansas City "A-D" Effective Pay \_\_\_\_\_ Ft. Ticket No. J3261  
Date 8-1-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas  
Test Approved By Clint Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,118 ft. to 3,174 ft. Total Depth 3,174 ft.  
Packer Depth 3,113 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,118 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,121 ft. Recorder Number 30046 Cap. 6,000 psi.  
Bottom Recorder Depth (Outside) 3,171 ft. Recorder Number 13498 Cap. 6,000 psi.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 56 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 8.4 Water Loss 9.2 cc. Drill Pipe Length 3,098 ft I.D. 3 1/2 in.  
Chlorides 3,100 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.  
Jars: Make Sterling Serial Number Not Run Anchor Length 26' perf. w/30' drill pipe ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

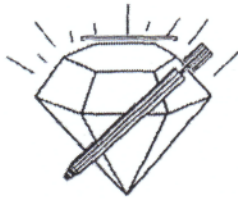
Blow: 1st Open: Weak, 1 in. blow throughout. No blow back during shut-in.

2nd Open: No blow. Flushed tool & received a very weak blow. Died in 10 mins. No blow back during shut-in.

Recovered 90 ft. of drilling mud = 1.280700 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 100%-mud  
Tool slid 20 ft. to bottom when opened, supercharging the hole. MISRUN!

Time Set Packer(s) 1:50 A.M. Time Started off Bottom 4:05 A.M. Maximum Temperature 110°  
Initial Hydrostatic Pressure.....(A) 1476 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 54 P.S.I. to (C) 60 P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 981 P.S.I.  
Final Flow Period.....Minutes 30 (E) 68 P.S.I. to (F) 67 P.S.I.  
Final Closed In Period.....Minutes 45 (G) 1030 (INVALID) P.S.I.  
Final Hydrostatic Pressure.....(H) 1448 P.S.I.



**DIAMOND TESTING, LLC**  
 P.O. Box 157  
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 (620) 653-7550 • (800) 542-7313  
 STC/Riedl2dst2

Company Mai Oil Operations, Inc. Lease & Well No. Riedl No. 2  
 Elevation 1919 KB Formation Lansing/Kansas City "D-F" Effective Pay          Ft. Ticket No. J3262  
 Date 8-1-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas  
 Test Approved By Kurt M. Talbott Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,140 ft. to 3,190 ft. Total Depth 3,190 ft.  
 Packer Depth 3,135 ft. Size 6 3/4 in. Packer Depth          ft. Size          in.  
 Packer Depth 3,140 ft. Size 6 3/4 in. Packer Depth          ft. Size          in.  
 Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,143 ft. Recorder Number 30046 Cap. 6,000 psi.  
 Bottom Recorder Depth (Outside) 3,187 ft. Recorder Number 13498 Cap. 6,000 psi.  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi.

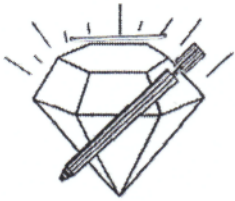
Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length          ft I.D.          in.  
 Mud Type Chemical Viscosity 56 Weight Pipe Length          ft I.D.          in.  
 Weight 9.0 Water Loss 9.2 cc. Drill Pipe Length 3,120 ft I.D. 3 1/2 in.  
 Chlorides 3,100 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number Not Run Anchor Length 18' perf. w/32' drill pipe Size 4 1/2-FH in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: MISRUN!  
 2nd Open: N/A

Recovered 80 ft. of drilling mud = 1.138400 bbls.  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks Tool Sample Grind Out: 100%-mud  
Hit fill 20 ft. off bottom. Lost packer seat trying to slide to bottom. Came back out of hole.

Time Set Packer(s)          Time Started off Bottom          Maximum Temperature 103°  
 Initial Hydrostatic Pressure.....(A) 1493 P.S.I.  
 Initial Flow Period.....Minutes 0 (B)          P.S.I. to (C)          P.S.I.  
 Initial Closed In Period.....Minutes 0 (D)          P.S.I.  
 Final Flow Period.....Minutes 0 (E)          P.S.I. to (F)          P.S.I.  
 Final Closed In Period.....Minutes 0 (G)          P.S.I.  
         1457 P.S.I.



