

**CONFIDENTIAL**

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

ORIGINAL

1-12-14

OPERATOR: License # 5120  
Name: Range Oil Company, Inc.  
Address 1: 125 N. Market, Suite 1120  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67202  
Contact Person: John Washburn  
Phone: (316) 265-6231  
CONTRACTOR: License # 30141  
Name: Summit Drilling Company  
Wellsite Geologist: Roger Martin  
Purchaser: Coffeyville Resources LLC

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>11-29-11</u>	<u>12-7-11</u>	<u>1-4-12</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 015-23,929 -00-00  
Spot Description: \_\_\_\_\_  
SW SW NE Sec. 16 Twp. 27 S. R. 6  East  West  
2,190 Feet from  North /  South Line of Section  
2,310 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Butler  
Lease Name: Barkus Well #: 1  
Field Name: Reynolds-Schaffer  
Producing Formation: Simpson  
Elevation: Ground: 1379 Kelly Bushing: 1389  
Total Depth: 3124 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 227 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: 1200 ppm Fluid volume: 400 bbls  
Dewatering method used: evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: JAN 12 2014 Permit #: \_\_\_\_\_

**KCC**    **RECEIVED**  
**JAN 13 2012**

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market, Room 2044, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**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.

Signature: John M. Washburn  
Title: Exploration Manager Date: 1-12-12

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
Date: 1-12-12 to 1-12-14  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 1-18-12

Operator Name: Range Oil Company, Inc. Lease Name: Barkus Well #: \_\_\_\_\_  
 Sec. 16 Twp. 27 S. R. 6  East  West County: Butler

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <u>Dual porosity + induction</u> DST (1) 2601-2758 57-30-60-64 Rec: 40' SOCM + 125' GOCM + 155' GOWCM + 250' MCW IFP 88-226 ISIP 647 FFP 250-299 FSIP 685 T:98 F DST (2) 3043-3123 30-30-30-30 Rec: 10' mud IFP 88-52 ISIP 126 FFP 58-45 FSIP 176 T:101 F	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>1448</td> <td>-99</td> </tr> <tr> <td>Lansing</td> <td>1787</td> <td>-397</td> </tr> <tr> <td>Kansas City</td> <td>2108</td> <td>-719</td> </tr> <tr> <td>BKC</td> <td>2284</td> <td>-895</td> </tr> <tr> <td>Mississippian</td> <td>2747</td> <td>-1358</td> </tr> <tr> <td>Kinderhook</td> <td>3051</td> <td>-1662</td> </tr> <tr> <td>Simpson</td> <td>3118</td> <td>-1729</td> </tr> </table>	Name	Top	Datum	Heebner	1448	-99	Lansing	1787	-397	Kansas City	2108	-719	BKC	2284	-895	Mississippian	2747	-1358	Kinderhook	3051	-1662	Simpson	3118	-1729
Name	Top	Datum																							
Heebner	1448	-99																							
Lansing	1787	-397																							
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BKC	2284	-895																							
Mississippian	2747	-1358																							
Kinderhook	3051	-1662																							
Simpson	3118	-1729																							

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	23	227	common	130	3% CaCl
Production	7 7/8"	5 1/2"	14	3120	Thickset	135	

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	Open Hole 3120' to 3124'	500 gallons acid (15% MCA)	3120-3124
		Fracture 100 lbs sand + 196 bbls water	
		<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     CONFIDENTIAL                      JAN 12 2014                      KCC                 </div>	
		<div style="border: 1px solid black; padding: 5px; display: inline-block; transform: rotate(-15deg);">                     RECEIVED                      JAN 13 2012                      KCC WICHITA                 </div>	

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>3017</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>1-4-12</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>6.2</u>	Gas Mcf	Water Bbls. <u>145</u>	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 checked="" 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 (Specify) _____	PRODUCTION INTERVAL: <u>3120' - 3124'</u>
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**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 33474

LOCATION Eureka

FOREMAN Rick Ladford

P.O. Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

API# 15-015-23929

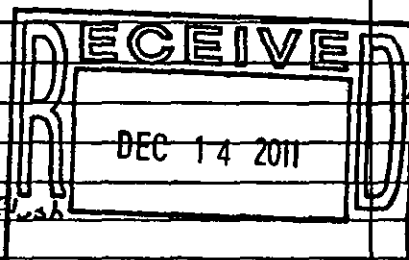
DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12/8/11	6942	Barcus #1	16	27	6E	Butler
CUSTOMER <u>Range Oil Company Inc.</u>			Summit Oils			
MAILING ADDRESS <u>125 N. Market St 1120</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Wichita</u>			STATE <u>KS</u>	ZIP CODE <u>67202</u>		
			445	Dave		
			667	Allen B.		
			637	Chris M.		

