

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

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 #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**OPERATOR**

Company: Kirby Krier Oil Inc.  
 Address: 1043 NE 80 Avenue  
 Claflin, KS 67525

Contact Geologist: Jim Musgrove  
 Contact Phone Nbr: 620-786-0839  
 Well Name: Kirby Krier Oil Inc.  
 Location: 5-18s-10w E2-NE-SE  
 API:  
 Pool:  
 State: Kansas

Field: Bloomer  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Kirby Krier Oil Inc.  
 Surface Location: 5-18s-10w E2-NE-SE  
 Bottom Location:  
 API:  
 License Number: 9951  
 Spud Date: 9/23/2021 Time: 12:00 AM  
 Region: Rice  
 Drilling Completed: 9/29/2021 Time: 12:00 AM  
 Surface Coordinates: 1980' FSL & 330' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1771.00ft  
 K.B. Elevation: 1781.00ft  
 Logged Interval: 2700.00ft To: 3559.00ft  
 Total Depth: 0.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 1980' FSL  
 E/W Co-ord: 330' FEL

**LOGGED BY**

Company: James C Musgrove Petroleum LLC  
 Address: 212 Main Street/PO Box 215  
 Claflin, KS 67525

Phone Nbr: 620-588-4250 620-786-08  
 Logged By: KLG #307

Name: James C Musgrove

**CONTRACTOR**

Contractor: Southwind Drilling  
 Rig #: 1  
 Rig Type: mud rotary  
 Spud Date: 9/23/2021 Time: 12:00 AM  
 TD Date: 9/29/2021 Time: 12:00 AM  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 1781.00ft Ground Elevation: 1771.00ft  
 K.B. to Ground: 10.00ft

**NOTES**

5 1/2 " disposal casing was set and cemented on the Kirby Krier Oil Co. JayCat #5.

Respectfully submitted,

### well comparison sheet

	KIRBY KRIER OIL CO				KIRBY KRIER OIL CO				KIRBY KRIER OIL CO			
	JAYCAT #5 E/2-NE-SE 5-18s-10w				JAYCAT #3 SE-S2-NE-SE 5-18s-10w				JAYCAT #4 NW-NE-SE 5-18S-10W			
	1781 KB				1780 KB		Structural Relationship		1773 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log	Sample	Sub-Sea	Sample	Log
Heebner	2800	-1019			2808	-1028	9		2799	-1026	-7	
Toronto	2818	-1037			2822	-1042	5		2810	-1037	0	
Douglas	2830	-1049			2834	-1054	5		2828	-1055	-6	
Brown Lime	2916	-1135			2921	-1141	6		2913	-1140	-5	
Lansing	2931	-1150			2939	-1159	9		2928	-1155	-5	
Base Kansas City	3212	-1431			3206	-1426	-5		3194	-1421	10	
Conglomerate	3225	-1444										
Arbuckle	3239	-1458			3241	-1461	3		3223	-1450	8	
Granite Wash	3494	-1713										
PreCambrian Granite	3546	-1765										
Rotary Total Depth	3559	-1778			3247	-1467	-311		3238	-1465	313	
Log Total Depth												



**Company: Kirby Krier Oil, Inc.**  
**Lease: Jaycat #5**

SEC: 5 TWN: 18S RNG: 10W  
County: RICE  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1771 GL  
Field Name: Bloomer  
Pool: Infield  
Job Number: 510  
API #: 15-159-22880

**Operation:**  
Uploading recovery & pressures

**DATE**  
September  
**26**  
2021

**DST #1**    **Formation: Lans D/F**    **Test Interval: 2960 - 3020'**    **Total Depth: 3020'**

Time On: 05:31 09/26    Time Off: 12:18 09/26  
Time On Bottom: 07:09 09/26    Time Off Bottom: 09:54 09/26

Electronic Volume Estimate:  
864'

1st Open Minutes: 30	1st Close Minutes: 30	2nd Open Minutes: 45	2nd Close Minutes: 60
Current Reading: 71.5" at 30 min Max Reading: 71.5"	Current Reading: .6" at 30 min Max Reading: 1.1"	Current Reading: 47.9" at 45 min Max Reading: 47.9"	Current Reading: .0" at 60 min Max Reading: .6"