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STC/Riedl2dst3

Company Mai Oil Operations, Inc. Lease & Well No. Riedl No. 2  
Elevation 1919 KB Formation Lansing/Kansas City "D-F" Effective Pay \_\_\_\_\_ Ft. Ticket No. J3263  
Date 8-1-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas  
Test Approved By Kurt M. Talbott Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,140 ft. to 3,190 ft. Total Depth 3,190 ft.  
Packer Depth 3,135 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,140 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,143 ft. Recorder Number 30046 Cap. 6,000 psi.  
Bottom Recorder Depth (Outside) 3,187 ft. Recorder Number 13498 Cap. 6,000 psi.  
Flow Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Fluid Type Chemical Viscosity 63 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.2 Water Loss 9.3 cc. Drill Pipe Length 3,120 ft I.D. 3 1/2 in.  
Chlorides 3,100 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.  
Bars: Make Sterling Serial Number Not Run Anchor Length 18' perf. w/32' drill pipe Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

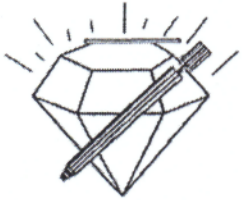
Flow: 1st Open: Weak blow. Died in 5 mins. No blow back during shut-in.  
2nd Open: No blow. Flushed tool but of no help. No blow back during shut-in.

Recovered 25 ft. of drilling mud = .355750 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 100%-mud  
Worked tool through bridge 30 ft. off bottom. MISRUN! Flows showed severe plugging.

Time Set Packer(s) 7:40 P.M. Time Started off Bottom 9:40 P.M. Maximum Temperature 106°  
Initial Hydrostatic Pressure.....(A) 1492 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 29 P.S.I. to (C) 918 (INVALID) P.S.I.  
Initial Closed In Period.....Minutes 30 (D) 1124 P.S.I.  
Final Flow Period.....Minutes 30 (E) 56 P.S.I. to (F) 960 (INVALID) P.S.I.  
Final Closed In Period.....Minutes 30 (G) 1152 P.S.I.  
Final Hydrostatic Pressure.....(H) 1457 P.S.I.





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STC/Riedl2dst4

Company Mai Oil Operations, Inc. Lease & Well No. Riedl No. 2  
Elevation 1919 KB Formation Arbuckle Effective Pay \_\_\_\_\_ Ft. Ticket No. J3264  
Date 8-2-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas  
Test Approved By Kurt M. Talbott Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,325 ft. to 3,349 ft. Total Depth 3,349 ft.  
Packer Depth 3,320 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3,325 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_ ft.

Top Recorder Depth (Inside) 3,328 ft. Recorder Number 30046 Cap. 6,000 psi.  
Bottom Recorder Depth (Outside) 3,346 ft. Recorder Number 13498 Cap. 6,000 psi.  
Flow Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Mud Type Chemical Viscosity 63 Weight Pipe Length \_\_\_\_\_ ft I.D. \_\_\_\_\_ in.  
Weight 9.2 Water Loss 9.2 cc. Drill Pipe Length 3,305 ft I.D. 3 1/2 in.  
Chlorides 6,100 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.  
Mud: Make Sterling Serial Number Not Run Anchor Length 24 ft. Size 4 1/2-FH in.  
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Flow: 1st Open: Weak, 1 in. blow throughout. No blow back during shut-in.  
2nd Open: Weak, 3/4 in. blow throughout. No blow back during shut-in.

Recovered 10 ft. of gas cut oil = .142300 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 37 @ 60°  
Recovered 70 ft. of mud cut water = .996100 bbls. (Grind out: 80%-water; 20%-mud) Chlorides: 16,000 Ppm  
Recovered 80 ft. of TOTAL FLUID = 1.138400 bbls.  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks Tool Sample Grind Out: 90%-water; 10%-mud  
Sat 30 ft. off bottom the whole test because of fluid in the hole.

Time Set Packer(s) 7:30 P.M. Time Started off Bottom 10:00 P.M. Maximum Temperature 116°  
Initial Hydrostatic Pressure.....(A) 1587 P.S.I.  
Initial Flow Period.....Minutes 30 (B) 16 P.S.I. to (C) 37 P.S.I.  
Initial Closed In Period.....Minutes 45 (D) 1063 P.S.I.  
Initial Flow Period.....Minutes 30 (E) 40 P.S.I. to (F) 57 P.S.I.  
Initial Closed In Period.....Minutes 45 (G) 1063 P.S.I.  
1551



