



**Thornton Air Rotary, LLC**

PO Box 449  
Caney, KS 67333

Date	Invoice #
1/9/2013	294-2

Phone # 620-879-2073 E-Mail  
Fax # 620-879-2073 thorntonairrotary@hotmail.com

Bill To
Post Rock Energy Corporation 210 Park Avenue, Suite 2750 Oklahoma City, OK 73102

Terms
Due on receipt

Description	Footage/Quantity	Rate	Amount
Grady, James A Well # 5-3	1,108	8.50	9,418.00

We appreciate the opportunity to work for you!		<b>Total</b>	\$9,418.00
		<b>Payments/Credits</b>	\$0.00
		<b>Balance Due</b>	\$9,418.00

Air Drilling Specialist  
Oil & Gas Wells

**THORNTON AIR ROTARY, LLC**  
Office Phone: 620-879-2073

PO Box 449  
Caney, KS 67333

Date Started	<b>1/8/2013</b>
Date Completed	<b>1/09/2013</b>

Operator	A.P.I #	County	State
<b>Post Rock Energy</b>	<b>15-205-28077-00-00</b>	<b>Wilson</b>	<b>Kansas</b>

Well No.	Lease	Sec.	Twp.	Rge.
<b>5-3</b>	<b>Grady, James A</b>	<b>5</b>	<b>28</b>	<b>17</b>

Type	Driller	Cement Used	Casing Used	Depth	Size of Hole
<b>Oil</b>	<b>Brantley Thornton</b>	<b>5</b>	<b>22' 8 5/8</b>	<b>1108</b>	<b>7 7/8</b>

**Formation Record**

0-3	MUD	634-655	LIME (PAWNEE)		
3-6	SHALE	655-692	SHALE		
6-12	LIME	692-705	LIME (OSWEGO)		
12-16	SHALE	705-710	BLK SHALE (SUMMIT)		
16-20	LIME	710-721	LIME		
20-22	SHALE	721-726	BLK SHALE (MULKY)		
22-80	SANDY SHALE	726-727	COAL		
80-104	LIME	727-729	LIME		
104-110	SAND	729-800	SHALE		
110-116	SANDY LIME	800-830	SANDY SHALE		
116-120	SAND	830-910	SAND		
120-134	SANDY SHALE	840	PICKED UP LOTS OF WATER		
134-200	SAND	910-940	SANDY SHALE		
182	WENT TO WATER	940-1000	SAND / LT ODOR & SHOW		
200-310	LIME	1000-1020	SAND /GOOD ODOR & SHOW		
310-320	SAND	1020-1050	SAND / LT ODOR		
320-321	COAL	1050-1080	SANDY SHALE/ NO ODOR		
321-350	SANDY SHALE	1080-1106	SANDY SHALE		
350-381	LIME	1106-1108	COAL		
381-388	SHALE	1108	TD		
388-420	LIME				
420-441	SHALE				
441-442	COAL				
442-511	SHALE				
511-512	COAL				
512-528	SANDY SHALE				
528-536	LIME				
536-628	SAND				
628-629	COAL (MULBERRY)				
629-634	SANDY SHALE				