Inside Recorder





**Company: Kirby Krier Oil, Inc.**  
**Lease: Jaycat #5**

SEC: 5 TWN: 18S RNG: 10W  
 County: RICE  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1771 GL  
 Field Name: Bloomer  
 Pool: Infield  
 Job Number: 510  
 API #: 15-159-22880

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 September  
**26**  
 2021

**DST #1** Formation: Lans D/F Test Interval: 2960 - 3020' Total Depth: 3020'  
 Time On: 05:31 09/26 Time Off: 12:18 09/26  
 Time On Bottom: 07:09 09/26 Time Off Bottom: 09:54 09/26

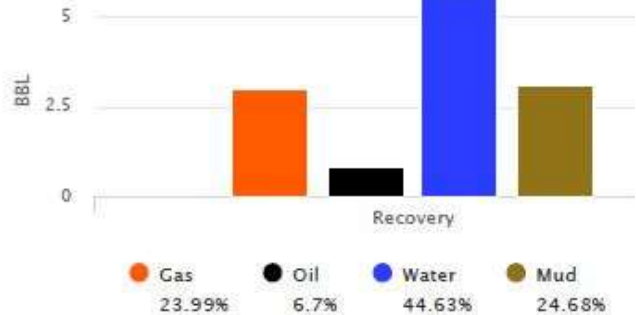
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
174	2.47602	G	100	0	0	0
1	0.01423	O	0	100	0	0
393	5.59239	SLOCHWCM	0	10	40	50
189	2.68947	SLMCSLOGCW	20	10	60	10
126	1.79298	SLMCW	0	0	98	2

Total Recovered: 883 ft  
 Total Barrels Recovered: 12.56509

**Reversed Out**  
 NO

Initial Hydrostatic Pressure	1398	PSI
Initial Flow	46 to 197	PSI
Initial Closed in Pressure	716	PSI
Final Flow Pressure	208 to 348	PSI
Final Closed in Pressure	726	PSI
Final Hydrostatic Pressure	1379	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 16.92162



**Company: Kirby Krier Oil, Inc.**  
**Lease: Jaycat #5**

SEC: 5 TWN: 18S RNG: 10W  
 County: RICE  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1771 GL  
 Field Name: Bloomer  
 Pool: Infield  
 Job Number: 510  
 API #: 15-159-22880

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 September  
**27**  
 2021

**DST #2** Formation: Arbuckle Test Interval: 3192 - 3248' Total Depth: 3248'  
 Time On: 08:03 09/27 Time Off: 12:42 09/27  
 Time On Bottom: 09:39 09/27 Time Off Bottom: 11:09 09/27

Electronic Volume Estimate:  
 1'

1st Open  
 Minutes: 20  
 Current Reading:

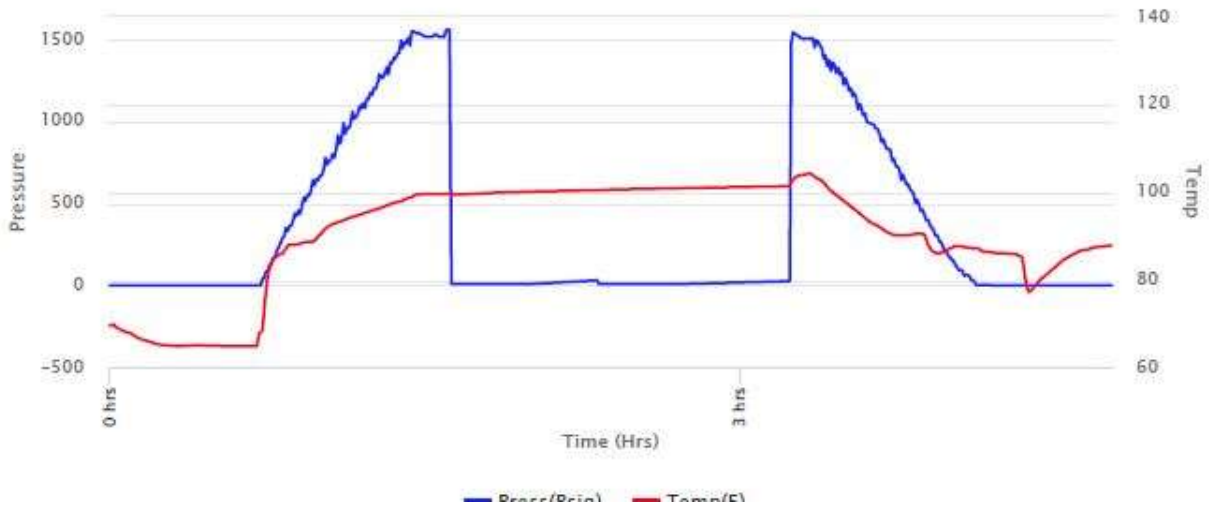
1st Close  
 Minutes: 20  
 Current Reading:

2nd Open  
 Minutes: 20  
 Current Reading:

2nd Close  
 Minutes: 30  
 Current Reading:

0" at 20 min      Max Reading: .1"      0" at 20 min      Max Reading: 0"      0" at 20 min      Max Reading: 0"      0" at 30 min      Max Reading: 0"

Inside Recorder



**Company: Kirby Krier Oil, Inc.**  
**Lease: Jaycat #5**

SEC: 5 TWN: 18S RNG: 10W  
County: RICE  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1771 GL  
Field Name: Bloomer  
Pool: Infield  
Job Number: 510  
API #: 15-159-22880

**Operation:**

Uploading recovery & pressures

**DATE**

September  
**27**  
2021

DST #2      Formation: Arbuckle      Test Interval: 3192 - 3248'      Total Depth: 3248'

Time On: 08:03 09/27      Time Off: 12:42 09/27  
Time On Bottom: 09:39 09/27      Time Off Bottom: 11:09 09/27

Recovered

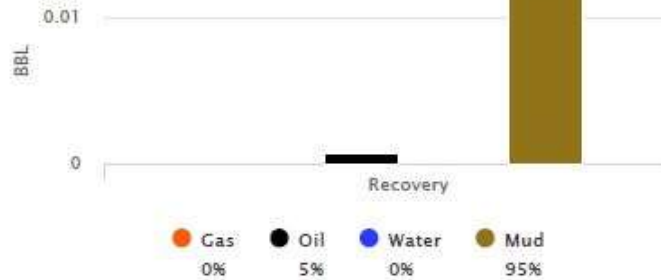
Foot      BBLs  
1      0.01423

Description of Fluid      Gas %      Oil %      Water %      Mud %  
SLOCM      0      5      0      95

Total Recovered: 1 ft  
Total Barrels Recovered: 0.01423

Reversed Out  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1517	PSI
Initial Flow	10 to 10	PSI
Initial Closed in Pressure	32	PSI
Final Flow Pressure	10 to 10	PSI
Final Closed in Pressure	28	PSI
Final Hydrostatic Pressure	1513	PSI
Temperature	102	°F

Pressure Change Initial Close / Final Close      14.5      %

GIP cubic foot volume: 0



**Company: Kirby Krier Oil, Inc.**  
**Lease: Jaycat #5**

SEC: 5 TWN: 18S RNG: 10W  
County: RICE  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1771 GL  
Field Name: Bloomer  
Pool: Infield  
Job Number: 510  
API #: 15-159-22880

**Operation:**

Uploading recovery & pressures

**DATE**

DST #3      Formation: Arbuckle      Test Interval: 3193 -      Total Depth: 3256'