JOB TYPE 1/3 0 HOLE SIZE 7 7/8" HOLE DEPTH 3122.5 CASING SIZE & WEIGHT 5 1/2" 14" wcu  
 CASING DEPTH 3120' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.6\* SLURRY VOL 42 Bbl WATER gal/sk 9.0 CEMENT LEFT in CASING 0'  
 DISPLACEMENT 76.8bbl DISPLACEMENT PSI 1000 PSI 1400 Bump plug RATE \_\_\_\_\_

REMARKS: Safety meeting- Rig up to 5 1/2" casing. Break circulation w/ fresh water. Set packer shoe @ 1200 PSI. Pump 15 Bbl metasilicate pre-flush, 5 Bbl water spacer. Mixed 135 sacks thickset cement w/ 5" Katsal /sk @ 13.6\*/gal. yield 1.75. Washout pump + lines shut down, release 5 1/2" top rubber plug. Displace w/ 76.8 bbl fresh water. Final pump pressure 1000 PSI. Bump plug to 1400 PSI. wait 2 minutes, release pressure, float + plug held. Good circulation @ all times while cementing. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	40	MILEAGE	4.00	160.00
1126A	135 sacks	thickset cement	18.30	2470.50
1110A	675*	5" Katsal /sk	.44	297.00
1111A	100*	metasilicate pre-flush	1.90	190.00
5407A	7.43	ten mileage bulk trk	1.26	374.47
5502C	4 hrs	80 Bbl vac. TRK	90.00	360.00
1123	3000 gals	city water	15.60/1000	46.80
4406	1	5 1/2" top rubber plug	70.00	70.00
4130	8	5 1/2" x 7 7/8" centralizers	48.00	384.00
4253	1	5 1/2" x 7 7/8" type A packer shoe	1584.00	1584.00
RECEIVED JAN 13 2012 KCC WICHITA				
		Subtotal		6911.77
		SALES TAX @ 5.5%		330.28
		ESTIMATED TOTAL		7242.05



Form 3737

AUTHORIZATION Dary I Reed TITLE 246386 DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Company **Range Oil Co., Inc.**  
 Address **125 North Market, Suite 1120**  
 CSZ **Wichita, KS 67202**  
 Attn. **Roger Martin**

Lease Name **Barkus**  
 Lease # **1**  
 Legal Desc **SW SW NE** Job Ticket **3455**  
 Section **16** Range **6E**  
 Township **27S**  
 County **Butler** State **KS**  
 Drilling Cont **Summit Drilling #1**

Comments **Field: Reynolds-Schaffer**

**GENERAL INFORMATION**

Test # 1 Test Date **12/5/2011**  
 Tester **Jimmy Ricketts**  
 Test Type **Conventional Bottom Hole**  
**Successful Test**  
 # of Packers **2.0** Packer Size **6 3/4**

Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **13767**  
 Mid Recorder #  
 Bott Recorder # **w1022**

Mud Type **Gel Chem**  
 Mud Weight **9.5** Viscosity **44.0**  
 Filtrate **9.4** Chlorides **1100**

Mileage **120** Approved By  
 Standby Time **0**  
 Extra Equipmnt **Jars & Safety Joint**  
 Time on Site **11:00 PM**  
 Tool Picked Up **12:30 AM**  
 Tool Layed Dwn **10:00 AM**

Drill Collar Len **249.0**  
 Wght Pipe Len **0**

Elevation **1379.00** Kelley Bushings **1389.00**

Formation **Mississippi**  
 Interval Top **2601.0** Bottom **2758.0**  
 Anchor Len Below **157.0** Between **0**  
 Total Depth **2758.0**