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 STC/Riedl2dst5

Company Mai Oil Operations, Inc. Lease & Well No. Riedl No. 2  
 Elevation 1919 KB Formation Arbuckle Effective Pay      Ft. Ticket No. J3265  
 Date 8-3-14 Sec. 32 Twp. 16S Range 13W County Barton State Kansas  
 Test Approved By Kurt M. Talbott Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 3,325 ft. to 3,357 ft. Total Depth 3,357 ft  
 Packer Depth 3,320 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Packer Depth 3,325 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
 Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,328 ft. Recorder Number 30046 Cap. 6,000 psi.  
 Bottom Recorder Depth (Outside) 3,354 ft. Recorder Number 13498 Cap. 6,000 psi.  
 Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length      ft I.D.      in.  
 Mud Type Chemical Viscosity 60 Weight Pipe Length      ft I.D.      in.  
 Weight 9.0 Water Loss 12.0 cc. Drill Pipe Length 3,305 ft I.D. 3 1/2 in.  
 Chlorides 7,000 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.  
 Jars: Make Sterling Serial Number Not Run Anchor Length 32 ft. Size 4 1/2-FH in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 3 mins. No blow back during shut-in.

2nd Open: Strong blow increasing. Off bottom of bucket in 3 mins. No blow back during shut-in.

Recovered 850 ft. of gas & mud cut, watery oil = 12.095500 bbls. (Grind out: 10%-gas; 40%-oil; 35%-water; 15%-mud)  
 Recovered 310 ft. of slightly gas & mud cut, oil cut water = 4.411300 bbls. (Grind out: 5%-gas; 10%-oil; 80%-water; 5%-mud)  
 Recovered 310 ft. of very slightly oil cut water = 4.411300 bbls. (Grind out: 2%-oil; 98%-water) Chlorides: 16,000 Ppm  
 Recovered 1,470 ft. of TOTAL FLUID = 20.918100 bbls.  
 Recovered      ft. of       
 Recovered      ft. of       
 Remarks Tool Sample Grind Out: 2%-oil; 98%-water

Time Set Packer(s) 6:30 A.M. Time Started off Bottom 9:15 A.M. Maximum Temperature 120°  
 Initial Hydrostatic Pressure.....(A) 1578 P.S.I.  
 Initial Flow Period.....Minutes 30 (B) 52 P.S.I. to (C) 395 P.S.I.  
 Initial Closed In Period.....Minutes 30 (D) 1051 P.S.I.  
 Final Flow Period.....Minutes 45 (E) 400 P.S.I. to (F) 677 P.S.I.  
 Final Closed In Period.....Minutes 60 (G) 1058 P.S.I.  
 Final Hydrostatic Pressure.....(H) 1551 P.S.I.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 323

Cell 785-324-1041

Date	7-28-14	Sec.	32	Twp.	16	Range	13	County	Barton	State	KS	On Location	11:00am	Finish	12:00
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Location *Sue Sun H 15 1/2 W Sinto*

Lease	<i>Reid 1</i>	Well No.	<i>2</i>	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.
Contractor	<i>Southwind</i>		<i>3</i>	Charge To	<i>Main Oil</i>
Type Job	<i>Surface</i>			Street	
Hole Size	<i>12 1/4</i>	T.D.	<i>514ft</i>	City	
Csg.	<i>8 5/8</i>	Depth	<i>514ft</i>	State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	<i>750 60/40</i>
Cement Left in Csg.	<i>30ft</i>	Shoe Joint	<i>30ft</i>	Meas Line	
Displace	<i>30.5 BBL</i>				

**EQUIPMENT**

Pumptrk	<i>17</i>	No.		Cementer	<i>Matt</i>	Common
				Helper		Poz. Mix
Bulktrk	<i>13</i>	No.		Driver	<i>Lonnie W</i>	Gel.
				Driver		Calcium
Bulktrk	<i>pu</i>	No.		Driver	<i>Billy</i>	

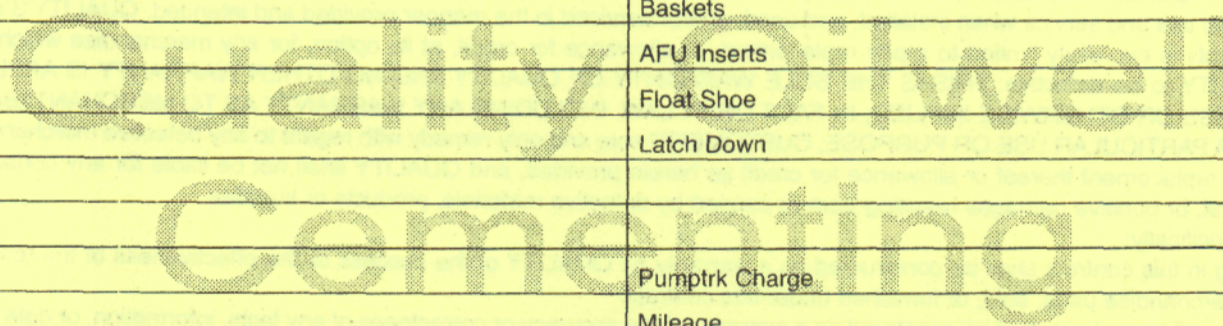
**JOB SERVICES & REMARKS**

Remarks:	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
	Sand
	Handling
	Mileage

