



# Thornton Air Rotary, LLC

PO Box 449  
Caney, KS 67333

Date	Invoice #
12/20/2012	289-2

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
Hardin, B Well # 27-4	1,032	8.50	8,772.00

We appreciate the opportunity to work for you!	<b>Total</b>	\$8,772.00
	<b>Payments/Credits</b>	\$0.00
	<b>Balance Due</b>	\$8,772.00

Air Drilling Specialist  
Oil & Gas Wells

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

PO Box 449  
Caney, KS 67333

Date Started	<b>12/17/2012</b>
Date Completed	<b>12/18/2012</b>

Operator	A.P.I #	County	State
<b>Post Rock Energy</b>	<b>15-205-28072-00-00</b>	<b>Wilson</b>	<b>Kansas</b>

Well No.	Lease	Sec.	Twp.	Rge.
<b>27-4</b>	<b>Hardin, B</b>	<b>27</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>21' 8" 8 5/8</b>	<b>1032</b>	<b>7 7/8</b>

**Formation Record**

0-8	CLAY	691-697	LIME (OSWEGO)		
8-110	SHALE	697-698	BLK SHALE / COAL?		
110-116	LIME	698-710	LIME		
116-126	SAND	710-716	BLK SHALE (SUMMIT)		
126-145	SANDY SHALE	716-723	LIME		
145-165	SHALE	723-731	BLK SHALE (MULKY)		
165-170	LIME	731-809	SHALE		
170-208	SHALE	809-811	LIME		
208-211	LIME	811-813	SHALE		
211-213	SHALE	813-815	COAL		
213-246	LIME	815-900	SANDY SHALE		
246-251	SAND	900-928	SANDY SHALE		
251-283	LMY SHALE	928-933	SAND / LT ODOR & SHOW		
283-330	SHALE	933-940	SAND /GOOD SHOW, LT ODOR		
330-358	LIME	940-948	SAND / GOOD ODOR & SHOW		
358-360	SANDY SHALE	948-952	COAL / BLK SHALE		
360-361	COAL / DAMP	952-980	SANDY SHALE		
361-364	SHALE	980-982	COAL		
364-380	LIME / REAL WET	982-1032	SANDY SHALE		
380-480	SHALE	1032	TD		
480-528	LIME				
528-537	SHALE				
537-542	SANDY LIME / HARD				
542-551	SAND / SOFTER, WET				
551-612	SHALE				
612-613	COAL (MULBERRY)				
613-618	SHALE				
618-649	LIME (PAWNEE)				
649-655	BLK SHALE (LEXINGTON)				
655-691	SHALE				