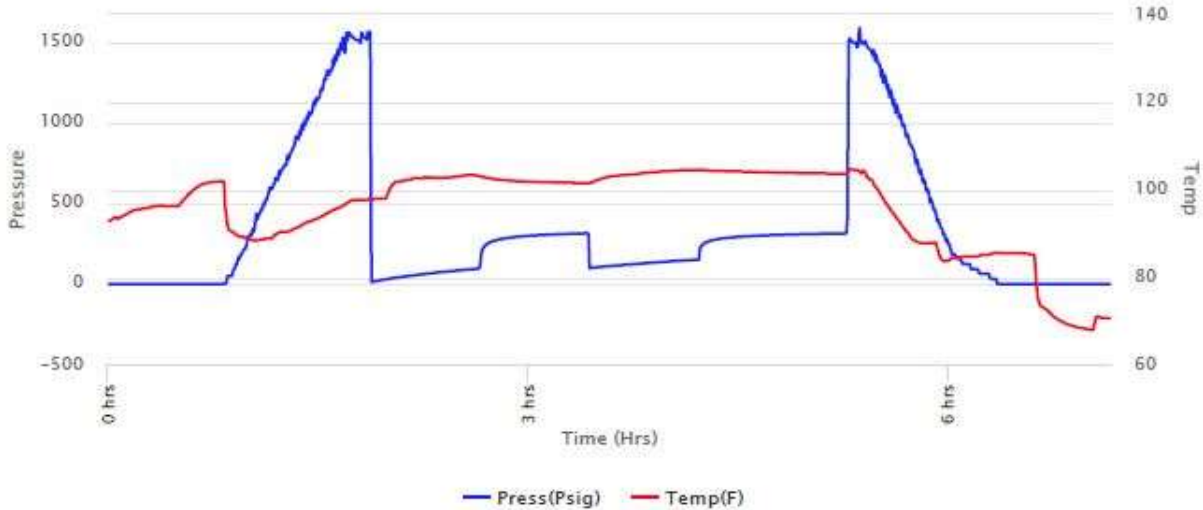
**DATE**  
September  
**27**  
2021

3256'  
Time On: 17:36 09/27      Time Off: 00:33 09/28  
Time On Bottom: 19:25 09/27      Time Off Bottom: 22:40 09/27

Electronic Volume Estimate:  
118'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 45	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 9.1" at 45 min	Current Reading: 0" at 45 min	Current Reading: 5.2" at 45 min	Current Reading: 0" at 60 min
Max Reading: 9.1"	Max Reading: 0"	Max Reading: 5.2"	Max Reading: 0"

Inside Recorder



**Company: Kirby Krier Oil, Inc.**  
**Lease: Jaycat #5**

SEC: 5 TWN: 18S RNG: 10W  
County: RICE  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1771 GL  
Field Name: Bloomer  
Pool: Infield  
Job Number: 510  
API #: 15-159-22880

**Operation:**  
Uploading recovery & pressures

**DATE**  
September  
**27**  
2021

DST #3      Formation: Arbuckle      Test Interval: 3193 - 3256'      Total Depth: 3256'  
Time On: 17:36 09/27      Time Off: 00:33 09/28  
Time On Bottom: 19:25 09/27      Time Off Bottom: 22:40 09/27

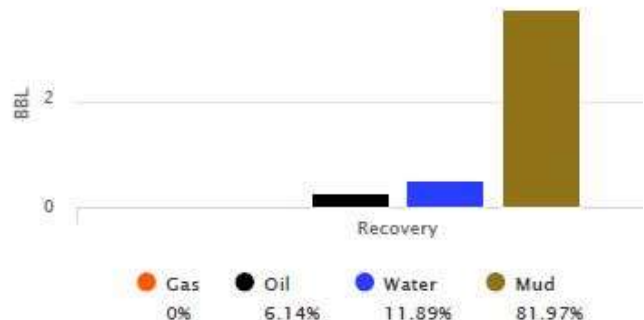
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
16	0.22768	O	0	100	0	0
176	2.50448	SLOCM	0	2	0	98
63	0.89649	SLWCM	0	0	15	85
63	0.89649	HWCM	0	0	45	55