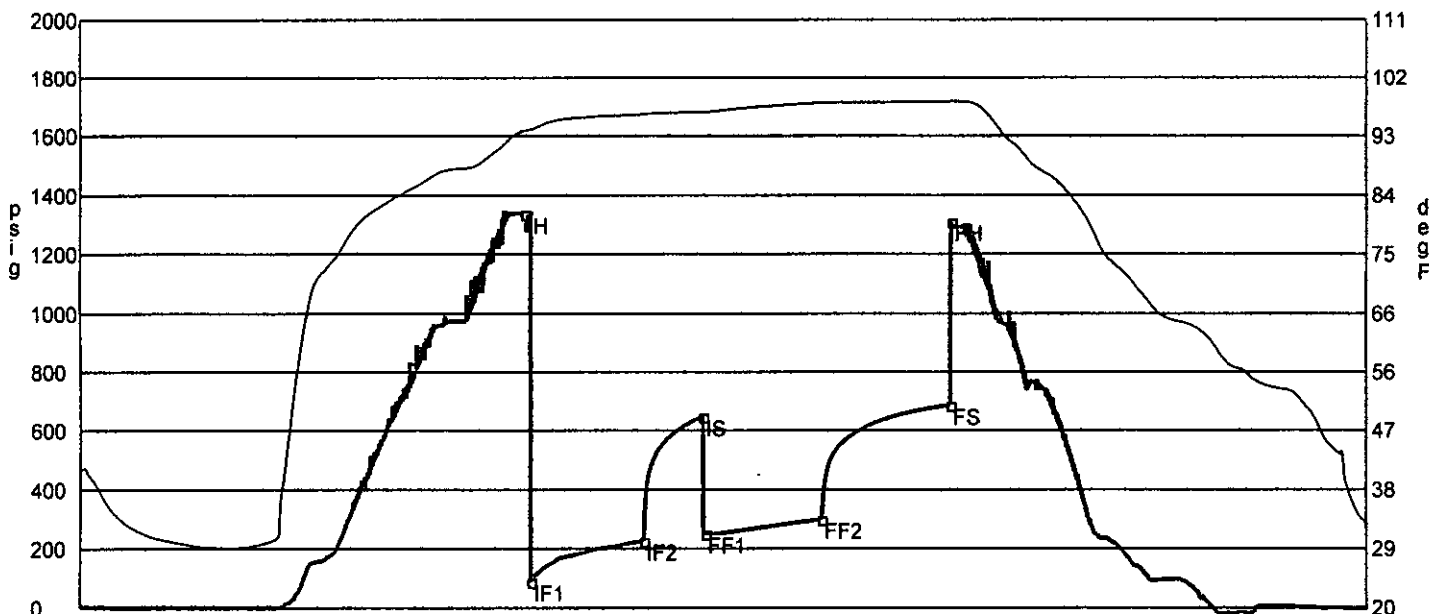
Start Date/Time **12/5/2011 12:01 AM**  
 End Date/Time **12/5/2011 10:51 AM**

Blow Type **Weak blow building to strong blow 7 minutes into initial flow period. Weak blow building to strong blow 19 minutes into final flow period. 1/2 inch blow back during final shut-in period. Times: 57, 30, 60, 64.**

**RECOVERY**

Feet	Description	Gas		Oil		Water		Mud	
40	Oil cut mud	0%	0ft	1%	0.4ft	0%	0ft	99%	39.6ft
125	Gassy oil cut mud	14%	17.5ft	8%	10ft	0%	0ft	78%	97.5ft
155	Gassy oil and water cut mud	13%	20.2ft	4%	6.2ft	16%	24.8ft	67%	103.8ft
250	Oil and heavy mud cut water	0%	0ft	2%	5ft	73%	182.5ft	25%	62.5ft

