



Thornton Air Rotary, LLC

PO Box 449
Caney, KS 67333

Date	Invoice #
1/4/2013	292-2

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 # 5-4	1,107	8.50	9,409.50
We appreciate the opportunity to work for you!			Total \$9,409.50
			Payments/Credits \$0.00
			Balance Due \$9,409.50

Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	1/3/2013
Date Completed	1/4/2013

Operator	A.P.I #	County	State
Post Rock Energy	15-205-28078-00-00	Wilson	Kansas

Well No.	Lease	Sec.	Twp.	Rge.
5-4	Grady, James A	5	28	17

Type	Driller	Cement Used	Casing Used	Depth	Size of Hole
Oil	Brantley Thornton	5	25' 8 5/8	1107	7 7/8

Formation Record

0-6	MUD	712-720	BLK SHALE (SUMMIT)		
6-12	SHALE	720-732	LIME		
12-20	LIME	732-737	BLACK SHALE (MULKY)		
20-30	SHALE	737-738	COAL		
30-45	LIME	738-741	LIME		
45-50	SANDY LIME	741-804	SHALE		
50-60	LIME	804-806	COAL		
60-115	SHALE	806-830	SHALE		
115-127	LIME	830-850	SANDY SHALE		
127-206	SAND / DAMP	850-862	SAND		
206-225	SANDY LIME	862-863	COAL		
225-227	COAL	863-892	SAND		
227-290	LIME	892-893	COAL		
290-327	LMY SHALE	893-960	SAND		
327-340	LIME	960-980	SAND / LT ODOR & SHOW		
340-352	BLACK SHALE	980-1002	SAND / ODOR & GOOD SHOW		
352-420	LIME	1002-1015	SAND / GOOD ODOR & SHOW		
420-450	SANDY SHALE	1015-1050	SAND / GOOD ODOR & STRONG SHOW		
450-465	LIME	1050-1075	SAND / LT ODOR		
465-511	SANDY SHALE	1075-1085	SANDY SHALE		
511-530	LIME	1085-1090	SHALE		
530-637	SAND (WISER)	1090-1091	COAL		
637-638	COAL (MULBERRY)	1091-1106	SANDY SHALE		
638-660	LIME (PAWNEE)	1106-1107	COAL		
660-696	SHALE	1107	TD		
696-700	LIME (OSWEGO)				
700-701	COAL				
701-706	LIME				
706-710	COAL				
710-712	LIME				