Total Recovered: 318 ft  
Total Barrels Recovered: 4.52514

Reversed Out  
NO

Recovery at a glance

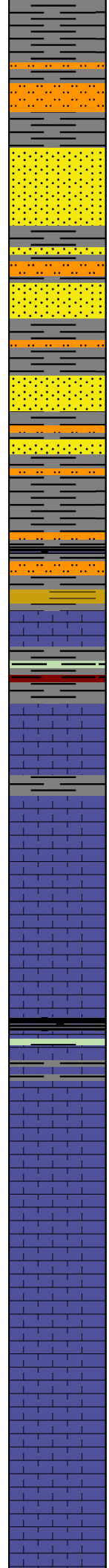
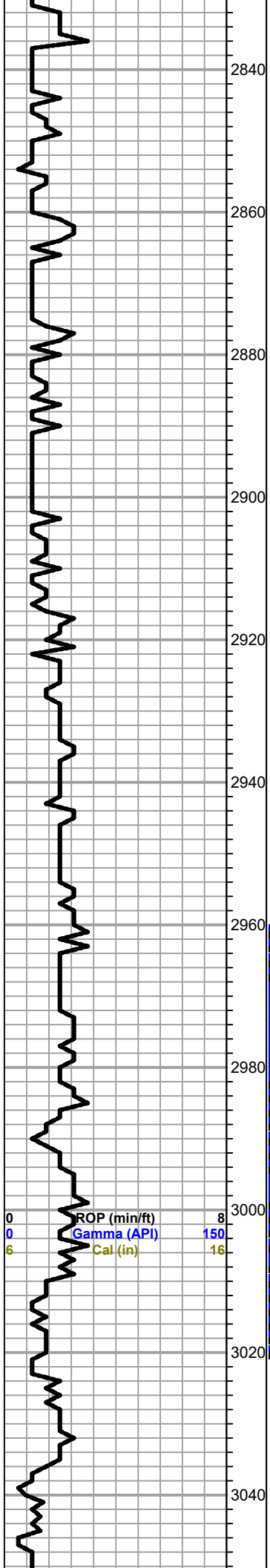
Initial Hydrostatic Pressure	1520	PSI
Initial Flow	13 to 96	PSI
Initial Closed in Pressure	316	PSI
Final Flow Pressure	99 to 153	PSI
Final Closed in Pressure	316	PSI
Final Hydrostatic Pressure	1512	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.1	%



GIP cubic foot volume: 0







Shale,gray,grayish green ,silty, soft

sand,gray,grayish green to white,very fine grained,sub rounded,micaeous, friable,fair intergranular porosity no shows

aa

Shale,gray,grayish green, micaeous, silty,with sand aa

diito aa

**BROWN LIME 2916 (-1035)**

Limestone,tan,white,finely crystalline,slightly cherty,dense

Shale,gray,grayish green,maroon

**LANSING 2931(-1150)**

,Limestone,white and gray,fine and micro crystalline,fossiliferous,chalky,poor visible porosity,trace brown edge staiing,no free oil and no odor

Limestone,white,gray,fossiliferous,chalky,poorly developed porosity,no shows

Limestone as above,trace gray boney chert

Limestone,gray,white,oolitic in part,chalky,poor porosity

Shale,black,carbonifeous with gray,green soft shale

Limestone,tan,finely crystalline,oolitic, fine vuggy to intercrystalline type porosity,golden brown to light brown stain,show of free oil and faint odor

Limestone,gray,white,fossilifeous,chalky,few cherty,dense

Limestone,white,cream,oolitic,bioclastic,fair to good fossil cast type porosity with vuggy type porosity,brown and golden brown stain,show of free oil(gassy) and faint to fair odor

Limestone,tan,buff, oolitic,oomoldic, fair to good oomoldic porosity, (barren)

aa

top of Lansing section..not correlating with drilling breaks

DST #1 2960-3020  
30-30-45-60

Blow;Strong(obb 2 1/2 mins)

final flow (obb 7 mins)  
Recovery,174' Gas in pipe

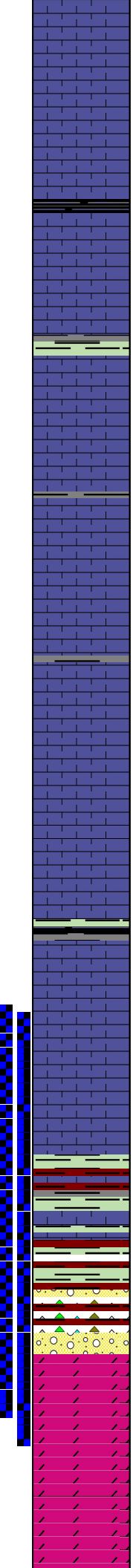
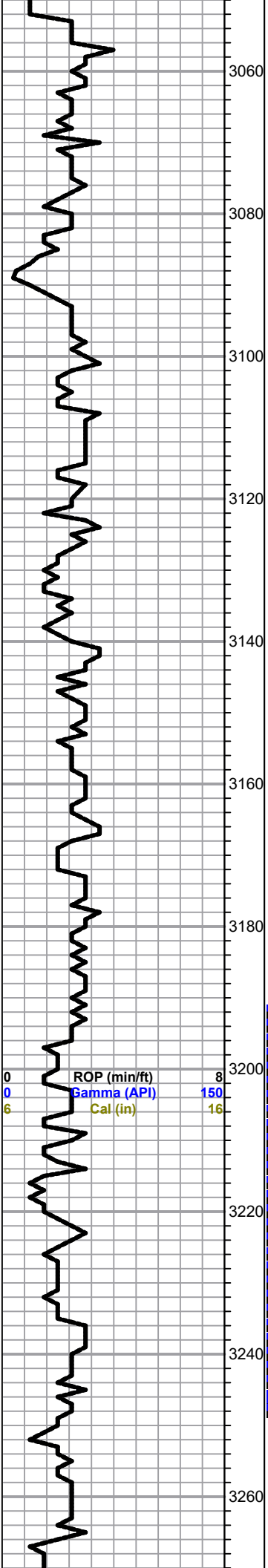
1'Clean Oil  
393'Slightly oil cut water(10% oil,40% water,50% mud0