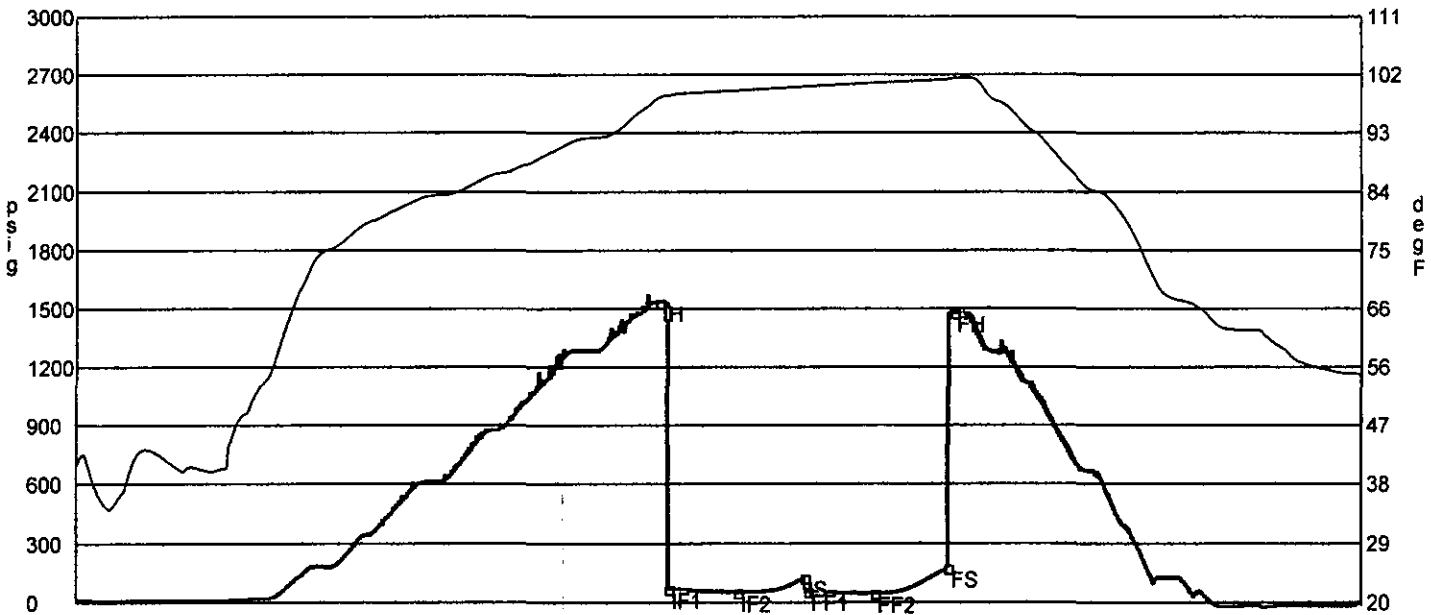
DST Fluids **75000**



	Date	Time	Pressure	Temp	
IH	12/5/2011 3:44:20 AM	3.722222	1337.109	93.488	Initial Hydro-static
IF1	12/5/2011 3:47:40 AM	3.777778	88.457	93.611	Initial Flow (1)
IF2	12/5/2011 4:44:30 AM	4.725	226.541	96.166	Initial Flow (2)
IS	12/5/2011 5:14:30 AM	5.225	646.99	96.538	Initial Shut-In
FF1	12/5/2011 5:15:40 AM	5.244444	249.98	96.487	Final Flow (1)
FF2	12/5/2011 6:14:20 AM	6.222222	298.82	97.925	Final Flow (2)
FS	12/5/2011 7:19:10 AM	7.302778	684.776	98.097	Final Shut-In
FH	12/5/2011 7:19:50 AM	7.313889	1310.095	98.172	Final Hydro-static

**GAS FLOWS**

Min Into IFP   Min Into FFP   Gas Flows   Pressure   Choke



	Date	Time	Pressure	Temp	
IH	12/7/2011 9:35:45 AM	4.2125	1534.081	98.276	Initial Hydro-static
IF1	12/7/2011 9:39:45 AM	4.279167	68.308	98.599	Initial Flow (1)
IF2	12/7/2011 10:10:00 AM	4.783333	51.609	99.404	Initial Flow (2)
IS	12/7/2011 10:39:15 AM	5.270833	126.197	100.028	Initial Shut-In
FF1	12/7/2011 10:40:45 AM	5.295833	56.029	100.04	Final Flow (1)
FF2	12/7/2011 11:10:00 AM	5.783333	45.365	100.585	Final Flow (2)
FS	12/7/2011 11:42:00 AM	6.316667	175.673	101.137	Final Shut-In
FH	12/7/2011 11:44:30 AM	6.358333	1477.274	101.34	Final Hydro-static

**GAS FLOWS**

Min Into IFP    Min Into FFP    Gas Flows    Pressure    Choke

Company **Range Oil Co., Inc.**  
 Address **125 North Market, Suite 1120**  
 CSZ **Wichita, KS 67202**  
 Attn. **Roger Martin**

Lease Name **Barkus**  
 Lease # **1**  
 Legal Desc **SW SW NE**  
 Section **16**  
 Township **27S**  
 County **Butler**  
 Drilling Cont **Summit Drilling #1**

Job Ticket **3455**  
 Range **6E**  
 State **KS**

Comments **Field: Reynolds-Schaffer**

**GENERAL INFORMATION**

Test # **2** Test Date **12/7/2011**  
 Tester **Jimmy Ricketts**  
 Test Type **Conventional Bottom Hole**  
**Successful Test**  
 # of Packers **2.0** Packer Size **6 3/4**

Mud Type **Gel Chem**  
 Mud Weight **9.4** Viscosity **55.0**  
 Filtrate **8.2** Chlorides **1600**

Drill Collar Len **313.0**  
 Wght Pipe Len **0**

Formation **Sand**  
 Interval Top **3042.0** Bottom **3122.0**  
 Anchor Len Below **80.0** Between **0**  
 Total Depth **3122.0**

Blow Type **Weak blow building to 1/2 inch initial flow period. No blow final flow period.**  
 Times: **30, 30, 30, 32.**

Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **13767**  
 Mid Recorder #  
 Bott Recorder # **w1022**  
 Mileage **80** Approved By  
 Standby Time **0**  
 Extra Equipmnt **Jars & Safety Joint**  
 Time on Site **2:30 AM**  
 Tool Picked Up **6:00 AM**  
 Tool Layed Dwn **2:00 PM**  
 Elevation **1379.00** Kelley Bushings **1389.00**

Start Date/Time **12/7/2011 5:23 AM**  
 End Date/Time **12/7/2011 2:43 PM**

**RECOVERY**

Feet	Description	Gas		Oil		Water		Mud
10	Drilling mud	0%	0ft	0%	0ft	0%	0ft	100%10ft
1	Drilling mud in tool sample	0%	0ft	0%	0ft	0%	0ft	100%1ft

DST Fluids **0**