*Cement did  
Circulate*

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	Pumptrk Charge
	Mileage



X Signature *[Signature]*

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. 528

Date 8-4-14	Sec. 32	Twp. 16	Range 13	County Barton	State KS	On Location	Finish 9:45 AM
				Location S. 15 1/2 W. S. 10			

Lease Red	Well No. #2	Owner
Contractor S. 13		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		
Hole Size 7 7/8	T.D. 3432'	Charge To Ma. Oil
Csg. 5 1/2	Depth 3430'	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. 19.54	Shoe Joint 19.54	Cement Amount Ordered 160 6 3/4 10% Salt 2 1/2 bbl
Meas Line	Displace 8 1/2 bbl	

**EQUIPMENT**

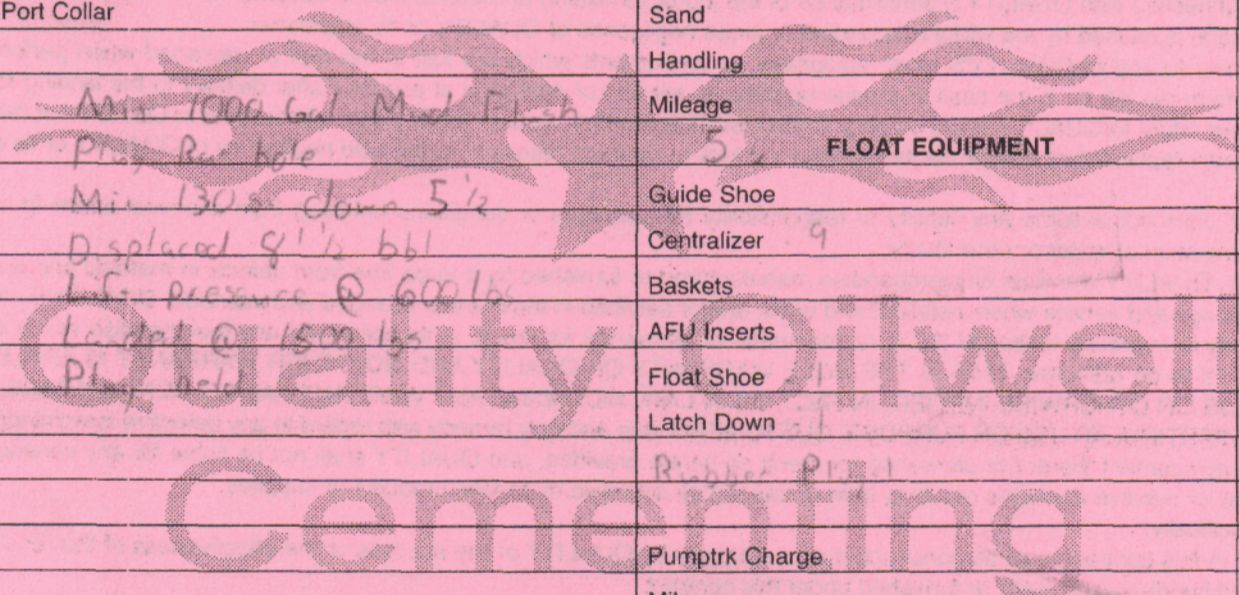
Pumptrk 5	No. Cementer Helper	Common
Bulktrk 14	No. Driver	Poz. Mix
Bulktrk Pu	No. Driver	Gel.
	No. Driver	Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole - 30	Salt
Mouse Hole	Flowseal
Centralizers - 1-7 + 9 + 10	Kol-Seal
Baskets	Mud CLR 48 - 1000 Gal
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

**FLOAT EQUIPMENT**

Guide Shoe
Centralizer 9
Baskets
AFU Inserts
Float Shoe
Latch Down



Signature	Pumptrk Charge	Mileage	Tax
			Discount
			Total Charge