189' Slightly oil and gas cut muddy water(10% oil,20% gas,10% mud,60% water)

126'Slightly mud cut water(98% water,2% mud)

Pressures  
ISIP 716 psi  
FSIP 726 psi  
IFP 46-197 psi  
FFP 208-348 psi  
HSH 1398-1379 psi

0 100 Total Gas (units) 100  
0 100 C5 (units) 100



Limestone,gray,white,finely crystalline,few fossiliferous,chalky,few cherty,(dense),trace Chert,white,gray,boney

aa

Shale,black carbonifeous

Limestone,white,gray,oomoldic,good oomoldic porosity,(barren)

Shale,gray,green,soft

Limestone,white,tan,oolitic ,cherty in part,poorly developed porosity,no shows

gray limey shale

Limestone,tan,gray,oomoldic,sparry calcite cement,poor visible porosity..no shows

Limestone ,as above

Limestone,gray,white,tan,fine and medium crystalline,fossiliferous,chalky,poorly developed porosity.no shows

Limestone,white,gray,highly oolitic,chalky in part,(dense)

Shale ,mixed colored ,limey,

Limestone,gray,white,chalky,fine and medium crystalline,dense

diito aa with Limestone,green tinted,argillaceous

**BASE KANSAS CITY 3212(-1431)**

Shale,gray,green,maroon,rusty brown,soft

**CONGLOMERATE 3225(-1440)**

Shale,rusty brown grayish green ,light grrn calcerous with soft red shale and Chert,white,yellow,oolitic, translucent

Chert,peach,orange,yellow,oolitic,opaque

**ARBUCKLE 3239(-1458)**

Dolomite,white,fine and medium crystalline,poor to fair intercrystalline porosity,light brown spotty stain,show of free oil and faint odor

as above,increase in porosity,and increase in stain and show of free oil with fair odor

Dolomite,white,medium crystalline, scattered small pyrite crystals in some porosity voids, fair intercrystalline porosity, light brown,trace free oil and faint odor

**DST #2 3192-3248**  
20-20-20-30  
Blow,weak(died in 5mins)

Recovery; 5' oil cut mud(5%oil,95% mud)

Pressures  
ISIP 32 psi  
FSIP 28 psi  
IFP 10-10

IFFP 10-10 psi 100  
HSH 1517- 100  
1503 100  
C4 (units) 100  
C5 (units) 100

**DST#3 3193-3256**  
45-45-45-60  
Blow fair (9 inches)

Recovery  
16'Clean Oil  
176'Slightly Oil Cut  
2% Oil ,98% Mud)  
63' Watery Mud  
(15% Water,85% Mud)  
63'Muddy Water  
(45%Water,55% Mud)

Pressures  
ISIP 316psi  
FSIP 316psi

free oil and faint odor

IFP 13-96 psi  
FFP 99-153 psi  
HSH 1520-1512 psi

3280  
3300  
3320  
3340  
3360  
3380  
3400  
3420  
3440  
3460  
3480

Dolomite,as above,fair to good porosity,scattered stain,show of free oil and faint odor, with trace Chert,white,boney  
  
Dolomite,white,medium crstalline, fair porosity,decrease in stain and show of free oil increase in pyrite  
  
Dolomite,,white,cream,medium crystalline,fair intercrystalline porosity, trace glauconite,no shows  
  
Dolomite,as above,with with chalk  
  
Dolomite,white,medium crystalline, fair to good porosity with scattered gray,white opaque Chert  
  
Dolomite,white,tan,fine and medium crystalline,sandy in part, trace glauconite..no shows  
  
aa  
  
Dolomite,aa,trace sand,tan,dolomitic,very fine and medium grainedpoorly sorted  
  
Doiomite as above,with Sand,white,clear,subrounded,friable in part  
  
Dolomite,white,tan,pink,finely crystalline,sandy in part  
  
as above  
  
Dolomite,pink,gray,finely crystalline,slightly cherty,with Sand,white,clear,very fine griained,sub rounded,well cemented to a few pieces ,friable,trace glauconite  
  
as above

ROP (min/ft) 8  
Gamma (API) 150  
Cal (in) 16

Total Gas (units) 100  
C1 (units) 100  
C2 (units) 100  
C3 (units) 100  
C4 (units) 100  
C5 (units) 100

Granite Wash 3494 ( 1712)





**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 9/28/2021  
 Invoice # 2375

P.O.#:  
 Due Date: 10/28/2021  
 Division: *Russell*

# Invoice

**ENTERED**

Contact:  
 KIRBY KRIER OIL CO INC  
 Address/Job Location:

1043 NE 80th RD  
 CLAFLIN KS 67525

Reference:  
 JAY CAT 5

Description of Work:  
 PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 684.02	No	Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$83.18	No
Common-Class A	180	\$ 2,842.80	Yes				
Special Rubber Cementing Shoe Packer Type, 5 1/2"	1	\$ 1,107.07	Yes				
Gilsonite	800	\$ 920.00	Yes				
Mud Clear	500	\$ 559.67	Yes				
5 1/2" Turbolizer	9	\$ 496.80	Yes				
5 1/2" Basket	2	\$ 429.33	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 203.93	Yes				
Salt (Fine)	15	\$ 150.65	Yes				
Bulk Truck Matl-Material Service Charge	203	\$ 155.63	No				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 106.95	No				

**Invoice Terms:**

Net 30

SubTotal: \$ 7,740.04  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (193.50)

SubTotal for Taxable Items:	\$ 6,542.49
SubTotal for Non-Taxable Items:	\$ 1,004.04
<b>Total:</b>	<b>\$ 7,546.54</b>
<b>Tax:</b>	<b>\$ 490.69</b>

7.50% Rice County Sales Tax

**Amount Due: \$ 8,037.23**  
**Applied Payments:**  
**Balance Due: \$ 8,037.23**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

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

No. 2375

Date	9-28-21	Sec.	Twp.	Range	County	State	On Location	Finish
					Rice	KS		10:30pm

Location Clatline 3rd rd 1/4s W1/4

Lease	<u>Jay Cat</u>	Well No.	<u>5</u>	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	<u>Sorghum</u>			Charge To	<u>Kinby Krueger</u>
Type Job	<u>Production String</u>	T.D.	<u>3559</u>	Street	
Hole Size	<u>7 7/8</u>	Depth	<u>3291</u>	City	State
Csg.	<u>5 1/2 15.50</u>	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	<u>1800 gal / 10' salt + 5' Gel / 50 gal</u>
Tool		Depth		Common	<u>180</u>
Cement Left in Csg.	<u>21.60</u>	Shoe Joint	<u>21.60</u>	Poz. Mix	
Meas Line		Displace	<u>788L</u>	Gel.	

**EQUIPMENT**

Pumptrk	<u>17</u>	No.	Cement Helper <u>Grain</u>	Calcium	
		No.	Driver <u>David</u>	Hulls	
Bulktrk		No.	Driver	Salt	<u>15</u>
Bulktrk	<u>9</u>	No.	Driver <u>Jordan</u>	Flowseal	

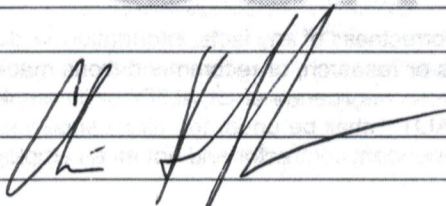
**JOB SERVICES & REMARKS**

Remarks:	
Rat Hole	<u>30SK</u>
Mouse Hole	<u>20SK</u>
Centralizers	
Baskets	
D/V or Port Collar	
	<u>5 1/2 salt @ 3291. <del>3269</del> salt @ 3269</u>
	<u>Best Condition. Salt Packer shoe.</u>
	<u>Pump 500 gal mud clear Plug Rathole</u>
	<u>Mueschke - Cement 5 1/2 with 130SK.</u>
	<u>Clearlines + Descale Plug.</u>
	<u>Plug land @ 1500ft</u>

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	<u>9</u>
Baskets	<u>2</u>
AFU Inserts	<u>Packer shoe</u>
Float Shoe	
Latch Down	<u>1</u>

THANKS

Pumptrk Charge	<u>Prod String</u>	Tax	
Mileage	<u>31</u>	Discount	
Signature		Total Charge	

Thanks



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 9/22/2021  
 Invoice # 2466  
 P.O.#:  
 Due Date: 10/22/2021  
 Division: Russell

# Invoice

**PAID**

**ENTERED**

**Contact:**  
 KIRBY KRIER OIL CO INC  
**Address/Job Location:**

1043 NE 80th RD  
 CLAFLIN KS 67525

**Reference:**  
 JAY CAT 5 SEC 5-18-10

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 684.02	No				
Common-Class A	110	\$ 1,737.27	Yes				
POZ Mix-Standard	70	\$ 375.67	Yes				
Calcium Chloride	6	\$ 257.60	Yes				
Bulk Truck Matl-Material Service Charge	191	\$ 146.43	No				
Pump Truck Mileage-Job to Nearest Camp	31	\$ 106.95	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	31	\$ 83.18	No				
Premium Gel (Bentonite)	3	\$ 66.70	Yes				

SubTotal: \$ 3,457.82

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (86.45)

SubTotal for Taxable Items: \$ 2,376.30

SubTotal for Non-Taxable Items: \$ 995.07

Total: \$ 3,371.37

Tax: \$ 178.22

7.50% Rice County Sales Tax

**Amount Due: \$ 3,549.59**

**Applied Payments:**

**Balance Due: \$ 3,549.59**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

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

No. 2466

Date	9/22/21	Sec.	5	Twp.	18	Range	10	County	Rice	State	Kansas	On Location		Finish	11:30 PM
								Location	Clafha SE 1/4 S Winto						

Lease	Jay Cat	Well No.	5	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	Southwind Drilling														
Type Job	Surface														
Hole Size	12 1/4	T.D.	338	Charge To	Kirby Krier										
Csg.	8 5/8	Depth	336.92	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.	15'	Shoe Joint	15'	Cement Amount Ordered	180 <sup>60</sup> 40 4%cc 2%gel										
Meas Line		Displace	20.4												

**EQUIPMENT**

Pumptrk	18	No.	Cementer	David	Common	110
			Helper		Poz. Mix	70
Bulktrk	9	No.	Driver	Brett	Gel.	3
			Driver		Calcium	8
Bulktrk		No.	Driver			
			Driver			

**JOB SERVICES & REMARKS**

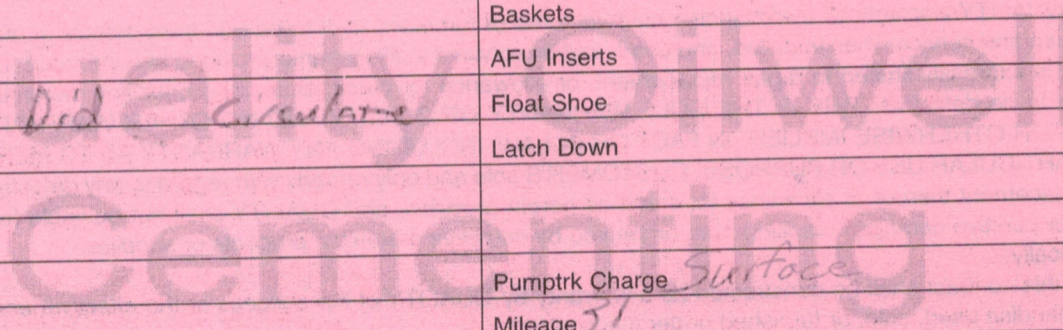
Remarks:	Salt
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling 191
	Mileage

Ran 8 5/8 and cemented with 180sk5

**FLOAT EQUIPMENT**

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Cement did circulate



Pumptrk Charge	Surface	Tax	
Mileage	31	Discount	
<p>Thanks</p>		Total Charge	
<p>Signature</p>			

X Signature